ETSI TS 102 841 V1.4.1 (2013-03)



Digital Enhanced Cordless Telecommunications (DECT);
New Generation DECT;
Extended wideband speech services;
Profile Test Specification (PTS) and Test Case Library (TCL)

Reference

RTS/DECT-NG267

Keywords

codec, DECT, GAP, IMT-2000, interoperability, IP, profile, speech, testing

ETSI

650 Route des Lucioles F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C Association à but non lucratif enregistrée à la Sous-Préfecture de Grasse (06) N° 7803/88

Important notice

Individual copies of the present document can be downloaded from: <u>http://www.etsi.org</u>

The present document may be made available in more than one electronic version or in print. In any case of existing or perceived difference in contents between such versions, the reference version is the Portable Document Format (PDF). In case of dispute, the reference shall be the printing on ETSI printers of the PDF version kept on a specific network drive within ETSI Secretariat.

Users of the present document should be aware that the document may be subject to revision or change of status.

Information on the current status of this and other ETSI documents is available at

http://portal.etsi.org/tb/status/status.asp

If you find errors in the present document, please send your comment to one of the following services: <u>http://portal.etsi.org/chaircor/ETSI_support.asp</u>

Copyright Notification

No part may be reproduced except as authorized by written permission. The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 2013.
All rights reserved.

DECTTM, **PLUGTESTS**TM, **UMTS**TM and the ETSI logo are Trade Marks of ETSI registered for the benefit of its Members. **3GPP**TM and **LTE**TM are Trade Marks of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners.

GSM® and the GSM logo are Trade Marks registered and owned by the GSM Association.

Contents

Intel	lectual Property Rights	6
Fore	word	6
1	Scope	7
2.	References	7
2.1	Normative references	
2.2	Informative references	
2		
3	Definitions, symbols and abbreviations	
3.1 3.2	Definitions	
3.2 3.3	Symbols	
4	Test method	
4.1	Test platform	
4.1.1 4.1.1.	PP test platform.	
4.1.1. 4.1.1.		
4.1.1. 4.1.1.	••	
4.1.1.		
4.1.1.		
4.1.1.		
4.1.1.	1.6 Contact list	15
4.1.1.	1.7 Internal names list	15
4.1.1.	1.8 DECT system settings list	16
4.1.1.	= 6°	
4.1.1.	C	
4.1.2	FP test platform	
4.1.2.		
4.1.3	NG-DECT PART1 backward compatibility test platform	
4.2	Hypothesis	
4.3 4.3.1	Test groups	
4.3.2	Application features	
5	Test Cases (TCs)	
5.1	TC definition conventions	
5.1.1	Test equipment implementation requirements	
5.2 5.3	TC naming conventions Portable Part TC purposes	
5.3.1	List of New Generation DECT Part 3 PT tests cases related to NG-DECT Part 1 features	
5.3.2	List of New Generation DECT Part 3 PT tests cases	
5.4	Fixed Part TC purposes	
5.4.1	List of New Generation DECT Part 3 FT tests cases related to NG-DECT Part 1 features	
5.4.2	List of New Generation DECT Part 3 FT tests cases	
6	Portable Part Test specification	30
6.1	TC_PT_NG1.N.1 Codec negotiation tests cases	
6.2	TC_PT_NG1.N.1 Codec negotiation tests cases TC_PT_NG1.N.2 Codec switching tests cases	
6.3	TC_PT_NG1.N.3 Missed call notification tests cases	
6.4	TC_PT_NG1.N.4 Voice message waiting notification tests cases	
6.5	TC_PT_NG1.N.5 Date and time synchronization tests cases	
6.6	TC_PT_NG1.N.6 Parallel calls tests cases	
6.7	TC_PT_NG1.N.7 Common parallel call procedures tests cases	
6.8	TC_PT_NG1.N.8 Call transfer tests cases	53
6.9	TC_PT_NG1.N.9 3-party conference with established external and/or internal calls tests cases	
6.10	TC_PT_NG1.N.10 Intrusion call tests cases	
6.11	TC_PT_NG1.N.11 Call deflection (external or internal) tests cases	65

6.12	TC_PT_NG1.N.12 Line identification tests cases	
6.13	TC_PT_NG1.N.13 Call identification tests cases	
6.14	TC_PT_NG1.N.14 Multiple lines tests cases	
6.15	TC_PT_NG1.N.15 Multiple calls tests cases	
6.16	TC_PT_NG1.N.16 List access service tests cases	
6.17	TC_PT_NG1.N.17 Calling line identity restriction tests cases	
6.18	TC_PT_NG1.N.18 Call forwarding (external calls) tests cases	
6.19	TC_PT_NG1.N.19 DTMF handling tests cases	
6.20	TC_PT_NG1.N.20 Tones provision tests cases	
6.21	TC_PT_NG1.N.21 Headset management tests cases	
6.22 6.23	TC_PT_NG1.N.22 Handling of lines where second calls are signalled in-band tests cases	
6.24	TC_PT_GAP.N.30 Calling Line Identification Presentation tests cases	
6.25	TC_PT_GAP.N.34 Calling Name Identification Presentation tests cases	
6.26	TC_PT_GAP.N.35 Enhanced security tests cases	
6.27	TC_PT_NG1.A.1 Easy PIN code registration tests cases	
6.28	TC_PT_NG1.A.2 Easy pairing registration tests cases	
6.29	TC_PT_NG1.A.3 Handset locator tests cases	
7	Fixed Part Test specification	
7.1	TC_FT_NG1.N.1 Codec negotiation tests cases	
7.2	TC_FT_NG1.N.2 Codec switching tests cases	
7.3	TC_FT_NG1.N.3 Missed call notification tests cases	
7.4	TC_FT_NG1.N.4 Voice message waiting notification tests cases	
7.5	TC_FT_NG1.N.5 Date and time synchronization tests cases	
7.6	TC_FT_NG1.N.6 Parallel calls tests cases TC_FT_NG1.N.7 Common parallel call procedures tests cases	
7.7	TC_FT_NG1.N.7 Common parallel call procedures tests cases TC_FT_NG1.N.8 Call transfer tests cases	
7.8 7.9	TC_FT_NG1.N.9 3-party conference with established external and/or internal calls tests cases	
7.10	TC_FT_NG1.N.10 Intrusion call tests cases	
7.10	TC_FT_NG1.N.11 Call deflection (external or internal) tests cases	
7.12	TC_FT_NG1.N.12 Line identification tests cases	
7.13	TC_FT_NG1.N.13 Call identification tests cases	
7.14	TC_FT_NG1.N.14 Multiple lines tests cases	
7.15	TC_FT_NG1.N.15 Multiple calls tests cases	
7.16	TC_FT_NG1.N.16 List access service tests cases	
7.17	TC_FT_NG1.N.17 Calling line identity restriction tests cases	
7.18	TC_FT_NG1.N.18 Call forwarding (external calls) tests cases	
7.19	TC_FT_NG1.N.19 DTMF handling tests cases	276
7.20	TC_FT_NG1.N.20 Tones provision tests cases	276
7.21	TC_FT_NG1.N.21 Headset management tests cases	
7.22	TC_FT_NG1.N.22 Handling of lines where second calls are signalled in-band tests cases	
7.23	TC_FT_GAP.N.30 Calling Line Identification Presentation tests cases	
7.24	TC_FT_GAP.N.31 Internal call tests cases	
7.25	TC_FT_GAP.N.34 Calling Name Identification Presentation tests cases	
7.26	TC_FT_GAP.N.35 Enhanced security tests cases	
7.27	TC_FT_NG1.A.1 Easy PIN code registration tests cases	
7.28	TC_FT_NG1.A.2 Easy pairing registration tests cases	
7.29	TC_FT_NG1.A.3 Handset locator tests cases	
Anne	x A (normative): Declarations on features and procedures supported	298
A.1	Declarations for portable part	298
A.1.1	Optional PT features	
A.1.2	Extra information for PT testing.	
A.1.3	Optional or conditional PT procedures	
A.1.4	PT relevant test cases list	
A.1.4.		
A.1.4.	PT is a headset portable part	302
A.2	Declarations for fixed part.	302
A.2.1	Optional FT features.	
A 2.2	Extra information for FT testing	303

A.2.3	Optional or condition	onal FT procedures	305
A.2.4		es list	
A.2.4.1		y 'Common parallel call procedures' lines	
A.2.4.2		y 'double call with in-band signalling' lines	
A.2.4.3	FT handling 'Co	mmon parallel call procedures' lines and 'double call with in-band signa	lling' lines311
Annex	B (informative):	List of NG-DECT Part 3 procedures	312
Annex	C (normative):	Configuration for testing	318
C.1 I	Portable part configu	ration to be declared by supplier	318
C.2 I	Fixed part internal co	onfiguration to be declared by supplier	318
C.3	Test environment cor	nfiguration to be declared by test house or supplier	319
Annex	D (normative):	Amendments to other DECT specifications	321
D.1 A	Amendments to the T	Sechnical Basis for Regulation TBR 022 amended by TBR 022/A	1
		ent compliant with TS 102 527-3	
D.1.1		equirements for PP side	
D.1.1.1		Clause A.2.1.1.2 "CC features"	
D.1.1.2	Modifications to	Clause A.2.1.1.4 "SS features (services)"	322
D.1.1.3	Modifications to	Clause A.2.1.1.6 "Procedures"	323
D.1.2		equirements for FP side	
D.1.2.1		Clause A.3.1.1.2 "CC features"	
D.1.2.2		Clause A.3.1.1.3 "MM features"	
D.1.2.3		Clause A.3.1.1.6 "Procedures"	
D.1.3		ses applicable to equipment compliant with TS 102 527-3	
D.1.3.1		IWK layer test cases	
D.1.3.2	Additional FT N	IWK layer test cases	327
History	,		328

Intellectual Property Rights

IPRs essential or potentially essential to the present document may have been declared to ETSI. The information pertaining to these essential IPRs, if any, is publicly available for **ETSI members and non-members**, and can be found in ETSI SR 000 314: "Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards", which is available from the ETSI Secretariat. Latest updates are available on the ETSI Web server (http://ipr.etsi.org).

Pursuant to the ETSI IPR Policy, no investigation, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in ETSI SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee Digital Enhanced Cordless Telecommunications (DECT).

The present document is based on EN 300 175 parts 1 [1] to 8 [8], EN 300 444 [12], TS 102 527-1 [13] and TS 102 527-3 [14]. General attachment requirements and speech attachment requirements are based on EN 300 176-1 [9], EN 301 406 [11] (replacing TBR 006 [i.2]) and EN 300 176-2 [10] (previously covered by TBR 010 [i.3]). Further details of the DECT system may be found in TR 101 178 [i.1].

The information in the present document is believed to be correct at the time of publication. However, DECT standardization is a rapidly changing area, and it is possible that some of the information contained in the present document may become outdated or incomplete within relatively short time-scales.

All numbers and names used in examples are imaginary. Any similarities to actual persons, places or directory numbers are merely coincidental.

1 Scope

The present document contains the Profile Test Specification (PTS) and the Test Case Library (TCL) for "New Generation DECT; Part 3: Extended wideband speech" (TS 102 527-3 [14]). The present document covers both the Portable (PT) and the Fixed (FT) Radio terminations.

The Test Case Library (TCL) covers also some test cases for "DECT New Generation; part 1; Wideband speech" (TS 102 527-1 [13]) and for the "Generic Access Profile" (EN 300 444 [12]). This is done because such test cases are mandatory or especially relevant for New Generation DECT part 3 (see TS 102 527-3 [14]), and are not covered by existing GAP test specifications.

Due to the ascending compatibility of DECT profiles, all New Generation DECT part 3 devices (see TS 102 527-3 [14]) are required to be also compliant with "DECT New Generation; part 1; Wideband speech" (TS 102 527-1 [13]) and with the "Generic Access Profile" (GAP, EN 300 444 [12]). Annex D of the present document specifies the modifications to GAP test cases for requirements and tests that are optional in GAP test specifications (see note), but that become mandatory by the support of the corresponding GAP features in New Generation DECT Part 3.

NOTE: The industry de-facto standard practice for insuring the compliance to GAP [12] is the use of TBR 022 [i.4] amended by TBR 022/A1 [i.5], even when these two documents do not have any longer their initial regulatory signification. TBR 022 [i.4] relies on the GAP Profile Test Specification (EN 300 494 parts 1 [i.6] to 3 [i.8]) and on the DECT Test Case Library (EN 300 497 parts 1 [i.9] to 9 [i.17]). GAP test suite includes also the GAP Profile Implementation Conformance Statement (PICS) (EN 300 474 parts 1 [i.25] and 2 [i.26]) and the DECT Common Interface (CI) Profile Implementation Conformance Statement (PICS) (EN 300 476 parts 1 [i.18] to 7 [i.24]).

The objective of the present document is to provide a basis for approval tests of NG-DECT Part 3 equipment giving a high probability of air interface inter-operability between different manufacturer's DECT equipment.

2 References

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

Referenced documents which are not found to be publicly available in the expected location might be found at http://docbox.etsi.org/Reference.

NOTE: While any hyperlinks included in this clause were valid at the time of publication ETSI cannot guarantee their long term validity.

2.1 Normative references

The following referenced documents are necessary for the application of the present document.

[1]	ETSI EN 300 175-1: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 1: Overview".
[2]	ETSI EN 300 175-2: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 2: Physical layer (PHL)".
[3]	ETSI EN 300 175-3: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 3: Medium Access Control (MAC) layer".
[4]	ETSI EN 300 175-4: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 4: Data Link Control (DLC) layer".
[5]	ETSI EN 300 175-5: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 5: Network (NWK) layer".

- [6] ETSI EN 300 175-6: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 6: Identities and addressing". ETSI EN 300 175-7: "Digital Enhanced Cordless Telecommunications (DECT); Common [7] Interface (CI); Part 7: Security features". ETSI EN 300 175-8: "Digital Enhanced Cordless Telecommunications (DECT); Common [8] Interface (CI); Part 8: Speech and audio coding and transmission". [9] ETSI EN 300 176-1: "Digital Enhanced Cordless Telecommunications (DECT); Test specification; Part 1: Radio". [10] ETSI EN 300 176-2: "Digital Enhanced Cordless Telecommunications (DECT); Test specification; Part 2: Audio and speech". [11] ETSI EN 301 406: "Digital Enhanced Cordless Telecommunications (DECT); Harmonized EN for Digital Enhanced Cordless Telecommunications (DECT) covering the essential requirements under article 3.2 of the R&TTE Directive; Generic radio".
- [12] ETSI EN 300 444: "Digital Enhanced Cordless Telecommunications (DECT); Generic Access Profile (GAP)".
- [13] ETSI TS 102 527-1: "Digital Enhanced Cordless Telecommunications (DECT); New Generation DECT; Part 1: Wideband Speech".
- [14] ETSI TS 102 527-3: "Digital Enhanced Cordless Telecommunications (DECT); New Generation DECT; Part 3: Extended wideband speech services".

2.2 Informative references

The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

- [i.1] ETSI TR 101 178: "Digital Enhanced Cordless Telecommunications (DECT); A high Level Guide to the DECT Standardization".
- [i.2] ETSI TBR 006: "Digital Enhanced Cordless Telecommunications (DECT); General terminal attachment requirements".
- [i.3] ETSI TBR 010: "Digital Enhanced Cordless Telecommunications (DECT); General terminal attachment requirements: Telephony applications".
- [i.4] ETSI TBR 022: "Radio Equipment and Systems (RES); Attachment requirements for terminal equipment for Digital Enhanced Cordless Telecommunications (DECT) Generic Access Profile (GAP) applications".
- [i.5] ETSI TBR 022/A1: Amendment to: "Radio Equipment and Systems (RES); Attachment requirements for terminal equipment for Digital Enhanced Cordless Telecommunications (DECT) Generic Access Profile (GAP) applications".
- [i.6] ETSI EN 300 494-1: "Digital Enhanced Cordless Telecommunications (DECT); Generic Access Profile (GAP); Profile Test Specification (PTS); Part 1: Summary".
- [i.7] ETSI EN 300 494-2: "Digital Enhanced Cordless Telecommunications (DECT); Generic Access Profile (GAP); Profile Test Specification (PTS); Part 2: Profile Specific Test Specification (PSTS) Portable radio Termination (PT)".
- [i.8] ETSI EN 300 494-3: "Digital Enhanced Cordless Telecommunications (DECT); Generic Access Profile (GAP); Profile Test Specification (PTS); Part 3: Profile Specific Test Specification (PSTS) Fixed radio Termination (FT)".
- [i.9] ETSI EN 300 497-1: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Test Case Library (TCL); Part 1: Test Suite Structure (TSS) and Test Purposes (TP) for Medium Access Control (MAC) layer".

- [i.10] ETSI EN 300 497-2: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Test Case Library (TCL); Part 2: Abstract Test Suite (ATS) for Medium Access Control (MAC) layer Portable radio Termination (PT)".
- [i.11] ETSI EN 300 497-3: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Test Case Library (TCL); Part 3: Abstract Test Suite (ATS) for Medium Access Control (MAC) layer Fixed radio Termination (FT)".
- [i.12] ETSI EN 300 497-4: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Test Case Library (TCL); Part 4: Test Suite Structure (TSS) and Test Purposes (TP) Data Link Control (DLC) layer".
- [i.13] ETSI EN 300 497-5: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Test Case Library (TCL); Part 5: Abstract Test Suite (ATS) Data Link Control (DLC) layer".
- [i.14] ETSI EN 300 497-6: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Test Case Library (TCL); Part 6: Test Suite Structure (TSS) and Test Purposes (TP) Network (NWK) layer Portable radio Termination (PT)".
- [i.15] ETSI EN 300 497-7: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Test Case Library (TCL); Part 7: Abstract Test Suite (ATS) for Network (NWK) layer Portable radio Termination (PT)".
- [i.16] ETSI EN 300 497-8: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Test Case Library (TCL); Part 8: Test Suite Structure (TSS) and Test Purposes (TP) Network (NWK) layer Fixed radio Termination (FT)".
- [i.17] ETSI EN 300 497-9: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Test Case Library (TCL); Part 9: Abstract Test Suite (ATS) for Network (NWK) layer Fixed radio Termination (FT)".
- [i.18] ETSI EN 300 476-1: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Protocol Implementation Conformance Statement (PICS) proforma; Part 1: Network (NWK) layer Portable radio Termination (PT)".
- [i.19] ETSI EN 300 476-2: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Protocol Implementation Conformance Statement (PICS) proforma; Part 2: Data Link Control (DLC) layer Portable radio Termination (PT)".
- [i.20] ETSI EN 300 476-3: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Protocol Implementation Conformance Statement (PICS) proforma; Part 3: Medium Access Control (MAC) layer Portable radio Termination (PT)".
- [i.21] ETSI EN 300 476-4: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Protocol Implementation Conformance Statement (PICS) proforma; Part 4: Network (NWK) layer Fixed radio Termination (FT)".
- [i.22] ETSI EN 300 476-5: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Protocol Implementation Conformance Statement (PICS) proforma; Part 5: Data Link Control (DLC) layer Fixed radio Termination (FT)".
- [i.23] ETSI EN 300 476-6: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Protocol Implementation Conformance Statement (PICS) proforma; Part 6: Medium Access Control (MAC) layer Fixed radio Termination (FT)".
- [i.24] ETSI EN 300 476-7: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Protocol Implementation Conformance Statement (PICS) proforma; Part 7: Physical layer".
- [i.25] ETSI EN 300 474-1: "Digital Enhanced Cordless Telecommunications (DECT); Generic Access Profile (GAP); Profile requirement list and profile specific Implementation Conformance Statement (ICS) proforma; Part 1: Portable radio Termination (PT)".

[i.26]	ETSI EN 300 474-2: "Digital Enhanced Cordless Telecommunications (DECT); Generic Access Profile (GAP); Profile requirement list and profile specific Implementation Conformance Statement (ICS) proforma; Part 2: Fixed radio Termination (FT)".
[i.27]	Recommendation ITU-T P.311 (2005): "Transmission characteristics for wideband (150-7000 Hz) digital handset telephones".
[i.28]	ISO/IEC 9646-7: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".

3 Definitions, symbols and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in TS 102 527-3 [14], TS 102 527-1 [13], EN 300 444 [12] and the following apply:

GAP (PP, FP, device or equipment): PP, FP or any of them compliant with EN 300 444 [12]

golden device: ideal example of a device used as reference device for compliance testing and against which later devices are tested and judged

NG-DECT Part 1golden device: golden device, such as the one administered by the DECT Forum, used for compliance testing of NG-DECT Part 1 [13] equipment

NG-DECT Part 1 (PP, FP, device or equipment), also shortened as Part 1 (PP, FP, device or equipment): PP, FP or any of them compliant with TS 102 527-1 [13]

NG-DECT Part 3 (PP, FP, device or equipment), also shortened as Part 3 (PP, FP, device or equipment): PP, FP or any of them compliant with TS 102 527-3 [14]

Off-hook CLIP: ability of a network to send CLIP information for a waiting call (also known as "CLIP on call waiting" or "CLIP phase II")

3.2 Symbols

M

For the purposes of the present document, the following symbols apply:

described in the present document, and may be subject to testing.

O	optional to support (provision optional, process mandatory)
I	out-of-scope (provision optional, process optional) not subject for testing
C	conditional to support (process mandatory)
N/A	not applicable (in the given context the present document makes it impossible to use this

mandatory to support (provision mandatory, process mandatory)

capability)

Provision mandatory, process mandatory means that the indicated feature service or procedure is to be implemented as

Provision optional, process mandatory means that the indicated feature, service or procedure may be implemented, and if implemented, the feature, service or procedure is to be implemented as described in the present document, and may be subject to testing.

NOTE: The used notation is based on the notation proposed in ISO/IEC 9646-7 [i.28].

3.3 Abbreviations

For the purposes of the present document, the following abbreviations apply:

AC Authentication Code

CC Call Control

CFB Call forwarding on Busy subscriber
CFNA Call forwarding on No Answer
CFU Call forwarding Unconditional

CI Common Interface

CLIP Calling Line Identification Presentation
CLIR Calling Line Identification Restriction
CNIP Calling Name Identification Presentation
DCIBS Double Call with In-Band Signalling

DECT Digital Enhanced Cordless Telecommunications

DLC Data Link Control

DTMF Dual Tone Multi-Frequency

FP Fixed Part

FT Fixed radio Termination
GAP Generic Access Profile
HPP Headset Portable Part
HTTP HyperText Transfer Protocol

IE Information Element

ISDN Integrated Services Digital Network

IUT Implementation Under Test

IWU InterWorking Unit

IXIT Implementation eXtra Information for Testing

LiA List Access

MAC Medium Access Control
MM Mobility Management
MMI Man and Machine Interface

NB Narrow Band
NDT Network Delay Type
NG New Generation
NG-DECT New Generation DECT

NWK NetWorK PHL PHysical Layer

PIN Personal Identification Number

PP Portable Part

PSTN Public Switched Telephone Network

PT Portable radio Termination
PTS Profile Test Specification

RF Radio Frequency
TCL Test Case Library
TS Test System
VoIP Voice over IP
WB WideBand

4 Test method

This clause describes the test method used to test the NG-DECT Part 3 devices.

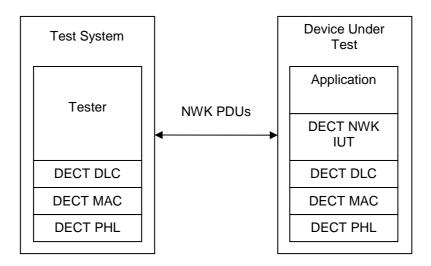


Figure 1: New Generation DECT remote test method

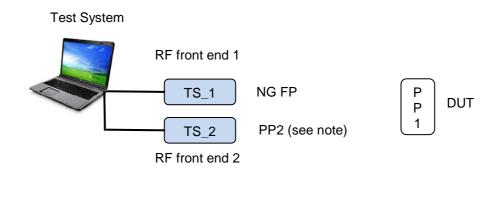
Tester:

A tester is located in a remote DECT test system. It controls and observes the behaviour of the Implementation Under Test (IUT). The TS behaves as a FP (or a PP) when testing a PP (respectively a FP).

4.1 Test platform

4.1.1 PP test platform

The PP test platform is depicted on Figure 2.



NOTE: PP2 behaves either as a NG PP or a legacy GAP PP according to test case.

Device Under Test

Figure 2: PP test platform

The first RF front-end of Test system "TS_1" plays the role of a NG FP to which the tested PP is paired.

The following devices are needed to perform parallel call test cases: either a NG PP or a GAP legacy PP. The second RF front-end of Test system "TS 2" plays the role of one of these PPs according to test case condition.

4.1.1.1 List content for tests

The following list contents will be used by the tester when running List access PP test cases.

4.1.1.1.1 List of supported lists

All lists are supported (list identifiers from 00H to 09H).

4.1.1.1.2 Missed calls list

Presence of 3 missed calls with a total number of 10 entries in the list.

Table 1: Missed calls test list content

Number	Name	Date and time	Unread	Line name	Line id	Nb of calls
497312456897	JENDREZEJZAK	09/09/09 06:45:00	1	Provider 1	0, 0	2
0145567897		06/09/09 18:48:00	1	Provider 1	0, 0	3
00441324778824	C.Alexander	06/09/09 15:36:36	0	Provider 1	0, 0	1
0321259514	LE BIHAN	06/09/09 15:36:00	1	Provider 2	0, 1	1
0296301005		06/09/09 12:35:00	0	Provider 1	0, 0	1
008989945270	M.UWE	02/09/09 11:17:00	0	Provider 3	0, 2	1
0177476923	C.FENRIJO	01/09/09 14:08:00	0	Provider 1	0, 0	1
4526300099446770	B.ZIMMERMANN	30/08/09 18:50:00	0	Provider 3	0, 2	1
0675000209	R.ALOUSSI	22/08/09 12:00:00	0	Provider 1	0, 0	1
0247413706	VAN DER VYNC	20/08/09 18:15:00	0	Provider 2	0, 1	1

Properties

- For all fields, editable=0;
- For Number, Line name, and Line id fields: PIN protected = 0.

4.1.1.1.3 Outgoing calls list

Total number of 10 entries in the list.

Table 2: Outgoing calls test list content

Number	Name	Date and time	Line name	Line id
008989945270	UWE	08/09/09 13:13:13	Provider 1	0, 0
0145567897		07/09/09 09:09:09	Provider 1	0, 0
0675000321	WOJCIECHOSKI	06/09/09 08:33:33	Provider 1	0, 0
0612345678	FENJIRO	06/09/09 08:22:22	Provider 2	0, 2
0490413002	FENJIRO	06/09/09 08:12:12	Provider 2	0, 2
00550123456789	G. DEL PIETRO	03/09/09 07:07:07	Provider 3	0, 0
4526300099446770	B.ZIMMERMANN	31/08/09 23:23:23	Provider 1	0, 0
00449876543210	C.ALEXANDER	31/08/09 16:16:16	Provider 3	0, 2
0296301005		28/08/09 17:17:17	Provider 1	0, 0
02298951214	LAGADEC	27/08/09 18:18:18	Provider 1	0, 0

Properties

- For all fields, editable=0;
- For Number, Line name, and Line id fields: PIN protected = 0.

4.1.1.1.4 Incoming accepted calls list

Total number of 10 entries in the list.

Table 3: Incoming accepted calls test list content

Number	Name	Date Time	Line name	Line id
02298951214	J.LAGADEC	07/09/09 12:12:12	Provider 1	0, 0
0321259514	LE BIHAN	06/09/09 18:36:18	Provider 2	0, 1
0308980764		06/09/09 08:24:24	Provider 1	0, 0
0581321185	K.BORDONADO	06/09/09 08:16:16	Provider 1	0, 0
00441324778824	C.Alexander	06/09/09 08:16:08	Provider 1	0, 0
00550123456789	G. DEL PIETRO	02/09/09 09:18:09	Provider 3	0, 2
0296301005		01/09/09 20:40:20	Provider 1	0, 0
00449876543210	C.ALEXANDER	31/08/09 12:24:12	Provider 3	0, 2
0425960406	D.LE BRAZ	25/08/09 18:36:18	Provider 2	0, 1
0675000321	WOJCIECHOSKI	22/08/09 11:22:11	Provider 1	0, 0

Properties

- For all fields, editable=0;
- For Number, Line name, and Line id fields: PIN protected = 0.

4.1.1.1.5 All calls list

Total number of 30 entries in the list.

Table 4: All calls test list content

Call Type	Number	Name	Date and time	Line name	Line id
Missed	497312456897	JENDREZEJZAK	09/09/09 06:45:00	Provider 1	0, 0
Outgoing	008989945270	UWE	08/09/09 13:13:13	Provider 1	0, 0
Accepted	02298951214	J.LAGADEC	07/09/09 12:12:12	Provider 1	0, 0
Outgoing	0145567897		07/09/09 09:09:09	Provider 1	0, 0
Missed	0145567897		06/09/09 18:48:00	Provider 1	0, 0
Accepted	0321259514	LE BIHAN	06/09/09 18:36:18	Provider 2	0, 1
Missed	00441324778824	C.Alexander	06/09/09 15:36:36	Provider 1	0, 0
Missed	0321259514	LE BIHAN	06/09/09 15:36:00	Provider 2	0, 1
Missed	0296301005		06/09/09 12:35:00	Provider 1	0, 0
Outgoing	0675000321	WOJCIECHOSKI	06/09/09 08:33:33	Provider 1	0, 0
Accepted	0308980764		06/09/09 08:24:24	Provider 1	0, 0
Outgoing	0612345678	FENJIRO	06/09/09 08:22:22	Provider 3	0, 2
Accepted	0581321185	K.BORDONADO	06/09/09 08:16:16	Provider 1	0, 0
Accepted	00441324778824	C.Alexander	06/09/09 08:16:08	Provider 1	0, 0
Outgoing	0490413002	FENJIRO	06/09/09 08:12:12	Provider 3	0, 2
Outgoing	00550123456789	G. DEL PIETRO	03/09/09 07:07:07	Provider 1	0, 0
Missed	008989945270	M.UWE	02/09/09 11:17:00	Provider 3	0, 2
Accepted	00550123456789	G. DEL PIETRO	02/09/09 09:18:09	Provider 3	0, 2
Accepted	0296301005		01/09/09 20:40:20	Provider 1	0, 0
Missed	0177476923	C.FENRIJO	01/09/09 14:08:00	Provider 1	0, 0
Outgoing	4526300099446770	B.ZIMMERMANN	31/08/09 23:23:23	Provider 1	0, 0
Outgoing	00449876543210	C.ALEXANDER	31/08/09 16:16:16	Provider 3	0, 2
Accepted	00449876543210	C.ALEXANDER	31/08/09 12:24:12	Provider 3	0, 2
Missed	4526300099446770	B.ZIMMERMANN	30/08/09 18:50:00	Provider 3	0, 2
Outgoing	0296301005		28/08/09 17:17:17	Provider 1	0, 0
Outgoing	02298951214	LAGADEC	27/08/09 18:18:18	Provider 1	0, 0
Accepted	0425960406	D.LE BRAZ	25/08/09 18:36:18	Provider 2	0, 1
Missed	0675000209	R.ALOUSSI	22/08/09 12:00:00	Provider 1	0, 0
Accepted	0675000321	WOJCIECHOSKI	22/08/09 11:22:11	Provider 1	0, 0
Missed	0247413706	VAN DER VYNC	20/08/09 18:15:00	Provider 2	0, 1

Properties

- For all fields, editable=0;
- For Number, Line name, and Line id fields: PIN protected = 0.

4.1.1.1.6 Contact list

Total number of 10 entries in the list.

Table 5: Contact list test content

Name	First name	Contact number1	Contact number2 (note 1)	Associated Melody (note 2)	Line id
ALEXANDER	Christian	(fixed) 00441324778824	(work) 00449876543210	1	3, 2
ALEXANDER	Christina	(fixed) 00441324778812		2	3, 2
ALOUSSI	RAMIN	(fixed) 0156891247	(mobile) 0675000209	3	3, 0
BORDONADO	Karlità	(work) 0581321185		4	3, 0
DEL PIETRO	David	(fixed) 00550123456789		5	3, 0
FENJIRO	Carlos	(work) 0490413002	(mobile) 0612345678	6	3, 2
LAGADEC	Jérôme	(work) 02298951214		7	3, 0
UWE	MARCUS	(work) 008989945270	(fixed) 00491603794505	1	3, 0
WALKER	BARCLAY	(mobile) 06123123		2	3, 2
WOJCIECHOSKI		(mobile) 0675000321		3	3, 1

NOTE 1: 'Contact number' is a multiple instance field. The test equipment shall support two instances maximum for this field. Contact number2 entry field instance shall be sent by the test equipment if and only if it is defined and the PP requested it in the request. The sending of this instance does not depend on whether the manufacturer has declared the support of several 'Contact number' fields in the contact list on PT side (PT_IXIT_1).

NOTE 2: 'Associated melody' field is optional on PP side, anyhow it should be handled in each entry when received in data packet.

Properties

- For all fields, editable= 1;
- For Associated Melody, and Line id fields: PIN protected =0.

4.1.1.7 Internal names list

Total number of 4 entries in the list.

Table 6: Internal names test list content

Number	Name	Call interception
31H	Kitchen	30H
32H	Living-room	30H
33H	Office	31H
39H	Boby room	30H

Properties

- Number field: editable=0, internal=1, own=0 (see note), PIN code protected =0;
- Name field: editable=1;
- Call interception field: editable=1, PIN code protected =1.

NOTE: The 'own' property bit is however equal to 1 when the IUT accesses its own entry in PT test cases. When this is the case, it is explicitly written in the test case.

4.1.1.1.8 DECT system settings list

Table 7: DECT system settings test list content

Entry identifier	Settings	Editable	PIN protected	Value	
1	Current PIN code	1	0	FFH, FFH, 12H, 34H	
	Clock master	1	0	30H (FP)	
	Base reset	1	1	30H (No)	
	FP IP address / type	1	0	DHCP=0, Static=1	
	FP IP address / value	1	0	IPv4/6=0, 'C0A8D40C'H (192.168.212.12)	
	FP IP address / subnet mask	1	0	IPv4/6=0, 'FFFFFF00'H (255.255.255.0)	
	FP IP address / gateway	1	0	IPv4/6=0, 'C0A8D401'H (192.168.212.1)	
	FP IP address / DNS server	1	0	IPv4/6=0, 'C0A8D401'H (192.168.212.1) (see note)	
	FP version / Firmware version	0	0	"F1.2C8"	
	FP version / Eeprom version	0	0	"E1.5C6"	
	FP version / Hardware version	0	0	"H1.4A2"	
	Emission mode	1	0	NEM=0 (deactivated)	
	New PIN code	1	1	FFH, FFH, 12H, 34H	
NOTE: 'FP IP address / DNS server' is a multiple instance field. The test equipment shall support only a single					

NOTE: 'FP IP address / DNS server' is a multiple instance field. The test equipment shall support only a single instance for this field.

4.1.1.1.9 Line settings list

Total number of 2 entries in the list.

Table 8: Line settings test list content

Entry identifier	Settings	Editable	PIN protected	Value
1	Line Name	1	0	"Provider VoIP1"
	Line id	0	0	3, 0
	Attached handsets	1	1	Nb=03H, bitmap=03H, 82H (PP1, PP2, PP9)
	Dialling Prefix	1	0	IIII
	FP melody	1	0	07H
	FP volume	1	0	30H
	Blocked number	1	0	"08*" (see note)
	Multiple calls mode	1	0	30H (Single call mode)
	Intrusion call	1	0	30H (Not allowed)
	Permanent CLIR	1	0	Value=30H (deactivated), CLIR activation code="R*12*" CLIR deactivation code="R#19#"
	Call forwarding Unconditional	1	0	Value=30H (deactivated), CFU activation code="*22" CFU deactivation code="*33" Nb = "0698765432"

Entry identifier	Settings	Editable	PIN protected	Value
	Call forwarding on No Answer	1	0	Value=30H (deactivated), Nb of seconds=19H (25) CFNA activation code="#44" CFNA deactivation code="#55" Nb = "0212345678"
	Call forwarding on Busy subscriber	1	0	Value=30H (deactivated), CFB activation code="*66" CFB deactivation code="#77" Nb = "0612345678"
2	Line Name	1	0	"Provider VoIP2"
	Line id	0	0	3, 1
	Attached handsets	1	1	Nb=01H, bitmap=84H (PP3)
	Dialling Prefix	1	0	"3651"
	FP melody	1	0	03H
	FP volume	1	0	30H
	Blocked number	1	0	"06*"
	Multiple calls mode	1	0	30H (Single call mode)
	Intrusion call	1	0	30H (Not allowed)
	Permanent CLIR	1	0	Value=30H (deactivated), CLIR activation code="#88#" CLIR deactivation code="#99#"
	Call forwarding Unconditional	1	0	Value=30H (deactivated), CFU activation code="" CFU deactivation code="" Nb = ""
	Call forwarding on No Answer	1	0	Value=30H (deactivated), Nb of seconds=00H CFNA activation code="" CFNA deactivation code="" Nb = ""
	Call forwarding on Busy subscriber	1	0	Value=30H (deactivated), CFB activation code="" CFB deactivation code="" Nb = ""
NOTE:	'Blocked number' is a multiple in this field.	stance field	. The test eq	uipment shall support only a single instance for

4.1.1.1.10 All incoming calls list

Total number of 20 entries in the list.

Table 9: All incoming calls test list content

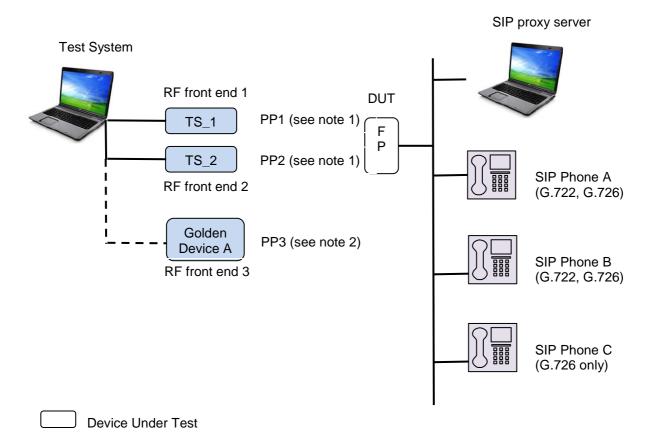
Number	Name	Date and time	New	Line name	Line id	Nb of calls
497312456897	JENDREZEJZAK	09/09/09 06:45:00	1	Provider 1	0, 0	2
02298951214	J.LAGADEC	07/09/09 12:12:12	0	Provider 1	0, 0	1
0145567897		06/09/09 18:48:00	1	Provider 1	0, 0	3
0321259514	LE BIHAN	06/09/09 18:36:18	0	Provider 2	0, 1	1
00441324778824	C.Alexander	06/09/09 15:36:36	0	Provider 1	0, 0	1
0321259514	LE BIHAN	06/09/09 15:36:00	1	Provider 2	0, 1	1
0296301005		06/09/09 12:35:00	0	Provider 1	0, 0	1
0308980764		06/09/09 08:24:24	0	Provider 1	0, 0	1
0581321185	K.BORDONADO	06/09/09 08:16:16	0	Provider 1	0, 0	1
00441324778824	C.Alexander	06/09/09 08:16:08	0	Provider 1	0, 0	1
008989945270	M.UWE	02/09/09 11:17:00	0	Provider 3	0, 2	1
00550123456789	G. DEL PIETRO	02/09/09 09:18:09	0	Provider 3	0, 2	1
0296301005		01/09/09 20:40:20	0	Provider 1	0, 0	1
0177476923	C.FENRIJO	01/09/09 14:08:00	0	Provider 1	0, 0	1
00449876543210	C.ALEXANDER	31/08/09 12:24:12	0	Provider 3	0, 2	1
4526300099446770	B.ZIMMERMANN	30/08/09 18:50:00	0	Provider 3	0, 2	1
0425960406	D.LE BRAZ	25/08/09 18:36:18	0	Provider 2	0, 1	1
0675000209	R.ALOUSSI	22/08/09 12:00:00	0	Provider 1	0, 0	1
0675000321	WOJCIECHOSKI	22/08/09 11:22:11	0	Provider 1	0, 0	1
0247413706	VAN DER VYNC	20/08/09 18:15:00	0	Provider 2	0, 1	1

Properties

- For all fields, editable=0;
- For Number, Line name, and Line id fields: PIN protected = 0.

4.1.2 FP test platform

The fixed part under test shall be connected to a network when running the tests suite. It shall be ready to initiate an outgoing call or to receive an incoming call. An example of FP test platform is depicted on Figure 3.



NOTE 1: PP1 and PP2 behave either as a NG PP, a legacy GAP PP, or a headset PP according to test case.

NOTE 2: Golden device A needed for NG-DECT Part 1 backward compatibility tests is re-used here for convenience. Very few NG-DECT Part 3 test cases need a third PP.

Figure 3: Example of FP Test platform

The first RF front-end of Test system "TS_1" plays the role of a NG PP or a GAP PP paired on the tested FP.

The following devices are needed:

- One other PP for internal call test cases: a NG PP and a GAP legacy PP (see note 1).
- One call server (e.g. a SIP server).
- A first phone 'Phone A' (e.g. SIP phone supporting G.722 and G.726 codecs) for first call test cases (see note 2).
- A second phone 'Phone B' (e.g. SIP phone supporting G.722 and G.726 codecs) for parallel call test cases (see note 2).
- A third phone 'Phone C' supporting only G.726 codec for narrow band calls and call deflection test cases.
- A handset PP for headset call test cases (see notes 1 and 3).
- A third handset is needed for few test cases (internal general call and call transfer): any GAP PP can be used.
- NOTE 1: The second RF front-end of Test system "TS_2" plays the role of one of these PPs according to test case condition: NG PP, GAP PP or headset PP.
- NOTE 2: When running "Multiple lines" test cases, phone A is on line 0 and phone B on line 1. These line identifiers values are generic identifier values standing for the line identifiers defined by the system.

NOTE 3: To behave like a headset, the TS has just to set the corresponding terminal capability bit "Support of the "Headset management" feature" and to send a "call interception request from HPP" command in {CC-SETUP} message.

This platform is based on SIP protocol exchanges between the FP and the network. It shall be considered as an example as the FP under test may not be designed for SIP network (e.g. H323, PBX, etc.). However, no matter which network is used, it shows the minimum devices needed to run the FP test cases.

4.1.2.1 List content for tests

When running List access FP test cases, the 'Current PIN code' field shall be set to (FFH, FFH, 12H, 34H). Thus, the test equipment can automatically edit and save the 'Current PIN code' field of 'DECT system settings' list before editing 'PIN protected' field (see Clause 5.1).

4.1.3 NG-DECT PART1 backward compatibility test platform

It is crucial to ensure interoperability between NG-DECT PART3 devices and legacy NG-DECT PART1 devices. In order to gain maximum interoperability to the NG-DECT PART1 devices a test against the legacy Golden Devices (FT and PT) is absolutely necessary.

In order to keep the required effort as low as possible, it is proposed to add just some basic tests such as incoming call WB, outgoing call WB and service change WB->NB.

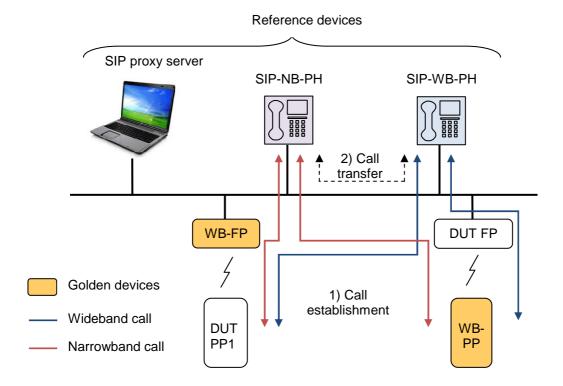


Figure 4: Test platform for NG-DECT PART1 backwards compatibility tests

The following devices are needed:

- Golden devices:
 - One Golden NG-DECT PART1 handset (WB-PP) (see note).
 - Two Golden NG-DECT PART1 base stations (WB-FP).

- Reference devices:
 - One corded wideband SIP phone (SIP-WB-PH).
 - One corded narrowband SIP phone (SIP-NB-PH).
- SIP server.
- Device under test:
 - Wideband handset (DUT-PP); or
 - Wideband base station (DUT-FP).

NOTE: This unique golden NG-DECT PART1 handset supports encryption in full-slot and long-slot mode in accordance with NG-DECT PART1 standard.

4.2 Hypothesis

Protocol layers tested

Network and application features are only tested. DLC, MAC, and PHY procedures used by new DECT generation standard are supposed to be tested when testing network features.

Speech services tested

Device under test is required to support only mandatory speech services. The optional codecs are out of the scope of the present document.

Length of a NWK layer message

The test equipment shall not send NWK layer messages longer than 63 bytes (see EN 300 444 [12], Clause 6.9.3). In the other direction, the test equipment shall be capable of receiving and processing NWK layer messages of at least 63 octets long. A received NWK layer message longer than 63 bytes shall be discarded.

4.3 Test groups

4.3.1 Network features

See TS 102 527-3 [14], Clauses 5.2, 6.4 and 6.10.

4.3.2 Application features

See TS 102 527-3 [14], Clauses 5.7, 6.9 and 6.13.

5 Test Cases (TCs)

5.1 TC definition conventions

The TCs are defined following particular rules as shown in Table 10.

Table 10: TC definition rules

TC Id according to the TC naming conventions	Test case objective
Reference:	The reference should contain the references of the subject to be validated by the actual
	TC (specification reference, clause, paragraph, flow chart number, etc.)
Initial condition:	The condition defines in which initial state the IUT has to be to apply the actual TC.
Stimulus:	The stimulus defines the test event to which the TC is related

Pass criteria:	Definition of the events or parameters that are expected from the IUT to conform to the		
	base specification		
Comments: (optional)	Additional information or comments on test case content		

The device under test and the test equipment shall meet the features and procedures specified in "New Generation DECT; Part 3: Extended wideband speech" (see TS 102 527-3 [14]). Nevertheless, only checked protocol elements are specifically described in the test case. Even if a NG PART3 requirement is not specified in a stimulus or a pass criteria test step, this does not mean it should not be implemented or tested. This simply means that this requirement is out of scope of this test case and will be tested elsewhere. As a result, the "New Generation DECT; Part 1: Wideband speech" (TS 102 527-1 [13]) and the delta to the "Generic Access Profile" (EN 300 444 [12]) features will be tested with the NG Part 3 requirements implemented (e.g. call identification, line identification...).

TC Id

The TC Id is a unique identifier; it shall be specified according to the TC naming conventions defined in the clause below.

Reference

When a flowchart number is given in reference, this flowchart is only a recommendation to implement the test case. As a result, the TS shall be flexible enough to deal with several IUT implementations (dynamic behaviour).

Initial condition

When a test necessitates other PP registered (NG PP or legacy GAP PP), it is stipulated.

By default (i.e. no other PP specified), the TS_1 and the IUT are involved together in the CC instance whose CC control state is stipulated in the initial condition.

A test case reference is given when this TC has to be run to reach the initial condition (for example: "Run $TC_FT_NG1.N.16_BV_1802$ "). That means that this test case shall be run before the current one.

Pass criteria

- Checking "end-to-end U-plane connection" criteria: this is an operation to detect the state of the U-plane connection. The acoustical path will be checked in both directions. When testing a PP, Test system could perform an audio loopback and introduce a delay (e.g. 1s) to create an echo. When testing a FP, Test system could use a tone generation. In both cases, Test system could also use a handset receiver plugged in the equipment.
- Some parameters used in TCs can be allocated by the IUT (e.g. call id, terminal identity number, session id, line id, etc.) or be network dependant (line type information for each line) as a consequence a generic notation is used in the TC description (respectively "call id A", "IA5 coding of terminal identity number in decimal of PP1", session id n, line 0, lt0, etc.).

5.1.1 Test equipment implementation requirements

This clause specifies the general requirements to be implemented by the test equipment. The requirements listed below can be valid either for several features on one side, or for one feature on both sides, PP and FP side. Specific requirements for a single feature are given in the related section describing the sub tests suite for this feature.

Order of information elements in NWK layer messages

• IUT shall send Information elements in the correct order within a NWK layer message (as defined in EN 300 175-5 [5], Clause 7.5.1 "Coding rules"). This is valid for PT and FT sides.

NOTE 1: If this requirement is not respected, some test cases may fail on PT and FT side (as the test equipment will expect the correct order).

Segmentation of information in CC procedures

• IUT shall not use segmentation of NWK messages (defined in EN 300 175-5 [5], Clause 9.9 "Segmentation of information in CC procedures").

- NOTE 2: If this requirement is not respected, some test cases may fail on PT and FT side (as the test equipment will expect only one segment).
- NOTE 3: "Segmentation of information in CC procedures" is not mandatory for NG-DECT Part 3 devices. So such implementations may face interoperability problems in case the peer party does not support the same mechanism.

Basic service used by the test equipment when initiating a call (external, internal, or list access service call)

- Within PT and FT test cases the test equipment shall behave as follows:
 - Rule 1: When behaving as a NG DECT device, the test equipment shall use by default the "Wideband speech default setup attributes" basic service in IE <<BASIC-SERVICE>> at call setup (as required in TS 102 527-1 [13] and TS 102 527-3 [14]). This is the default behaviour for all test cases and especially in those where "TS_x is a NG PP" is mentioned. This basic service shall also be used even in the test cases where outgoing calls to narrow band phones are performed.
 - Rule 2: When behaving as a GAP device the test equipment shall use by default the "Basic speech default setup attributes" basic service in IE <<BASIC-SERVICE>> at call setup (as required in EN 300 444 [12]). This is the default behaviour for all test cases where "TS_x is a GAP PP" is mentioned.
- NOTE 4: The "automatic" rule 1 applies because in all the test cases of the current test specification, the test equipment initiates calls only in front of NG-DECT PART3 IUTs (PP or FP) but not in front of GAP IUTs. As a consequence the test equipment does not need to check the NG DECT capabilities of the remote party (IUT) to define the basic service to be used.
- NOTE 5: When receiving a call on the test equipment (internal calls for example), it is the IUT that will use the correct basic service depending if the test equipment behaves as a NG DECT or GAP device.

Line type information

- When testing a PP, by default if it is not specified, the simulated lines are full VoIP lines and so the 'Line type information' field in <<CALL-INFORMATION>> IE shall be coded as follows:
 - The 'Network delay type' ('**NDT**') = '1'B, indicating that the line is a 'significant delay' line.
 - The 'Second call type' ('**SCT**') = '0'B, indicating that second calls are handled with 'common parallel call' procedures.
- When testing a FP, the 'Line type information' field in <<CALL-INFORMATION>> is line dependant for the 'Network delay type' ('**NDT**') information. The 'Second call type' ('**SCT**') information shall be coded according to the manufacturer's declarations for Line 0 and Line 1 (see Table A.16 and Table A.17).

Internal call Initiation

• When initiating an internal call, a PP under test could access to the internal names list. The test equipment shall be ready to accept both methods: with and without access to the internal names list.

External call Initiation

- When initiating an external call (either first or parallel), a PP under test could access to the line settings list, so that the user can select a line of this call.
 - This access to the line settings list might occur e.g. after subscription/location registration or triggered by a {FACILITY} message with a list change notification for the line settings list or triggered by a user interaction fully independent from a call or immediately before placing the external outgoing call.
 - The test equipment shall be ready to accept both methods: with and without access to the line settings list.

List access service tests cases

• In order to make lighter the NG1.N.16 List access service test cases, stimulus and pass criteria make reference only to the list access commands sent or expected. However, the tester and IUT shall comply with NG Part 3 requirements (see TS 102 527-3 [14], Clause 7.4.10.1). As a consequence, when receiving commands in pass criteria, each command shall be received in a {IWU-Info} message with information element <<IWU to IWU>> using the protocol discriminator '03'H. Respectively, when sending commands in stimulus, the tester shall use the same transport message.

IUT not registered in initial condition

When a test starts with the initial condition "IUT not registered", the test equipment shall send an {ACCESS-RIGHTS-TERMINATE-REQUEST} message to the IUT just before the first stimulus in order to ensure that the IUT is deregistered at the beginning of the TC. The test equipment shall be prepared to receive optionally an ACCESS-RIGHTS-TERMINATE-ACCEPT (if an IUT was previously registered).

Support of release collision scenario by the equipment

The test equipment shall support the release collision procedure as defined in Clause 8.7.2.1 of EN 300 444 (GAP) [12]. More specifically for test cases such as TC_FT_NG1.N.16_BV_2109, where the digits dialled by the test equipment do not correspond to any existing remote party, the IUT and the TS may release the link simultaneously via CC-RELEASE.

5.2 TC naming conventions

Each feature to be tested corresponds to a group of test cases identified by its standard feature number.

The identifier of the TC is built according to Table 11.

Table 11: TC naming convention

TC_ <rt>_<fn>_<tt>_<ppnn></ppnn></tt></fn></rt>		
<rt> = type of radio termination</rt>	FT	Fixed radio Termination
	PT	Portable radio Termination
<fn> = feature number</fn>	NG1.N.x	New generation Network feature
	GAP.N.x	GAP Network feature
	NG1.A.x	New generation Application feature
	GAP.A.x	GAP Application feature
<tt> = Type of testing</tt>	BV	Valid Behaviour Tests
-	GC	GAP backward compatibility Tests (see note 1)
	WC	NG-DECT PART 1 backward compatibility Tests (note 2)
<pp =="" number<="" procedure="" td=""><td>(1 to 99)</td><td>Procedure Number (see note 3)</td></pp>	(1 to 99)	Procedure Number (see note 3)
nn> = sequential number	(01 to 99)	Test Purpose Number

- NOTE 1: GAP backward compatibility tests concern only the FP. These tests check FP specific behaviours for NG features in front of GAP PPs.
- NOTE 2: These tests are to ensure interoperability in front of legacy NG-DECT PART 1 "Wideband speech" devices.
- NOTE 3: The procedure number refers to the number given to each procedure in Annex B. For example the procedure "NG1.N.1_3 Codec Negotiation during call establishment" is the procedure number '3' of NG1.N.1 Codec Negotiation feature. If several procedures are involved in the TS, the procedure number refers to the procedure mainly tested.

NOTE: In order to limit the number of tests, invalid behaviour use cases are not tested.

5.3 Portable Part TC purposes

5.3.1 List of New Generation DECT Part 3 PT tests cases related to NG-DECT Part 1 features

This clause gives the list of NG-DECT Part 3 test cases related to the DECT "Wideband speech" (part 1) (TS 102 527-1 [13]) features. In other words, theses test cases shall be implemented with the NG-DECT Part 3 requirements (see Clause 5.1).

Table 12: NG-DECT Part 3 PT Test Case Index related to NG-DECT Part 1 features

	NG-DECT Part 3 PT test	case index related to NG-DECT Part 1 features	
Test Group Reference	Test Case Id	Description	Status
	NG1.N.1	Codec Negotiation	
TC_PT_NG1.N.1	TC_PT_NG1.N.1_BV_101	NG-DECT Part 1 capability during subscription registration	М
	TC_PT_NG1.N.1_BV_102	NG-DECT Part 1 capability during location registration	M
	TC_PT_NG1.N.1_BV_201	Basic service wideband speech	М
	TC_PT_NG1.N.1_BV_301	Outgoing call, codec chosen in {CC-SETUP-ACK} without slot type modification	М
	TC_PT_NG1.N.1_BV_303	Outgoing call, codec chosen in {CC-CALL-PROC} without slot type modification	М
	TC_PT_NG1.N.1_BV_308	Outgoing call, codec chosen in {CC-CONNECT} message in state T-01 without slot type modification	М
	TC_PT_NG1.N.1_BV_309	Outgoing call, codec chosen in {CC-SETUP-ACK} with slot type modification	М
	TC_PT_NG1.N.1_BV_311	Outgoing call, codec chosen in {CC-CALL-PROC} message with slot type modification	М
	TC_PT_NG1.N.1_BV_316	Outgoing call, codec chosen in {CC-CONNECT} in state T-01 with slot type modification	М
	TC_PT_NG1.N.1_BV_317	Outgoing call, fall back to a mandatory codec when slot type modification fails	М
	TC_PT_NG1.N.1_BV_321	Incoming call G.722, full paging	М
	TC_PT_NG1.N.1_WC_101	Outgoing call Wideband at NG-DECT Part 1 Golden Device FT (Golden Device A)	М
	TC_PT_NG1.N.1_WC_102	Outgoing call Wideband at NG-DECT Part 1 Golden Device FT (Golden Device B)	М
	TC_PT_NG1.N.1_WC_103	Incoming call Wideband at NG-DECT Part 1 Golden Device FT (Golden Device A)	М
	TC_PT_NG1.N.1_WC_104	Incoming call Wideband at NG-DECT Part 1 Golden Device FT (Golden Device B)	М
	TC_PT_NG1.N.1_WC_105	Service change at NG-DECT Part 1 Golden Device FT (Golden Device A)	М
	TC_PT_NG1.N.1_WC_106	Service change at NG-DECT Part 1 Golden Device FT (Golden Device B)	М
	NG1.N.2	Codec Switching	М
TC_PT_NG1.N.2	TC_PT_NG1.N.2_BV_101	Codec switching from G.722 to G.726	М
	TC_PT_NG1.N.2_BV_102	Codec switching from G.726 to G.722	М
	GAP.N.30	Calling Line Identification Presentation (CLIP)	M
TC_PT_GAP.N.30	TC_PT_GAP.N.30_BV_01	Incoming call with calling party number in {CC-SETUP}	М
	TC_PT_GAP.N.30_BV_02	Incoming call with calling party number in {CC-INFO}	М

5.3.2 List of New Generation DECT Part 3 PT tests cases

This clause gives the list of NG-DECT Part 3 test cases related to the DECT "Extended Wideband Speech Services" (TS 102 527-3 [14]) features.

Table 13: NG-DECT Part 3 PT Test Case Index

	NG-DEC	CT Part 3 PT test case index	
Test Group Reference	Test Case Id	Description	Status
	NG1.N.1	Codec negotiation	M
TC_PT_NG1.N.1	TC_PT_NG1.N.1_BV_103	NG-DECT Part 3 capability during subscription registration	M
	TC_PT_NG1.N.1_BV_104	NG-DECT Part 3 capability during location registration	M
	NG1.N.3	Missed call notification	M
TC_PT_NG1.N.3	TC_PT_NG1.N.3_BV_201	Missed call notification, activation	M
	TC_PT_NG1.N.3_BV_202	Missed call notification, deactivation	M
	TC_PT_NG1.N.3_BV_203	Missed call notification, activation while on active call	M
	NG1.N.4	Voice message waiting notification	M
TC_PT_NG1.N.4	TC_PT_NG1.N.4_BV_201	Voice message waiting notification, activation	M
	TC_PT_NG1.N.4_BV_202	Voice message waiting notification, deactivation	М
	NG1.N.5	Date and Time synchronization	М
TC_PT_NG1.N.5	TC_PT_NG1.N.5_BV_101	FT initiated Date and Time synchronization	M
	TC_PT_NG1.N.5_BV_102	PT initiated Date and Time synchronization	0
	NG1.N.6	Parallel Calls	М
TC_PT_NG1.N.6	TC_PT_NG1.N.6_BV_401	Codec change for parallel calls from G.722 to G.726	M
	TC_PT_NG1.N.6_BV_402	Codec change for parallel calls from G.726 to G.722	М
	TC_PT_NG1.N.6_BV_501	Sending negative acknowledgement - call toggle unsuccessful	M
	TC_PT_NG1.N.6_BV_601	Busy line notification	M
	NG1.N.7	Common parallel call procedures (external or internal)	M
TC_PT_NG1.N.7	TC_PT_NG1.N.7_BV_102	Outgoing parallel call initiation (external)	M
	TC_PT_NG1.N.7_BV_103	Outgoing parallel call initiation (internal)	M
	TC_PT_NG1.N.7_BV_201	Call waiting indication (external) - CLIP on call waiting indication - End of call waiting indication	М
	TC_PT_NG1.N.7_BV_202	Call waiting indication (internal) - CLIP on call waiting indication - End of call waiting indication	М
	TC_PT_NG1.N.7_BV_301	Call toggle (external)	М
	TC_PT_NG1.N.7_BV_302	Call toggle (internal)	М
	TC_PT_NG1.N.7_BV_401	Call release and call release rejection	М
	TC_PT_NG1.N.7_BV_601	Call waiting acceptance (from PP to FP) (external)	М
	TC_PT_NG1.N.7_BV_602	Call waiting acceptance (from PP to FP) (internal)	М
	TC_PT_NG1.N.7_BV_701	Active call release with replacement (from PP to FP) - call waiting (external)	0
	TC_PT_NG1.N.7_BV_702	Active call release with replacement (from PP to FP) - call on-hold (external)	0
	TC_PT_NG1.N.7_BV_801	Call waiting rejection (from PP to FP) (external)	М
	TC_PT_NG1.N.7_BV_901	Putting a call on-hold - Resuming a call put on-hold	0
	TC_PT_NG1.N.7_BV_1201	CNIP on call waiting indication (external)	М
	TC_PT_NG1.N.7_BV_1202	CNIP on call waiting indication (internal)	М
	NG1.N.8	Call transfer (external or internal)	M
TC_PT_NG1.N.8	TC_PT_NG1.N.8_BV_101	Call transfer (external) - announced	M
	TC_PT_NG1.N.8_BV_102	Call transfer (external) - unannounced	M
	TC_PT_NG1.N.8_BV_103	Call re-injection to the system (external)	M
	TC_PT_NG1.N.8_BV_104	Remote party CLIP on call transfer (external)	M
	TC_PT_NG1.N.8_BV_105	Remote party CNIP on call transfer (external)	M
	NG1.N.9	3-party conference with established external and/or internal calls	0
TC_PT_NG1.N.9	TC_PT_NG1.N.9_BV_101	3-party conference with established external and internal calls - IUT is the initiating party - release from one of the non initiating parties	М
	TC_PT_NG1.N.9_BV_102	3-party conference with established external and internal calls - IUT is not the initiating party	M

NG-DECT Part 3 PT test case index					
Test Group Reference	Test Case Id	Description	Status		
	TC_PT_NG1.N.9_BV_103	3-party conference with established external and internal calls - IUT is the initiating party – FT sends negative acknowledgement	M (note 1)		
	NG1.N.10	Intrusion call	0		
TC_PT_NG1.N.10	TC_PT_NG1.N.10_BV_101	Implicit call intrusion into a line in "single call" mode - IUT is the initiating party in front of a non-early {CC-CONNECT} FP	C1301		
	TC_PT_NG1.N.10_BV_102	Implicit call intrusion into a line in "single call" mode - IUT is the initiating party in front of an early {CC-CONNECT} FP	C1301		
	TC_PT_NG1.N.10_BV_103	Implicit call intrusion into a line in "single call" mode - IUT is the initiating party – FT sends negative acknowledgement	C1301 (note 1)		
	TC_PT_NG1.N.10_BV_201	Explicit call intrusion into a line in "single call" mode in front of a non-early {CC-CONNECT} FP	C1301		
	TC_PT_NG1.N.10_BV_202	Explicit call intrusion into a line in "single call" mode in front of an early {CC-CONNECT} FP			
	TC_PT_NG1.N.10_BV_203	Explicit handset intrusion - IUT is the initiating party – FT sends negative acknowledgement	C1315 (note 1)		
	TC_PT_NG1.N.10_BV_204	Explicit line intrusion - IUT is the initiating party – FT sends negative acknowledgement	C1315 (note 1)		
	TC_PT_NG1.N.10_BV_301	Test of the intruded PP – Implicit call intrusion into a line in "single cal" mode – IUT is not the initiating party	М		
	NG1.N.11	Call deflection (external or internal)	0		
TC_PT_NG1.N.11	TC_PT_NG1.N.11_BV_101	Call deflection (internal) in multiple lines context	М		
	TC_PT_NG1.N.11_BV_201	Call deflection (external) - successful	М		
	TC_PT_NG1.N.11_BV_202	Call deflection (external) - unsuccessful	М		
	TC_PT_NG1.N.11_BV_203	Call deflection (external) - Call waiting deflection	М		
	NG1.N.12	Line identification	M		
TC_PT_NG1.N.12	TC_PT_NG1.N.12_BV_201	Line identification for a first external outgoing call using <call-information>> IE (non early CC-CONNECT implementation)</call-information>	M		
	TC_PT_NG1.N.12_BV_202	Line identification for a first external outgoing call using < <call-information>> IE (early CC-CONNECT implementation)</call-information>	М		
	TC_PT_NG1.N.12_BV_501	FP managed line selection for a first external outgoing call (non early CC-CONNECT implementation)	М		
	TC_PT_NG1.N.12_BV_502	FP managed line selection for a first external outgoing call (early CC-CONNECT implementation)	М		
	NG1.N.13	Call identification	М		
TC_PT_NG1.N.13	TC_PT_NG1.N.13_BV_201	Call identifier assignment on outgoing call (FP to PP) - Normal call (non early CC-CONNECT implementation) - Call status indication	M		
	TC_PT_NG1.N.13_BV_202	Call identifier assignment on outgoing call (FP to PP) - Normal call (early CC-CONNECT implementation) - Call status indication	M		
	TC_PT_NG1.N.13_BV_203	Call identifier assignment on outgoing call (FP to PP) - Internal call - Call status indication	М		
	TC_PT_NG1.N.13_BV_301	Call identifier assignment on incoming call (FP to PP) - Normal call setup	М		
	NG1.N.14	Multiple Lines	M		
TC_PT_NG1.N.14	TC_PT_NG1.N.14_BV_301	Incoming external calls on a multiple line system - Accept incoming call on second line and release it - Resume first call	М		
	TC_PT_NG1.N.14_BV_305	Outgoing external calls on a multiple line system - Initiate a second outgoing call on second line using PP line selection	M		
	TC_PT_NG1.N.14_BV_306	Outgoing external calls on a multiple line system - Initiate a second outgoing call on second line using FP managed line selection	M		
	NG1.N.15	Multiple calls	M		
TC_PT_NG1.N.15	TC_PT_NG1.N.15_BV_201	Incoming external calls on a multiple call line - Accept incoming second call	М		
	TC_PT_NG1.N.15_BV_205	Outgoing external calls on a multiple call line - Initiate a second outgoing call on the line using line selection	М		
	TC_PT_NG1.N.15_BV_206	Outgoing external calls on a multiple call line - Initiate a second outgoing call on the line using FP managed line selection	M		

	NG-DEC	FPart 3 PT test case index	
Test Group Reference	Test Case Id	Description	Status
	TC_PT_NG1.N.15_BV_301	Busy system notification	М
	NG1.N.16	List access service	М
TC_PT_NG1.N.16	TC_PT_NG1.N.16_BV_1701	Missed calls list - Read entries - Initiate an external call	М
	TC_PT_NG1.N.16_BV_1702	Missed calls list - Delete entry	M
	TC_PT_NG1.N.16_BV_1703	Missed calls list - Delete list - Read entries when empty	М
	TC_PT_NG1.N.16_BV_1704	Missed calls list - Transfer number from missed calls list to contact list	М
	TC_PT_NG1.N.16_BV_1705	Missed calls list - Incoming first voice call during existing list access session	М
	TC_PT_NG1.N.16_BV_1801	Outgoing calls list - Read entries - Initiate an external call	0
	TC_PT_NG1.N.16_BV_1802	Outgoing calls list - Delete entry	0
	TC_PT_NG1.N.16_BV_1803	Outgoing calls list - Delete list - Read entries when empty	0
	TC_PT_NG1.N.16_BV_1901	Incoming accepted calls list - Read entries - Initiate an external call	М
	TC_PT_NG1.N.16_BV_1902	Incoming accepted calls list - Delete entry	M
	TC_PT_NG1.N.16_BV_1903	Incoming accepted calls list - Delete list - Read entries when empty	М
	TC_PT_NG1.N.16_BV_1904	Incoming accepted calls list - Transfer number from Incoming accepted calls list to contact list	М
	TC_PT_NG1.N.16_BV_2001	All calls list - Read entries - Initiate an external call	0
	TC_PT_NG1.N.16_BV_2002	All calls list - Delete entry	0
	TC_PT_NG1.N.16_BV_2003	All calls list - Delete list - Read entries when empty	0
	TC_PT_NG1.N.16_BV_2101	Contact list - Read entries - Initiate an external call	M
	TC_PT_NG1.N.16_BV_2102	Contact list - Delete entry	M
	TC_PT_NG1.N.16_BV_2103	Contact list - Delete list - Read entries when empty	M M
	TC_PT_NG1.N.16_BV_2104	Contact list - Create entry - Edit entry - Save entry	M
	TC_PT_NG1.N.16_BV_2105 TC_PT_NG1.N.16_BV_2106	Contact list - Create entry - Negative Acknowledgement	M
	TC_PT_NG1.N.16_BV_2100	Contact list - Read entries during external call Contact list - Entry with several contact numbers	C1309
	TC_PT_NG1.N.16_BV_2201	Internal names list - Read entries - Initiate an internal call	M
	TC_PT_NG1.N.16_BV_2201	Internal names list - Nead entres - Initiate an internal call	M
	TC_PT_NG1.N.16_BV_2203	Internal names list - Beliefe entry	M
	TC_PT_NG1.N.16_BV_2204	Internal names list - Call interception - PIN protected - Edit entry - Save entry	M
	TC PT NG1.N.16 BV 2301	All incoming calls list - Read entries - Initiate an external call	0
	TC_PT_NG1.N.16_BV_2302	All incoming calls list - Delete entry	0
	TC_PT_NG1.N.16_BV_2303	All incoming calls list - Delete list - Read entries when empty	0
	TC_PT_NG1.N.16_BV_2401	DECT system settings list - Read entries	M
	TC_PT_NG1.N.16_BV_2501	Line settings list - Read entries	M
	TC_PT_NG1.N.16_BV_2601	Virtual missed calls list - Read entries - Initiate an external call	0
	TC_PT_NG1.N.16_BV_2602	Virtual outgoing calls list - Read entries - Initiate an external call	0
	TC_PT_NG1.N.16_BV_2603	Virtual incoming accepted calls list - Read entries - Initiate an external call	0
	TC_PT_NG1.N.16_BV_2604	Virtual all calls list - Read entries - Initiate an external call	0
	TC_PT_NG1.N.16_BV_2605	Virtual contact list - Read entries - Initiate an external call	0
	TC_PT_NG1.N.16_BV_2606	Virtual all incoming calls list - Read entries - Initiate an external call	0
	TC_PT_NG1.N.16_BV_2701	DECT system settings list - Current PIN code - New PIN code - Edit entry - Save entry	
	TC_PT_NG1.N.16_BV_2801	DECT system settings list - Clock master - Edit entry - Save entry	М
	TC_PT_NG1.N.16_BV_2901	DECT system settings list - Base reset - Edit entry - Save entry	М
	TC_PT_NG1.N.16_BV_2902	DECT system settings list - Base reset - PIN protected - Edit entry - Save entry	М
	TC_PT_NG1.N.16_BV_3001	DECT system settings list - FP IP address - Edit entry - Save entry	0
	TC_PT_NG1.N.16_BV_3501	DECT system settings list - FP version - Read entries	М
	TC_PT_NG1.N.16_BV_3801	Line settings list - Line name - Edit entry - Save entry	М
		void	

	NG-DEC	T Part 3 PT test case index	
Test Group Reference	Test Case Id	Description	Status
	TC_PT_NG1.N.16_BV_4002	Line settings list - Attached handsets - PIN protected - Edit entry - Save entry	М
	TC_PT_NG1.N.16_BV_4101	Line settings list - Dialing prefix - Edit entry - Save entry	0
	TC_PT_NG1.N.16_BV_4201	Line settings list - FP melody - Edit entry - Save entry	0
	TC_PT_NG1.N.16_BV_4301	Line settings list - FP volume - Edit entry - Save entry	0
	TC_PT_NG1.N.16_BV_4401	Line settings list - Blocked telephone number - Edit entry - Save entry	0
	TC_PT_NG1.N.16_BV_4501	Line settings list - Multiple calls mode - Edit entry - Save entry	
	TC_PT_NG1.N.16_BV_4601	Line settings list - Intrusion call - Edit entry - Save entry	C1302
	TC_PT_NG1.N.16_BV_4701	Line settings list - Permanent CLIR - Edit entry - Save entry - 'Value' subfield	C1303
	TC_PT_NG1.N.16_BV_4702	Line settings list - Permanent CLIR - Edit entry - Save entry - CLIR code subfields	C1307
	TC_PT_NG1.N.16_BV_4801	Line settings list - Call forwarding unconditional - Edit entry - Save entry - 'Value' and 'Call forwarding number' subfields	М
	TC_PT_NG1.N.16_BV_4802	Line settings list - Call forwarding unconditional - Edit entry - Save entry - CFU codes subfields	C1312
	TC_PT_NG1.N.16_BV_4901	Line settings list - Call forwarding on No answer - Edit entry - Save entry - 'Value' and 'Call forwarding number' subfields	М
	TC_PT_NG1.N.16_BV_4902	Line settings list - Call forwarding on No answer - Edit entry - Save entry - CFNA codes subfields	C1313
	TC_PT_NG1.N.16_BV_5001	Line settings list - Call forwarding on Busy subscriber - Edit entry - Save entry - 'Value' and 'Call forwarding number' subfields	М
	TC_PT_NG1.N.16_BV_5002	Line settings list - Call forwarding on Busy subscriber - Edit entry - Save entry - CFB codes subfields	C1314
	TC_PT_NG1.N.16_BV_5101	DECT system settings list - Emission mode - Edit entry - Save entry	C1304
	NG1.N.17	Calling line identity restriction	0
TC_PT_NG1.N.17	TC_PT_NG1.N.17_BV_301	Temporary CLIR mode (call by call)	M
	NG1.N.18	Call forwarding (external calls)	M
TC_PT_NG1.N.18	No test case		
	NG1.N.19	DTMF handling	M
TC_PT_NG1.N.19	TC_PT_NG1.N.19_BV_101	Uplink DTMF transmission at call setup when FP connected to classic switching network	М
	TC_PT_NG1.N.19_BV_201	Uplink DTMF transmission when connected	M
	NG1.N.20	Tones provision	M
TC_PT_NG1.N.20	TC_PT_NG1.N.20_BV_201	Tones provision by the system - Ring-back tone and Busy tone	М
	TC_PT_NG1.N.20_BV_203	Tones provision by the system - Intercept tone, Negative acknowledgement tone and Call waiting tone	М
	TC_PT_NG1.N.20_BV_206	Tones provision by the system - Dial tone	0
	TC_PT_NG1.N.20_BV_207	Tones provision by the system - Off-hook warning tone	0
	TC_PT_NG1.N.20_BV_208	Tones provision by the system - Network congestion tone	0
	NG1.N.21	Headset management	C1305
TC_PT_NG1.N.21	TC_PT_NG1.N.21_BV_101	Headset capability during subscription registration	C1305
	TC_PT_NG1.N.21_BV_102	Headset capability during location registration	C1305
	TC_PT_NG1.N.21_BV_201	Headset call interception - G.722 call	C1305
	TC_PT_NG1.N.21_BV_301	Headset incoming call - G.722 call	C1305
	TC_PT_NG1.N.21_BV_401	Re-dial of last outgoing call	C1306
	TC_PT_NG1.N.21_BV_501	Re-dial of last incoming call	C1306
	TC_PT_NG1.N.21_BV_601	Headset incoming call - G.726 call - Switching from headset to handset (headset initiated)	C1306
	TC_PT_NG1.N.21_BV_701	Headset side - Headset call interception - G.726 call - Switching from headset to handset (handset initiated)	C1305
	TC_PT_NG1.N.21_BV_705	Handset side - Headset call interception - G.722 call - Switching from headset to handset (handset initiated)	C1308
	NG1.N.22	Handling of lines where second calls are signalled in-band	M
TC_PT_NG1.N.22	TC_PT_NG1.N.22_BV_401	Use of transparent commands on DCIBS lines (Basic or Off-hook CLIP enabled) or any other line	М

	NG-DEC	CT Part 3 PT test case index	
Test Group Reference	Test Case Id	Description	Status
	GAP.N.31	Internal call	М
TC_PT_GAP.N.31	TC_PT_GAP.N.31_BV_101	Internal call setup - call class checking	М
	TC_PT_GAP.N.31_BV_301	Internal call CLIP	М
	TC_PT_GAP.N.31_BV_401	Internal call CNIP	М
	TC_PT_GAP.N.31_BV_601	Internal call codec priority - outgoing call	C1311
	TC_PT_GAP.N.31_BV_602	Internal call codec priority - incoming call	C1311
	GAP.N.34	Calling Name Identification Presentation (CNIP)	M
TC_PT_GAP.N.34	TC_PT_GAP.N.34_BV_101	Incoming call with calling party name in {CC-SETUP}	М
	TC_PT_GAP.N.34_BV_102	Incoming call with calling party name in {CC-INFO}	М
	TC_PT_GAP.N.34_BV_103	Incoming call with CLIP and CNIP in {CC-INFO}	М
	GAP.N.35	Enhanced security	М
TC_PT_GAP.N.35	TC_PT_GAP.N.35_BV_101	Encryption of all calls	M
	TC_PT_GAP.N.35_BV_201	Indication of Support of 'Re-keying' and 'early encryption' in terminal capabilities during registration	0
	TC_PT_GAP.N.35_BV_202	Indication of Support of 'Re-keying' and 'early encryption' in terminal capabilities during location registration	0
	TC_PT_GAP.N.35_BV_203	Re-keying procedure	0
	TC_PT_GAP.N.35_BV_301	Assignment of default cipher key and usage of early encryption during incoming call	0
	TC_PT_GAP.N.35_BV_302	Usage of early encryption during outgoing call	0
	TC_PT_GAP.N.35_BV_303	Usage of early encryption for MM procedure	0
	TC_PT_GAP.N.35_BV_304	Overwriting a default cipher key by assigning a new default cipher key with the same index	0
	TC_PT_GAP.N.35_BV_305	Assign two default cipher keys with different indices.	0
	TC_PT_GAP.N.35_BV_306	PP releases connection in case FP rejects early encryption on MAC layer	0
	TC_PT_GAP.N.35_BV_501	Release of unexpectedly unencrypted outgoing call in call proceeding state	М
	TC_PT_GAP.N.35_BV_502	Release of unexpectedly unencrypted outgoing call in connect state	М
	TC_PT_GAP.N.35_BV_503	Release of unexpectedly unencrypted incoming call in alerting state	М
	TC_PT_GAP.N.35_BV_504	Release of unexpectedly unencrypted incoming call in connect state.	М
	TC_PT_GAP.N.35_BV_505	Release of unexpectedly unencrypted outgoing call in connect state after switching encryption support in FT off	М
	TC_PT_GAP.N.35_BV_506	Release of unexpectedly unencrypted outgoing call in connect state despite of successful authentication	M
	TC_PT_GAP.N.35_BV_507	Release of unexpectedly unencrypted incoming call in connect state despite of successful authentication	М
	NG1.A.1	Easy PIN code registration	M
TC_PT_NG1.A.1	TC_PT_NG1.A.1_BV_101	Registration mode automatic access	М
	TC_PT_NG1.A.1_BV_201	Searching mode and PIN code requests	М
	TC_PT_NG1.A.1_BV_301	Base station name selection	0
	TC_PT_NG1.A.1_BV_401	Registration user feedback	М
	NG1.A.2	Easy pairing registration	M
TC_PT_NG1.A.2	TC_PT_NG1.A.2_BV_401	Searching mode request (default PIN)	M
	TC_PT_NG1.A.2_BV_402	Searching mode request (switching back to PIN entry)	M
	NG1.A.3	Handset Locator	M
TC_PT_NG1.A.3	TC_PT_NG1.A.3_BV_101 GAP.A.4	Handset Locator Terminal Identity number assignment in mono cell	М О
TC_PT_GAP.A.4	No test case	system	

	NG-DECT Part 3 PT test case index			
Test	Group	Test Case Id	Description	Status
Refe	rence			
C1301:	At least or	ne of the two procedures implicit	or explicit call intrusion shall be implemented (see Table A.5	
	NG1.N.10	_1 and NG1.N.10_2).		
C1302:	IF NG1.N.	.10 "Intrusion call" THEN "M" EL	SE "I".	
C1303:	IF NG1.N.	.17 "Calling line identity restriction	on" THEN "M" ELSE "I".	
C1304:		.5 "no-emission" mode is suppo		
C1305:	IF the PT	is a headset PP THEN "M" ELS	E "I".	
C1306:	IF the PT	is a headset PP THEN "O" ELS	E "I".	
C1307:			pported AND CLIR code subfields can be edited THEN "M" EL	.SE
	`	e Table A.2 PT_IXIT_2		
C1308:		is a headset PP THEN "I" ELSE		
C1309:			is supported THEN "M" ELSE "N/A" (see Table A.2 PT_IXIT_1	
C1311:			s to this procedure listed in Clause 7.4.3.9.2 THEN "N/A" ELSE	Ξ "M"
	`	e A.2 PT_IXIT_6)		
C1312:			EN "M" ELSE "N/A" (see Table A.2 PT_IXIT_3).	
C1313:			IEN "M" ELSE "N/A" (see Table A.2 PT_IXIT_4).	
C1314:			N "M" ELSE "N/A" (see Table A.2 PT_IXIT_5).	
C1315:			(see C1301), at least one of the two procedures "explicit hands	set
			e implemented (see TS 102 527-3 [14], Clause 7.4.3.8.2).	
NOTE:			the FT nevertheless implements the sending of a negative	
	acknowled	dgement for that feature (see TS	S 102 527-3 [14], Clause 7.4.3.8.2).	

5.4 Fixed Part TC purposes

5.4.1 List of New Generation DECT Part 3 FT tests cases related to NG-DECT Part 1 features

This clause gives the list of NG-DECT Part 3 test cases related to the DECT "Wideband speech" (part 1) (TS 102 527-1 [13]) features. In other words, theses test cases shall be implemented with the NG-DECT Part 3 requirements (see Clause 5.1).

Table 14: NG-DECT Part 3 FT Test Case Index related to NG-DECT Part 1 features

NG-DECT Part 3 FT test case index related to NG-DECT Part 1 features			
Test Group Reference	Test Case Id	Description	Status
	NG1.N.1	Codec Negotiation	М
TC_FT_NG1.N.1	TC_FT_NG1.N.1_BV_101	Exchange of codec list during subscription registration	М
	TC_FT_NG1.N.1_BV_102	Exchange of codec list during location registration	М
	TC_FT_NG1.N.1_BV_103	NG-DECT Part 1 higher layer capabilities	М
	TC_FT_NG1.N.1_BV_201	Basic service wideband speech	М
	TC_FT_NG1.N.1_BV_301	Outgoing G.722 call using long slot MAC setup	М
	TC_FT_NG1.N.1_BV_302	Outgoing G.726 call using full slot MAC setup	М
	TC_FT_NG1.N.1_BV_303	Outgoing G.722 call using full slot MAC setup	М
	TC_FT_NG1.N.1_BV_304	Outgoing G.726 call using long slot MAC setup	М
	TC_FT_NG1.N.1_BV_305	Outgoing G.722 call, fall back to a G.726 codec when full to	М
		long slot type modification fails	
	TC_FT_NG1.N.1_BV_306	Outgoing call without sending any IE < <codec-list>> in {CC-SETUP}</codec-list>	М
	TC_FT_NG1.N.1_BV_307	Outgoing call with an IE < <codec-list>> in {CC-SETUP}</codec-list>	М
		different from previous sent during location registration	
	TC_FT_NG1.N.1_BV_321	Incoming call G.722	М
	TC_FT_NG1.N.1_BV_322	Incoming call G.726	М
	TC_FT_NG1.N.1_BV_323	Incoming call G.722, negotiation results in G.726	М
	TC_FT_NG1.N.1_WC_101	Outgoing call Wideband at NG-DECT Part 1 Golden Device PT (Golden Device A)	М
	TC_FT_NG1.N.1_WC_103	Incoming call Wideband at NG-DECT Part 1 Golden Device PT (Golden Device A)	М
	TC_FT_NG1.N.1_WC_105	Service change at NG-DECT Part 1 Golden Device PT (Golden Device A)	М
	NG1.N.2	Codec switching	М
TC_FT_NG1.N.2	No test case		

	GAP.N.30	Calling Line Identification Presentation (CLIP)	М
TC_FT_GAP.N.30	TC_FT_GAP.N.30_BV_01	Incoming call with calling party number	М

5.4.2 List of New Generation DECT Part 3 FT tests cases

This clause gives the list of NG-DECT Part 3 test cases related to the DECT "Extended Wideband Speech Services" (TS 102 527-3 [14]) features.

Table 15: NG-DECT Part 3 FT Test Case Index

NG-DECT Part 3 FT test case index			
Test Group Reference	Test Case Id	Description	Status
	NG1.N.1	Codec negotiation	M
TC_FT_NG1.N.1	TC_FT_NG1.N.1_BV_104	NG-DECT Part 3 higher layer capabilities	M
	NG1.N.3	Missed call notification	M
TC_FT_NG1.N.3	TC_FT_NG1.N.3_BV_201	Missed call notification after PP location registration	M
	NG1.N.4	Voice message waiting notification	M
TC_FT_NG1.N.4	TC_FT_NG1.N.4_BV_201	Voice message waiting notification, activation	М
	TC_FT_NG1.N.4_BV_202	Voice message waiting notification, deactivation	М
	NG1.N.5	Date and Time synchronization	М
TC_FT_NG1.N.5	TC_FT_NG1.N.5_BV_101	FT initiated Date and Time synchronization	М
	TC_FT_NG1.N.5_BV_102	PT initiated Date and Time synchronization	М
	NG1.N.6	Parallel Calls	М
TC_FT_NG1.N.6	TC_FT_NG1.N.6_BV_401	Codec change for parallel calls from G.722 to G.726	М
	TC_FT_NG1.N.6_BV_402	Codec change for parallel calls from G.726 to G.722	М
	TC_FT_NG1.N.6_BV_501	Sending negative acknowledgement - invalid call toggle	М
		request	
	TC_FT_NG1.N.6_BV_601	Busy system notification	C1513
	NG1.N.7	Common parallel call procedures (external or internal)	M
TC_FT_NG1.N.7	TC_FT_NG1.N.7_BV_101	Outgoing parallel call initiation (external), FP managed line selection	М
	TC_FT_NG1.N.7_BV_102	Outgoing parallel call initiation (internal)	М
	TC_FT_NG1.N.7_BV_103	Outgoing parallel call initiation (external), line selection using < <call-information>> IE in {CC-INFO}</call-information>	М
	TC_FT_NG1.N.7_BV_201	Call waiting indication (external) - CLIP on call waiting indication - End of call waiting indication	М
	TC_FT_NG1.N.7_BV_202	Call waiting indication (internal) - CLIP on call waiting indication - End of call waiting indication	М
	TC_FT_NG1.N.7_BV_301	Call toggle (external)	М
	TC_FT_NG1.N.7_BV_302	Call toggle (internal)	М
	TC_FT_NG1.N.7_BV_401	Call release and call release rejection - Resuming a call put on-hold	
	TC_FT_NG1.N.7_BV_601	Call waiting acceptance (from PP to FP) (external)	М
	TC_FT_NG1.N.7_BV_602	Call waiting acceptance (from PP to FP) (internal)	M
	TC_FT_NG1.N.7_BV_701	Active call release with replacement (from PP to FP) - call waiting (external)	M
	TC_FT_NG1.N.7_BV_702	Active call release with replacement (from PP to FP) - call on-hold (external)	М
	TC_FT_NG1.N.7_BV_801	Call waiting rejection (from PP to FP) (external)	C1502
	TC_FT_NG1.N.7_BV_901	Putting a call on hold (external) - Resuming a call put on-hold	C1503
	TC_FT_NG1.N.7_BV_902	Putting a call on hold (internal) - Resuming a call put on-hold	М
	TC_FT_NG1.N.7_BV_1201	CNIP on call waiting indication (external)	М
	TC_FT_NG1.N.7_BV_1202	CNIP on call waiting indication (internal)	М
	NG1.N.8	Call transfer (external or internal)	M
TC_FT_NG1.N.8	TC_FT_NG1.N.8_BV_101	Call transfer (external) - announced	M
	TC_FT_NG1.N.8_BV_201	Call transfer (external) - unannounced	M
	TC_FT_NG1.N.8_BV_301	Call re-injection to the system (external) - announced	M
	TC_FT_NG1.N.8_BV_302	Call re-injection to the system (external) - unannounced	M
	TC_FT_NG1.N.8_BV_401	Remote party CLIP on call transfer	M
	TC_FT_NG1.N.8_BV_501	Remote party CNIP on call transfer	M
	1 0 1 1 1 1 1 1 1 1	promote party oran on oan dansier	171

		T Part 3 FT test case index	1
Test Group Reference	Test Case Id	Description	Status
	NG1.N.9	3-party conference with established external and/or internal calls	0
TC_FT_NG1.N.9	TC_FT_NG1.N.9_BV_101	3-party conference with established external and internal calls - release from non initiating internal party	М
	TC_FT_NG1.N.9_BV_102	3-party conference with established external and internal calls - release of external party from initiating PP	М
	TC_FT_NG1.N.9_BV_103	3-party conference with established external calls - release from initiating party	0
	TC_FT_NG1.N.9_BV_104	3-party conference with established external calls on two different lines - release from initiating party	C1514
	TC_FT_NG1.N.9_BV_105	Three-party conference call – Extended Higher Layer Capabilities (Part 2)	М
	NG1.N.10	Intrusion call	0
TC_FT_NG1.N.10	TC_FT_NG1.N.10_BV_101	Implicit call intrusion into a line in "single call" mode (non- early {CC-CONNECT} implementation) - release from intruder - G.726 call	C1522
	TC_FT_NG1.N.10_BV_102	Implicit call intrusion into a line in "single call" mode (early {CC-CONNECT} implementation) - release from intruder - G.726 call	C1522
	TC_FT_NG1.N.10_BV_103	Explicit call intrusion into a line in "single call" mode (non- early {CC-CONNECT} implementation) with targeted line specified in {CC-SETUP} - release from intruder - G.722 call	C1522
	TC_FT_NG1.N.10_BV_104	Explicit call intrusion into a line in "single call" mode (early {CC-CONNECT} implementation) with targeted line specified in {CC-SETUP} - release from intruder - G.722 call	C1522
	TC_FT_NG1.N.10_BV_105	Implicit call intrusion into a line in "single call" mode on a multiple line system (non early CC-CONNECT implementation) with targeted line specified in {CC-INFO} - release from intruder - G.722 call	C1522
	TC_FT_NG1.N.10_BV_106	Implicit call intrusion into a line in "single call" mode on a multiple line system (early CC-CONNECT implementation) with targeted line specified in {CC-INFO} - release from intruder - G.722 call	C1522
	TC_FT_NG1.N.10_BV_201	Explicit call intrusion into a line in "single call" mode (non-early {CC-CONNECT} implementation) - handset intrusion - G.722 call	C1522
	TC_FT_NG1.N.10_BV_202	Explicit call intrusion into a line in "single call" mode (early {CC-CONNECT} implementation)- handset intrusion - G.722 call	C1522
	TC_FT_NG1.N.10_BV_203	Explicit call intrusion into a line in "single call" mode - line intrusion with target in {CC-INFO} - G.722 call	C1522
	TC_FT_NG1.N.10_BV_204	Explicit call intrusion into a line in "single call" mode (early {CC-CONNECT} implementation) - line intrusion with target in {CC-INFO} - G.722 call	C1522
	TC_FT_NG1.N.10_BV_301	Intrusion Call – Extended Higher Layer Capabilities (Part 2)	М
	NG1.N.11	Call deflection (external or internal)	0
TC_FT_NG1.N.11	TC_FT_NG1.N.11_BV_101	Call deflection (internal) in multiple lines context	C1514
	TC_FT_NG1.N.11_BV_201	Call deflection (external) - first incoming call deflection	М
	TC_FT_NG1.N.11_BV_202	Call deflection (external) - call waiting deflection	М
	NG1.N.12	Line identification	M
TC_FT_NG1.N.12	TC_FT_NG1.N.12_BV_301	Line identification for a first external outgoing call using < <call-information>> IE in {CC-INFO} (non early CC-CONNECT implementation)</call-information>	C1515
	TC_FT_NG1.N.12_BV_302	Line identification for a first external outgoing call using < <call-information>> IE in {CC-INFO} (early CC-CONNECT implementation)</call-information>	C1515
	TC_FT_NG1.N.12_GC_401	Backward-compatible line identification for a first external outgoing call using < <multi-keypad>> IE (non early CC-CONNECT implementation)</multi-keypad>	O (note 1)
	TC_FT_NG1.N.12_GC_402	Backward-compatible line identification for a first external outgoing call using IE < <multi-keypad>> IE (early CC-CONNECT implementation)</multi-keypad>	O (note 1)

	NG-DEC	T Part 3 FT test case index	
Test Group Reference	Test Case Id	Description	Status
	TC_FT_NG1.N.12_BV_501	FP managed line selection for a first external outgoing call (non early CC-CONNECT implementation)	C1516
	TC_FT_NG1.N.12_BV_502	FP managed line selection for a first external outgoing call (early CC-CONNECT implementation)	C1516
	NG1.N.13	Call identification	M
TC_FT_NG1.N.13	TC_FT_NG1.N.13_BV_201	Call identifier assignment on outgoing call (FP to PP) - Normal call (non early CC-CONNECT implementation) - Call status indication	C1511
	TC_FT_NG1.N.13_BV_202	Call identifier assignment on outgoing call (FP to PP) - Normal call (early CC-CONNECT implementation) - Call status indication	C1511
	TC_FT_NG1.N.13_BV_203	Call identifier assignment on outgoing call (FP to PP) - Internal call - Call status indication	M
	TC_FT_NG1.N.13_BV_204	Call identifier assignment on outgoing call (FP to PP) - LiA service setup - Call status indication for outgoing external call	М
	TC_FT_NG1.N.13_BV_205	Call identifier assignment on outgoing call (FP to PP) - LiA service setup - Call status indication for internal call	М
	TC_FT_NG1.N.13_BV_301	Call identifier assignment on incoming call (FP to PP) - Normal call setup	М
	TC_FT_NG1.N.13_BV_302	Call identifier assignment on incoming call (FP to PP) - LiA service setup - Call status indication for incoming external call	М
	NG1.N.14	Multiple Lines	0
TC_FT_NG1.N.14	TC_FT_NG1.N.14_BV_301	Incoming external calls on a multiple line system - Incoming calls on two lines with no active PPs	
	TC_FT_NG1.N.14_BV_302	Incoming external calls on a multiple line system - Incoming calls with one active PP - Accept second call on idle PP and release it	
	TC_FT_NG1.N.14_BV_303	Incoming external calls on a multiple line system - Incoming calls with one active PP - Accept second call on active PP and release it - Resume active call	C1517
	TC_FT_NG1.N.14_BV_304	Incoming external calls on a multiple line system - Two simultaneous incoming calls	М
	TC_FT_NG1.N.14_BV_305	Outgoing external calls on a multiple line system - Initiate outgoing calls on two lines (non early CC-CONNECT implementation)	C1518
	TC_FT_NG1.N.14_BV_306	Outgoing external calls on a multiple line system - Initiate outgoing calls on two lines (early CC-CONNECT implementation)	C1518
	TC_FT_NG1.N.14_BV_401	Internal calls in multiple line context	M
	NG1.N.15	Multiple calls	M
TC_FT_NG1.N.15	TC_FT_NG1.N.15_BV_201	Incoming external calls on a multiple call line - Accept incoming second call on idle PP	М
	TC_FT_NG1.N.15_BV_202	Incoming external calls on a multiple call line - Accept incoming second call on active PP	M
	TC_FT_NG1.N.15_BV_205	Outgoing external calls on a multiple call line - Initiate outgoing second call on idle PP (non early CC-CONNECT implementation)	C1519
	TC_FT_NG1.N.15_BV_206	Outgoing external calls on a multiple call line - Initiate outgoing second call on idle PP (early CC-CONNECT implementation)	C1519
	TC_FT_NG1.N.15_BV_207	Outgoing external calls on a multiple call line - Initiate outgoing second call on active PP using < <call-information>> line selection</call-information>	М
	TC_FT_NG1.N.15_BV_301	Busy line notification	М
	NG1.N.16	List access service	M
TC_FT_NG1.N.16	TC_FT_NG1.N.16_BV_301	Start / end session sequencing and parameters - list of supported lists	М
	TC_FT_NG1.N.16_BV_302 TC_FT_NG1.N.16_BV_303	CC-RELEASE without end session - list of supported lists No simultaneous access to the same list from 2 different PPs - internal names list	M C1510

		Part 3 FT test case index	
Test Group Reference	Test Case Id	Description	Status
	TC_FT_NG1.N.16_BV_304	Simultaneous access to the same list from 2 different PPs (check edit locks an entry)- internal names list	C1510
	TC_FT_NG1.N.16_BV_305	Edit Current PIN code while Line setting list session is open	М
	TC_FT_NG1.N.16_BV_1601	List of supported lists - read entries	М
	TC_FT_NG1.N.16_BV_1701	Missed calls list - Delete list - Read entries when empty	М
	TC_FT_NG1.N.16_BV_1702	Missed calls list - List change notification - Read entries when new entries	М
	TC_FT_NG1.N.16_BV_1703	Missed calls list - Delete entry - Negative acknowledgement	М
	TC_FT_NG1.N.16_BV_1704	Missed calls list - Transfer number from missed calls list to contact list	M
	TC_FT_NG1.N.16_BV_1705	Missed calls list - Initiate a voice call during a list access session	М
	TC_FT_NG1.N.16_BV_1706	Missed calls list - List access during existing voice call with second call initiation - Switching between LA session and voice call - Returning to LA session after voice call termination	M
	TC_FT_NG1.N.16_BV_1801	Outgoing calls list - Delete list - Read entries when empty	0
	TC_FT_NG1.N.16_BV_1802	Outgoing calls list - Read entries when new entries	0
	TC_FT_NG1.N.16_BV_1803	Outgoing calls list - Delete entry - Negative acknowledgement	0
	TC_FT_NG1.N.16_BV_1901	Incoming accepted calls list - Delete list - Read entries when empty	М
	TC_FT_NG1.N.16_BV_1902	Incoming accepted calls list - Read entries when new entries	M
	TC_FT_NG1.N.16_BV_1903	Incoming accepted calls list - Delete entry - Negative acknowledgement	M
	TC_FT_NG1.N.16_BV_2001	All calls list - Delete list - Read entries when empty	0
	TC_FT_NG1.N.16_BV_2002	All calls list - Read entries when new entries	0
	TC_FT_NG1.N.16_BV_2003	All calls list - Delete entry - Negative acknowledgement	0
	TC_FT_NG1.N.16_BV_2101	Contact list - Delete list - Read entries when empty	M
	TC_FT_NG1.N.16_BV_2102	Contact list - Save entry - Read entries in ascending order	M
	TC_FT_NG1.N.16_BV_2103	Contact list - Query supported entry fields - Read entries in descending order	M
	TC_FT_NG1.N.16_BV_2104	Contact list - Edit entry - add a second contact number field to an entry	M
	TC_FT_NG1.N.16_BV_2105	Contact list - Edit entry - Save entry without changing the entry	M
	TC_FT_NG1.N.16_BV_2106	Contact list - Search entries using matching options	M
	TC_FT_NG1.N.16_BV_2107	Contact list - Search entries in ascending order and descending order	M
	TC_FT_NG1.N.16_BV_2108	Contact list - Initiate a voice call during a list access session	М
	TC_FT_NG1.N.16_BV_2109	Contact list - Entry used to update Outgoing call list	C1521
	TC_FT_NG1.N.16_BV_2110	Contact list - Delete entry - Negative acknowledgement	М
	TC_FT_NG1.N.16_BV_2111	Contact list - Incoming first voice call during existing list access session	М
	TC_FT_NG1.N.16_BV_2201	Internal names list - Edit entry - Save entry	М
	TC_FT_NG1.N.16_BV_2202	Internal names list - New registration - List change notification - Read entries	М
	TC_FT_NG1.N.16_BV_2203	Internal names list - Initiate and check internal call from internal names list	М
	TC_FT_NG1.N.16_BV_2210	Internal names list - Delete entry	М
	TC_FT_NG1.N.16_BV_2301	All incoming calls list - Delete list - Read entries when empty	O
	TC_FT_NG1.N.16_BV_2302	All incoming calls list - Read entries when new entries	0
	TC_FT_NG1.N.16_BV_2303	All incoming calls list - Delete entry - Negative acknowledgement	0
	TC_FT_NG1.N.16_BV_2401	DECT system settings list - Query supported entry fields	М
	TC_FT_NG1.N.16_BV_2402	DECT system settings list - Read entries	M
	TC_FT_NG1.N.16_BV_2501	Line settings list - Query supported entry fields	M
	TC_FT_NG1.N.16_BV_2502	Line settings list - Read entries	M
	TC_FT_NG1.N.16_BV_2701	DECT system settings list - Current PIN code - New PIN	M

	NG-DECT	Part 3 FT test case index	
Test Group Reference	Test Case Id	Description	Status
	TC_FT_NG1.N.16_BV_2801	DECT system settings list - Clock master- Edit entry - Save entry- Read entries	М
	TC_FT_NG1.N.16_BV_2901	DECT system settings list - Base reset - Edit entry - Save entry - Read entries	М
	TC_FT_NG1.N.16_BV_2902	DECT system settings list - Base reset - Read entries - Default settings values	М
	TC_FT_NG1.N.16_BV_3001	DECT system settings list - FP IP address - Edit entry - Save entry - Read entries	0
	TC_FT_NG1.N.16_BV_3501	DECT system settings list - FP version - Read entries	М
	TC_FT_NG1.N.16_BV_3801	Line settings list - Line name- Edit entry - Save entry - List change notification - Read entries	М
	TC_FT_NG1.N.16_BV_3901	Line settings list - Line id - Edit entry - Save entry- Read entries	М
	TC_FT_NG1.N.16_BV_4001	Line settings list - Attached handsets - Edit entry - Save entry - List change notification - Read entries after registration	М
	TC_FT_NG1.N.16_BV_4101	Line settings list - Dialling Prefix - Edit entry - Save entry - Read entries- Outgoing call	0
	TC_FT_NG1.N.16_BV_4201	Line settings list - FP melody - Edit entry - Save entry - Read entries	0
	TC_FT_NG1.N.16_BV_4301	Line settings list - FP volume - Edit entry - Save entry Read entries	0
	TC_FT_NG1.N.16_BV_4401	Line settings list - Blocked number - Edit entry - Save entry Read entries- Outgoing call blocked	0
	TC_FT_NG1.N.16_BV_4501	Line settings list - Multiple calls mode - Edit entry - Save entry - List change notification - Read entries	М
	TC_FT_NG1.N.16_BV_4601	Line settings list - Intrusion call - Edit entry - Save entry - List change notification - Read entries	C1504
	TC_FT_NG1.N.16_BV_4701	Line settings list - Permanent CLIR - Edit entry - Save entry - List change notification - Read entries	C1505
	TC_FT_NG1.N.16_BV_4801	Line settings list - Call Forwarding unconditional - Edit entry - Save entry - List change notification - Read entries	М
	TC_FT_NG1.N.16_BV_4901	Line settings list - Call Forwarding on no answer - Edit entry - Save entry - List change notification - Read entries	М
	TC_FT_NG1.N.16_BV_5001	Line settings list - Call Forwarding on busy subscriber - Edit entry - Save entry - List change notification - Read entries	М
	TC_FT_NG1.N.16_BV_5101	DECT system settings list - Emission mode - Edit entry - Save entry - Read entries	C1506
	NG1.N.17	Calling line identity restriction	0
TC_FT_NG1.N.17	TC_FT_NG1.N.17_BV_201	Permanent CLIR mode (all calls)	М
	TC_FT_NG1.N.17_BV_202	Permanent CLIR – Extended higher layer capabilities (Part 2)	М
	NG1.N.18	Call forwarding (external calls)	М
TC_FT_NG1.N.18	TC_FT_NG1.N.18_BV_201	External Call Forwarding Unconditional (CFU) to external number	М
	TC_FT_NG1.N.18_BV_301	External Call Forwarding on No Answer (CFNA) to external number	М
	TC_FT_NG1.N.18_BV_401	External Call Forwarding on Busy subscriber (CFB) to external number	C1512
	NG1.N.19	DTMF handling	M
TC_FT_NG1.N.19	TC_FT_NG1.N.19_BV_401	Local DTMF feedback of dialled digits	М
	NG1.N.20	Tones provision	M
TC_FT_NG1.N.20	TC_FT_NG1.N.20_BV_201	Tones provision by the system - Ring-back tone	C1523
	TC_FT_NG1.N.20_BV_202	Tones provision by the system - Busy tone	C1523
	TC_FT_NG1.N.20_BV_203	Tones provision by the system - Call waiting tone	C1523
	TC_FT_NG1.N.20_BV_204	Tones provision by the system - Negative acknowledgement tone	М
		Void (Intercept tone tested in test group TC_FT_NG1.N.21)	
	TC_FT_NG1.N.20_BV_206	Tones provision by the system - Dial tone	O (note 2)
	TC_FT_NG1.N.20_BV_207	Tones provision by the system - Off-hook warning tone	O (note 2)

NG-DECT Part 3 FT test case index			
Test Group Reference	Test Case Id	Description	Status
	TC_FT_NG1.N.20_BV_210	Tones provision by the system - Ring-back tone on parallel call	C1523
	TC_FT_NG1.N.20_BV_220	Tones provision by the system - Backward compatibility with legacy PPs	М
	TC_FT_NG1.N.20_BV_301	Transparency to tones provision by the network or PABX- Dial tone and ring back tone for a first call	C1523
	TC_FT_NG1.N.20_BV_302	Transparency to tones provision by the network or PABX - Busy tone	C1523
	TC_FT_NG1.N.20_BV_303	Transparency to tones provision by the network or PABX - Call waiting tone	C1523
	TC_FT_NG1.N.20_BV_304	Transparency to tones provision by the network or PABX - Dial tone and ring back tone for outgoing parallel call	C1523
	NG1.N.21	Headset management	М
TC_FT_NG1.N.21	TC_FT_NG1.N.21_BV_201	Headset call interception - G.722 call	M
	TC_FT_NG1.N.21_BV_202	Headset call interception - G.726 call	М
	TC_FT_NG1.N.21_BV_204	Headset call interception - Control code failed	М
	TC_FT_NG1.N.21_BV_701	Switching from headset to handset (handset initiated) - G.722 call	М
	NG1.N.22	Handling of lines where second calls are signalled in-band	0
TC_FT_NG1.N.22	TC_FT_NG1.N.22_BV_101	Off-hook CLIP enabled 'double call with in-band signalling' lines - double call with in-band signalling type for outgoing call (first and second call)	М
	TC_FT_NG1.N.22_BV_301	Off-hook CLIP enabled 'double call with in-band signalling' lines - Call release	C1507
	TC_FT_NG1.N.22_BV_302	Off-hook CLIP enabled 'double call with in-band signalling' lines - Call waiting rejection (from PP to FP) (external)	C1508
	TC_FT_NG1.N.22_BV_303	Off-hook CLIP enabled 'double call with in-band signalling' lines - Putting a call on hold (external)	C1509
	GAP.N.31	Internal call	M
TC_FT_GAP.N.31	TC_FT_GAP.N.31_BV_101	Internal call setup - internal call class	М
	TC_FT_GAP.N.31_BV_102	Internal call setup - internal general call	М
	TC_FT_GAP.N.31_BV_301	Internal call CLIP	М
	TC_FT_GAP.N.31_BV_401	Internal call CNIP	М
	TC_FT_GAP.N.31_BV_601	Internal call codec priority	М
	GAP.N.34	Calling Name Identification Presentation (CNIP)	М
TC_FT_GAP.N.34	TC_FT_GAP.N.34_BV_101	Incoming call with calling party name	М
	TC_FT_GAP.N.34_BV_201	Incoming call with UTF-8 calling party name	C1520
	TC_FT_GAP.N.34_GC_201	Incoming call with calling party name - UTF-8 to IA5 characters translation	C1520
	GAP.N.35	Enhanced security	М
	TC_FT_GAP.N.35_BV_101	Verify that FT enables encryption for incoming call within timer < MM_encryption_check.1 >	М
	TC_FT_GAP.N.35_BV_102	Verify that FT enables encryption for outgoing call within timer < MM_encryption_ check.1 >	М
	TC_FT_GAP.N.35_BV_105	Release of unencrypted call in case of wrong answer to authentication request	М
	TC_FT_GAP.N.35_BV_106	Release of unencrypted call in case of missing answer to authentication request	М
	TC_FT_GAP.N.35_BV_107	Release of unencrypted call in case of PP sending {AUTHENTICATION-REJECT} message	М
	TC_FT_GAP.N.35_BV_108	Release of unencrypted call in case of cipher reject.	М
	TC_FT_GAP.N.35_BV_109	Release of unencrypted call in case of missing encryption activation on MAC layer.	М
	TC_FT_GAP.N.35_BV_201	Verify indication of Support of 'Re-keying' and 'early encryption' in extended higher layer capabilities part 2	0
	TC_FT_GAP.N.35_BV_202	Usage and frequency of re-keying procedure	0
	TC_FT_GAP.N.35_BV_203	Abnormal release if encryption for re-keying is not activated in MAC layer	0
	TC_FT_GAP.N.35_BV_204	Abnormal release if PP does not answer to {AUTHENTICATION-REQUEST} message for re-keying procedure	0

NG-DECT Part 3 FT test case index			
Test Group Reference	Test Case Id	Description	Status
	TC_FT_GAP.N.35_BV_205	Abnormal release if PP answers to {AUTHENTICATION-REQUEST} message for re-keying procedure with { AUTHENTICATION-REJECT}	0
	TC_FT_GAP.N.35_BV_206	Abnormal release if PP answers to {CIPHER_REQUEST} message for re-keying procedure with { CIPHER_REJECT}	0
	TC_FT_GAP.N.35_BV_301	Assignment of default cipher key and usage of early encryption during incoming call.	0
	TC_FT_GAP.N.35_BV_302	Usage of early encryption during outgoing call	0
	TC_FT_GAP.N.35_BV_303	Usage of early encryption for MM procedure	0
	TC_FT_GAP.N.35_BV_401	Duration of registration window	М
	TC_FT_GAP.N.35_BV_402	Closing of registration window after successful registration.	М
	NG1.A.1	Easy PIN code registration	0
TC_FT_NG1.A.1	TC_FT_NG1.A.1_BV_401	Registration user feedback	0
	NG1.A.2	Easy pairing registration	M
TC_FT_NG1.A.2	TC_FT_NG1.A.2_BV_301	Base station limited registration mode	М
	TC_FT_NG1.A.2_BV_501	Base station name selection	0
	NG1.A.3	Handset Locator	0
TC_FT_NG1.A.3	TC_FT_NG1.A.3_BV_101	Handset Locator	0
	GAP.A.4	Terminal Identity number assignment in mono cell system	0
TC_FT_GAP.A.4	No test case		
		is not supported THEN "N/A" ELSE "M". ommand is not supported THEN "N/A" ELSE "M".	

- IF NG1.N.22 AND putting a call on-hold command is not supported THEN "N/A" ELSE "M". C1503:
- IF NG1.N.10 "Call intrusion" THEN "M" ELSE "I" C1504:
- IF NG1.N.17 "Calling line identity restriction" THEN "M" ELSE "I". C1505:
- IF NG1.M.5 "no-emission" mode is supported THEN "M" ELSE "I". C1506:
- C1507: IF call release command is not supported THEN "M" ELSE "N/A".
- IF call waiting rejection command is not supported THEN "M" ELSE "N/A". C1508:
- IF putting a call on-hold command is not supported THEN "M" ELSE "N/A". C1509:
- C1510: Tests cases are exclusive: IF FP supports simultaneous accesses to the same list from 2 PPs THEN run TC_FT_NG1.N.16_BV_304 ELSE run TC_FT_NG1.N.16_BV_303 (see Table A.15 FT_IXIT_11).
- C1511: Tests cases are exclusive: IF FP implements 'non early CC-CONNECT' on line 0 THEN run TC_FT_NG1.N.13_BV_201 ELSE run TC_FT_NG1.N.13_BV_202 (see Table A.16 FT_IXIT_22).
- C1512: IF FP triggers the Call Forwarding Busy when second incoming call occurs THEN "M" else "I" (see FT_IXIT_16 in Table A.15).
- C1513: IF FP supports three parallel call contexts (or more) on one PP-FP pair THEN "I" else "M" (see FT_IXIT_15 in Table A.15).
- C1514: IF NG1.N.14 "Multiple lines" is supported THEN "O" ELSE "I".
- C1515: Tests cases are exclusive: IF FP implements 'non early CC CONNECT' on line 0 THEN run TC_FT_NG1.N.12_BV_301 ELSE run TC_FT_NG1.N.12_BV_302 (see Table A.16 FT_IXIT_22).
- C1516: Tests cases are exclusive: IF FP implements 'non early CC CONNECT' on line 0 THEN run TC_FT_NG1.N.12_BV_501_ELSE run TC_FT_NG1.N.12_BV_502 (see Table A.16 FT_IXIT_22).
- C1517: IF (NG1.N.22 "Handling of lines where second calls are signalled in band" is supported on line 1 AND the call release command is not supported by the line 1) OR (NG1.N.22 "Handling of lines where second calls are signalled in band" is supported on line 0 AND the resuming a call put on hold command is not supported by the line 0) THEN N/A ELSE m (see Table A.17 FT_IXIT_31 and FT_IXIT_34 or Table A.16 FT_IXIT_21 and FT_IXIT_27).
- C1518: Tests cases are exclusive: IF FP implements 'non early CC CONNECT' on line 0 and line 1 THEN run TC_FT_NG1.N.15_BV_305 ELSE run TC_FT_NG1.N.15_BV_306 (see Table A.16 FT_IXIT_22 and Table A.17 FT_IXIT_32).
- C1519 Test cases are exclusive: if FP implements 'non early CC-CONNECT' on line 0 THEN run TC_FT_NG1.N.15_BV_205 ELSE TC_FT_NG1.N.15_BV_206 (see Table A.16 FT_IXIT_22.
- C1520: IF FP is connected to an UTF-8 CNIP enabled line THEN "M" ELSE "N/A" (see Table A.16 FT_IXIT_23).
- IF NG1.N.16_18 "Outgoing calls list" is supported THEN "M" ELSE "I". C1521:
- Tests cases are exclusive: IF FP implements 'non early CC CONNECT' on line 0 THEN run the five tests C1522: TC_FT_NG1.N.10_BV_101, 105, 103, 203, 201 ELSE run TC_FT_NG1.N.10_BV_102, 106, 104, 204, 202 (see Table A.16 FT_IXIT_22)
- Tests cases are exclusive: They correspond to mandatory tones. For each tone, the manufacturer shall declare C1523: which procedure is supported to provide this tone on external call (NG1.N.20_2 or NG1.N.20_3) and run only the corresponding test cases (see Table A.26).

	NG-DECT Part 3 FT test case index			
Test Group Test Case Id Description		Description	Status	
Refe	rence			
	NOTE 1: The procedure NG1.N.12_4 corresponding to those two tests is optional. When procedure is supported, test cases are exclusive: if FP implements 'non early CC-CONNECT' on line 0 THEN run TC_FT_NG1.N.12_GC_401 ELSE run TC_FT_NG1.N.12_GC_402 (see Table A.16, FT_IXIT_22).			
NOTE 2:	NOTE 2: These tones are optional. For each tone, the manufacturer shall declare which procedure is supported to provide this tone on external call (NG1.N.20_2 or NG1.N.20_3) and run only the corresponding test cases (see Table A.26).			

6 Portable Part Test specification

This clause includes lists of the test groups relevant for a NG-DECT portable part. Test cases are ordered like network features followed by application features (TS 102 527-3 [14], Clauses 6.4 and 6.9).

6.1 TC_PT_NG1.N.1 Codec negotiation tests cases

Test subgroup objectives: to check the IUT's behaviours when negotiating a codec.

TC_PT_NG1.N.1_BV_101	NG-DECT Part 1 capability during subscription registration	
Reference:	TS 102 527-1 [13], Clauses 7.3.1 and 7.3.7	
	EN 300 175-5 [5], Clause 7.7.41	
Initial condition:	No access rights.	
Stimulus:	A44 set to 1 on TS_1.	
	Perform an access rights request from IUT	
Pass criteria:	Verify that the IUT includes in the {ACCESS-RIGHTS-REQUEST} message:	
	an IE < <terminal-capability>> with following capabilities declared:</terminal-capability>	
	 Full and long 640 slots in Slot type capability field (octet 3c) 	
	- "GAP supported" in Profile indicator_1 field (octet 4)	
	- "NG-DECT Part 1: Wide band voice supported" in Profile indicator_7 field	
	(octet 4f)	
	an IE < <codec-list>> with G.722 codec, G.726 codec, and "Codec negotiation"</codec-list>	
	possible" indications	
Comments:	The IUT may access the Internal Names list after registration and may perform all list	
	access operations (Including: Read / Search / Save etc)	

TC_PT_NG1.N.1_BV_102	NG-DECT Part 1 capability during location registration	
Reference:	TS 102 527-1 [13], Clause 7.3.1 EN 300 175-5 [5], Clause 7.7.41	
Initial condition:	T-00	
Stimulus: Pass criteria:	Perform a location registration request from IUT (Switch IUT off and on again) Verify that the IUT includes in the {LOCATE-REQUEST} message: • an IE < <terminal-capability>> with following capabilities declared: - Full and long 640 slots in Slot type capability field (octet 3c) - "GAP supported" in Profile indicator_1 field (octet 4) - "NG-DECT Part 1: Wide band voice supported" in Profile indicator_7 field (octet 4f)</terminal-capability>	
	an IE < <codec-list>> with G.722 codec, G.726 codec, and "Codec negotiation possible" indications</codec-list>	
Comments:	The IUT may access the Internal Names list after registration and may perform all list access operations (Including: Read / Search / Save etc)	

TC_PT_NG1.N.1_BV_103	NG-DECT Part 3 capability during subscription registration	
Reference:	TS 102 527-1 [13], Clause 7.4.9.1	
	EN 300 175-5 [5], Clause 7.7.41	
Initial condition:	No access rights.	
Stimulus:	A44 set to 1 on TS_1. Perform an access rights request from IUT	
Pass criteria:	Verify that the IUT includes in the {ACCESS-RIGHTS-REQUEST} message an IE	
	< <terminal-capability>> with following capabilities declared:</terminal-capability>	
	"TCLw > 55 dB" in Echo parameters field (octet 3b)	
	 "Support of NG-DECT Part 3" capability in Profile indicator_7 octet (octet 4f) 	
Comments:	The IUT may access the Internal Names list after registration and may perform all list	
	access operations (Including: Read / Search / Save etc)	

TC_PT_NG1.N.1_BV_104	NG-DECT Part 3 capability during location registration
Reference:	TS 102 527-3 [14], Clause 7.4.9.1
	EN 300 175-5 [5], Clause 7.7.41
Initial condition:	T-00
Stimulus:	Perform a location registration request from IUT (Switch IUT off and on again)
Pass criteria:	Verify that the IUT includes in the {LOCATE-REQUEST} message an IE
	< <terminal-capability>> with following capabilities declared:</terminal-capability>
	"TCLw > 55 dB" in Echo parameters field (octet 3b)
	 "Support of NG-DECT Part 3" capability in Profile indicator_7 field (octet 4f)
Comments:	The IUT may access the Internal Names list after registration and may perform all list
	access operations (Including: Read / Search / Save etc)

TC_PT_NG1.N.1_BV_201	Basic service wideband speech	
Reference:	TS 102 527-1 [13], Clause 7.3.2	
Initial condition:	T-00	
Stimulus:	Perform an outgoing call from IUT	
Pass criteria:	Verify that the IUT sets "wideband speech default" attribute in an IE < <basic-service>></basic-service>	
	in {CC-SETUP} message	

TC_PT_NG1.N.1_BV_301	Outgoing call, codec chosen in {CC-SETUP-ACK} without slot type modification	
Reference:	TS 102 527-3 [14], Clause 7.3.3	
	EN 300 444 [12], Clause 8.1, Figure 1	
Initial condition:	T-00	
Stimulus:	Perform an outgoing call from IUT.	
	TS_1 will choose in a {CC-SETUP-ACK} message, a mandatory codec in the list	
	compatible with the already established slot type	
Pass criteria:	Verify by checking end-to-end U-plane connection that the IUT is able in state T-01 to	
	perform a codec negotiation without slot type modification	

TC_PT_NG1.N.1_BV_303	Outgoing call, codec chosen in {CC-CALL-PROC} without slot type modification	
Reference:	TS 102 527-1 [13], Clause 7.3.3	
	EN 300 444 [12], Clause 8.1, Figure 1	
Initial condition:	T-00	
Stimulus:	Perform an outgoing call from IUT.	
	TS_1 will choose in a {CC-CALL-PROC} message, a mandatory codec in the list	
	compatible with the already established slot type	
Pass criteria:	Verify by checking end-to-end U-plane connection that the IUT is able in state T-02 to	
	perform a codec negotiation without slot type modification	

TC_PT_NG1.N.1_BV_308	Outgoing call, codec chosen in {CC-CONNECT} message in state T-01 without slot type
	modification
Reference:	TS 102 527-1 [13], Clause 7.3.3
	EN 300 444 [12], Clause 8.1, Figure 2
Initial condition:	T-00
Stimulus:	Perform an outgoing call from IUT.
	TS_1 will choose in a {CC-CONNECT} message, a mandatory codec in the list compatible
	with the already established slot type
Pass criteria:	Verify by checking end-to-end U-plane connection that the IUT is able in state T-01 to
	perform a codec negotiation without slot type modification

TC_PT_NG1.N.1_BV_309	Outgoing call, codec chosen in {CC-SETUP-ACK} with slot type modification	
Reference:	TS 102 527-1 [13], Clause 7.3.3	
	EN 300 444 [12], Clause 8.1, Figure 1	
Initial condition:	T-00	
Stimulus:	Perform an outgoing call from IUT.	
	TS_1 will choose in a {CC-SETUP-ACK} message, an other mandatory codec in the list	
	with a different slot type from the already established one	
Pass criteria:	Verify by checking end-to-end U-plane connection that the IUT is able in state T-01 to	
	perform a codec negotiation with slot type modification	

TC_PT_NG1.N.1_BV_311	Outgoing call, codec chosen in {CC-CALL-PROC} message with slot type modification
Reference:	TS 102 527-1 [13], Clause 7.3.3
	EN 300 444 [12], Clause 8.1, Figure 1
Initial condition:	T-00
Stimulus:	Perform an outgoing call from IUT.
	TS_1 will choose in a {CC-CALL-PROC} message, an other mandatory codec in the list
	with a different slot type from the already established one
Pass criteria:	Verify by checking end-to-end U-plane connection that the IUT is able in state T-02 to
	perform a codec negotiation with slot type modification

TC_PT_NG1.N.1_BV_316	Outgoing call, codec chosen in {CC-CONNECT} in state T-01 with slot type modification
Reference:	TS 102 527-1 [13], Clause 7.3.3
	EN 300 444 [12], Clause 8.1, Figure 2
Initial condition:	T-00
Stimulus:	Perform an outgoing call from IUT.
	TS_1 will choose in a {CC-CONNECT} message, an other mandatory codec in the list with
	a different slot type from the already established one
Pass criteria:	Verify by checking end-to-end U-plane connection that the IUT is able in state T-01 to
	perform a codec negotiation with slot type modification

TC_PT_NG1.N.1_BV_317	Outgoing call, fall back to a mandatory codec when slot type modification fails
Reference:	TS 102 527-1 [13], Clause 7.3.3
	EN 300 444 [12], Clause 8.1, Figure 2
Initial condition:	T-00
Stimulus:	Perform an outgoing call from IUT.
	TS_1 will choose a different mandatory codec in the list in a {CC-CONNECT} message.
	TS_1 will reject the slot type modification.
Pass criteria:	Verify by checking end-to-end U-plane connection that the IUT is able to fall back to a
	mandatory codec supporting the current slot format and indicates so by sending
	{IWU-INFO}

TC_PT_NG1.N.1_BV_321	Incoming call G.722, full paging
Reference:	TS 102 527-1 [13], Clauses 7.3.3, D.1.3.1 and Figure D.7
Initial condition:	T-00
Stimulus:	Perform incoming call G.722 (full paging (Long slot; j = 640), G.722 prioritized) from TS_1.
	Call pick up on IUT.
Pass criteria:	Verify that the IUT selects a codec only in one of the following messages: {CC-ALERTING}
	and {CC-CONNECT} (other messages not allowed)
	Verify by checking end-to-end U-plane connection that the IUT is able to process an
	incoming call G.722 through full paging

TC_PT_NG1.N.1_WC_101	Outgoing call Wideband at NG-DECT Part 1 Golden Device FT (Golden Device A)
Reference:	TS 102 527-1 [13], Clauses D.1.2.1, D.1.2.2
Initial condition:	T-00,
	A wideband corded SIP phone (SIP-WB-PH) is connected to the SIP server.
	IUT registered to this Golden Device FT
Stimulus:	Perform an outgoing call from IUT to the SIP-WB-PH.
Pass criteria:	Verify by checking end-to-end U-plane connection that a test audio signal (e.g. sine wave
	6 kHz) transmitted to/from the corded phone can be heard on both ends

TC_PT_NG1.N.1_WC_102 Outgoing call Wideband at NG-DECT Part 1 Golden Device FT (Golden Device B)

Same as TC_PT_NG1.N.1_WC_401 but with the second Golden Device FT.

TC_PT_NG1.N.1_WC_103	Incoming call Wideband at NG-DECT Part 1 Golden Device FT (Golden Device A)
Reference:	TS 102 527-1 [13], Clause D.1.3.1
Initial condition:	T-00,
	A wideband corded SIP phone (SIP-WB-PH) is connected to the SIP server.
	IUT registered to this Golden Device FT
Stimulus:	An outgoing call is established from the corded wideband phone (SIP-WB-PH) to
	the Golden Device FT. The call is answered on the IUT.
Pass criteria:	Verify by checking end-to-end U-plane connection that a test audio signal (e.g. sine wave
	6 kHz) transmitted to/from the corded phone can be heard on both ends

TC_PT_NG1.N.1_WC_104 Incoming call Wideband at NG-DECT Part 1 Golden Device FT (Golden Device B)

Same as TC_PT_NG1.N.1_WC_103 but with the second Golden Device FT.

TC_PT_NG1.N.1_WC_105	Service change at NG-DECT Part 1 Golden Device FT (Golden Device A)
Reference:	TS 102 527-1 [13], Clause D.1.4.1
Initial condition:	A wideband corded SIP phone (SIP-WB-PH) and a narrow band corded SIP phone
	(SIP-NB-PH) are connected to the SIP server
	G.722 call established between IUT an wideband corded SIP phone (SIP-WB-PH) as is in
	TC_PT_NG1.N.1_WC_101
Stimulus:	Perform a call transfer from the corded wideband phone (SIP-WB-PH) to the corded
	narrowband phone (SIP-NB-PH) initiated by the corded wideband phone. This results in
	the SIP server re-negotiating from wideband to narrowband.
Pass criteria:	Verify by checking end-to-end U-plane connection that a test audio signal (e.g. sine wave
	2 kHz) transmitted to/from the corded phone can be heard on both ends

TC_PT_NG1.N.1_WC_106 | Service change at NG-DECT Part 1 Golden Device FT (Golden Device B)

Same as TC_PT_NG1.N.1_BV_105 but with the second Golden Device FT.

6.2 TC_PT_NG1.N.2 Codec switching tests cases

Test subgroup objectives: to check the IUT's behaviours during codec switching.

TC_PT_NG1.N.2_BV_101	Codec switching from G.722 to G.726
Reference:	TS 102 527-1 [13], Clauses 7.3.4, 7.3.5, D.1.4.1 and Figure D.10
Initial condition:	T-10 (IUT+TS_1) in G.722
Stimulus:	Perform a codec change from TS_1
Pass criteria:	Verify by checking end-to-end U-plane connection that the IUT is able in state T-10 to
	perform a codec switching from G.722 to G.726
Comments:	IUT and TS_1 shall send their respective {IWU-INFO} messages regardless of reception of
	{IWU-INFO} from the other side

TC_PT_NG1.N.2_BV_102	Codec switching from G.726 to G.722
Reference:	TS 102 527-1 [13], Clauses 7.3.4 and 7.3.5
Initial condition:	T-10 (IUT+TS_1) in G.726
Stimulus:	Perform a codec change from TS_1
Pass criteria:	Verify by checking end-to-end U-plane connection that the IUT is able in state T-10 to
	perform a codec switching from G.726 to G.722
Comments:	IUT and TS_1 shall send their respective {IWU-INFO} messages regardless of reception of
	{IWU-INFO} from the other side

6.3 TC_PT_NG1.N.3 Missed call notification tests cases

Test subgroup objectives: to check the IUT's behaviours when receiving missed call notification.

TC_PT_NG1.N.3_BV_201	Missed call notification, activation
Reference:	TS 102 527-3 [14], Clause 7.4.1.3, Table 15
Initial condition:	T-00
	Send a {FACILITY} message with IE < <events 1="" a="" arrived,="" call="" call,="" external="" just="" missed="" new="" notification="<Missed" voice="">(=<01H,81H,81H>) < List change indication, Missed calls list, 10>(=<03H,81H,8AH>) >> and IE<<call-information>> specifying (line 0) =<(0, 0, 0)> from TS_1</call-information></events>
Pass criteria:	Verify that the IUT indicates the missed call to the receiving user

TC_PT_NG1.N.3_BV_202	Missed call notification, deactivation
Reference:	TS 102 527-3 [14], Clause 7.4.1.3, Table 15
Initial condition:	T-00,
	Missed call notified (Run TC_PT_NG1.N.3_BV_201)
Stimulus:	Send a {FACILITY} with IE < <events call,="" call<="" missed="" new="" no="" notification="<Missed" td=""></events>
	arrived, 0>(=<01H,82H,80H>) < List change indication, Missed calls list, 10>
	(=<03H,81H,8AH>) >> and IE< <call-information>> specifying (line 0) =<(0, 0, 0)></call-information>
	from TS_1
Pass criteria:	Verify that the IUT deactivates the missed call indication to the receiving user

TC_PT_NG1.N.3_BV_203	Missed call notification, activation while on active call
Reference:	TS 102 527-3 [14], Clause 7.4.1.3
Initial condition:	External call in T-10 (IUT+TS_1) initiated by IUT on line 0 (call id a)
Stimulus:	1. Send a {CC-INFO} message from TS_1 with IE < <call-information>> specifying (line 0, full VoIP line type information, call id b, CS call setup) =<(0, 0, 0), (0, 5, 1), (1, 0, value b), (2, 1, 1)></call-information>
	2. Send a {CC-INFO} message with IE < <call-information>> specifying (call id b, CS idle) =<(1, 0, value b), (2, 1, 0)> from TS_1</call-information>
	3. Send a {FACILITY} message with IE < <events 1="" a="" arrived,="" call="" call,="" external="" just="" missed="" new="" notification="<Missed" voice="">(=<01H,81H,81H>) < List change indication, Missed calls list, 10>(=<03H,81H,8AH>) >> and IE<<call-information>> specifying (line 0) =<(0, 0, 0, 0)> from TS_1</call-information></events>
	Hang up on IUT 4. Send a {CC-RELEASE-COM} message from TS_1
Pass criteria:	Verify that the IUT indicates the call waiting to the receiving user
	 Verify that the IUT stops the call waiting presentation to the receiving user Verify that the IUT sends to TS_1 a {CC-RELEASE} message Verify that the IUT indicates the missed call to the receiving user
Comments:	At the end of the test, TS_1 may re-send an < <events notification="">> to de-notify the missed call so that the handset may clear its display or led indication related to the missed call</events>

6.4 TC_PT_NG1.N.4 Voice message waiting notification tests cases

Test subgroup objectives: to check the IUT's behaviours when receiving voice message waiting notification.

TC_PT_NG1.N.4_BV_201	Voice message waiting notification, activation
Reference:	TS 102 527-3 [14], Clause 7.4.1.2, Table 14
Initial condition:	T-00
	Send a {FACILITY} message with IE < <events 2="" notification="<Message" voice,="" waiting,="">(=<00H,81H,82H>) >> and IE<<call-information>> specifying (line 0) =<(0, 0, 0)> from TS_1</call-information></events>
Pass criteria:	Verify that the IUT indicates 2 voice messages waiting to the receiving user

TC_PT_NG1.N.4_BV_202	Voice message waiting notification, deactivation
Reference:	TS 102 527-3 [14], Clause 7.4.1.2, Table 14
Initial condition:	T-00,
	Voice message waiting notified (Run TC_PT_NG1.N.4_BV_201)
Stimulus:	Send a {FACILITY} message with IE < <events 0="" notification="<Message" voice,="" waiting,="">(=<00H,81H,80H>) >> and IE<<call-information>> specifying (line 0) =<(0,</call-information></events>
	0, 0)> from TS_1
Pass criteria:	Verify that the IUT deactivates the voice message waiting indication to the receiving user

6.5 TC_PT_NG1.N.5 Date and time synchronization tests cases

Test subgroup objectives: to check the IUT's behaviours regarding date and time synchronization.

Declarations (see Annex A):

• NG1.N.5_1 "PT initiated Date and Time synchronization" sub procedure is optional. So the manufacturer shall declare if it is supported.

TC_PT_NG1.N.5_BV_101	FT initiated Date and Time synchronization
Reference:	TS 102 527-3 [14], Clauses 7.4.2.1 and 7.4.2, Table 16
Initial condition:	T-00
Stimulus:	Send a {FACILITY} message for date and time synchronization with IE < <time-date =<="" td=""></time-date>
	<time (35h,="" 00h)="" 01h,="" 12h,="" 14h,="" 18h,="" 52h,="" and="" current="" date,="" the="" time=""> >> from</time>
	TS_1
Pass criteria:	Verify that the IUT sets its date to 14-Jan-2035 and its time to 18h 52mn (18h stands for
	6p.m)
Comments:	Method to check time after test might be device specific
	Seconds may differ from sent value

TC_PT_NG1.N.5_BV_102	PT initiated Date and Time synchronization
Reference:	TS 102 527-3 [14], Clauses 7.4.2.2 and 7.4.2, Table 16
Initial condition:	T-00
Stimulus:	Modify date and time on the IUT to 22-May-2035 and 05h 33mn 07sec
Pass criteria:	Verify that the IUT sends to TS_1 a {FACILITY} message with IE < <time-date (35h,="" 00h)="" 05h,="" 22h,="" 33h,="" <time="" =="" and="" care="" current="" date,="" do="" not="" the="" time="" value,=""> >></time-date>
Comments:	Some IUT may not allow to configure the seconds. As a result, octet 6 seconds is not tested. Some IUTs have separated menus for changing the date and the time and thus send two FACILITY messages. The tester shall cope with this behaviour.

6.6 TC_PT_NG1.N.6 Parallel calls tests cases

Test subgroup objectives: to check the IUT's behaviours regarding parallel calls common requirements taking into account the following considerations:

• As NG1.N.6_2 "Control messages" and NG1.N.6_3 "Sending keypad information" procedures are tested implicitly when testing NG1.N.7 "Common parallel call procedures (external or internal)", there is no test case defined for these two procedures.

TC_PT_NG1.N.6_BV_401	Codec change for parallel calls from G.722 to G.726
Reference:	TS 102 527-3 [14], Clauses 7.4.3.1 and 7.4.3.3
Initial condition:	G.722 external call in T-10 (IUT+TS_1) initiated by IUT on line 0 (call id a)
Stimulus:	1. Perform an outgoing parallel call on line 0 to "0123456789" phone number from IUT
	2. Send a {CC-INFO} message from TS_1 with IE < <call-information>> specifying</call-information>
	(call id a, CS call hold) =<(1, 0, value a), (2, 1, 9)>
	(2.1) If line id and complete dialing information were received in step 1 then send a
	{CC-INFO} message from TS_1 with IE < <call-information>> specifying (line 0,</call-information>
	full VoIP line type information, call id b) =<(0, 0, 0), (0, 5, 1), (1, 0, value b)> followed
	by a {CC-INFO} message from TS_1 with IE < <call-information>> specifying</call-information>
	(call id b, CS call proc) =<(1, 0, value b), (2, 1, 3)>
	(2.2) Else if line id only, or line id with partial dialing information was received in step 1

4	_
4	:

TC_PT_NG1.N.6_BV_401	Codec change for parallel calls from G.722 to G.726
TC_PT_NG1.N.6_BV_401	Codec change for parallel calls from G.722 to G.726 then send a {CC-INFO} message from TS_1 with IE < <call-information>> specifying (line 0, full VoIP line type information, call id b, CS call setup ack) =<(0, 0, 0), (0, 5, 1), (1, 0, value b), (2, 1, 2)> (2.3) Else send a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (call id b, CS call setup ack) =<(1, 0, value b), (2, 1, 2)> 3. If the line type information was not sent in step 2 (i.e. in subcase 2.3) then send a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (line 0, full VoIP line type information, call id b) =<(0, 0, 0), (0, 5, 1), (1, 0, value b)> If the 'CS call proc' call status was not sent in step 2 (i.e. in subcases 2.2 and 2.3), send a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (call id b, CS call proc) =<(1, 0, value b), (2, 1, 3)> In all cases, send a {CC-SERVICE-CHANGE} message from TS_1 with an IE <<codec-list>> set to G.726 4. Send a {IWU-INFO} message from TS_1 with IE <<call-information>> specifying (call id b, CS call connect) =<(1, 0, value b), (2, 1, 5)></call-information></codec-list></call-information></call-information></call-information></call-information>
Pass criteria:	 Verify that the IUT sends to TS_1 a {CC-INFO} message with IE <<multi-keypad>> set to 1CH 15H digits, and possibly either: IE <<call-information>> specifying (line 0) =<(0, 0, 0)> or</call-information> "0123456789" or a substring of this string together with IE > specifying (line 0) =<(0, 0, 0)> </multi-keypad> If the line id and/or the complete number were not received in step 1 then verify that the IUT sends to TS_1 one or several {CC-INFO} messages, such that: if the line id was not received in step 1, the first {CC-INFO} message shall contain an IE <<call-information>> specifying (line 0, call id b) =<(0, 0, 0), (1, 0, value b)>, and may contain an IE <<multi-keypad>> set to a leading substring of "0123456789" (possibly the whole string)</multi-keypad></call-information> all subsequent {CC-INFO} messages (and the first one also if it does not contain the line id) shall contain each an IE <<multi-keypad>> set to a substring of "0123456789" (possibly the whole string)</multi-keypad> the concatenated substrings of "0123456789" in all {CC-INFO} messages (including the substring received in step 1) shall match "0123456789" each {CC-INFO} message shall contain (call id b) =<(1, 0, value b)> Verify that the IUT sends to TS_1 a {CC-SERVICE-ACCEPT} message Verify that the IUT sends or has sent to TS_1 a {IWU-INFO} message with an IE <<codec-list>> set to G.726</codec-list>
Comments:	5. Verify end-to-end U-plane connection between IUT and TS_1 The {IWU-INFO} message received from IUT in pass criterion 4 may be sent before or after stimulus 4; IUT and TS_1 shall send their respective {IWU-INFO} messages regardless of reception of {IWU-INFO} from the other side

TC_PT_NG1.N.6_BV_402	Codec change for parallel calls from G.726 to G.722
Reference:	TS 102 527-3 [14], Clause 7.4.3.3
Initial condition:	G.726 external call in T-10 (IUT+TS_1) initiated by IUT on line 0 (call id a),
Stimulus:	 Perform an outgoing parallel call on line 0 to "0123456789" phone number from IUT Send a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (call id a, CS call hold) =<(1, 0, value a), (2, 1, 9)> (2.1) If line id and complete dialing information were received in step 1 then send a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (line 0, full VoIP line type information, call id b) =<(0, 0, 0), (0, 5, 1), (1, 0, value b)> followed by a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (call id b, CS call proc) =<(1, 0, value b), (2, 1, 3)></call-information></call-information> (2.2) Else if line id only, or line id with partial dialing information was received in step 1 then send a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (line 0, full VoIP line type information, call id b, CS call setup ack) =<(0, 0, 0), (0, 5, 1), (1, 0, value b), (2, 1, 2)></call-information> (2.3) Else send a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (call id b, CS call setup ack) =<(1, 0, value b), (2, 1, 2)></call-information> </call-information> If the line type information was not sent in step 2 (i.e. in subcase 2.3) then send a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (line 0, full VoIP line type information, call id b) =<(0, 0, 0), (0, 5, 1), (1, 0, value b)> If the 'CS call proc' call status was not sent in step 2 (i.e. in subcases 2.2 and 2.3), send a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (call id b, CS call proc) =<(1, 0, value b), (2, 1, 3)></call-information></call-information>
	In all cases, send a {CC-SERVICE-CHANGE} message from TS_1 with an IE

TC PT NG1.N.6 BV 402	Codec change for parallel calls from G.726 to G.722
	< <codec-list>> set to G.722</codec-list>
	4. Send a {IWU-INFO} message from TS_1 with an IE < <codec-list>> set to G.722</codec-list>
	5. Send a {CC-INFO} message from TS_1 with IE < <call-information>> specifying</call-information>
	(call id b, CS call connect) =<(1, 0, value b), (2, 1, 5)>
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE < <multi-keypad>></multi-keypad>
	set to 1CH 15H digits, and possibly either:
	 IE <<call-information>> specifying (line 0) =<(0, 0, 0)></call-information>
	or
	 "0123456789" or a substring of this string together with IE
	< <call-information>> specifying (line 0) =<(0, 0, 0)></call-information>
	2. If the line id and/or the complete number were not received in step 1 then verify that
	the IUT sends to TS_1 one or several {CC-INFO} messages, such that:
	 if the line id was not received in step 1, the first {CC-INFO} message shall contain an IE <<call-information>> specifying (line 0, call id b) =<(0, 0, 0), (1, 0, value b)>, and may contain an IE <<multi-keypad>> set to a leading substring</multi-keypad></call-information>
	of "0123456789" (possibly the whole string)
	 all subsequent {CC-INFO} messages (and the first one also if it does not contain the line id) shall contain each an IE <<multi-keypad>> set to a substring of "0123456789" (possibly the whole string)</multi-keypad>
	the concatenated substrings of "0123456789" in all {CC-INFO} messages
	(including the substring received in step 1) shall match "0123456789"
	 each {CC-INFO} message shall contain (call id b) =<(1, 0, value b)>
	3. Verify that the IUT sends to TS_1 a {CC-SERVICE-ACCEPT} message
	4. Verify that the IUT sends or has sent to TS_1 a {IWU-INFO} message with an IE < <codec-list>> set to G.722</codec-list>
	5. Verify end-to-end U-plane connection between IUT and TS_1
Comments:	The {IWU-INFO} message received from IUT in pass criterion 4 may be sent before or after
Commonto.	stimulus 4; IUT and TS_1 shall send their respective {IWU-INFO} messages regardless of reception of {IWU-INFO} from the other side

TC_PT_NG1.N.6_BV_501	Sending negative acknowledgement - call toggle unsuccessful
Reference:	TS 102 527-3 [14], Clauses 7.4.3.4 and 7.4.3.5.3
Initial condition:	External call in T-10 (IUT+TS_1) initiated by IUT on line 0 (call id a),
	One parallel external call on hold on line 0 (call id b)
Stimulus:	Perform a call toggle from IUT
	2. Send a {CC-INFO} message from TS_1 with IE < <signal>> with the value 09H</signal>
	indicating 'Negative acknowledgement tone' and IE < <call-information>></call-information>
	specifying (call id b, CS call hold, control code failed) =<(1, 0, value b), (2, 1, 9),
	(2, 2, 3)>
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE < <multi-keypad>></multi-keypad>
	set to (1CH, 31H) digits and with IE < <call-information>> specifying (call id b)</call-information>
	=<(1, 0, value b)>
	2. Verify that the IUT indicates that the service cannot be fulfilled, generates a negative
	acknowledgement tone and stops the generation by itself
	Verify end-to-end U-plane connection between IUT and TS_1

TC_PT_NG1.N.6_BV_601	Busy line notification
Reference:	TS 102 527-3 [14], Clause 7.4.8.3
Initial condition:	External call in T-10 (IUT+TS_1) initiated by IUT on line 0 (call id a)
Stimulus:	Perform an outgoing external parallel call on line 0 to "0123456789" phone number from IUT
	2. Send a {CC-INFO} message from TS_1 with IE < <signal>> with the value 04H indicating 'Busy tone on' and IE <<call-information>> specifying (call id b, CS call disconnecting, reason=line in use) =<(1, 0, value a), (2, 1, 6), (2, 2, 1)></call-information></signal>
	 Send a {CC-INFO} message from TS_1 with IE <<signal>> with the value 3FH indicating 'Tones off' and IE <<call-information>> specifying (call id b) =<(1, 0, value a)></call-information></signal>
Pass criteria:	 Verify that the IUT sends to TS_1 a {CC-INFO} message with IE <<multi-keypad>> set to 1CH 15H digits</multi-keypad>
	 Verify that the IUT indicates that the line is busy and generates a busy tone Verify that the IUT stops the tone generation Verify end-to-end U-plane connection between IUT and TS_1

6.7 TC_PT_NG1.N.7 Common parallel call procedures tests cases

Test subgroup objectives: to check the IUT's behaviours regarding Common parallel call procedures (external or internal).

Declarations (see Annex A):

- NG1.N.7_7 "Active call release with replacement (from PP to FP)" is optional. So the manufacturer shall declare if it is supported for each sub procedure: call waiting and call on-hold.
- NG1.N.7_9 "Putting a call on-hold" is optional. So the manufacturer shall declare if it is supported.
- NG1.N.7_10 "Resuming a call put on-hold" is optional. So the manufacturer shall declare if it is supported.

TC_PT_NG1.N.7_BV_102	Outgoing parallel external call initiation
Reference:	TS 102 527-3 [14], Clause 7.4.3.5.1
Initial condition:	External call in T-10 (IUT+TS_1) initiated by IUT on line 0 (call id a)
Stimulus:	 Perform an outgoing parallel call on line 0 to "0123456789" phone number from IUT Send a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (call id a, CS call hold) =<(1, 0, value a), (2, 1, 9)> (2.1) If line id and complete dialing information were received in step 1 then send a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (line 0, full VoIP line type information, call id b) =<(0, 0, 0), (0, 5, 1), (1, 0, value b)> followed by a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (call id b, CS call proc) =<(1, 0, value b), (2, 1, 3)></call-information></call-information> </call-information>
	 (2.2) Else if line id only, or line id with partial dialing information was received in step 1 then send a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (line 0, full VoIP line type information, call id b, CS call setup ack) =<(0, 0, 0), (0, 5, 1), (1, 0, value b), (2, 1, 2)> (2.3) Else send a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (call id b, CS call setup ack) =<(1, 0, value b), (2, 1, 2)></call-information></call-information> 3. If the line type information was not sent in step 2 (i.e. in subcase 2.3) then send a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (line 0, full VoIP line type information, call id b) =<(0, 0, 0), (0, 5, 1), (1, 0, value b)> If the 'CS call proc' call status was not sent in step 2 (i.e. in subcases 2.2 and 2.3), send a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (call id b, CS call proc) =<(1, 0, value b), (2, 1, 3)> In all cases, send a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (call id b, CS call connect) =<(1, 0, value b), (2, 1, 5)></call-information></call-information></call-information>
Pass criteria:	 Verify that the IUT sends to TS_1 a {CC-INFO} message with an IE > set to 1CH 15H digits and possibly either: IE <<call-information>> specifying (line 0) =<(0, 0, 0)></call-information> "0123456789" or a substring of this string together with IE > specifying (line 0) =<(0, 0, 0)> If the line id and/or the complete number were not received in step 1 then verify that the IUT sends to TS_1 one or several {CC-INFO} messages such that: if the line id was not received in step 1, the first {CC-INFO} message shall contain an IE <<call-information>> specifying (line 0, call id b) =<(0, 0, 0), (1, 0, value b)>, and may contain an IE <<multi-keypad>> set to a leading substring of "0123456789" (possibly the whole string)</multi-keypad></call-information> all subsequent {CC-INFO} messages (and the first one also if it does not contain the line id) shall contain each an IE <<multi-keypad>> set to a substring of "0123456789" (possibly the whole string)</multi-keypad> the concatenated substrings of "0123456789" in all {CC-INFO} messages (including the substring received in step 1) shall match "0123456789"
	 each {CC-INFO} message shall contain (call id b) =<(1, 0, value b)> Verify end-to-end U-plane connection between IUT and TS_1

TC_PT_NG1.N.7_BV_103	Outgoing parallel internal call initiation
Reference:	TS 102 527-3 [14], Clause 7.4.3.5.1
Initial condition:	2 PPs registered (IUT is PP1, TS_2 is NG PP2),
	External call in T-10 (IUT+TS_1) initiated by IUT on line 0 (call id a)
Stimulus:	Perform an internal outgoing parallel call on IUT towards PP2
	2. Send a {CC-INFO} message from TS_1 with IE < <call-information>> specifying</call-information>
	(call id a, CS call hold) =<(1, 0, value a), (2, 1, 9)>
	If dialing information was not received in step 1 then send a {CC-INFO} message from
	TS_1 with IE < <call-information>> specifying (call id b, CS call setup ack) =<(1,</call-information>
	0, value b), (2, 1, 2)>
	Else send a {CC-INFO} message from TS_1 with IE < <call-information>></call-information>
	specifying (call id b, CS call proc) =<(1, 0, value b), (2, 1, 3)>
	3. Send a {CC-INFO} message from TS_1 with IE < <call-information>> specifying</call-information>
	(call id b, CS call connect) =<(1, 0, value b), (2, 1, 5)>
Pass criteria:	Verify that the IUT sends to TS_1 a {CC-INFO} message with an IE
	< <multi-keypad>> set to 17H digit, and possibly together with terminal Id of PP2, or</multi-keypad>
	2AH in case of internal general call
	2. If dialing information was not received in step 1 then verify that the IUT sends to TS_1
	a {CC-INFO} message with IE < <multi-keypad>> set to the terminal Id of PP2, or</multi-keypad>
	2AH in case of internal general call, and IE < <call-information>> specifying (call</call-information>
	id b) =<(1, 0, value b)>
	Verify end-to-end U-plane connection between IUT and TS_2
Comments:	IUT could access to internal names list, and/or initiate internal general call, to initiate internal
	call

TC_PT_NG1.N.7_BV_201	Call waiting indication (external) - CLIP on call waiting indication - End of call waiting
	indication
Reference:	TS 102 527-3 [14], Clauses 7.4.3.5.2, 7.4.15.2.1, and 7.4.3.5.10
Initial condition:	External call in T-10 (IUT+TS_1) initiated by IUT on line 0 (call id a)
Stimulus:	 Send a {CC-INFO} message from TS_1 with IE <<signal>> with the value 07H indicating 'call waiting tone on', and IE <<call-information>> specifying (line 0, full VoIP line type information, call id b, CS call setup) =<(0, 0, 0), (0, 5, 1), (1, 0, value b), (2, 1, 1)>, followed by a {CC-INFO} message from TS_1 with IE <<calling '33298951207'="" number="<International" number,="" party="" unknown,=""> >> and IE <<call-information>> specifying (call id b) =<(1, 0, value b)></call-information></calling></call-information></signal> Send a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (call id b, CS idle) =<(1, 0, value b), (2, 1, 0)></call-information>
Pass criteria:	 Verify that the IUT indicates the call waiting to the receiving user and generates a call waiting tone and stops the generation by itself Verify CLIP presentation on IUT display according to its display capabilities Verify that the IUT stops the call waiting presentation to the receiving user

TC_PT_NG1.N.7_BV_202	Call waiting indication (internal) - CLIP on call waiting indication - End of call waiting
	indication
Reference:	TS 102 527-3 [14], Clauses 7.4.3.5.2 and 7.4.3.5.10
Initial condition:	2 PPs registered (IUT is PP1, TS_2 is NG PP2),
	External call in T-10 (IUT+TS_1) initiated by IUT on line 0 (call id a)
Stimulus:	1. Send a {CC-INFO} message from TS_1 with IE < <signal>> with the value 07H</signal>
	indicating 'call waiting tone on', and IE < <call-information>> specifying (call id b,</call-information>
	CS call setup) =<(1, 0, value b), (2, 1, 1)>, followed by a {CC-INFO} message from
	TS_1 with IE < <calling number="<Network" number,="" party="" plan,<="" private="" specific="" th=""></calling>
	IA5 coding of terminal identity number in decimal of PP2> >> and IE
	< <call-information>> specifying (call id b) =<(1, 0, value b)></call-information>
	2. Send a {CC-INFO} message from TS_1 with IE < <call-information>> specifying</call-information>
	(call id b, CS idle) =<(1, 0, value b), (2, 1, 0)>
Pass criteria:	Verify that the IUT Indicates the call waiting to the receiving user, generates a call
	waiting tone and stops the generation by itself
	Verify CLIP presentation on IUT display
	Verify that the IUT stops the call waiting presentation to the receiving user
Comments:	Internal CLIP is the terminal Identity number of the calling part

TC_PT_NG1.N.7_BV_301	Call toggle (external)
Reference:	TS 102 527-3 [14], Clause 7.4.3.5.3
Initial condition:	External call in T-10 (IUT+TS_1) initiated by IUT on line 0 (call id a),
	one parallel external call on hold on line 0 (call id b)
Stimulus:	1. Perform a call toggle from IUT
	2. Sends a {CC-INFO} message from TS_1 with IE < <call-information>></call-information>
	specifying (call id a, CS call hold) =<(1, 0, value a), (2, 1, 9)>, followed by a
	{CC-INFO} message from TS_1 with IE < <call-information>> specifying (call id</call-information>
	b, CS call connect) =<(1, 0, value b), (2, 1, 5)>
	Perform a call toggle from IUT
	4. Sends a {CC-INFO} message from TS_1 with IE < <call-information>></call-information>
	specifying (call id b, CS call hold) =<(1, 0, value b), (2, 1, 9)>, followed by a
	{CC-INFO} message from TS_1 with IE < <call-information>> specifying (call id</call-information>
5	a, CS call connect) =<(1, 0, value a), (2, 1, 5)>
Pass criteria:	1. Verify that the IUT sends to TS_1 either
	a {CC-INFO} message with IE << MULTI-KEYPAD >> set to (1CH, 31H) digits
	and IE < <call-information>> specifying (call id b) =<(1, 0, value b)></call-information>
	a {CC-INFO} message with IE << MULTI-KEYPAD >> set to (1CH, 41H) and IE CALL INFORMATION: a prosition (call id a) (1, 0, value a); (hald call id a)
	<call-information>> specifying (call id a) =<(1, 0, value a)> (hold call id a). followed by, a {CC-INFO} message with IE << MULTI-KEYPAD >> set to (1CH,</call-information>
	42H) and IE < <call-information>> specifying (call id b) =<(1, 0, value b)></call-information>
	(resume call id b)
	2. Verify end-to-end U-plane connection between IUT and TS_1
	3. Verify that the IUT sends to TS_1 either
	a {CC-INFO} message with IE << MULTI-KEYPAD >> set to (1CH, 31H) digits
	and IE < <call-information>> specifying (call id a) =<(1, 0, value a)></call-information>
	or if declared (see Annex A, Table A.4)
	a {CC-INFO} message with IE << MULTI-KEYPAD >> set to (1CH, 41H) and IE
	<call-information>> specifying (call id b) =<(1, 0, value b)> (hold call id b).</call-information>
	followed by, a {CC-INFO} message with IE << MULTI-KEYPAD >> set to (1CH,
	42H) and IE < <call-information>> specifying (call id a) =<(1, 0, value a)></call-information>
	(resume call id a)
	4. Verify end-to-end U-plane connection between IUT and TS_1
	15, 5 5 5 plants definition of the 10_1

TC_PT_NG1.N.7_BV_302	Call toggle (internal)
Reference:	TS 102 527-3 [14], Clause 7.4.3.5.3
Initial condition:	2 PPs registered (IUT is PP1, TS_2 is NG PP2),
	External call in T-10 (IUT+TS_1) initiated by IUT on line 0 (call id a),
	one parallel internal call on hold (call id b) with PP2
Stimulus:	Perform a call toggle from IUT
	 Sends a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (call id a, CS call hold) =<(1, 0, value a), (2, 1, 9)>, followed by a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (call id b, CS call connect) =<(1, 0, value b), (2, 1, 5)></call-information></call-information> Perform a call toggle from IUT
	4. Sends a {CC-INFO} message from TS_1 with IE < <call-information>></call-information>
Dago oritorio	specifying (call id b, CS call hold) =<(1, 0, value b), (2, 1, 9)>, followed by a {CC-INFO} message from TS_1 with IE < <call-information>> specifying (call id a, CS call connect) =<(1, 0, value a), (2, 1, 5)></call-information>
Pass criteria:	1. Verify that the IUT sends to TS_1 either
	 a {CC-INFO} message with IE << MULTI-KEYPAD >> set to (1CH, 31H) and IE <<call-information>> specifying (call id b) =<(1, 0, value b)></call-information> or
	 a {CC-INFO} message with IE << MULTI-KEYPAD >> set to (1CH, 41H) and IE << CALL-INFORMATION>> specifying (call id a) =<(1, 0, value a)> (hold call id a). followed by, a {CC-INFO} message with IE << MULTI-KEYPAD >> set to (1CH, 42H) and IE << CALL-INFORMATION>> specifying (call id b) =<(1, 0, value b)> (resume call id b) Verify end-to-end U-plane connection between IUT and TS_2 Verify that the IUT sends to TS_1 either a {CC-INFO} message with IE << MULTI-KEYPAD >> set to (1CH, 31H) and IE << CALL-INFORMATION>> specifying (call id a) =<(1, 0, value a)> or if declared (see Annex A, Table A.4) a {CC-INFO} message with IE << MULTI-KEYPAD >> set to (1CH, 41H) and IE << CALL-INFORMATION>> specifying (call id b) =<(1, 0, value b)> (hold call id b). followed by, a {CC-INFO} message with IE << MULTI-KEYPAD >> set to (1CH, 42H) and IE << CALL-INFORMATION>> specifying (call id a) =<(1, 0, value a)>
	(resume call id a)
	4. Verify end-to-end U-plane connection between IUT and TS_1

TC_PT_NG1.N.7_BV_401	Call release and call release rejection - Resuming a call put on-hold
Reference:	TS 102 527-3 [14], Clause 7.4.3.5.4
Initial condition:	External call in T-10 (IUT+TS_1) initiated by IUT on line 0 (call id a),
	one parallel external call on hold on line 0 (call id b)
Stimulus:	Release active call from IUT
	2. Send a {CC-INFO} message from TS_1 with IE < <call-information>> specifying (call id a, CS idle) =<(1, 0, value a), (2, 1, 0)></call-information>
	3. Resume call put on hold from IUT. This may require or not an action of the user.
	4. Send a {CC-INFO} message from TS_1 with IE < <call-information>> specifying (call id b, CS call connect) =<(1, 0, value b), (2, 1, 5)></call-information>
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE < <multi- KEYPAD>> set to (1CH, 33H) digits and with IE <<call-information>> specifying (call id a) =<(1, 0, value a)></call-information></multi-
	2. None
	3. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE < <multi-< td=""></multi-<>
	KEYPAD>> set to (1CH, 42H) digits and with IE < <call-information>> specifying (call id b) =<(1, 0, value b)></call-information>
	4. Verify end-to-end U-plane connection between IUT and TS_1
Comments:	From stimulus 2 to stimulus 4, TS_1 sends mute patterns to IUT

TC_PT_NG1.N.7_BV_601	Call waiting acceptance (from PP to FP) (external)
Reference:	TS 102 527-3 [14], Clause 7.4.3.5.6
Initial condition:	External call in T-10 (IUT+TS_1) initiated by IUT on line 0 (call id a),
Stimulus:	 Send a {CC-INFO} message from TS_1 with IE <<signal>> with the value 07H indicating 'call waiting tone on', and IE <<call-information>> specifying (line 0, full VoIP line type information, call id b, CS call setup) =<(0, 0, 0), (0, 5, 1), (1, 0, value b), (2, 1, 1)>, followed by a {CC-INFO} message from TS_1 with IE <<calling "="" and="" national="" number="<" number,="" party="" passed,="" plan,="" presentation="" restricted,="" standard="" user-provided,="" verified=""> >> and IE <<calling "="" name="<" network="" party="" presentation="" provided,="" restricted,="" utf-8,=""> >> and IE <<call-information>> specifying (call id b) =<(1, 0, value b)></call-information></calling></calling></call-information></signal> Accept waiting call from IUT
Pass criteria:	 Sends a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (call id a, CS call hold) =<(1, 0, value a), (2, 1, 9)>, followed by a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (call id b, CS call connect) =<(1, 0, value b), (2, 1, 5)></call-information></call-information> Verify that the IUT indicates the call waiting to the receiving user, with CLIP or CNIP presentation on IUT display ("Private", "Hidden" or any equivalent display) Verify that the IUT sends to TS_1 a {CC-INFO} message with IE <<multi-keypad>> set to (1CH, 35H) digits and with IE <<call-information>> specifying (call id b) =<(1, 0, value b)></call-information></multi-keypad>
	2. Verify end-to-end U-plane connection between IUT and TS_1

TC_PT_NG1.N.7_BV_602	Call waiting acceptance (from PP to FP) (internal)
Reference:	TS 102 527-3 [14], Clause 7.4.3.5.6
Initial condition:	2 PPs registered (IUT is PP1, TS_2 is NG PP2),
	External call in T-10 (IUT+TS_1) initiated by IUT on line 0 (call id a),
Stimulus:	1. Send a {CC-INFO} message from TS_1 with IE < <signal>> with the value 07H</signal>
	indicating 'call waiting tone on', and IE < <call-information>> specifying (call id</call-information>
	b, CS call setup) =<(1, 0, value b), (2, 1, 1)>, followed by a {CC-INFO} message from
	TS_1 with IE < <calling number="<Network" number,="" party="" private<="" specific="" td=""></calling>
	plan, IA5 coding of terminal identity number in decimal of PP2> >> and IE
	< <call-information>> specifying (call id b) =<(1, 0, value b)></call-information>
	Accept waiting call from IUT
	2. Sends a {CC-INFO} message from TS_1 with IE < <call-information>></call-information>
	specifying (call id a, CS call hold) =<(1, 0, value a), (2, 1, 9)>, followed by a
	{CC-INFO} message from TS_1 with IE < <call-information>> specifying (call id</call-information>
	b, CS call connect) =<(1, 0, value b), (2, 1, 5)>
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE < <multi-< td=""></multi-<>
	KEYPAD>> set to (1CH, 35H) digits and with IE < <call-information>></call-information>
	specifying (call id b) =<(1, 0, value b)>
	2. Verify end-to-end U-plane connection between IUT and TS_2

TC_PT_NG1.N.7_BV_701	Active call release with replacement (from PP to FP) - call waiting (external)
Reference:	TS 102 527-3 [14], Clause 7.4.3.5.12
Initial condition:	External call in T-10 (IUT+TS_1) initiated by IUT on line 0 (call id a),
Stimulus:	1. Send a {CC-INFO} message from TS_1 with IE < <signal>> set to the value 07H indicating 'Call waiting tone on' and IE <<call-information>> specifying (line 0, full VoIP line type information, call id b, CS call setup) =<(0, 0, 0), (0, 5, 1), (1, 0, value b), (2, 1, 1)>, followed by a {CC-INFO} message from TS_1 with IE <<calling '123456789012345678'="" national="" number="<<" number,="" party="" plan,="" standard="">> >> and IE <<call-information>> specifying (call id b) =<(1, 0, value b)></call-information></calling></call-information></signal>
	2. Accept waiting call from IUT with active call released
	3. Sends a {CC-INFO} message from TS_1 with IE < <call-information>> specifying (call id a, CS idle) =<(1, 0, value a), (2, 1, 0)>, followed by a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (call id b, CS call connect) =<(1, 0, value b), (2, 1, 5)></call-information></call-information>
Pass criteria:	 Verify that the IUT indicates the call waiting to the receiving user Verify that the IUT sends to TS_1 a {CC-INFO} message with IE <<multi-keypad>> set to (1CH, 38H) digits and with IE <<call-information>> specifying (call id b) =<(1, 0, value b)></call-information></multi-keypad> Verify end-to-end U-plane connection between IUT and TS_1
Comments:	In this particular test case, no IE SIGNAL is sent toward the IUT intentionally. This test case simulates a situations where the FP plays an inband call waiting tone. The IUT shall however correctly handle the call waiting

TC_PT_NG1.N.7_BV_702	Active call release with replacement (from PP to FP) - call on-hold (external)
Reference:	TS 102 527-3 [14], Clause 7.4.3.5.12
Initial condition:	External call in T-10 (IUT+TS_1) initiated by IUT on line 0 (call id a),
	one parallel external call on hold on line 0 (call id b)
Stimulus:	Perform an active call release with replacement from IUT
	2. Sends a {CC-INFO} message from TS_1 with IE < <call-information>></call-information>
	specifying (call id a, CS idle) =<(1, 0, value a), (2, 1, 0)>, followed by a {CC-INFO}
	message from TS_1 with IE < <call-information>> specifying (call id b, CS call</call-information>
	connect) =<(1, 0, value b), (2, 1, 5)>
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE <<
	MULTI-KEYPAD >> set to (1CH, 38H) digits and IE < <call-information>></call-information>
	specifying (call id b) =<(1, 0, value b)>
	Verify end-to-end U-plane connection between IUT and TS_1

TC_PT_NG1.N.7_BV_801	Call waiting rejection (from PP to FP) (external)
Reference:	TS 102 527-3 [14], Clause 7.4.3.5.7
Initial condition:	External call in T-10 (IUT+TS_1) initiated by IUT on line 0 (call id a),
Stimulus:	1. Send a {CC-INFO} message from TS_1 with IE < <signal>> set to the value 07H indicating 'Call waiting tone on' and IE <<call-information>> specifying (line 0, full VoIP line type information, call id b, CS call setup) =<(0, 0, 0), (0, 5, 1), (1, 0, value b), (2, 1, 1)>, followed by a {CC-INFO} message from TS_1 with IE <<calling '33298951207'="" number="<International" number,="" party="" unknown,=""> >> and IE <<calling 'clip&cnip'="" allowed,="" and="" name="<" party="" passed,="" presentation="" user-provided,="" utf-8,="" verified=""> >> and IE <<call-information>> specifying (call id b) =<(1, 0, value b)></call-information></calling></calling></call-information></signal>
Pass criteria:	 Reject waiting call from IUT Sends a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (call id b, CS idle) =<(1, 0, value b), (2, 1, 0)></call-information> Verify that the IUT indicates the call waiting to the receiving user Verify that the IUT sends to TS_1 a {CC-INFO} message with IE <<multi-keypad>> set to (1CH, 36H) digits and with IE <<call-information>> specifying (call id b) =<(1, 0, value b)></call-information></multi-keypad>
	3. Verify end-to-end U-plane connection between IUT and TS_1

TC_PT_NG1.N.7_BV_901	Putting a call on-hold (external) - Resuming a call put on-hold
Reference:	TS 102 527-3 [14], Clause 7.4.3.5.8
Initial condition:	External call in T-10 (IUT+TS_1) initiated by IUT on line 0 (call id a),
Stimulus:	Put call on hold from IUT
	Resume call put on hold from IUT
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE < <multi-< td=""></multi-<>
	KEYPAD>> set to (1CH, 41H) and with IE < <call-information>> specifying (call</call-information>
	id a) =<(1, 0, value a)>
	None
	2. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE < <multi-< td=""></multi-<>
	KEYPAD>> set to (1CH, 42H) and with IE < <call-information>> specifying (call</call-information>
	id a) =<(1, 0, value a)>
	Verify end-to-end U-plane connection between IUT and TS_1
Comments:	From stimulus 1 to stimulus 2, TS_1 sends mute patterns to IUT

TC_PT_NG1.N.7_BV_1201	CNIP on call waiting indication (external)
Reference:	TS 102 527-3 [14], Clause 7.4.3.5.11
Initial condition:	External call in T-10 (IUT+TS_1) initiated by IUT on line 0 (call id a)
Stimulus:	Send a {CC-INFO} message from TS_1 with IE < <signal>> with the value 07H</signal>
	indicating 'call waiting tone on', and IE < <call-information>> specifying (line 0, full</call-information>
	VoIP line type information, call id b, CS call setup) =<(0, 0, 0), (0, 5, 1), (1, 0, value b),
	(2, 1, 1)>, followed by a {CC-INFO} message from TS_1 with IE < <calling party<="" th=""></calling>
	NAME = < Presentation allowed, UTF-8, User-provided, verified and passed, 'CW external
	CNIP'> >> and IE < <call-information>> specifying (call id b) =<(1, 0, value b)></call-information>
Pass criteria:	Verify CNIP presentation on IUT display of 'CW external CNIP'. According to its display
	capabilities the CNIP might be abbreviated by the IUT.

TC_PT_NG1.N.7_BV_1202	CNIP on call waiting indication (internal)
Reference:	TS 102 527-3 [14], Clause 7.4.3.5.11
	EN 300 444 [12], Clause 8.44
Initial condition:	2 PPs registered (IUT is PP1, TS_2 is NG PP2),
	External call in T-10 (IUT+TS_1) initiated by IUT on line 0 (call id a)
Stimulus:	Send a {CC-INFO} message from TS_1 with IE < <signal>> with the value 07H</signal>
	indicating 'call waiting tone on', and IE < <call-information>> specifying (call id b, CS</call-information>
	call setup) =<(1, 0, value b), (2, 1, 1)>,)>, followed by a {CC-INFO} message from TS_1
	with IE << CALLING PARTY NAME = < Presentation allowed, UTF-8, User provided,
	verified and passed, 'CW int CNIP'> >> and IE < <call-information>> specifying (call</call-information>
	id b = <(1, 0, value b)>
Pass criteria:	Verify CNIP presentation on IUT display of 'CW int CNIP'

6.8 TC_PT_NG1.N.8 Call transfer tests cases

Test subgroup objectives: to check the IUT's behaviours regarding call transfer procedures.

In the following test cases, TS_1 plays the role of a FP where a virtual NG PP2 is registered

TC_PT_NG1.N.8_BV_101			
Reference:	TS 102 527-3 [14], Clauses 7.4.3.6 and 7.4.15.2.1		
Initial condition:	2 PPs registered (IUT is PP1, TS_1 is FF + NG PP2),		
	External call in T-10 (IUT+TS_1) initiated by IUT on line 0 (call id a)		
Stimulus:	1. Perform an internal outgoing parallel call on IUT towards PP2		
	2. Send a {CC-INFO} message from TS_1 with IE < <call-information>> specifying</call-information>		
	(call id a, CS call hold) =<(1, 0, value a), (2, 1, 9)>		
	If dialing information was not received in step 1 then send a {CC-INFO} message from		
	TS_1 with IE < <call-information>> specifying (call id b, CS call setup ack) =<(1,</call-information>		
	0, value b), (2, 1, 2)>		
	Else send a {CC-INFO} message from TS_1 with IE < <call-information>></call-information>		
	specifying (call id b, CS call proc) =<(1, 0, value b), (2, 1, 3)>		
	3. Send a {CC-INFO} message from TS_1 with IE < <signal>> with the value 01H</signal>		
	indicating 'Ring back tone on' and IE < <call-information>> specifying (call id b</call-information>		
	CS call alerting) =<(1, 0, value b), (2, 1, 4)>		
	4. Sends a {CC-INFO} message from TS_1 with an IE < <signal>> with the value 3FH</signal>		
	indicating 'Tones Off' and IE < <call-information>> specifying (call id b, CS call</call-information>		
	connect) =<(1, 0, value b), (2, 1, 5)>		
	5. Send a call transfer request from IUT (in order to transfer call with call id a to PP2)		
	6. Send a {CC-INFO} message from TS_ 1 with IE < <call-information>> specifying</call-information>		
	(call id a, CS idle) =<(1, 0, value a), (2, 1, 0)> followed by a {CC-INFO} message from		
	TS_ 1 with IE < <call-information>> specifying (call id b, CS idle) =<(1, 0, value</call-information>		
	b), (2, 1, 0)>, followed by a {CC-RELEASE} message from TS_1		
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-INFO} message with an IE		
	< <multi-keypad>> set to 17H digit, and possibly together with terminal Id of PP2</multi-keypad>		
	2. If dialing information was not received in step 1 then verify that the IUT sends to TS_1		
	a {CC-INFO} message with IE < <multi-keypad>> set to the terminal Id of PP2, and</multi-keypad>		
	IE < <call-information>> specifying (call id b) =<(1, 0, value b)></call-information>		
	3. Verify that the IUT generates a ring-back tone		
	4. Verify that the IUT stops the tone generation		
	Verify end-to-end U-plane connection between IUT and TS_1		
	5. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE <<		
	MULTI-KEYPAD >> set to (1CH, 34H) digits and IE < <call-information>></call-information>		
	specifying (call id a) =<(1, 0, value a)>		
	6. Verify that the IUT send to TS_1 a {CC-RELEASE-COM} message		
Comments:	IUT could access to internal names list to initiate internal call		
	The call transfer is initiated by the user either in stimulus 1 or in stimulus 5 (depending on		
	the user interface of the IUT)		

TC_PT_NG1.N.8_BV_102	Call transfer (external) - unannounced	
Reference:	TS 102 527-3 [14], Clauses 7.4.3.6 and 7.4.15.2.1	
Initial condition:	2 PPs registered (IUT is PP1, TS_1 is FP + NG PP2),	
	External call in T-10 (IUT+TS_1) initiated by IUT on line 0 (call id a)	
Stimulus:	Perform an internal outgoing parallel call on IUT towards PP2	
	2. Send a {CC-INFO} message from TS_1 with IE < <call-information>> specifying</call-information>	
	(call id a, CS call hold) =<(1, 0, value a), (2, 1, 9)>	
	If dialing information was not received in step 1 then send a {CC-INFO} message from	
	TS_1 with IE < <call-information>> specifying (call id b, CS call setup ack) =<(1,</call-information>	
	0, value b), (2, 1, 2)>	
	Else send a {CC-INFO} message from TS_1 with IE < <call-information>></call-information>	
	specifying (call id b, CS call proc) =<(1, 0, value b), (2, 1, 3)>	
	3. Send a {CC-INFO} message from TS_1 with IE < <signal>> with the value 01H</signal>	
	indicating 'Ring back tone on' and IE < <call-information>> specifying (call id b,</call-information>	
	CS call alerting) =<(1, 0, value b), (2, 1, 4)>	
	4. Send a call transfer request from IUT (in order to transfer call with call id a to PP2)	
	5. Send a {CC-INFO} message with an IE < <signal>> with the value 3FH indicating 'Tones Off' and IE <<call-information>> specifying (call id b) =<(1, 0, value b)></call-information></signal>	
	6. Send a {CC-INFO} message from TS_ 1 with IE < <call-information>> specifying</call-information>	
	(call id a, CS idle) =<(1, 0, value a), (2, 1, 0)> followed by a {CC-INFO} message from	
	TS_ 1 with IE < <call-information>> specifying (call id b, CS idle) =<(1, 0, value</call-information>	
	b), (2, 1, 0)>, followed by a {CC-RELEASE} message from TS_1	
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-INFO} message with an IE	
. ass sinterial	< <multi-keypad>> set to 17H digit, and possibly together with terminal ld of PP2</multi-keypad>	
	2. If dialing information was not received in step 1 then verify that the IUT sends to TS_1	
	a {CC-INFO} message with IE < <multi-keypad>> set to the terminal Id of PP2, and</multi-keypad>	
	IE < <call-information>> specifying (call id b) =<(1, 0, value b)></call-information>	
	3. Verify that the IUT generates a ring-back tone	
	4. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE <<	
	MULTI-KEYPAD >> set to (1CH, 34H) digits and IE < <call-information>></call-information>	
	specifying (call id a) =<(1, 0, value a)>	
	5. Verify that the IUT stops the tone generation	
	6. Verify that the IUT send to TS_1 a {CC-RELEASE-COM} message	
Comments:	IUT could access to internal names list to initiate internal call	
	The call transfer is initiated by the user either in stimulus 1 or in stimulus 4 (depending on	
	the user interface of the IUT)	

TC_PT_NG1.N.8_BV_103	Call re-injection to the system (external)	
Reference:	TS 102 527-3 [14], Clause 7.4.3.6.3	
Initial condition:	2 PPs registered (IUT is PP1, TS_1 is FP + NG PP2),	
	External call in T-10 (IUT+TS_1) initiated by IUT on line 0 (call id a)	
Stimulus:	Perform an internal outgoing parallel call on IUT towards all PPs	
	2. Send a {CC-INFO} message from TS_1 with IE < <call-information>> specifying</call-information>	
	(call id a, CS call hold) =<(1, 0, value a), (2, 1, 9)>	
	If dialing information was not received in step 1 then send a {CC-INFO} message from	
	TS_1 with IE < <call-information>> specifying (call id b, CS call setup ack) =<(1,</call-information>	
	0, value b), (2, 1, 2)>	
	Else send a {CC-INFO} message from TS_1 with IE < <call-information>></call-information>	
	specifying (call id b, CS call proc) =<(1, 0, value b), (2, 1, 3)>	
	3. Send a {CC-INFO} message from TS_1 with IE < <signal>> with the value 01H</signal>	
	indicating 'Ring back tone on' and IE < <call-information>> specifying (call id b,</call-information>	
	CS call alerting) =<(1, 0, value b), (2, 1, 4)>	
	4. Send a call transfer request from IUT (in order to transfer call with call id a to any PP)	
	5. Send a {CC-INFO} message with an IE < <signal>> with the value 3FH indicating</signal>	
	'Tones Off' and IE < <call-information>> specifying (call id b) =<(1, 0, value b)> 6. Send a {CC-INFO} message from TS_ 1 with IE <<call-information>> specifying</call-information></call-information>	
	(call id a, CS idle) =<(1, 0, value a), (2, 1, 0)> followed by a {CC-INFO} message from	
	TS_ 1 with IE < <call-information>> specifying (call id b, CS idle) =<(1, 0, value</call-information>	
	b), (2, 1, 0)>, followed by a {CC-RELEASE} message from TS_1	
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-INFO} message with an IE	
ass sineria.	< <multi-keypad>> set to 17H digit, and possibly together with 2AH digit</multi-keypad>	
	2. If dialing information was not received in step 1 then verify that the IUT sends to TS_1	
	a {CC-INFO} message with IE < <multi-keypad>> set to 2AH in and IE</multi-keypad>	
	< <call-information>> specifying (call id b) =<(1, 0, value b)></call-information>	
	3. Verify that the IUT generates a ring-back tone	
	4. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE < <multi-keypad>></multi-keypad>	
	set to (1CH, 34H) digits and IE < <call-information>> specifying (call id a) =<(1,</call-information>	
	0, value a)>	
	5. Verify that the IUT stops the tone generation	
	6. Verify that the IUT send to TS_1 a {CC-RELEASE-COM} message	
Comments:	IUT could access to internal names list to initiate internal call	
	The call transfer is initiated by the user either in stimulus 1 or in stimulus 4 (depending on	
	the user interface of the IUT)	

TO DT 1104 110 DV 404		
	Remote party CLIP on call transfer (external)	
Reference:	TS 102 527-3 [14], Clauses 7.4.3.6.4 and 7.4.3.6.5 Figure 18	
Initial condition:	2 PPs registered (IUT is PP1, TS_1 is FP + NG PP2),	
	T-00	
Stimulus:	1. Send a {CC-SETUP} message from TS_ 1 with IE < <basic-service <call="" =="" call="" class="internal">)>>, IE <<signal>> set to 40H indicating 'Alerting on - pattern 0', and IE <<call-information>> specifying (call id b, CS call setup) =<(1, 0, value b), (2, 1, 1)>,</call-information></signal></basic-service>	
	1a. Send a {CC-INFO} message from TS_ 1 with IE << CALLING PARTY NUMBER = < Network specific number, Private plan, IA5 coding of terminal identity number in decimal of PP2 > >> and IE < <call-information>> specifying (call id b) =<(1, 0, value b)></call-information>	
	2. Send a {CC-INFO} message from TS_1 with IE < <calling '0298123456'="" national="" number="<National" number,="" party="" plan,="" standard="">>> and IE <<call-information>> specifying (line 0, full VoIP line type information, call id b, updated call id a, CS call under transfer) =<(0, 0, 0), (0, 5, 1), (1, 0, value b), (1, 1, value a), (2, 1, 12)></call-information></calling>	
Pass criteria:	 Verify that the IUT send to TS_1 a {CC-ALERTING} message Verify CLIP presentation on IUT display of PP2's internal CLIP Verify CLIP presentation on IUT display according to its display capabilities of '0298123456' phone number 	
Comments:	Internal CLIP is the terminal Identity number of the calling part	

TC_PT_NG1.N.8_BV_105	Remote party CNIP on call transfer (external)		
Reference:	TS 102 527-3 [14], Clause 7.4.3.6.5 Figure 18		
Initial condition:	Internal names test list content (see Clause 4.1.1.1.7),		
	2 PPs registered (IUT is PP1, TS_2 is NG PP2),		
	T-00		
Stimulus:	1. Send a {CC-SETUP} message from TS_1 with IE < <basic-service <call="" =="" call="" class="internal">)>>, IE <<signal>> set to 40H indicating 'Alerting on - pattern 0', and with IE <<call-information>> specifying (call id b, CS call setup) =<(1, 0, value b), (2, 1, 1)>,</call-information></signal></basic-service>		
	1a. Send a {CC-INFO} message from TS_ 1 with IE < <calling allowed,="" and="" entry="" internal="" list="" name="<" names="" of="" party="" passed,="" pp2.="" presentation="" user-provided,="" utf-8,="" verified=""> >> and IE <<call-information>> specifying (call id b) =<(1, 0, value b)></call-information></calling>		
	2. Send a {CC-INFO} message from TS_ 1 with IE < <calling "transferred="" allowed,="" and="" cnip"="" name="<Presentation" party="" passed,="" user-provided,="" utf-8,="" verified=""> >> and IE <<call-information>> specifying (line 0, full VoIP line type information, call id b, updated call id a, CS call under transfer) =<(0, 0, 0), (0, 5, 1), (1, 0, value b), (1, 1, value a), (2, 1, 12)></call-information></calling>		
Pass criteria:	1. Verify that the IUT send to TS_1 a {CC-ALERTING} message		
	1a. Verify CNIP presentation on IUT display of PP2's internal CNIP 'Living-room'		
	2. Verify CNIP presentation on IUT display according to its display capabilities of		
	'Transferred CNIP'		

6.9 TC_PT_NG1.N.9 3-party conference with established external and/or internal calls tests cases

Test subgroup objectives: to check the IUT's behaviours regarding 3-party conference with established external and/or internal calls.

Declarations (see Annex A):

• NG1.N.9 "3-party conference with established external and/or internal calls" feature is optional on PP side, so the manufacturer shall declare if it is supported.

TC_PT_NG1.N.9_BV_101	3-party conference with established external and internal calls - IUT is the initiating party -		
	release from one of the non initiating parties		
Reference:	TS 102 527-3 [14], Clause 7.4.3.7		
Initial condition:	2 PPs registered (IUT is PP1, TS_1 is FP + NG PP2),		
	External call in T-10 (IUT+TS_1) initiated by IUT on line 0 (call id a),		
	one parallel internal call on hold (call id b) with PP2		
Stimulus:	1. Perform a 3-party conference call request from IUT		
	2. Send a {CC-INFO} message from TS_1 with IE < <call-information>> specifying</call-information>		
	(call id b, CS idle) =<(1, 0, value b), (2, 1, 0)>, followed by a {CC-INFO} message from		
	TS_1 with IE < <call-information>> specifying (call id a, CS conference connect) =<(1, 0, value a), (2, 1, 11)></call-information>		
	3. Send a {CC-INFO} message from TS_1 with IE < <call-information>> specifying</call-information>		
	(line 0, full VoIP line type information, call id a, CS call connect) =<(0, 0, 0), (0, 5, 1),		
	(1, 0, value a), (2, 1, 5)> and IE < <calling number="<International</td" party=""></calling>		
	number, Unknown, '33299886655'> >> to simulate a hang up from NG PP2		
	4. Hang up from IUT		
	5. Send a {CC-RELEASE-COM} message from TS_1		
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE <<		
	MULTI-KEYPAD >> set to (1CH, 32H) digits and with IE < <call-information>></call-information>		
	specifying (call id b) =<(1, 0, value b)>		
	2. Verify end-to-end U-plane connection between IUT and TS_1		
	3. Verify end-to-end U-plane connection between IUT and TS_1		
	4. Verify that the IUT sends to TS_1 a {CC-RELEASE} message		

TC_PT_NG1.N.9_BV_102	3-party conference with established external and internal calls - IUT is not the initiating		
	party		
Reference:	TS 102 527-3 [14], Clause 7.4.3.7		
Initial condition:	2 PPs registered (IUT is PP1, TS_2 is NG PP2),		
	Internal call in T-10 (IUT+TS_1) initiated by IUT (call id b) with PP2,		
	One parallel external call on-hold on line 0 (call id a)		
Stimulus:	 Send a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (line 0, full VoIP line type information, call id b, updated call id a, CS conference connect) =<(0, 0, 0), (0, 5, 1), (1, 0, value b), (1, 1, value a), (2, 1, 11)></call-information> Send a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (call id a, CS call connect) =<(1, 0, value a), (2, 1, 5)>, followed by a {CC-INFO} message from TS_1 with IE <<calling coding="" decimal="" ia5="" identity="" in="" number="" number,="" of="" party="" plan,="" pp2="" private="" specific="" terminal=""> > and IE <<call-information>> specifying (call id a) =<(1, 0, value a)> as a result of release of external party from TS_2</call-information></calling></call-information> Hang up from IUT 		
	4. Send a {CC-RELEASE-COM} message from TS_1		
Pass criteria:	1. Verify end-to-end U-plane connection between IUT and TS_1/TS_2		
	Verify end-to-end U-plane connection between IUT and TS_1		
	3. Verify that the IUT sends to TS_1 a {CC-RELEASE} message		

TC_PT_NG1.N.9_BV_103	3-party conference with established external and internal calls - IUT is the initiating			
	party – FT sends negative acknowledgement			
Test purpose	Verify that the PP IUT does not drop the existing call when it receives a negative			
	acknowledgement for a conference call request			
Reference:	TS 102 527-3, Clause 7.4.3.7.1			
Initial condition:	Two PPs registered (IUT is NG PP1, TS_2 is NG PP2, TS_1 is NG FP)			
	External call in F-10 (TS_1) between IUT (in T-10) and Phone A on line 0 (call id a)			
		n hold between IUT and TS_2 (call id b)		
	TS_1 (FP) has bit a33	(3 party conference) set in Extended Higher Layer Capabilities		
	(Part 2)			
		IUT and TS_2 attached to line 0 only		
Time sequence:	s1 [USR >> IUT]	Initiate a Conference Call Request		
	a1 [IUT >> TS_1]	(CC-INFO) with < <multi-keypad>>(1CH, 32H) and <<call-< td=""></call-<></multi-keypad>		
		INFORMATION>>(call id b)		
	s2 [TS_1 >> IUT]	{CC-INFO} with < <call_information>> with:</call_information>		
		- call status = 'CS call hold',		
	- call status reason = 'control code failed',			
		- call id = 'call id b'		
	a2.1 [IUT]	The IUT caters with the negative acknowledgement in an implementation specific way.		
	a2.2 [IUT <> TS_1]	End to end U-plane connection (with Phone A)		
	s3 [TS_1 >> IUT]	{CC-RELEASE} message		
	a3 [IUT >> TS_1]	{CC-RELEASE-COM} message		
Pass criteria:	Verify all answers			
	In a2.2 verify that call	with call id a is still active		
Comments				

6.10 TC_PT_NG1.N.10 Intrusion call tests cases

Test subgroup objectives: to check the IUT's behaviours regarding Intrusion call.

Declarations (see Annex A):

- NG1.N.10 "Intrusion call" feature is optional on PP side, so the manufacturer shall declare if it is supported.
- If the call intrusion feature is supported, supplier shall declare at least one of the 2 following procedures :
 - NG1.N.10_1 "Implicit call intrusion into a line in 'single call' mode" is optional. So the manufacturer shall declare if it is supported.
 - NG1.N.10_2 "Explicit call intrusion (from PP to FP)" is optional. So the manufacturer shall declare if it is supported.

Table 16: Summary of call intrusion test cases on PT side

Type of intrusion	Test reference	Comment
	TC_PT_NG1.N.10_BV_101	Test equipment behaves as a "Non-early {CC-CONNECT} FP"
Implicit call instrusion	TC_PT_NG1.N.10_BV_102	Test equipment behaves as an "Early {CC-CONNECT} FP"
	TC_PT_NG1.N.10_BV_103	Test equipment behaves as an "Early {CC-CONNECT} FP"
	TC_PT_NG1.N.10_BV_201	Test equipment behaves as a "Non-early {CC-CONNECT} FP"
Explicit call instrusion	TC_PT_NG1.N.10_BV_202	Test equipment behaves as an "Early {CC-CONNECT} FP"
(line or handset) (note)	TC_PT_NG1.N.10_BV_203	Test equipment behaves as an "Early {CC-CONNECT} FP"
	TC_PT_NG1.N.10_BV_204	Test equipment behaves as an "Early {CC-CONNECT} FP"
Test of intruded PP	TC_PT_NG1.N.10_BV_301	
NOTE: Tests for explicit call intrusion allow the PP to use either handset or line intrusion (a given PP implementing explicit call intrusion is allowed to implement either one or the other).		

TC_PT_NG1.N.10_BV_101			
	CC-CONNECT implemented FP - IUT is the initiating party		
Reference:	TS 102 527-3 [14], Clause 7.4.3.8.1		
Initial condition:	2 PPs registered (IUT is PP1, TS_2 is NG PP2),		
	"Multiple calls mode" set to 30H ("single call mode") and "Intrusion call" set to 31H		
	("allowed") on line 0,		
	PP1 and PP2 attached to only line 0		
	External call in T-10 (TS_2+TS_1) initiated by TS_2 on line 0 (call id a)		
Stimulus:	Perform an outgoing call on line 0 from IUT		
	1a. if (line 0) was NOT specified in {CC-SETUP}, send a {CC-SETUP-ACK} message		
	from TS_1, with IE < <call-information>> specifying (call id b, CS call setup ack)</call-information>		
	=<(1, 0, value b), (2, 1, 2)>		
	2. if (line 0) was NOT specified in {CC-SETUP},		
	Send a {CC-CONNECT} message from TS_1 with IE < <signal>> with the value</signal>		
	02H indicating 'Intercept tone on' and IE < <call-information>> specifying</call-information>		
	(line 0, full VoIP line type information, call id b, updated call id a, CS conference		
	connect) =<(0, 0, 0), (0, 5, 1), (1, 0, value b), (1, 1, value a), (2, 1, 11)>		
	Else (no call id update)		
	Send a {CC-CONNECT} message from TS_1 with IE < <signal>> with the value</signal>		
	02H indicating 'Intercept tone on' and IE < <call-information>> specifying</call-information>		
	(line 0, full VoIP line type information, call id a, CS conference connect) $=<(0, 0, 0)$,		
	(0, 5, 1), (1, 0, value a), (2, 1, 11)>		
	3. Send a {CC-INFO} message from TS_1 with IE < <call-information>> specifying</call-information>		
	(line 0, full VoIP line type information, call id a, CS call connect) = $<$ (0, 0, 0), (0, 5, 1),		
	(1, 0, value a), (2, 1, 5)> and IE < <calling number="<National" number,<="" party="" td=""></calling>		
	Unknown, '0411223344'> >> as a result of hang up from TS_2		
	4. Hang up from IUT		
	5. Send a {CC-RELEASE-COM} message from TS_ 1		
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE		
	< <basic-service>> 'Normal call setup', and possibly an IE</basic-service>		
	< <call-information>> specifying (line 0) =<(0, 0, 0)></call-information>		
	1a. if (line 0) was NOT specified in {CC-SETUP}, verify that the IUT sends to TS_1 a		
	{CC-INFO} message with an IE < <call-information>> specifying (line 0, call id</call-information>		
	b) =<(0, 0, 0), (1, 0, value b)>		
	2. Verify end-to-end U-plane connection between IUT and TS_1/TS_2		
	3. Verify end-to-end U-plane connection between IUT and TS_1		
	4. Verify that the IUT sends to TS_1 a {CC-RELEASE} message		

TC PT NG1.N.10 BV 102	Implicit call intrusion into a line in "single call" mode in front of an early CC-CONNECT
	implemented FP - IUT is the initiating party
Reference:	TS 102 527-3 [14], Clause 7.4.3.8.1
Initial condition:	2 PPs registered (IUT is PP1, TS_2 is NG PP2),
	"Multiple calls mode" set to 30H ("single call mode") and "Intrusion call" set to 31H
	("allowed") on line 0,
	PP1 and PP2 attached to only line 0
	External call in T-10 (TS_2+TS_1) initiated by TS_2 on line 0 (call id a)
Stimulus:	Perform an outgoing call on line 0 from IUT
	1a. if (line 0) was NOT specified in {CC-SETUP}, send a {CC-CONNECT} message from
	TS_1, with IE < <call-information>> specifying (call id b) =<(1, 0, value b)>,</call-information>
	followed by a {CC-INFO} message from TS_1, with IE < <call-information>></call-information>
	specifying (call id b, CS call setup ack) =<(1, 0, value b), (2, 1, 2)>
	2. if (line 0) was NOT specified in {CC-SETUP},
	Send a {CC-INFO} message from TS_1 with IE < <signal>> with the value 02H</signal>
	indicating 'Intercept tone on' and IE < <call-information>> specifying (line 0,</call-information>
	full VoIP line type information, call id b, updated call id a, CS conference connect)
	=<(0, 0, 0), (0, 5, 1), (1, 0, value b), (1, 1, value a), (2, 1, 11)>
	Else (no call id update)
	Send a {CC-CONNECT} message from TS_1 with IE < <call-information>></call-information>
	specifying (call id a) =<(1, 0, value a)>, followed by a {CC-INFO} with IE
	< <signal>> with the value 02H indicating 'Intercept tone on' and IE</signal>
	< <call-information>> specifying (line 0, full VoIP line type information, call</call-information>
	id a, CS conference connect) =<(0, 0, 0), (0, 5, 1), (1, 0, value a), (2, 1, 11)>
	3. Send a {CC-INFO} message from TS_1 with IE < <call-information>></call-information>
	specifying (line 0, full VoIP line type information, call id a, CS call connect) =<(0, 0,
	0), (0, 5, 1), (1, 0, value a), (2, 1, 5)> and IE < <calling number="</td" party=""></calling>
	<national '0411223344'="" number,="" unknown,=""> >> as a result of hang up from TS_2</national>
	4. Hang up from IUT
	5. Send a {CC-RELEASE-COM} message from TS_ 1
Pass criteria:	Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <basic-service>> 'Normal call setup', and possibly an IE</basic-service>
	< <call-information>> specifying (line 0) =<(0, 0, 0)></call-information>
	1a. if (line 0) was NOT specified in {CC-SETUP}, verify that the IUT sends to TS_1 a
	{CC-INFO} message with an IE < <call-information>> specifying (line 0, call id</call-information>
	b) =<(0, 0, 0), (1, 0, value b)>
	2. Verify end-to-end U-plane connection between IUT and TS_1/TS_2
	3. Verify end-to-end U-plane connection between IUT and TS_1
	4. Verify that the IUT sends to TS_1 a {CC-RELEASE} message
Comments	- Depending on the case, the {CC-CONNECT} is sent either in stimulus 1a with transient
	call id b, or in stimulus 2 with intruded call id a directly
	pair to 5, 51 in our factor 2 with introduce our to a directly

TC_PT_NG1.N.10_BV_103		to a line in "single call" mode - IUT is the initiating party - FT
	sends negative acknow	
Test purpose	,	correctly handles a negative acknowledgement for implicit call
	intrusion	
Reference:		auses 7.4.3.8.1 (error processing) and 7.4.8.3
Initial condition:	One external call in F- (NG PP). Line 0 is set	10 (TS_1, FP) initiated by Phone A on line 0, call id a to TS_2 in single call mode.
		(intrusion call) set in Extended Higher Layer Capabilities (Part 2) ield of line 0 in the line settings list is 30H (not allowed) d to line 0 only
Time sequence:	s1 [USR >> IUT] a1 [IUT >> TS_1]	Attempt an external call from IUT {CC-SETUP} with < <call-information>> with < id type/subtype='Line id'/'Line id for external calls', < id value='Line 0'> (intrusion target)</call-information>
	s2.1 [TS_1 >> IUT]	{CC-CONNECT} with < <call-information>> with: < id type/subtype='Call id'/'Call id', < id value='call id b'></call-information>
	s2.2 [TS_1 >> IUT]	{CC-INFO} with < <call_information>> with: - call status = 'CS call disconnecting' - call status reason = 'Line in use' - call id = 'call id b'</call_information>
	s2.3 [TS_1 >> IUT]	{CC-INFO} with < <call information="">> with: - call status 'CS idle' - call id='call id b'</call>
	a2 [IUT]	The IUT caters with the negative acknowledgement in an implementation specific way.
Pass criteria:	Verify all answers	
	In a1, the PP might no	t allow the user to make any external call attempt on line 0 already in use with intrusion not allowed). In that case the test ccessful.
Comments	Implicit call intrusion is existing call on that line fails in that case if the is not allowed on that I	similar to an external outgoing call attempt. When there is an e, the attempt may only fail if the line is in multiple call mode (and line is busy) or if the line is in single call mode, but call intrusion

TC_PT_NG1.N.10_BV_201			
	CC-CONNECT implemented FP		
Reference:	TS 102 527-3 [14], Clause 7.4.3.8.2		
Initial condition:	2 PPs registered (IUT is PP1, TS_2 is NG PP2),		
	"Multiple calls mode" set to 30H ("single call mode") and "Intrusion call" set to 31H		
	("allowed") on line 0,		
	PP1 and PP2 attached to only line 0		
	External call in T-10 (TS_2+TS_1) initiated by TS_2 on line 0 (call id a)		
Stimulus:	Perform an explicit call intrusion either on line 0 (line intrusion) or on handset PP2		
Stirridius.	(handset intrusion) from IUT		
	1a. if (line 0) was NOT specified in {CC-SETUP} (handset intrusion, or line 0 intrusion with		
	line id in {CC-INFO}), send a {CC-SETUP-ACK} message from TS_1, with IE		
	< <call-information>> specifying (call id b, CS call setup ack) =<(1, 0, value b),</call-information>		
	(2, 1, 2)>		
	2. if (line 0) was NOT specified in {CC-SETUP},		
	Send a {CC-CONNECT} message from TS_1 with IE < <signal>> with the value</signal>		
	02H indicating 'Intercept tone on' and IE < <call-information>> specifying</call-information>		
	(line 0, full VoIP line type information, call id b, updated call id a, CS conference		
	connect) =<(0, 0, 0), (0, 5, 1), (1, 0, value b), (1, 1, value a), (2, 1, 11)>		
	Else (no call id update)		
	Send a {CC-CONNECT} message from TS_1 with IE < <signal>> with the value</signal>		
	02H indicating 'Intercept tone on' and with IE < <call-information>></call-information>		
	specifying (line 0, full VoIP line type information, call id a, CS conference connect)		
	=<(0, 0, 0), (0, 5, 1), (1, 0, value a), (2, 1, 11)>		
	3. Send a {CC-INFO} message from TS_1 with IE < <calling number="</td" party=""></calling>		
	<national '0411223344'="" number,="" unknown,="">, and IE <<call-information>></call-information></national>		
	specifying (line 0, full VoIP line type information, call id a, CS call connect) =<(0, 0, 0),		
	(0, 5, 1), (1, 0, value a), (2, 1, 5)> >> as result of TS_2 hang up		
	4. Hang up from IUT		
	5. Send a {CC-RELEASE-COM} message from TS_ 1		
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE		
	< <basic-service>> 'Normal call setup', IE << MULTI-KEYPAD >> set to (1CH,</basic-service>		
	40H) digits, and possibly an IE < <call-information>> specifying (line 0) =<(0, 0,</call-information>		
	0)>		
	1a if (line 0) was NOT specified in {CC-SETUP}, verify that the IUT sends to TS_1 a		
	{CC-INFO} message with either:		
	- (PP2 handset intrusion) an IE << MULTI-KEYPAD >> set to (17H, 32H) digits, and		
	an IE < <call-information>> specifying (call id b) =<(1,0, value b)></call-information>		
	- or (line 0 intrusion), an IE < <call-information>> specifying (line 0, call id b)</call-information>		
	=<(0, 0, 0), (1, 0, value b)>		
	2. Verify that the IUT generates an intercept tone and stops the generation by itself		
	Verify end-to-end U-plane connection between IUT and TS_1/TS_2		
	3. Verify end-to-end U-plane connection between IUT and TS_1		
	4. Verify that the IUT sends to TS_1 a {CC-RELEASE} message		
Comment	- Call id b is a transient call id used in case the line id is not specified in CC-SETUP for the		
	intruding call until call id update is performed		

TC_PT_NG1.N.10_BV_202	Explicit call intrusion into a line in "single call" mode in front of an early CC-CONNECT
	implemented FP
Reference:	TS 102 527-3 [14], Clause 7.4.3.8.2
Initial condition:	2 PPs registered (IUT is PP1, TS_2 is NG PP2),
	"Multiple calls mode" set to 30H ("single call mode") and "Intrusion call" set to 31H
	("allowed") on line 0,
	PP1 and PP2 attached to only line 0
	External call in T-10 (TS_2+TS_1) initiated by TS_2 on line 0 (call id a)
Stimulus:	Perform an explicit call intrusion either on line 0 (line intrusion) or on handset PP2 (handset intrusion) from IUT
	1a. if (line 0) was NOT specified in {CC-SETUP} (handset intrusion, or line 0 intrusion
	with line id in {CC-INFO}) send a {CC-CONNECT} message from TS_1, with IE < <call-information>> specifying (call id b) =<(1, 0, value b)> followed by a</call-information>
	{CC-INFO} message from TS_1, with IE < <call-information>> specifying (call</call-information>
	id b, CS call setup ack) =<(1, 0, value b), (2, 1, 2)> 2. if (line 0) was NOT specified in {CC-SETUP},
	Send a { CC-INFO} message from TS_1 with IE < <signal>> with the value 02H indicating 'Intercept tone on' and IE <<call-information>> specifying (line 0,</call-information></signal>
	full VoIP line type information, call id b, updated call id a, CS conference connect)
	=<(0, 0, 0), (0, 5, 1), (1, 0, value b), (1, 1, value a), (2, 1, 11)>
	Else (no call id update)
	Send a {CC-CONNECT} message from TS_1 with IE < <call-information>></call-information>
	specifying (call id a) =<(1, 0, value a)>, followed by a {CC-INFO} with IE
	< <signal>> with the value 02H indicating 'Intercept tone on' and with IE</signal>
	< <call-information>> specifying (line 0, full VoIP line type information, call</call-information>
	id a, CS conference connect) =<(0, 0, 0), (0, 5, 1), (1, 0, value a), (2, 1, 11)>
	3. Send a {CC-INFO} message from TS_1 with IE < <calling number="</td" party=""></calling>
	<national '0411223344'="" number,="" unknown,=""> , and IE <<call-information>></call-information></national>
	specifying (line 0, full VoIP line type information, call id a, CS call connect) =<(0, 0,
	0), (0, 5, 1), (1, 0, value a), (2, 1, 5)>>> as result of TS_2 hang up
	4. Hang up from IUT
	5. Send a {CC-RELEASE-COM} message from TS_ 1
Pass criteria:	Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
ass criteria.	<basic-service>> 'Normal call setup', IE << MULTI-KEYPAD >> set to (1CH,</basic-service>
	40H) digits, and possibly an IE < <call-information>> specifying (line 0) =<(0,</call-information>
	0, 0)>
	1a. if (line 0) was NOT specified in {CC-SETUP}, verify that the IUT sends to TS_1 a
	{CC-INFO} message with either:
	- (PP2 handset intrusion) an IE << MULTI-KEYPAD >> set to (17H, 32H) digits, and
	an IE < <call-information>> specifying (call id b) =<(1,0, value b)></call-information>
	- or (line 0 intrusion), an IE < <call-information>> specifying (line 0, call id b)</call-information>
	=<(0, 0, 0), (1, 0, value b)>
	2. Verify that the IUT generates an intercept tone and stops the generation by itself
	Verify end-to-end U-plane connection between IUT and TS_1/TS_2
	3. Verify end-to-end U-plane connection between IUT and TS_1
	4. Verify that the IUT sends to TS_1 a {CC-RELEASE} message
Comment	- Call id b is a transient call id used in case the line id is not specified in CC-SETUP for
	the intruding call until call id update is performed

TC_PT_NG1.N.10_BV_203	Explicit handset intrus	ion - IUT is the initiating party – FT sends negative	
	acknowledgement		
Test purpose		correctly handles a negative acknowledgement for explicit	
	handset intrusion		
Reference:		ause 7.4.3.8.2 (error processing) and 7.4.8.3	
Initial condition:		(IUT is NG PP1, TS_2 is NG PP2, TS_3 is NG PP3)	
	IUT, TS_2 and TS_3 attached to line 0 only		
) is set in multiple call mode -10 on line 0 (PP2 with call id a and PP3 with call id b)	
		3 FP) has bit a32 (intrusion call) set in Extended Higher Layer	
	Capabilities (Part 2)	3 11) Has bit a32 (initiasion cail) set in Extended Higher Layer	
	IUT and TS_2 attache	d to line 0 only	
	IUT in T-00	,	
Time sequence:	s1 [USR >> IUT] a1 [IUT >> TS_1]	Attempt an explicit handset intrusion of any handset {CC-SETUP} with < <multi-keypad>>(1CH, 40H)</multi-keypad>	
	ai [101 >> 13_1]	(CC-SETOF) WILLT CONDETT-NET FAD>>(TOT), 40(1)	
	s2 [TS_1 >> IUT]	{CC-CONNECT} with < <call-information>> with:</call-information>	
		< id type/subtype='Call id'/'Call id',	
		< id value='call id c'>	
	a2 [IUT >> TS_1]	{CC-INFO} with < <multi-keypad>>(17H, '*') and with</multi-keypad>	
		< <call-information>> with:</call-information>	
		< id type/subtype='Call id'/'Call id',	
		< id value='call id c'>	
	s3.1 [TS_1 >> IUT]	{CC-INFO} with < <call_information>> with:</call_information>	
		- call status = CS call disconnecting,	
		- call status reason = 'Line in use'	
	02 2 ITC 4 ILITI	- call id = 'call id c'	
	s3.2 [TS_1 >> IUT]	{CC-INFO} with < <call information="">> with: - call status 'CS idle'</call>	
		- call id = 'call id c'	
	a3 [IUT]	The IUT caters with the negative acknowledgement in an	
	' '	implementation specific way.	
Pass criteria:	Verify all answers		
Comments		dset intrusion, a newly assigned call id (call id c) is always used	
		error occurs or not), because the intrusion target cannot be	
	specified in {CC-SETU	art 3 FP prevents the PP from being able to detect in advance	
		ejected (no diagnostic feature available)	
	1	Joseph (alagono foataro aranabio)	

TC_PT_NG1.N.10_BV_204	Explicit line intrusion -	IUT is the initiating party – FT sends negative acknowledgement
Test purpose		correctly handles a negative acknowledgement for explicit line
Reference:		7.4.3.8.2 (error processing) and 7.4.8.3
Initial condition:		(IUT is NG PP1, TS_2 is NG PP2, TS_3 is NG PP3)
	IUT, TS_2 and TS_3 a	
) is set in multiple call mode
		10 A on line 0 (PP2 with call id a and PP3 with call id b)
	TS_1 (NG DECT Part	3 FP) has bit a32 (intrusion call) set in Extended Higher Layer
	Capabilities (Part 2)	
	IUT and TS_2 attached	d to line 0 only
	IUT in T-00	
Time sequence:	s1 [USR >> IUT]	Attempt an explicit line intrusion towards line 0
	a1 [IUT >> TS_1]	{CC-SETUP} with < <multi-keypad>>(1CH, 40H)</multi-keypad>
	s2 [TS_1 >> IUT]	{CC-CONNECT} with < <call-information>> with:</call-information>
		< id type/subtype='Call id'/'Call id',
		< id value = 'call id c'>
	a2 [IUT >> TS_1]	{CC-INFO} with << CALL-INFORMATION >> with:
		< id type/subtype='Line id'/'Line id for external calls',
		< id value = 'Line 0'> (intrusion target)
		< id type/subtype='Call id'/'Call id',
		< id value = 'call id c'>
	s3.1 [TS_1 >> IUT]	{CC-INFO} with < <call_information>> with:</call_information>
		- call status = CS call disconnecting
		- call status reason = 'Line in use'
	0.0170 4 11171	- call id = 'call id c'
	s3.2 [TS_1 >> IUT]	(CC-INFO) with < <call information="">> with:</call>
		- call status 'CS idle'
	2 [III]	- call id = 'call id c'
	a3 [IUT]	The IUT caters with the negative acknowledgement in an implementation specific way.
Pass criteria:	Verify all answers	implementation specific way.
Comments		intrusion with intrusion target in {CC-INFO}, a newly assigned call
		used (see s2.1) (whether an error occurs or not)
		art 3 FP prevents the PP from being able to detect in advance
		ejected (no diagnostic feature available)

TC_PT_NG1.N.10_BV_301	Test of the intruded PP - Implicit call intrusion into a line in "single call" mode - IUT is
	not the initiating party
Reference:	TS 102 527-3 [14], Clause 7.4.3.8.1
Initial condition:	2 PPs registered (IUT is PP1, TS_2 is NG PP2),
	"Multiple calls mode" set to 30H ("single call mode") and "Intrusion call" set to 31H
	("allowed") on line 0,
	PP1 and PP2 attached to only line 0
	External call in T-10 (IUT+TS_1) initiated by IUT on line 0 (call id a)
Stimulus:	 Send a {CC-INFO} message from TS_1 with IE <<signal>> with the value 02H indicating 'Intercept tone on', IE <<calling coding="" decimal="" ia5="" identity="" in="" number="" number,="" of="" party="" plan,="" pp2="" private="" specific="" terminal=""> >> and IE <<call-information>> specifying (call id a, CS conference connect) =<(1, 0, value a), (2, 1, 11)> as a result of TS_2 outgoing call</call-information></calling></signal> Send a {CC-INFO} message from TS_1 with IE <<calling number="</li" party=""> National number, Unknown, '0411223344'> and IE <<call-information>> specifying (line 0, full VoIP line type information, call id a, CS call connect) =<(0, 0, 0),</call-information> </calling>
	(0, 5, 1), (1, 0, value a), (2, 1, 5)> >> as result of TS_2 hang up 3. Hang up from IUT
	4. Send a {CC-RELEASE-COM} message from TS_ 1
Pass criteria:	Verify end-to-end U-plane connection between IUT and TS_1/TS_2
acc ontona.	Verify end to end o plane connection between IUT and TS_1 Verify end-to-end U-plane connection between IUT and TS_1
	3. Verify that the IUT sends to TS_1 a {CC-RELEASE} message

6.11 TC_PT_NG1.N.11 Call deflection (external or internal) tests cases

Test subgroup objectives: to check the IUT's behaviours regarding Call deflection (external or internal) with the following consideration:

• As NG1.N.11_3 "Call deflection control messages" procedure is tested when testing NG1.N.11_1 "Call deflection (internal)" procedure and NG1.N.11_2 "Call deflection (external)" procedure, there is no test case defined for this procedure.

Declarations (see Annex A):

• NG1.N.11 "Call deflection (external or internal)" feature is optional on PP side, so the manufacturer shall declare if it is supported.

TC_PT_NG1.N.11_BV_101	Call deflection (internal) in multiple lines context	
Reference:	TS 102 527-3 [14], Clause 7.4.4.2	
Initial condition:	2 PPs registered (IUT is NG PP1, TS_2 is NG PP2),	
	PP1 is attached to line 0, PP2 is attached to line 1,	
	F-00	
Stimulus:	1. Send a {CC-SETUP} message from TS_1 with IE < <basic-service>> set to</basic-service>	
	'Normal call setup', IE < <signal>> set to 41H indicating 'Alerting on - pattern 1', and</signal>	
	IE < <call-information>> specifying (line 0, full VoIP line type information, call id</call-information>	
	a, CS call setup) =<(0, 0, 0), (0, 5, 1), (1, 0, value a), (2, 1, 1)>	
	2. Request a call deflection to PP2 from IUT	
	3. Send a {CC-RELEASE} message from TS_1	
Pass criteria:	1. Verify that the IUT send to TS_1 a {CC-ALERTING} message	
	2. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE < <multi-< td=""></multi-<>	
	KEYPAD>> set to (1CH, 39H, 17H, Terminal Id of PP2) digits and with IE	
	< <call-information>> specifying (call id a) =<(1, 0, value a)></call-information>	
	3. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message	
Comments:	Line 1 is not used. PP2 is not attached to line 0 in order not to ring in the first call	

TC_PT_NG1.N.11_BV_201	Call deflection (external) - successful	
Reference:	TS 102 527-3 [14], Clause 7.4.4.2	
Initial condition:	T-00	
Stimulus:	1. Send a {CC-SETUP} message from TS_1 with IE < <basic-service>> set to</basic-service>	
	'Normal call setup', IE < <signal>> set to 41H indicating 'Alerting on - pattern 1', and</signal>	
	IE < <call-information>> specifying (line 0, full VoIP line type information, call id</call-information>	
	a, CS call setup) =<(0, 0, 0), (0, 5, 1), (1, 0, value a), (2, 1, 1)>	
	2. Request a call deflection to "1234567890" number from IUT	
	3. Send a {CC-RELEASE} message	
Pass criteria:	1. Verify that the IUT send to TS_1 a {CC-ALERTING} message	
	2. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE < <multi-< td=""></multi-<>	
	KEYPAD>> set to (1CH, 39H, 15H, 31H, 32H, 33H, 34H, 35H, 36H, 37H, 38H, 39H,	
	30H) digits and with IE < <call-information>> specifying (call id a) =<(1, 0,</call-information>	
	value a)>	
	3. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message	

TC_PT_NG1.N.11_BV_202	Call deflection (external) - unsuccessful
Reference:	TS 102 527-3 [14], Clause 7.4.4.2
Initial condition:	T-00
Stimulus:	 Send a {CC-SETUP} message from TS_1 with IE <<basic-service>> set to 'Normal call setup', IE <<signal>> set to 41H indicating 'Alerting on - pattern 1', and IE <<call-information>> specifying (line 0, full VoIP line type information, call id a, CS call setup) =<(0, 0, 0), (0, 5, 1), (1, 0, value a), (2, 1, 1)></call-information></signal></basic-service> Request a call deflection to "1234567890" number from IUT
	 Send a {CC-INFO} message from TS_1 with an IE <<call-information>> specifying (call id a, CS call setup, control code failed) =<(1, 0, value a), (2, 1, 1), (2, 2, 3)></call-information> Call pick up on IUT Hang up on IUT Send a {CC-RELEASE-COM} message from TS_1
Pass criteria:	 Verify that the IUT send to TS_1 a {CC-ALERTING} message Verify that the IUT sends to TS_1 a {CC-INFO} message with IE <<multi-keypad>> set to (1CH, 39H, 15H, 31H, 32H, 33H, 34H, 35H, 36H, 37H, 38H, 39H, 30H) digits and with IE <<call-information>> specifying (call id a) =<(1, 0, value a)></call-information></multi-keypad> Verify that the IUT continues ringing
	4. Verify end-to-end U-plane connection between IUT and TS_15. Verify that the IUT sends to TS_1 a {CC-RELEASE} message

TC_PT_NG1.N.11_BV_203	Call deflection (external) - Call waiting deflection	
Reference:	TS 102 527-3 [14], Clause 7.4.3.5.6	
Initial condition:	External call in T-10 (IUT+TS_1) initiated by IUT on line 0 (call id a),	
Stimulus:	 Send a {CC-INFO} message from TS_1 with IE <<signal>> set to the value 07H indicating 'Call waiting tone on' and with IE <<call-information>> specifying (line 0, full VoIP line type information, call id b, CS call setup) =<(0, 0, 0), (0, 5, 1), (1, 0, value b), (2, 1, 1)>, followed by a {CC-INFO} message from TS_1 with IE <<calling '1234567890'="" allowed,="" national="" network="" number="<<" number,="" party="" plan,="" presentation="" provided,="" standard=""> >> and IE <<call-information>> specifying (call id b) =<(1, 0, value b)></call-information></calling></call-information></signal> Request a call deflection to "1234567890" number from IUT Send a {CC-INFO} message from TS_1 with an IE <<call-information>> specifying (call id b, CS idle) =<(1, 0, value b), (2, 1, 1)></call-information> 	
Pass criteria:	 Verify that the IUT indicates the call waiting to the receiving user Verify that the IUT sends to TS_1 a {CC-INFO} message with IE <<multi-keypad>> set to (1CH, 39H, 15H, 31H, 32H, 33H, 34H, 35H, 36H, 37H, 38H, 39H, 30H) digits and with IE <<call-information>> specifying (call id b) =<(1, 0, value b)></call-information></multi-keypad> Verify that waiting call is no longer presented on IUT Verify end-to-end U-plane connection between IUT and TS_1 	

6.12 TC_PT_NG1.N.12 Line identification tests cases

Test subgroup objectives: to check the IUT's behaviours regarding line identification with the following consideration:

• NG1.N.12_7 "Line identification for a first external incoming call" is tested with NG1.N.13_3 "Call identifier assignment on incoming call (FP to PP)" procedure.

TC_PT_NG1.N.12_BV_201	Line identification for a first external outgoing call using < <call-information>> IE</call-information>	
	(non early CC-CONNECT implementation)	
Reference:	TS 102 527-3 [14], Clause 7.4.5.2.2	
Initial condition:	T-00	
Stimulus:	 Perform an outgoing call on line 0 to "0123456789" phone number from IUT (2.1) None (2.2) If line id (only) was received in step 1 then send a {CC-SETUP-ACK} message from TS_1 with IE <<call-information>> specifying (line 0, full VoIP line type information, call id a, CS call setup ack) =<(0, 0, 0), (0, 5, 1), (1, 0, value a), (2, 1, 2)> (2.3) Else send a {CC-SETUP-ACK} message from TS_1 with IE</call-information> <call-information>> specifying (call id a, CS call setup ack) =<(1, 0, value a), (2, 1, 2)></call-information> 	
	3. If the line type information was not sent in step 2 (i.e. in subcase 2.3) then send a {CC-INFO} message from TS_1 with IE < <call-information>> specifying (line 0, full VoIP line type information, call id a) =<(0, 0, 0), (0, 5, 1), (1, 0, value a)> In all cases, send a {CC-CALL-PROC} message from TS_1 with IE <<call-information>> specifying (call id a, CS call proc) =<(1, 0, value a), (2, 1, 3)> In all cases, send a {CC-CONNECT} message from TS_1 with IE <<call-information>> specifying (call id a, CS call connect) =<(1, 0, value a), (2, 1, 5)></call-information></call-information></call-information>	
	4. Hang up on IUT	
Pass criteria:	 Send a {CC-RELEASE-COM} message from TS_ 1 Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE <<basic-service>> 'Normal call setup', and possibly IE <<call-information>> specifying (line 0) =<(0, 0, 0)></call-information></basic-service> Verify that the IUT sends to TS_1 one or several {CC-INFO} messages, such that: if the line id was not received in step 1 (i.e: in Clause 2.3), the first {CC-INFO} message shall contain an IE <<call-information>> specifying (line 0, call id a) =<(0, 0, 0), (1, 0, value a)>, and may contain an IE <<multi-keypad>> set to a leading substring of "0123456789" (possibly the whole string)</multi-keypad></call-information> all subsequent {CC-INFO} messages (and the first one also if it does not contain the line id) shall contain each an IE <<multi-keypad>> set to a substring of "0123456789" (possibly the whole string)</multi-keypad> the concatenated substrings of "0123456789" in all {CC-INFO} messages shall match "0123456789" each {CC-INFO} message shall contain (call id a) =<(1, 0, value a)> Verify end-to-end U-plane connection between IUT and TS_1 	
	4. Verify that the IUT sends to TS_1 a {CC-RELEASE} message	

TC_PT_NG1.N.12_BV_202	Line identification for a first external outgoing call using < <call-information>> IE</call-information>
	(early CC-CONNECT implementation)
Reference:	TS 102 527-3 [14], Clause 7.4.5.2.2
Initial condition:	T-00
Stimulus:	 Perform an outgoing call on line 0 to "0123456789" phone number from IUT (2.1) None
	(2.2) If line id (only) was received in step 1 then send a {CC-CONNECT} message from TS_1 with IE < <call-information>> specifying (line 0, full VoIP line type information, call id a) =<(0, 0, 0), (0, 5, 1), (1, 0, value a)> followed by a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (call id a, CS call setup ack) =<(1, 0, value a), (2, 1, 2)> (2.3) Else send a {CC-CONNECT} message from TS_1 with IE <<call-information>> specifying (call id a) =<(1, 0, value a) > followed by a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (call id a, CS call setup ack) =<(1, 0, value a), (2, 1, 2)></call-information></call-information></call-information></call-information>
	3. If the line type information was not sent in step 2 (i.e. in subcase 2.3) then send a {CC-INFO} message from TS_1 with IE < <call-information>> specifying (line 0, full VoIP line type information, call id a) =<(0, 0, 0), (0, 5, 1), (1, 0, value a)></call-information>
	In all cases, send a {CC-INFO} message from TS_1 with IE

TC_PT_NG1.N.12_BV_202	Line identification for a first external outgoing call using < <call-information>> IE</call-information>
	(early CC-CONNECT implementation)
Pass criteria:	(early CC-CONNECT Implementation) < <call-information>> specifying (call id a, CS call proc) =<(1, 0, value a), (2, 1, 3)></call-information>
	 if the line id was not received in step 1 (i.e. in Clause 2.3), the first {CC-INFO} message shall contain an IE <<call-information>> specifying (line 0, call id a) =<(0, 0, 0), (1, 0, value a)>, and may contain an IE <<multi-keypad>> set to a leading substring of "0123456789" (possibly the whole string)</multi-keypad></call-information> all subsequent {CC-INFO} messages (and the first one also if it does not contain the line id) shall contain each an IE <<multi-keypad>> set to a substring of "0123456789" (possibly the whole string)</multi-keypad> the concatenated substrings of "0123456789" in all {CC-INFO} messages shall match "0123456789" each {CC-INFO} message shall contain (call id a) =<(1, 0, value a)> Verify end-to-end U-plane connection between IUT and TS_1 Verify that the IUT sends to TS_1 a {CC-RELEASE} message

TC_PT_NG1.N.12_BV_501	FP managed line selection for a first external outgoing call (non early CC-CONNECT
	implementation)
Reference:	TS 102 527-3 [14], Clause 7.4.5.2.4
Initial condition:	T-00
Stimulus:	 Perform an outgoing call without selecting a line to "0123456789" phone number from IUT (2.1) None (2.2) If line id (only) was received in step 1 then send a {CC-SETUP-ACK} message from TS_1 with IE <<call-information>> specifying (line 0, full VoIP line type information, call id a, CS call setup ack) =<(0, 0, 0), (0, 5, 1), (1, 0, value a), (2, 1, 2)></call-information> (2.3) Else send a {CC-SETUP-ACK} message from TS_1 with IE <<call-information>> specifying (call id a, CS call setup ack) =<(1, 0, value a), (2, 1, 2)></call-information>
	 (2, 1, 2)> If the line type information was not sent in step 2 (i.e. in subcase 2.3) then send a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (line 0, full VoIP line type information, call id a) =<(0, 0, 0), (0, 5, 1), (1, 0, value a)> In all cases, send a {CC-CALL-PROC} message from TS_1 with IE <<call-information>> specifying (call id a, CS call proc) =<(1, 0, value a), (2, 1, 3)> In all cases, send a {CC-CONNECT} message from TS_1 with IE <<call-information>> specifying (call id a, CS call connect) =<(1, 0, value a), (2, 1, 5)></call-information></call-information></call-information>
	4. Hang up on IUT
	5. Send a {CC-RELEASE-COM} message from TS_1
Pass criteria:	 Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE <<basic-service>> 'Normal call setup' and possibly:</basic-service> IE <<call-information>> specifying (line None) =<(0, 0, 127)></call-information>
	 Verify that the IUT sends to TS_1 one or several {CC-INFO} messages, such that: if the line id was not received in step 1 (i.e. in subcase 2.3), the first {CC-INFO} message shall contain an IE <<call-information>> specifying (line None, call id a) =<(0, 0, 127), (1, 0, value a)>, and may contain an IE <<multi-keypad>> set to a leading substring of "0123456789" (possibly the whole string)</multi-keypad></call-information> all subsequent {CC-INFO} messages (and the first one also if it does not contain the line id) shall contain each an IE <<multi-keypad>> set to a substring of "0123456789" (possibly the whole string)</multi-keypad> the concatenated substrings of "0123456789" in all {CC-INFO} messages shall match "0123456789" each {CC-INFO} message shall contain (call id a) =<(1, 0, value a)>
	3. Verify end-to-end U-plane connection between IUT and TS_1
	4. Verify that the IUT sends to TS_1 a {CC-RELEASE} message

TC_PT_NG1.N.12_BV_502	FP managed line selection for a first external outgoing call (early CC-CONNECT
	implementation)
Reference:	TS 102 527-3 [14], Clause 7.4.5.2.4
Initial condition:	T-00
Stimulus:	 Perform an outgoing call without selecting a line to "0123456789" phone number from IUT (2.1) None
	(2.2) If line id (only) was received in step 1 then send a {CC-CONNECT} message from TS_1 with IE < <call-information>> specifying (line 0, full VoIP line type information, call id a) =<(0, 0, 0), (0, 5, 1), (1, 0, value a)> followed by a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (call id a, CS call setup ack) =<(1, 0, value a), (2, 1, 2)> (2.3) Else send a {CC-CONNECT} message from TS_1 with IE <<call-information>> specifying (call id a) =<(1, 0, value a)> followed by a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (call</call-information></call-information></call-information></call-information>
	id a, CS call setup ack) =<(1, 0, value a), (2, 1, 2)>
	3. If the line type information was not sent in step 2 (i.e. in subcase 2.3) then send a {CC-INFO} message from TS_1 with IE < <call-information>> specifying (line 0, full VoIP line type information, call id a) =<(0, 0, 0), (0, 5, 1), (1, 0, value a)> In all cases, send a {CC-INFO} message from TS_1 with IE</call-information>
	<call-information>> specifying (call id a, CS call proc) =<(1, 0, value a), (2, 1, 3)> In all cases, send a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (call id a, CS call connect) =<(1, 0, value a), (2, 1, 5)></call-information></call-information>
	4. Hang up on IUT
	5. Send a {CC-RELEASE-COM} message from TS_ 1
Pass criteria:	 Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE <<basic-service>> 'Normal call setup' and possibly:</basic-service>
	 IE <<call-information>> specifying (line None) =<(0, 0, 127)></call-information> Verify that the IUT sends to TS_1 one or several {CC-INFO} messages, such that:
	 if the line id was not received in step 1 (i.e. in subcase 2.3), the first {CC-INFO} message shall contain an IE <<call-information>> specifying (line None, call id a) =<(0, 0, 127), (1, 0, value a)>, and may contain an IE <<multi-keypad>> set to a leading substring of "0123456789" (possibly the whole string)</multi-keypad></call-information>
	 all subsequent {CC-INFO} messages (and the first one also if it does not contain the line id) shall contain each an IE <<multi-keypad>> set to a substring of "0123456789" (possibly the whole string)</multi-keypad>
	 the concatenated substrings of "0123456789" in all {CC-INFO} messages shall match "0123456789"
	 each {CC-INFO} message shall contain (call id a) =<(1, 0, value a)>
	3. Verify end-to-end U-plane connection between IUT and TS_1
	4. Verify that the IUT sends to TS_1 a {CC-RELEASE} message

6.13 TC_PT_NG1.N.13 Call identification tests cases

Test subgroup objectives: to check the IUT's behaviours regarding call identification with the following consideration:

- NG1.N.13_1 "Call identification general requirements" and NG1.N.13_4 "Call status indication to the handset (FP to PP)" procedures are tested with NG1.N.13_2 "Call identifier assignment on outgoing call (FP to PP)" and NG1.N.13_3 "Call identifier assignment on incoming call (FP to PP)" procedures.
- NG1.N.13_2 "Call identifier assignment on outgoing call (FP to PP)" procedure for service call is tested with NG1.N.6_17 "Missed called list" procedure and NG1.N.6_22 "Internal names list" procedure.
- No backward compatibility tests in front of a GAP FP are foreseen as these tests will be done when running EN 300 444 [12] tests.
- No backward compatibility tests in front of a NG-DECT PART1 FP are foreseen as these tests will be done when running NG-DECT PART1 backward compatibility tests (see TC_PT_NG1.N.1_WC_* TCs).

TC_PT_NG1.N.13_BV_201	Call identifier assignment on outgoing call (FP to PP) - Normal call (non early
	CC-CONNECT implementation) - Call status indication
Reference:	TS 102 527-3 [14], Clauses 7.4.6.1, 7.4.6.2 and 7.4.6.4
Initial condition:	T-00
Stimulus:	 Perform an outgoing call on line 0 to "0123456789" phone number from IUT (2.1) None (2.2) If line id (only) was received in step 1 then send a {CC-SETUP-ACK} message from TS_1 with IE <<call-information>> specifying (line 0, full VoIP line type information, call id a, CS call setup ack) =<(0, 0, 0), (0, 5, 1), (1, 0, value a), (2, 1, 2)></call-information>
	(2.3) Else send a {CC-SETUP-ACK} message from TS_1 with IE < <call-information>> specifying (call id a, CS call setup ack) =<(1, 0, value a), (2, 1, 2)></call-information>
	3. If the line type information was not sent in step 2 (i.e. in subcase 2.3) then send a {CC-INFO} message from TS_1 with IE < <call-information>> specifying (line 0, full VoIP line type information, call id a) =<(0, 0, 0), (0, 5, 1), (1, 0, value a)> In all cases, send a {CC-CALL-PROC} message from TS_1 with IE <<call-information>> specifying (call id a, CS call proc) =<(1, 0, value a), (2, 1, 3)></call-information></call-information>
	In all cases, send a {CC-ALERTING} message from TS_1 with IE < <call-information>> specifying (call id a, CS call alerting) =<(1, 0, value a), (2, 1, 4)> In all cases, send a {CC-CONNECT} message from TS_1 with IE <<call-information>> specifying (call id a, CS call connect) =<(1, 0, value a), (2, 1, 5)></call-information></call-information>
	4. Hang up on IUT
	5. Send a {CC-RELEASE-COM} message from TS_ 1
Pass criteria:	 Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE <<basic-service>> 'Normal call setup', and possibly:</basic-service>
	 IE <<call-information>> specifying (line 0) =<(0, 0, 0)></call-information>
	 Verify that the IUT sends to TS_1 one or several {CC-INFO} messages, such that: if the line id was not received in step 1 (i.e. in subcase 2.3), the first {CC-INFO} message shall contain an IE <<call-information>> specifying (line 0, call id a) =<(0, 0, 0), (1, 0, value a)>, and may contain an IE <<multi-keypad>> set to a leading substring of "0123456789" (possibly the whole string)</multi-keypad></call-information>
	 all subsequent {CC-INFO} messages (and the first one also if it does not contain the line id) shall contain each an IE <<multi-keypad>> set to a substring of "0123456789" (possibly the whole string)</multi-keypad>
	the concatenated substrings of "0123456789" in all {CC-INFO} messages shall match "0123456789"
	• each {CC-INFO} message shall contain (call id a) =<(1, 0, value a)
	3. Verify end-to-end U-plane connection between IUT and TS_1
	4. Verify that the IUT sends to TS_1 a {CC-RELEASE} message

TC_PT_NG1.N.13_BV_202	Call identifier assignment on outgoing call (FP to PP) - Normal call (early CC-CONNECT
	implementation) - Call status indication
Reference:	TS 102 527-3 [14], Clauses 7.4.6.1, 7.4.6.2 and 7.4.6.4
Initial condition:	T-00
Stimulus:	1. Perform an outgoing call to "0123456789" phone number from IUT 2. (2.1) None
	(2.2) If line id (only) was received in step 1 then send a {CC-CONNECT } message from TS_1 with IE < <call-information>> specifying (call id a) =<(1, 0, value a)> followed by a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (line 0, full VoIP line type information, call id a, CS call setup ack) =<(0, 0, 0), (0, 5, 1), (1, 0, value a), (2, 1, 2)> (2.3) Else send a {CC-CONNECT} message from TS_1 with IE <<call-information>> specifying (call id a) =<(1, 0, value a)> followed by a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (call id a, CS call setup ack) =<(1, 0, value a), (2, 1, 2)> 3. If the line type information was not sent in step 2 (i.e. in subcase 2.3) then send a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (line 0, full VoIP line type information, call id a) =<(0, 0, 0), (0, 5, 1), (1, 0, value a)> In all cases, send a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (call id a, CS call proc) =<(1, 0, value a), (2, 1, 3)> In all cases, send a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (call id a, CS call alerting) =<(1, 0, value a), (2, 1, 4)> In all cases, send a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (call id a, CS call connect) =<(1, 0, value a), (2, 1, 4)> In all cases, send a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (call id a, CS call connect) =<(1, 0, value a), (2, 1, 5)> 4. Hang up on IUT</call-information></call-information></call-information></call-information></call-information></call-information></call-information></call-information></call-information>
Pass criteria:	 5. Send a {CC-RELEASE-COM} message from TS_1 1. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE <<basic-service>> 'Normal call setup', and possibly:</basic-service> IE <<call-information>> specifying (line 0) =<(0, 0, 0)></call-information>
	 Verify that the IUT sends to TS_1 one or several {CC-INFO} messages, such that: if the line id was not received in step 1 (i.e. in subcase 2.3), the first {CC-INFO} message shall contain an IE <<call-information>> specifying (line 0, call id a) =<(0, 0, 0), (1, 0, value a)>, and may contain an IE <<multi-keypad>> set to a leading substring of "0123456789" (possibly the whole string)</multi-keypad></call-information> all subsequent {CC-INFO} messages (and the first one also if it does not contain the line id) shall contain each an IE <<multi-keypad>> set to a substring of "0123456789" (possibly the whole string)</multi-keypad> the concatenated substrings of "0123456789" in all {CC-INFO} messages shall match "0123456789" each {CC-INFO} message shall contain (call id a) =<(1, 0, value a)> Verify end-to-end U-plane connection between IUT and TS_1
	Verify end-to-end U-plane connection between IUT and TS_1Verify that the IUT sends to TS_1 a {CC-RELEASE} message

TC_PT_NG1.N.13_BV_203	Call identifier assignment on outgoing call (FP to PP) - Internal call - Call status indication
Reference:	TS 102 527-3 [14], Clauses 7.4.6.3 and 7.4.6.4
Initial condition:	2 PPs registered (IUT is PP1, TS_2 is NG PP2),
	T-00
Stimulus:	 Perform an internal outgoing call on IUT towards PP2 Send a {CC-SETUP-ACK} message from TS_1 with IE <<call-information>> specifying (call id a, CS call setup ack) =<(1, 0, value a), (2, 1, 2)></call-information> Send a {CC-ALERTING} message from TS_1 with IE <<call-information>> specifying (call id a, CS call alerting) =<(1, 0, value a), (2, 1, 4)>, followed by a {CC-CONNECT} message from TS_1 with IE <<call-information>> specifying (call id a, CS call connect) =<(1, 0, value a), (2, 1, 5)></call-information></call-information>
	4. Hang up on IUT
Pass criteria:	 Send a {CC-RELEASE-COM} message from TS_ 1 Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE > 'Internal call setup' Verify that the IUT sends to TS_1 a {CC-INFO} message with IE > set to terminal Id of PP2, or 2AH in case of internal general call, and IE <<call-information>> specifying (call id a) =<(1, 0, value a)></call-information> Verify end-to-end U-plane connection between IUT and TS_1
Comments:	4. Verify that the IUT sends to TS_1 a {CC-RELEASE} message IUT could access to internal names list, and/or initiate internal general call, to initiate internal call

TC_PT_NG1.N.13_BV_301	Call identifier assignment on incoming call (FP to PP) - Normal call setup
Reference:	TS 102 527-3 [14], Clauses 7.4.6.3 and 7.4.6.4
Initial condition:	T-00
Stimulus:	1. Send a {CC-SETUP} message from TS_1 with IE < <basic-service>> set to 'Normal call setup', IE <<signal>> set to 41H indicating 'Alerting on - pattern 1', and IE <<call-information>> specifying (line 0, full VoIP line type information, call id a, CS call setup) =<(0, 0, 0), (0, 5, 1), (1, 0, value a), (2, 1, 1)></call-information></signal></basic-service>
	 1a. Send a {CC-INFO} message from TS_1 with IE <<calling number="</li" party=""> <national '1234567890'="" national="" number,="" plan,="" standard=""> >></national> 2. Call pick up on IUT </calling>
	3. Send a {CC-CONNECT-ACK} message from TS_ 1 followed by a {CC-INFO} message from TS_ 1 with IE < <call-information>> specifying (call id a, CS call connect) =<(1, 0, value a), (2, 1, 5)></call-information>
	4. Hang up on IUT
	5. Send a {CC-RELEASE-COM} message from TS_1
Pass criteria:	1. Verify that the IUT send to TS_1 a {CC-ALERTING} message
	1.a Verify CLIP presentation on IUT display
	2. Verify that the IUT sends to TS_1 a {CC-CONNECT} message
	3. Verify end-to-end U-plane connection between IUT and TS_1
	4. Verify that the IUT sends to TS_1 a {CC-RELEASE} message

6.14 TC_PT_NG1.N.14 Multiple lines tests cases

Test subgroup objectives: to check the IUT's behaviours regarding multiple lines with the following consideration:

- NG1.N.14_1 "Multiple lines general requirements" procedure requires that PP implements NG1.N.7 "Common parallel call procedures (external or internal)" feature. So there is no test case defined for this procedure which is tested implicitly when testing "NG1.N.7 Common parallel call procedures (external or internal)" feature.
- NG1.N.14_2 "Terminal attachment and line settings" procedure is tested when testing NG1.N.16_25 "Line settings list" procedure and NG1.N.16_40 "Attached handsets" procedure.
- NG1.N.14_3 "Incoming and outgoing external calls on a multiple line system" procedure for the first call on a line is tested when testing the NG1.N.12 "Line identification" feature. Only test cases for the second call on a second line are specified in this clause.
- NG1.N.14_4 "Internal calls in multiple context" procedure is not tested on PP side as this procedure includes only FP requirements.

• NG1.N.14_5 "compatibility with non multiple line PP or FP" procedure is not tested as is this procedure is tested when testing the NG1.N.12 "Line identification" feature and when running EN 300 444 [12] tests.

TC_PT_NG1.N.14_BV_301	Incoming external calls on a multiple line system - Accept incoming call on second line
	and release it - Resume first call
Reference:	TS 102 527-3 [14], Clause 7.4.7.3
Initial condition:	IUT attached to line 0 and line 1,
	External call in T-10 (IUT+TS_1) on line 0 (call id a)
Stimulus:	 Send a {CC-INFO} message from TS_1 with IE <<signal>> with the value 07H indicating 'call waiting tone on', IE <<calling '2222222222'="" national="" number="<National" number,="" party="" plan,="" standard=""> >> and IE<<call-information>> specifying (line 1, full VoIP line type information, call id b, CS call setup) =<(0, 0, 1), (0, 5, 1), (1, 0, value b), (2, 1, 1)></call-information></calling></signal> Accept call waiting on IUT
	 Accept call waiting of 101 Send a {CC-INFO} message from TS_ 1 with IE <<call-information>> specifying (call id a, CS call hold) =<(1, 0, value a), (2, 1, 9)>, followed by a {CC-INFO} message from TS_ 1 with IE <<call-information>> specifying (call id b, CS call connect) =<(1, 0, value b), (2, 1, 5)></call-information></call-information> Release call on line 1 on IUT
	5. Send a {CC-INFO} message from TS_1 with IE< <call-information>> specifying (call id b, CS idle) =<(1, 0, value b), (2, 1, 0)> Resume call on line 0 on IUT. This may require or not an action of the user.</call-information>
	6. Send a {CC-INFO} message from TS_1 with IE< <call-information>> specifying (call id a, CS call connect) =<(1, 0, value a), (2, 1, 5)></call-information>
Pass criteria:	Verify that the IUT indicates the call waiting to the receiving user, generates a call waiting tone and stops the generation by itself
	2 Verify that the IUT sends to TS_1 a {CC-INFO} message with 1CH 35H in IE < <multi-keypad>> and IE <<call-information>> specifying (call id b) =<(1, 0, value b)></call-information></multi-keypad>
	3. Verify end-to-end U-plane connection on line 1 between IUT and TS_1
	4. Verify that the IUT sends to TS_1 a {CC-INFO} message with 1CH 33H in IE < <multi-keypad>> and IE <<call-information>> specifying (call id b) =<(1, 0, value b)></call-information></multi-keypad>
	5. Verify that the IUT sends to TS_1 a {CC-INFO} message with 1CH 42H in IE < <multi-keypad>> and IE <<call-information>> specifying (call id a) =<(1, 0, value a)></call-information></multi-keypad>
	6. Verify end-to-end U-plane connection on line 0 between IUT and TS_1

TC_PT_NG1.N.14_BV_305	Outgoing external calls on a multiple line system - Initiate a second outgoing call on
10_1 1_1(0114_51_600	second line using PP line selection
Reference:	TS 102 527-3 [14], Clause 7.4.7.3
Initial condition:	IUT attached to line 0 and line 1,
	External call in T-10 (IUT+TS_1) on line 0 (call id a)
Stimulus:	 Initiate a second external call on line 1 to phone number "01234567890" from IUT Send a {CC-INFO} message from TS_1 with IE <<call-information>></call-information>
	specifying (call id a, CS call hold) =<(1, 0, value a), (2, 1, 9)>
	(2.1) If line id and complete dialing information were received in step 1 then send a {CC-INFO} message from TS_1 with IE < <call-information>> specifying (line 1, full VoIP line type information, call id b) =<(0, 0, 1), (0, 5, 1), (1, 0, value b)> followed by a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (call id b, CS call proc) =<(1, 0, value b), (2, 1, 3)> (2.2) Else if line id only, or line id with partial dialing information was received in step</call-information></call-information>
	1 then send a {CC-INFO} message from TS_1 with IE < <call-information>> specifying (line 1, full VoIP line type information, call id b, CS call setup ack) =<(0, 0, 1), (0, 5, 1), (1, 0, value b), (2, 1, 2)> (2.3) Else send a {CC-INFO} message IE <<call-information>> specifying (call</call-information></call-information>
	 id b, CS call setup ack) =<(1, 0, value b), (2, 1, 2)> If the line type information was not sent in step 2 (i.e. in subcase 2.3) then send a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (line</call-information>
	1, full VoIP line type information, call id b) =<(0, 0, 1), (0, 5, 1), (1, 0, value b)> If the 'CS call proc' call status was not sent in step 2 (i.e. in subcases 2.2 and 2.3), send a {CC-INFO} message from TS_1 with IE < <call-information>></call-information>
	specifying (call id b, CS call proc) =<(1, 0, value b), (2, 1, 3)> In all cases, send a {CC-INFO} message from TS_1 with IE < <call-information>> specifying (call id b, CS call connect) =<(1, 0, value b),</call-information>
	(2, 1, 5)>
	 4. Release call on line 1 on IUT 5. Send a {CC-INFO} message from TS_1 with IE<<call-information>> specifying (call id b, CS idle) =<(1, 0, value b), (2, 1, 0)> from TS_1 Hang up on IUT</call-information>
	6. Send a {CC-RELEASE-COM} message from TS_ 1
Pass criteria:	Verify that the IUT sends to TS_1 a {CC-INFO} message with an IE < <multi-keypad>> set to 1CH 15H digits and possibly either:</multi-keypad>
	or • "0123456789" or a substring of this string together with IE
	< <call-information>> specifying (line 1) =<(0, 0, 1)></call-information>
	 If the line id and/or the complete number were not received in step 1 then verify that the IUT sends to TS_1 one or several {CC-INFO} messages, such that: if the line id was not received in step 1, the first {CC-INFO} message shall contain
	an IE < <call-information>> specifying (line 1, call id b) =<(0, 0, 1), (1, 0, value b)>, and may contain an IE <<multi-keypad>> set to a leading substring of "0123456789" (possibly the whole string)</multi-keypad></call-information>
	 all subsequent {CC-INFO} messages (and the first one also if it does not contain the line id) shall contain each an IE <<multi-keypad>> set to a substring of "0123456789" (possibly the whole string)</multi-keypad>
	 the concatenated substrings of "0123456789" in all {CC-INFO} messages (including the substring received in step 1) shall match "0123456789" each {CC-INFO} message shall contain (call id b) =<(1, 0, value b)>
	Verify end-to-end U-plane connection between IUT and TS_1
	 Verify end-to-end o-plane connection between for and 15_1 Verify that the IUT sends to TS_1 a {CC-INFO} message with 1CH 33H in IE <<multi-keypad>> and IE <<call-information>> specifying (call id b) =<(1, 0, value b)></call-information></multi-keypad>
	5. Verify that the IUT sends to TS_1 a {CC-RELEASE} message

TC_PT_NG1.N.14_BV_306	Outgoing external calls on a multiple line system - Initiate a second outgoing call on
	second line using FP managed line selection
Reference:	TS 102 527-3 [14], Clause 7.4.7.3
Initial condition:	IUT attached to line 0 and line 1,
	An incoming external call on line 0 is answered on the IUT. The call is in T-10 (IUT+TS_1)
	(call id a)
Stimulus:	 Initiate a second external call without selecting a line to phone number "01234567890" from IUT
	 Send a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (call id a, CS call hold) =<(1, 0, value a), (2, 1, 9)></call-information> (2.1) If line id and complete dialing information were received in step 1 then send a
	{CC-INFO} message from TS_1 with IE < <call-information>> specifying (line 1, full VoIP line type information, call id b) =<(0, 0, 1), (0, 5, 1), (1, 0, value b)></call-information>
	followed by a {CC-INFO} message from TS_1 with IE < <call-information>> specifying (call id b, CS call proc) =<(1, 0, value b), (2, 1, 3)></call-information>
	(2.2) Else if line id only, or line id with partial dialing information was received in step 1 then send a {CC-INFO} message from TS_1 with IE < <call-information>></call-information>
	specifying (line 1, full VoIP line type information, call id b, CS call setup ack) = $<$ (0, 0, 1), (0, 5, 1), (1, 0, value b), (2, 1, 2)>
	(2.3) Else send a {CC-INFO} message from TS_1 with IE < <call-information>> specifying (call id b, CS call setup ack) =<(1, 0, value b), (2, 1, 2)></call-information>
	3. If the line type information was not sent in step 2 (i.e. in subcase 2.3) then send a {CC-INFO} message from TS_1 with IE < <call-information>> specifying (line</call-information>
	1, full VoIP line type information, call id b) =<(0, 0, 1), (0, 5, 1), (1, 0, value b)> If the 'CS call proc' call status was not sent in step 2 (i.e. in subcases 2.2 and 2.3),
	send a {CC-INFO} message from TS_1 with IE < <call-information>> specifying (line 1, call id b, CS call proc) =<(0, 0, 0), (1, 0, value b), (2, 1, 3)></call-information>
	In all cases, send a {CC-INFO} message from TS_1 with IE < <call-information>> specifying (call id b, CS call connect) =<(1, 0, value b),</call-information>
	(2, 1, 5)> from TS_1 4. Release call on line 1 on IUT
	5. Send a {CC-INFO} message from TS_1 with IE< <call-information>> specifying (call id b, CS idle) =<(1, 0, value b), (2, 1, 0)></call-information>
	Hang up on IUT
Pass criteria:	6. Send a {CC-RELEASE-COM} message from TS_ 11. Verify that the IUT sends to TS_1 a {CC-INFO} message with an IE
	< <multi-keypad>> set to 1CH 15H digits and possibly either:</multi-keypad>
	 an IE <<call-information>> specifying (line None) =<(0, 0, 127)></call-information>
	Of
	 "0123456789" or a substring of this string together with IE <<call-information>> specifying (line None) =<(0, 0, 127)></call-information>
	2. If the line id and/or the complete number were not received in step 1 then verify that
	the IUT sends to TS_1 one or several {CC-INFO} messages, such that:
	if the line id was not received in step 1, the first {CC-INFO} message shall
	contain an IE < <call-information>> specifying (line None, call id b) =<(0, 0, 127), (1, 0, value b)>, and may contain an IE <<multi-keypad>> set to a</multi-keypad></call-information>
	leading substring of "0123456789" (possibly the whole string)
	all subsequent {CC-INFO} messages (and the first one also if it does not contain
	the line id) shall contain each an IE < <multi-keypad>> set to a substring of</multi-keypad>
	"0123456789" (possibly the whole string) the concatenated substrings of "0123456789" in all {CC-INFO} messages
	(including the substring received in step 1) shall match "0123456789"
	 each {CC-INFO} message shall contain (call id b) =<(1, 0, value b)>
	3. Verify end-to-end U-plane connection between IUT and TS_1
	4. Verify that the IUT sends to TS_1 a {CC-INFO} message with 1CH 33H in IE < <multi-keypad>> and IE <<call-information>> specifying (call id b) =<(1,</call-information></multi-keypad>
	0, value b)>
	5. Verify that the IUT sends to TS_1 a {CC-RELEASE} message

6.15 TC_PT_NG1.N.15 Multiple calls tests cases

Test subgroup objectives: to check the IUT's behaviours regarding multiple calls procedures with the following consideration:

• NG1.N.15_1 "Multiple calls general requirements" procedure requires that PP implements NG1.N.7 "Common parallel call procedures (external or internal)" feature. So there is no test case defined for this procedure which is tested implicitly when testing "NG1.N.7 Common parallel call procedures (external or internal)" feature.

TC_PT_NG1.N.15_BV_201	Incoming external calls on a multiple call line - Accept incoming second call
Reference:	TS 102 527-3 [14], Clause 7.4.8.2
Initial condition:	IUT attached to line 0 in "Multiple call" mode line,
	External call in T-10 (IUT+TS_1) on line 0 (call id a)
Stimulus:	1. Send a {CC-INFO} message from TS_1 with IE < <signal>> with the value 07H indicating 'call waiting tone on', IE <<calling "="" available,="" national="" network="" not="" number="" number,="" party="" plan,="" provided,="" standard=""> >> and IE <<call-information>> specifying (line 0, full VoIP line type information, call id b, CS call setup) =<(0, 0, 0), (0, 5, 1), (1, 0, value b), (2, 1, 1)>, followed by a {CC-INFO} message from TS_1 with IE <<calling "="" available,="" name="Name" network="" not="" party="" provided,="" utf-8,="">>> and IE <<call-information>></call-information></calling></call-information></calling></signal>
	specifying (call id b) =<(1, 0, value b)>
	Accept call waiting on IUT Send a {CC-INFO} message from TS 1 with IE < <call-information>></call-information>
	3. Send a {CC-INFO} message from TS_ 1 with IE < <call-information>> specifying (call id a, CS call hold) =<(1, 0, value a), (2, 1, 9)>, followed by a {CC-INFO} message from TS_ 1 with IE <<call-information>> specifying (call id b, CS call connect) =<(1, 0, value b), (2, 1, 5)></call-information></call-information>
	4. Send a {CC-RELEASE} message from TS_1.
Pass criteria:	Verify that the IUT indicates the call waiting to the receiving user, generates a call waiting tone with CLIP or CNIP presentation on IUT display ("Unknown" or any equivalent display), then stops the generation by itself
	Verify that the IUT sends to TS_1 a {CC-INFO} message with 1CH 35H in IE < <multi-keypad>> and IE <<call-information>> specifying (call id b) =<(1, 0, value b)></call-information></multi-keypad>
	3. Verify end-to-end U-plane connection between IUT and TS_1
	4. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message

Outgoing external calls on a multiple call line - Initiate a second outgoing call on the line
using line selection
TS 102 527-3 [14], Clause 7.4.8.2
IUT attached to line 0 in "Multiple call" mode line,
External call in T-10 (IUT+TS_1) on line 0 (call id a)
 Initiate a second external on line 0 to phone number "0123456789" from IUT Send a {CC-INFO} message from TS_1 with IE <<call-information>></call-information>
specifying (call id a, CS call hold) =<(1, 0, value a), (2, 1, 9)> (2.1) If line id and complete dialing information were received in step 1 then send a {CC-INFO} message from TS_1 with IE < <call-information>> specifying (line 0, full VoIP line type information, call id b) =<(0, 0, 0), (0, 5, 1), (1, 0, value b) > followed by a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (call id b, CS call proc) =<(1, 0, value b), (2, 1, 3)> (2.2) Else if line id only, or line id with partial dialing information was received in step 1 then send a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (line 0, full VoIP line type information, call id b, CS call setup ack) =<(0, 0, 0), (0, 5, 1), (1, 0, value b), (2, 1, 2)> (2.3) Else send a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (call id b, CS call setup ack) =<(1, 0, value a), (2, 1, 2)></call-information></call-information></call-information></call-information>
3. If the line type information was not sent in step 2 (i.e. in subcase 2.3) then send a {CC-INFO} message from TS_1 with IE < <call-information>> specifying (line 0, full VoIP line type information, call id b) =<(0, 0, 0), (0, 5, 1), (1, 0, value b) > If the 'CS call proc' call status was not sent in step 2 (i.e. in subcases 2.2 and 2.3), send a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (call id b, CS call proc) =<(1, 0, value b), (2, 1, 3)> In all cases, send a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (call id b, CS call connect) =<(1, 0, value b), (2, 1, 5)></call-information></call-information></call-information>
 4. Send a {CC-RELEASE} message from TS_ 1 1. Verify that the IUT sends to TS_1 a {CC-INFO} message with an IE <multi-keypad>> set to 1CH 15H digits and possibly either:</multi-keypad> IE <<call-information>> specifying (line 0) =<(0, 0, 0)></call-information>
 or "0123456789" or a substring of this string together with IE <call-information>> specifying (line 0) =<(0, 0, 0)></call-information> If the line id and/or the complete number were not received in step 1 then verify that the IUT sends to TS_1 one or several {CC-INFO} messages, such that: if the line id was not received in step 1, the first {CC-INFO} message shall contain an IE <<call-information>> specifying (line 0, call id b) =<(0, 0, 0), (1, 0, value b)>, and may contain an IE <<multi-keypad>> set to a leading substring of "0123456789" (possibly the whole string)</multi-keypad></call-information> all subsequent {CC-INFO} messages (and the first one also if it does not contain the line id) shall contain each an IE <<multi-keypad>> set to a substring of "0123456789" (possibly the whole string)</multi-keypad> the concatenated substrings of "0123456789" in all {CC-INFO} messages (including the substring received in step 1) shall match "0123456789" each {CC-INFO} message shall contain (call id b) =<(1, 0, value b)> Verify end-to-end U-plane connection between IUT and TS_1

TC_PT_NG1.N.15_BV_206	Outgoing external calls on a multiple call line - Initiate a second outgoing call on the line
10_1 1_1(01)(10_51_200	using FP managed line selection
Reference:	TS 102 527-3 [14], Clause 7.4.8.2
Initial condition:	IUT attached to line 0 in "Multiple call" mode line, An incoming external call on line 0 is answered on the IUT. The call is in T-10 (IUT+TS_1) (call id a)
Stimulus:	1. Initiate a second external call without selecting a line to phone number "0123456789"
	from IUT 2. Send a {CC-INFO} message from TS_1 with IE < <call-information>> specifying (call id a, CS call hold) =<(1, 0, value a), (2, 1, 9)> (2.1) If line id and complete dialing information were received in step 1 then send a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (line 0, full VoIP line type information, call id b) =<(0, 0, 0), (0, 5, 1), (1, 0, value b) > followed by a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (call id b, CS call proc) =<(1, 0, value b), (2, 1, 3)> (2.2) Else if line id only, or line id with partial dialing information was received in step 1 then send a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (line 0, full VoIP line type information, call id b, CS call setup ack) =<(0, 0, 0), (0, 5, 1), (1, 0, value b), (2, 1, 2)> (2.3) Else send a {CC-INFO} message IE <<call-information>> specifying (call id b, CS call setup ack) =<(1, 0, value a), (2, 1, 2)></call-information></call-information></call-information></call-information></call-information>
	3. If the line type information was not sent in step 2 (i.e. in subcase 2.3) then send a {CC-INFO} message from TS_1 with IE < <call-information>> specifying (line 0, full VoIP line type information, call id b) =<(0, 0, 0), (0, 5, 1), (1, 0, value b) > If the 'CS call proc' call status was not sent in step 2 (i.e. in subcases 2.2 and 2.3), send a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (line 0, call id b, CS call proc) =<(0, 0, 0), (1, 0, value b), (2, 1, 3)> In all cases, send a {CC-INFO} message from TS_1 with IE <<call-information>> specifying (call id b, CS call connect) =<(1, 0, value b), (2, 1, 5)></call-information></call-information></call-information>
Dago oritoria	4. Send a {CC-RELEASE} message from TS_ 1
Pass criteria:	 Verify that the IUT sends to TS_1 a {CC-INFO} message with an IE <multi-keypad>> set to 1CH 15H digits and possibly either:</multi-keypad> IE <<call-information>> specifying (line None) =<(0, 0, 127)> or</call-information>
	 "0123456789" digits together with IE <<call-information>> specifying (line None) =<(0, 0, 127)></call-information>
	2. If the line id and/or the complete number were not received in step 1 then verify that the IUT sends to TS_1 one or several {CC-INFO} messages, such that:
	• if the line id was not received in step 1, the first {CC-INFO} message shall contain an IE < <call-information>> specifying (line None, call id b) =<(0, 0, 127), (1, 0, value b)>, and may contain an IE <<multi-keypad>> set to a leading substring of "0123456789" (possibly the whole string)</multi-keypad></call-information>
	 all subsequent {CC-INFO} messages (and the first one also if it does not contain the line id) shall contain each an IE <<multi-keypad>> set to a substring of "0123456789" (possibly the whole string)</multi-keypad>
	 the concatenated substrings of "0123456789" in all {CC-INFO} messages (including the substring received in step 1) shall match "0123456789" each {CC-INFO} message shall contain (call id b) =<(1, 0, value b)>
	 each {CC-INFO} message shall contain (call to b) =<(1, 0, value b)> Verify end-to-end U-plane connection between IUT and TS_1 Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message

TC_PT_NG1.N.15_BV_301	Busy system notification
Reference:	TS 102 527-3 [14], Clause 7.4.8.3
Initial condition:	2 PPs registered (IUT is PP1, TS_2 is NG PP2),
	IUT and TS_2 attached to line 0 in "Single call" mode line,
	external call in T-10 (IUT+TS_2) initiated by PP2
Stimulus:	Initiate an outgoing call from IUT
	Send a {CC-INFO} message with IE < <signal>> set to the value 04H indicating 'Busy</signal>
	tone' and IE < <call-information>> specifying (call id a, CS call disconnecting,</call-information>
	reason=system busy) =<(1, 0, value a), (2, 1, 6), (2, 2, 0)> from TS_1
Pass criteria:	Verify that the IUT indicates to the user that the system is busy

6.16 TC PT NG1.N.16 List access service tests cases

Test subgroup objectives: to check the IUT's behaviours regarding list access service procedures with the following considerations:

- NG1.N.6_2 "List change notification" procedure is not tested because there is no requirement on PP side related to the expected behavior of the PP when it is notified.
- As "Negative Acknowledgement" command is foreseen to reject invalid PP command, NG1.N.6_11 "Negative Acknowledgement" procedure is not tested.
- As it is impossible to know when "List of supported lists" is open, NG1.N.6_16 "List of supported lists" procedure is not tested.
- The optional 'associated melody' field in contact list entry is not tested.

Test equipment implementation requirements for List access service tests cases

- There are several ways to implement List access service on PP side. For example, query could happen at different places during the sequence of a TC, optional commands can be supported or not, optional fields can be or not supported, settings can be read one by one or all in one read entries command, it is impossible to predict when the List of supported lists will be open, ...As a consequence, the tester should be flexible enough to accept several implementations of list access on PP side.
- When a list access is open, the "Query supported entry fields" command might be sent by the PP under test. If so, the test equipment shall send back a "Query supported entry fields confirm" with the list of supported entry fields in accordance with the fields defined in the lists content for PP tests (see Clause 4.1.1.1).
- When testing the PP, entries can be displayed one by one or several together depending on display capabilities of the tested IUT.
- When closing the list access, the "end session" command might not be sent by the PP under test. If so, the test case shall not fail. In case that "end session" is received from IUT, the test equipment shall acknowledge it by sending the "end session confirm" command.
- Each time a 'Read entries' command is specified in a test, either as condition for a stimulus, or as pass criterion, the tester shall allow that a 'Search entries' be used instead (and answer with a 'Search entries confirm'). Both command types may be interleaved in the same use case. This includes:
 - pure 'reading' use cases: TC_PT_NG1.N.16_BV_1701, 1702, 1703, 1704, 1705, 1801, 1802, 1803, 1901, 1902, 1903, 1904, 2001, 2002, 2003, 2101, 2102, 2103, 2105, 2106, 2110, 2201, 2202, 2301, 2302, 2303, 2601, 2602, 2603, 2604, 2605, 2606 and TC_PT_NG1.N.21_BV_401.
 - and 'reading plus editing' use cases: TC_PT_NG1.N.16_BV_2104, 2203, 2204, 2701, 2801, 2901, 2902, 3001, 3801, 4002, 4101, 4201, 4301, 4401, 4501, 4601, 4701, 4702, 4801, 4802, 4901, 4902, 5001, 5002, and 5101.

Test equipment implementation requirements for 'DECT system settings list' and 'list of supported lists'

- For the "DECT system settings list", each time a 'Read entries' command is specified in a test, either as condition for a stimulus, or as pass criterion, the tester shall allow that this command is omitted by the PT. Only for this list, the PT may use directly the 'Edit entries' without prior 'Read entries' command.
- For the "DECT system settings list" and the "list of supported lists", IUT should use a 'Number of sorting fields' value of '0' in the 'start session' command (not tested). The test equipment shall use a 'Number of sorting fields' value of '0' in the 'start session confirm'.
 - This includes test cases where the "DECT system settings list" is used by IUT for PIN checking purpose only (if the 'internal names list' or 'line settings list' is accessed; this may happen even if the test case does not include any PIN protected field modification).

NOTE 1: The 'internal names list' may be accessed by IUT in internal call test cases (see Clause 6.24).

Test equipment implementation requirements for call lists and contact lists

Multiple instances of the 'contact number' field in the contact list (see also TS 102 527-3 [14], Clause 7.4.10.1, 'Field instances management' clause)

- In TC_PT_NG1.N.16_BV_2101 to TC_PT_NG1.N.16_BV_2110, when reading or editing a contact list entry
 - The IUT may include the 'Contact number' field id any number of times in the request, depending on the number of requested contact numbers (including 0 times if the field is not requested). If the number of field id occurrences exceeds the number of supported instances (2), the test equipment shall ignore the exceeding occurrences.
 - The test equipment shall answer with *at most* the requested number of contact number instances. At least one contact number instance shall be sent by the test equipment (this instance shall be empty if there is no contact number available; there shall be no empty instance in any other case)
 - If a further save is done by the IUT for this entry (i.e. the previous request was an 'edit'),
 - The IUT shall include at least all contact number instances received during the previous edit (possibly modified, or empty in order to request removal of the contact; see below).
 - The IUT may include additional contact numbers, provided that the total number of contact numbers included (received + additional) does not exceed the number of contact numbers requested during the previous edit.
 - The IUT may replace a received contact number with an empty instance (instance with length = 1) thus indicating to the test equipment that the contact number is to be removed. The test equipment shall not keep the empty instance, but discard the corresponding contact number instead.
- Minimum display requirements on IUT. If a pass criterion of the test case on PT side concerns the content of the display of the IUT the following remarks apply:
 - When reading the contact list, the IUT shall display at least the 'Name' field and 'Contact number' fields (at least contact number 1). The IUT may display additionally contact number 2 (especially if declared in Clause A.1.2 item PT_IXIT_1)
 - When reading an entry of the 'all calls list', the IUT shall display at least the 'Number' or 'Name' field and 'Date and Time' fields.
 - When reading an entry of any other calls list, the IUT shall display at least the 'Number' or 'Name' field and 'Date and Time' fields.
 - Display of all other fields on IUT is recommended but not mandatory
- Flexibility in terms of 'read entries'/'search entries' command. For test cases where the IUT accesses a list via 'read entries'/'search entries' command, the test case shall allow several implementations of the IUT:
 - A given 'Read entries' or 'Search entries' command issued by IUT may read only some of the fields of the list
 - Several 'Read entries' or 'Search entries' commands may be used by IUT for the same entries (e.g. Reading of some of the fields in one 'read entries' command and the other fields in an other 'read entries' command).

Handling of the line name and line id fields in list access in test cases

Although not mentioned in all test cases, the line name and line id fields shall be handled correctly:

- IUT behaviour:
 - The IUT may handle or not a line name and line id fields in the call lists, contact lists and line settings list.

- Test equipment requirements:
 - The test equipment shall support both implementations of the IUT. For the contact list, if the IUT does not save the "line id" field when an entry is created, test equipment shall set the default value "All lines".
 - For Call lists: the test equipment shall implement and handle correctly "line name" and "line id" fields.
 - For Line settings list: the test equipment shall implement and handle correctly "line name" and "line id" fields.
 - For Contact list: the test equipment shall implement and handle correctly "line id" field.
 - Initial content of the various lists including line id values are defined in 4.1.1.1 list contents for test.
 - The test equipment shall use and check the following codings of the "line id" field:
 - For calls lists: the line identifier field sub type shall be "line identifier for external calls". Additionally the value "None" is not allowed.
 - For Line settings list, the list identifier sub type shall be "relating to".
 - For Contact list, the list identifier sub type shall be "relating to" or "All lines" values a specified in TS 102 527-3 [14], Clause 7.4.10.5.1.7.

Test equipment implementation requirements for PIN protected lists (DECT system setting, Line setting, or Internal names)

- The test equipment shall support the PIN checking when requested by the IUT to the user. In other word the test equipment shall support 'edit entries' and 'save entry' commands on the 'current PIN code' field. This request may occur at any time before starting or when accessing DECT system setting list, Line setting list, or Internal names list, even if non-protected fields are read or edited by the IUT. This is relevant at least in the following test cases:
- Internal names list test cases: TC_PT_NG1.N.16_BV_2201, 2202, 2203, 2204.
- DECT system setting list test cases: TC_PT_NG1.N.16_BV_2401, 2701, 2801, 2901, 3001, 3501.
- Line setting list test cases: TC_PT_NG1.N.16_BV_2501, 3801, 4101, 4201, 4301, 4401, 4501, 4601, 4701, 4702, 4801, 4802, 4901, 4902, 5001, 5002, 5101.
- Internal call test cases: TC_PT_GAP.N.31_BV_101.

NOTE 2: For other test cases where PIN protected fields are modified, PIN checking is definitely necessary on IUT and will be checked by the test equipment (see dedicated comment in related test cases).

Declarations (see Annex A):

- Following procedures are optional or conditional so the manufacturer shall declare if they are supported:
 - NG1.N.16_2 "List change notification".
 - NG1.N.16_4 "Query supported entry fields".
 - NG1.N.16_16 "List of supported lists".
 - NG1.N.16_18 "Outgoing calls list".
 - NG1.N.16_20 "All calls list".
 - NG1.N.16_23 "All incoming calls list".
 - NG1.N.16_26 "Virtual contact list and call list per line".
 - NG1.N.16_30 "FP IP address/type".
 - NG1.N.16_31 "FP IP address/value".
 - NG1.N.16_32 "FP IP address/subnet mask".

- NG1.N.16_33 "FP IP address/gateway".
- NG1.N.16_34 "FP IP address/DNS server".
- NG1.N.16_37 "FP version/Hardware version".
- NG1.N.16_41 "Dialling prefix".
- NG1.N.16_42 "FP melody".
- NG1.N.16_43 "FP volume".
- NG1.N.16_44 "Blocked number".
- NG1.N.16_46 "Intrusion call".
- NG1.N.16_47 "Permanent CLIR".
- NG1.N.16_51 "Emission mode".
- The manufacturer shall declare the support of several 'contact number' fields in one entry of the contact list. (see Annex A, Table A.2).
- When the following Line settings list fields are supported, the manufacturer shall declare if the associated 'code' subfields can be edited (see Annex A, Table A.2):
 - Field 'Permanent CLIR': 'CLIR activation code' and 'CLIR deactivation code' subfields.
 - Field 'Call forwarding unconditional': 'CFU activation code' and 'CFU deactivation code' subfields.
 - Field 'Call forwarding on No Answer': 'CFNA activation code' and 'CFNA deactivation code' subfields.
 - Field 'Call forwarding on Busy subscriber': 'CFB activation code' and 'CFB deactivation code' subfields.

TC_PT_NG1.N.16_BV_1701	Missed calls list - Read entries - Initiate an external call
Reference:	TS 102 527-3 [14], Clause 7.4.10.5.3
Initial condition:	Missed calls test list content (see Clause 4.1.1.1.2)
	FP does not implement the NG1.N.16_26 "Virtual contact list and call list per line"
	procedure
	T-00
Stimulus:	Open the Missed calls list from IUT
Curraido.	2. Send a {CC-CALL-PROC} message from TS_1 with an IE < <codec-list>> set</codec-list>
	to G.722
	3. Send a <start confirm,="" discriminator="" id="1," nb="10," nb<="" session="" td="" total="" type="0,"></start>
	of sorting fields =1,sorting field id1 =3> from TS_1
	4. For each <read entries=""> received, send a <read confirm,="" entries="" id="1" session=""></read></read>
	from TS_1, followed by <data data="" last="" packet=""> with the number i of</data>
	requested entries from s start index
	Browse into the list on IUT from the newest call to the oldest one
	5. For each <read entries=""> received, send a <read confirm,="" entries="" id="1" session=""></read></read>
	from TS_1, followed by <data data="" last="" packet=""> with the number i of</data>
	requested entries from s start index
	Browse into the list on IUT from the oldest call to the newest one
	6. Phone back "VAN DER VYNC" entry (entry can be selected using the number
	"0247413706")
	7. Send a {CC-CONNECT} message from TS_1
	Send a {CC-INFO} message with IE < <call-information>> specifying (line 0,</call-information>
	full VoIP line type information, call id a) = $<(0, 0, 0), (0, 5, 1), (1, 0, value a)>$ from
	TS_1
	Send a {CC-INFO} message with IE < <call-information>> specifying (call id</call-information>
	a, CS call proc) =<(1, 0, value a), (2, 1, 3)> from TS_1
	Send a {CC-INFO} message with IE < <call-information>> specifying (call id</call-information>
	a, CS call alerting) =<(1, 0, value a), (2, 1, 4)> from TS_1
	Send a {CC-INFO} message with IE < <call-information>> specifying (call id</call-information>
	a, CS call connect) =<(1, 0, value a), (2, 1, 5)> from TS_1
	8. Hang up on IUT
	9. Send a {CC-RELEASE-COM} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <basic-service <lia="" =="" default="" service="" setup,="" setup<="" speech="" td="" wideband=""></basic-service>
	attributes> >>
	2. Verify that the IUT sends to TS_1 a <start identifier="01H," list="" nb="" of<="" session,="" td=""></start>
	sorting fields = n (n ≥ 0) followed by n sorting field identifiers among 01H, 02H,
	03H, 04H, 05H, 06H, 07H >
	3. Verify that the IUT sends to TS_1 a <read entries,="" id="1," index="s,</td" session="" start=""></read>
	counter= i, list entry field identifier 1n = some or all identifiers among 01H, 02H,
	03H, 04H, 05H, 06H, 07H>
	4. For each entry read, verify that entry content is displayed on IUT in the correct
	sequence from the newest call to the oldest one
	5. For each entry read, verify that entry content is displayed on IUT in the correct
	sequence from the oldest call to the newest one
	6. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
	< <multi-keypad>> set to 1CH 15H digits together with "0247413706" digits,</multi-keypad>
	and IE < <call-information>> specifying (line 0, line 1, line 2 or None) =<(0,</call-information>
	0, 0 or 1 or 2 or 127)>
	7. Verify end-to-end U-plane connection between IUT and TS_1
	8. Verify that the IUT sends to TS_1 a {CC-RELEASE} message
	o. Volly that the for solids to To_T a too-NELEAGE; message

TC_PT_NG1.N.16_BV_1702	Missed calls list - Delete entry
Reference:	TS 102 527-3 [14], Clause 7.4.10.5.3
Initial condition:	Missed calls test list content (see Clause 4.1.1.1.2)
	FP does not implement the NG1.N.16_26 "Virtual contact list and call list per line"
	procedure
	T-00
Stimulus:	Open the Missed calls list from IUT
	2. Send {CC-CALL-PROC} message from TS_1
	3. Send a <start confirm,="" discriminator="" field="" fields="1,sorting" id="2," id1="3" nb="" of="" session="" sorting="" total="" type="0,"> from TS_1</start>
	4. For each <read entries=""> received, send a <read confirm,="" entries="" id="2" session=""></read></read>
	from TS_1, followed by <data data="" last="" packet=""> with the number i of</data>
	requested entries from s start index
	Browse into the list on IUT
	5. Delete "M.UWE" entry (entry can be selected using the number "008989945270")
	6. Send a <delete available="" confirm,="" entries="9" entry="" id="2," nb="" of="" session="" total=""> from TS_1</delete>
	Close the list access service from IUT
	7. If <end session=""> received then send <end confirm,="" id="2" session=""> from</end></end>
	TS_1
	Send a {CC-RELEASE-COM} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <basic-service <lia="" =="" default="" service="" setup,="" setup<="" speech="" td="" wideband=""></basic-service>
	attributes>>>
	 Verify that the IUT sends to TS_1 a <start (n="" 0)="" 01h,="" 02h,="" 03h,="" 04h,="" 05h,="" 06h,="" 07h="" among="" by="" field="" fields="n" followed="" identifier="01H," identifiers="" list="" n="" nb="" of="" session,="" sorting="" ≥=""></start>
	3. Verify that the IUT sends to TS_1 a <read entries,="" id="2," index="s,</td" session="" start=""></read>
	direction=0, counter= i, mark entries request= (00H, 7FH, or FFH), list entry field
	identifier 1n = some or all identifiers among 01H, 02H, 03H, 04H, 05H, 06H,
	07H>
	4. For each entry read, verify that entry content is displayed on IUT
	5. Verify that the IUT sends to TS_1 a <delete entry="" entry,="" id="2," identifier="</td" session=""></delete>
	identifier value of "M.UWE" entry >
	6. Verify that the IUT sends to TS_1, optionally a <end id="2" session="" session,="">, and a</end>
	{CC-RELEASE} message
Comments:	Some IUT may open the contact list to display the name from the contact list
	Some IUT may send a READ entries command after deletion of one entry
	, , , , , , , , , , , , , , , , , , , ,

TC_PT_NG1.N.16_BV_1703	Missed calls list - Delete list - Read entries when empty
Reference:	TS 102 527-3 [14], Clause 7.4.10.5.3
Initial condition:	Missed calls test list content (see Clause 4.1.1.1.2)
	FP does not implement the NG1.N.16 26 "Virtual contact list and call list per line"
	procedure
	T-00
Stimulus:	1. Open the Missed calls list from IUT
Stimulus.	l l
	, 5 =
	3. Send a <start confirm,="" discriminator="" id="3," nb="10," nb<="" session="" td="" total="" type="0,"></start>
	of sorting fields =1,sorting field id1 =3> from TS_1
	4. For each <read entries=""> received, send a <read confirm,="" entries="" id="3" session=""></read></read>
	from TS_1, followed by <data data="" last="" packet=""> with the number i of</data>
	requested entries
	5. Delete the list
	6. Send a <delete confirm,="" id="3" list="" session=""> from TS_1</delete>
	Close the list access service from IUT
	7. If <end session=""> received then send <end confirm,="" id="3" session=""> from</end></end>
	TS_1
	Send a {CC-RELEASE-COM} message from TS_1
	Open the Missed calls list from IUT
	8. Send a {CC-CALL-PROC} message from TS_1, followed by a <start session<="" td=""></start>
	confirm, session id=4, total nb=0, discriminator type=0, nb of sorting fields
	=1,sorting field id1 =3>
	9. Close the list access service from IUT
	10. If <end session=""> received then send <end confirm,="" id="4" session=""> from</end></end>
	TS_1
	Send a {CC-RELEASE-COM} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <basic-service <lia="" =="" default="" service="" setup,="" setup<="" speech="" td="" wideband=""></basic-service>
	attributes>>>
	2. Verify that the IUT sends to TS_1 a <start identifier="01H," list="" nb="" of<="" session,="" td=""></start>
	sorting fields =n (n \geq 0) followed by n sorting field identifiers among 01H, 02H,
	03H, 04H, 05H, 06H, 07H >
	3. Verify that the IUT sends to TS_1 a <read entries,="" id="3," index="s,</td" session="" start=""></read>
	direction=0, counter= i, mark entries request= (00H, 7FH, or FFH), list entry field
	identifier 1n = some or all identifiers among 01H, 02H, 03H, 04H, 05H, 06H,
	07H>
	4. For each entry read, verify that entry content is displayed on IUT
	5. Verify that the IUT sends to TS_1 a < Delete list, session id=3>
	6. Verify that the IUT sends to TS_1, optionally a <end id="3" session="" session,="">, and a</end>
	{CC-RELEASE} message
	7. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	<= Note that the for series to 15_1 a {cc-5E10F} message with te <= BASIC-SERVICE = <lia default="" service="" setup,="" setup<="" speech="" td="" wideband=""></lia>
	1,
	attributes>>> followed by a <start identifier="01H," list="" nb="" of="" session,="" sorting<="" td=""></start>
	fields =n (n ≥ 0) followed by n sorting field identifiers among 01H, 02H, 03H, 04H,
	05H, 06H, 07H >
	8. Verify that IUT indicates that the list is empty
	9. Verify that the IUT sends to TS_1, optionally a <end id="4" session="" session,="">, and a</end>
	{CC-RELEASE} message

TC_PT_NG1.N.16_BV_1704	Missed calls list - Transfer number from missed calls list to contact list
Reference:	TS 102 527-3 [14], Clause 7.4.10.5.3
Initial condition:	Missed calls test list content (see Clause 4.1.1.1.2)
	FP does not implement the NG1.N.16_26 "Virtual contact list and call list per line"
	procedure
	T-00
Stimulus:	Open the Missed calls list from IUT
	2. Send {CC-CALL-PROC} message from TS_1
	3. Send a <start confirm,="" discriminator="" id="4," nb="10," nb<="" session="" td="" total="" type="0,"></start>
	of sorting fields =1,sorting field id1 =3> from TS_1
	4. Send a <read confirm,="" entries="" id="4" session=""> from TS_1, followed by <data< td=""></data<></read>
	packet/data packet last> with the number i of requested entries
	5. Select "JENDREZEJZAK" entry to save it in the contact list (entry can be selected
	using the number "497312456897")
	6. Send a <start confirm,="" discriminator="" id="5," nb="10," nb<="" session="" td="" total="" type="0,"></start>
	of sorting fields =1,sorting field id1 =1> from TS_1
	7. Send a <save confirm,="" entry="" id="5," identifier="identifier" of<="" session="" td="" value=""></save>
	created entry, position index=4, total nb of available entries= 11> from TS_1
	Close the list access service from IUT
	8. If <end session=""> received then send <end confirm,="" id="5" session=""> and</end></end>
	<end confirm,="" id="4" session=""> from TS_1</end>
	Send a {CC-RELEASE-COM} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <basic-service <lia="" =="" default="" service="" setup,="" setup<="" speech="" td="" wideband=""></basic-service>
	attributes> >>
	2. Verify that the IUT sends to TS_1 a <start identifier="01H," list="" nb="" of<="" session,="" td=""></start>
	sorting fields =n (n ≥ 0) followed by n sorting field identifiers among 01H, 02H,
	03H, 04H, 05H, 06H, 07H >
	3. Verify that the IUT sends to TS_1 a <read entries,="" id="4," index="s,</td" session="" start=""></read>
	direction=0, counter= i, mark entries request= (00H, 7FH, or FFH), list entry field
	identifier 1n = some or all identifiers among 01H, 02H, 03H, 04H, 05H, 06H,
	07H>
	4. Verify that "JENDREZEJZAK" entry content is displayed on IUT
	5. Verify that the IUT sends to TS_1 a <start identifier="05H," list="" nb="" of<="" session,="" td=""></start>
	sorting fields =n (n ≥ 0) followed by n sorting field identifiers among 01H, 02H,
	03H, 05H >
	6. Verify that the IUT sends to TS_1 a <save entry,="" entry<="" id="5," session="" td=""></save>
	identifier=00H> followed by <data data="" last="" packet=""> set to (Name=</data>
	JENDREZEJZAK, First name= null or possible edited value, Contact number1 =
	"497312456897") and optionally (Associated melody= one octet value)
	Additionally, if a "Line Id" field is included, verify that its value is one of the
	following:
	- (3, 0) 'Related to' with line id 0
	- (3, 1) 'Related to' with line id 1
	- (4) "All lines"
	7. Verify that the IUT sends to TS_1, optionally a <end id="5" session="" session,=""> and a</end>
Comments:	<end id="4" session="" session,="">, and a {CC-RELEASE} message After selecting the "IENDREZE IZAK" entry in stimulus step 5, some ILIT can re-read the</end>
Comments.	After selecting the "JENDREZEJZAK" entry in stimulus step 5, some IUT can re-read the
	entry Some II IT can release the missed call list session before establishing the contact list
	Some IUT can release the missed call list session before establishing the contact list
	Session
	IUT may handle the optional field identifier 04H (associated melody) in contact list
	entries ('start session', 'read entries' and 'save entry' commands of the current test
	case). Test case shall not fail because of this

TC_PT_NG1.N.16_BV_1705	Missed calls list - Incoming first voice call during existing list access session
Reference:	TS 102 527-3 [14], Clause 7.4.10.6.3
Initial condition:	Missed calls test list content (see Clause 4.1.1.1.2) T-00
Stimulus:	 Open the Missed calls list from IUT Send {CC-CALL-PROC} message from TS_1 Send a <start confirm,="" discriminator="" field="" fields="1,sorting" id="4," id1="3" nb="" of="" session="" sorting="" total="" type="0,"> from TS_1</start>
	 For each <read entries=""> received, send a <read confirm,="" entries="" id="4" session=""> from TS_1, followed by <data data="" last="" packet=""> with the number i of requested entries</data></read></read>
	5. Send a {CC-CONNECT} message from TS_1 followed by a {CC-INFO} message from TS_1 with IE < <signal>> with the value 07H indicating 'call waiting tone on', and IE <<call-information>> specifying (line 0, full VoIP line type information, call id a, CS call setup) =<(0, 0, 0), (0, 5, 1), (1, 0, value a), (2, 1, 1)>, followed by a {CC-INFO} message from TS_1 with IE <<calling '44123456789'="" number="<International" number,="" party="" unknown,=""> >> and IE <<call-information>> specifying (call id a) =<(1, 0, value a)></call-information></calling></call-information></signal>
	6. If <end session=""> received then send <end confirm,="" id="4" session=""> from TS_1 Accept incoming call from IUT</end></end>
	7. Sends a {CC-INFO} message from TS_1 with IE < <call-information>> specifying (call id a, CS call connect) =<(1, 0, value a), (2, 1, 5)></call-information>
	8. Hang up on IUT
	9. Send a {CC-RELEASE-COM} message from TS_1
Pass criteria:	Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE < <basic-service <lia="" =="" attributes="" default="" service="" setup="" setup,="" speech="" wideband=""> >></basic-service>
	 Verify that the IUT sends to TS_1 a <start identifier="01H," list="" nb="" of<br="" session,="">sorting fields =n (n ≥ 0) followed by n sorting field identifiers among 01H, 02H, 03H, 04H, 05H, 06H, 07H ></start>
	3. Verify that the IUT sends to TS_1 a <read 01h,="" 02h,="" 03h,="" 04h,="" 05h,="" 06h,="" 07h="" 1n="some" 7fh,="" all="" among="" counter="i," direction="0," entries="" entries,="" entry="" ffh),="" field="" id="4," identifier="" identifiers="" index="s," list="" mark="" or="" request="(00H," session="" start=""></read>
	 Verify that some entries are displayed on the IUT (no entry displayed also allowed in case IUT has no time to display).
	 Verify that the IUT presents the incoming call to the user: either by indicating the call waiting to the receiving user (generating a call waiting tone and stopping the generation by itself)
	 or by ringing as for an incoming first call (and then stop the ringing by itself) Verify CLIP presentation on IUT display according to its display capabilities Verify that the IUT sends to TS_1 a {CC-INFO} message with IE <<multi-keypad>> set to (1CH, 35H) digits and with IE <<call-information>> specifying (call id a) =<(1, 0, value a)></call-information></multi-keypad>
	 Verify end-to-end U-plane connection between IUT and TS_1 Verify that the IUT sends to TS_1 a {CC-RELEASE} message
Comments:	The IUT may send Read entries command for pass criteria 3 more than one time

sequence from the newest call to the oldest one

sequence from the oldest call to the newest one

0, 0 or 1 or 2 or 127)>

For each entry read, verify that entry content is displayed on IUT in the correct

For each entry read, verify that entry content is displayed on IUT in the correct

<<MULTI-KEYPAD>> set to 1CH 15H digits together with "02298951214" digits, and IE <<CALL-INFORMATION>> specifying (line 0, line 1, line 2 or None) =<(0,

Verify that the IUT sends to TS_1 a {CC-INFO} message with IE

Verify end-to-end U-plane connection between IUT and TS_1 Verify that the IUT sends to TS_1 a {CC-RELEASE} message

4.

5.

6.

TC_PT_NG1.N.16_BV_1802	Outgoing calls list - Delete entry
Reference:	TS 102 527-3 [14], Clause 7.4.10.5.4
Initial condition:	Outgoing calls test list content (see Clause 4.1.1.1.3)
	FP does not implement the NG1.N.16_26 "Virtual contact list and call list per line"
	procedure
	T-00
Stimulus:	Open the Outgoing calls list from IUT
	2. Send {CC-CALL-PROC} message from TS_1
	3. Send a <start confirm,="" discriminator="" id="2," nb="10," nb<="" session="" td="" total="" type="0,"></start>
	of sorting fields =1,sorting field id1 =3> from TS_1
	4. For each <read entries=""> received, send a <read confirm,="" entries="" id="2" session=""></read></read>
	from TS_1, followed by <data data="" last="" packet=""> with the number i of requested entries from s start index</data>
	Browse into the list on IUT
	5. Delete "C.ALEXANDER" entry (entry can be selected using the number
	"00449876543210")
	6. Send a <delete available="" confirm,="" entries="9" entry="" id="2," nb="" of="" session="" total=""> from</delete>
	TS 1
	Close the list access service from IUT
	7. If <end session=""> received then send <end confirm,="" id="2" session=""> from</end></end>
	TS_1
	Send a {CC-RELEASE-COM} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <basic-service <lia="" =="" default="" service="" setup,="" setup<="" speech="" td="" wideband=""></basic-service>
	attributes> >>
	2. Verify that the IUT sends to TS_1 a <start identifier="02H," list="" nb="" of<="" session,="" td=""></start>
	sorting fields =n (n ≥ 0) followed by n sorting field identifiers among 01H, 02H,
	03H, 04H, 05H >
	3. Verify that the IUT sends to TS_1 a <read entries,="" id="2," index="s,</td" session="" start=""></read>
	direction=0, counter= i, mark entries request= do not care value, list entry field identifier 1n = some or all identifiers among 01H, 02H, 03H, 04H, 05H >
	 For each entry read, verify that entry content is displayed on IUT Verify that the IUT sends to TS_1 a <delete entry="" entry,="" id="2," identifier="</li" session=""> </delete>
	identifier value of "C.ALEXANDER" entry >
	6. Verify that the IUT sends to TS_1, optionally a <end id="2" session="" session,="">, and a</end>
	{CC-RELEASE} message
Comments:	Some IUT may send a READ entries command after deletion of one entry
	, , , , , , , , , , , , , , , , , , , ,

	Outgoing calls list - Delete list - Read entries when empty
Reference: T	S 102 527-3 [14], Clause 7.4.10.5.4
	Outgoing calls list content (see Clause 4.1.1.1.3)
F	P does not implement the NG1.N.16_26 "Virtual contact list and call list per line"
p	rocedure
T	T-00
Stimulus: 1	. Open the Outgoing calls list from IUT
2	
3	 Send a <start confirm,="" discriminator="" field="" fields="1,sorting" id="3," id1="3" nb="" of="" session="" sorting="" total="" type="0,"> from TS_1</start>
4	
	from TS_1, followed by <data data="" last="" packet=""> with the number i of</data>
	requested entries
5	·
6	
	Close the list access service from IUT
7	'. If <end session=""> received then send <end confirm,="" id="3" session=""> from</end></end>
	TS 1
	Send a {CC-RELEASE-COM} message from TS_1
	Open the Outgoing calls list from IUT
8	i o o
9	· · · · · · · · · · · · · · · · · · ·
	of sorting fields =1,sorting field id1 =3> from TS_1
	Close the list access service from IUT
1	 If <end session=""> received then send <end confirm,="" id="4" session=""> from TS_1</end></end>
	Send a {CC-RELEASE-COM} message from TS_1
Pass criteria: 1	
	< <basic-service <lia="" =="" default="" service="" setup,="" setup<="" speech="" td="" wideband=""></basic-service>
	attributes>>>
2	
	sorting fields =n (n ≥ 0) followed by n sorting field identifiers among 01H, 02H,
	03H, 04H, 05H >
3	, ,
	direction=0, counter= i, mark entries request= do not care value, list entry field
	identifier 1n = some or all identifiers among 01H, 02H, 03H, 04H, 05H >
4	
5	
6	i. Verify that the IUT sends to TS_1, optionally a <end id="3" session="" session,="">, and a</end>
	{CC-RELEASE} message
7	
	< <basic-service <lia="" =="" default="" service="" setup,="" setup<="" speech="" td="" wideband=""></basic-service>
	attributes> >>
	sorting fields =n (n \geq 0) followed by n sorting field identifiers among 01H, 02H,
	03H, 04H, 05H >
9	' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
1	0. Verify that the IUT sends to TS_1, optionally a <end id="4" session="" session,="">, and a</end>
	{CC-RELEASE} message

- identifier 1..n = some or all identifiers among 01H, 02H, 03H, 04H, 05H >
- 4. For each entry read, verify that entry content is displayed on IUT in the correct sequence from the newest call to the oldest one
- 5. For each entry read, verify that entry content is displayed on IUT in the correct sequence from the oldest call to the newest one
- 6. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE <<MULTI-KEYPAD>> set to 1CH 15H digits together with "00550123456789" digits, and IE <<CALL-INFORMATION>> specifying (line 0, line 1, line 2 or None) =<(0, 0, 0 or 1 or 2 or 127)>
- Verify end-to-end U-plane connection between IUT and TS_1
- Verify that the IUT sends to TS_1 a {CC-RELEASE} message

ETSI

TC_PT_NG1.N.16_BV_1902	Incoming accepted calls list - Delete entry
Reference:	TS 102 527-3 [14], Clause 7.4.10.5.5
Initial condition:	Incoming accepted calls test list content (see Clause 4.1.1.1.4)
	FP does not implement the NG1.N.16_26 "Virtual contact list and call list per line"
	procedure
	T-00
Stimulus:	Open the Incoming accepted calls list from IUT
	2. Send (CC-CALL-PROC) message from TS_1
	 Send a <start confirm,="" discriminator="" id="2," nb="10," nb<br="" session="" total="" type="0,">of sorting fields =1,sorting field id1 =3> from TS_1</start>
	4. For each <read entries=""> received, send a <read confirm,="" entries="" id="2" session=""></read></read>
	from TS_1, followed by <data data="" last="" packet=""> with the number i of</data>
	requested entries from s start index
	Browse into the list on IUT
	5. Delete "D.LE BRAZ" entry (entry can be selected using the number "0425960406")
	6. Send a < Delete entry confirm, session id=2, total nb of available entries = 9> from
	TS_1
	Close the list access service from IUT
	7. If <end session=""> received then send <end confirm,="" id="2" session=""> from</end></end>
	TS_1
	Send a {CC-RELEASE-COM} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <basic-service <lia="" =="" default="" service="" setup,="" setup<="" speech="" td="" wideband=""></basic-service>
	attributes> >>
	2. Verify that the IUT sends to TS_1 a <start identifier="03H," list="" nb="" of<="" session,="" td=""></start>
	sorting fields =n (n ≥ 0) followed by n sorting field identifiers among 01H, 02H,
	03H, 04H, 05H >
	3. Verify that the IUT sends to TS_1 a <read entries,="" id="2," index="s,</td" session="" start=""></read>
	direction=0, counter= i, mark entries request= do not care value, list entry field
	identifier 1n = some or all identifiers among 01H, 02H, 03H, 04H, 05H >
	4. For each entry read, verify that entry content is displayed on IUT
	 Verify that the IUT sends to TS_1 a <delete entry="" entry,="" id="2," identifier="<br" session="">identifier value of "D.LE BRAZ" entry ></delete>
	6. Verify that the IUT sends to TS_1, optionally a <end id="2" session="" session,="">, and a</end>
	{CC-RELEASE} message
Comments:	Some IUT may send a READ entries command after deletion of one entry
Comments.	Come for may send a NEAD entires command after deletion of one entry

TC_PT_NG1.N.16_BV_1903	Incoming accepted calls list - Delete list - Read entries when empty
Reference:	TS 102 527-3 [14], Clause 7.4.10.5.5
Initial condition:	Incoming accepted calls list content (see Clause 4.1.1.1.4)
	FP does not implement the NG1.N.16_26 "Virtual contact list and call list per line"
	procedure
	T-00
Stimulus:	
Stiffdids.	 Open the Incoming accepted calls list from IUT Send {CC-CALL-PROC} message from TS_1
	, , , , , , , , , , , , , , , , , , , ,
	3. Send a <start confirm,="" discriminator="" id="3," nb="10," nb<="" session="" td="" total="" type="0,"></start>
	of sorting fields =1,sorting field id1 =3> from TS_1
	4. For each <read entries=""> received, send a <read confirm,="" entries="" id="3" session=""></read></read>
	from TS_1, followed by <data data="" last="" packet=""> with the number i of</data>
	requested entries
	5. Delete the list
	6. Send a <delete confirm,="" id="3" list="" session=""> from TS_1</delete>
	Close the list access service from IUT
	7. If <end session=""> received then send <end confirm,="" id="3" session=""> from</end></end>
	TS_1
	Send a {CC-RELEASE-COM} message from TS_1
	Open the Incoming accepted calls list from IUT
	8. Send (CC-CALL-PROC) message from TS_1
	9. Send a <start confirm,="" discriminator="" id="4," nb="0," nb<="" session="" td="" total="" type="0,"></start>
	of sorting fields =1,sorting field id1 =3>
	10. Close the list access service from IUT
	11. If <end session=""> received then send <end confirm,="" id="4" session=""> from</end></end>
	TS_1
	Send a {CC-RELEASE-COM} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <basic-service <lia="" =="" default="" service="" setup,="" setup<="" speech="" td="" wideband=""></basic-service>
	attributes>>>
	2. Verify that the IUT sends to TS_1 a <start identifier="03H," list="" nb="" of<="" session,="" td=""></start>
	sorting fields =n (n \geq 0) followed by n sorting field identifiers among 01H, 02H,
	03H, 04H, 05H >
	3. Verify that the IUT sends to TS_1 a <read entries,="" id="3," index="s,</td" session="" start=""></read>
	direction=0, counter= i, mark entries request= do not care value, list entry field
	identifier 1n = some or all identifiers among 01H, 02H, 03H, 04H, 05H >
	4. For each entry read, verify that entry content is displayed on IUT
	5. Verify that the IUT sends to TS_1 a <delete id="3" list,="" session=""></delete>
	6. Verify that the IUT sends to TS_1, optionally a <end id="3" session="" session,="">, and a</end>
	{CC-RELEASE} message
	7. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <basic-service <lia="" =="" default="" service="" setup,="" setup<="" speech="" td="" wideband=""></basic-service>
	attributes>>>
	8. Verify that the IUT sends to TS_1 a <start identifier="03H," list="" nb="" of<="" session,="" td=""></start>
	sorting fields =n (n ≥ 0) followed by n sorting field identifiers among 01H, 02H,
	03H, 04H, 05H >
	9. Verify that IUT indicates that the list is empty
	10. Verify that the IUT sends to TS_1, optionally a <end id="4" session="" session,="">, and a</end>
	{CC-RELEASE} message
	[OO NEELAOL] message

TC_PT_NG1.N.16_BV_1904	Incoming accepted calls list - Transfer number from Incoming accepted calls list to contact list
Reference:	TS 102 527-3 [14], Clause 7.4.10.5.5
Initial condition:	Incoming accepted calls test list content (see Clause 4.1.1.1.4), contact test list content FP does not implement the NG1.N.16_26 "Virtual contact list and call list per line" procedure T-00
Stimulus:	 Open the Incoming accepted calls list from IUT Send a {CC-CALL-PROC} message from TS_1 Send a <start confirm,="" discriminator="" field="" fields="1,sorting" id="4," id1="3" nb="" of="" session="" sorting="" total="" type="0,"> from TS_1</start> Send a <read confirm,="" entries="" id="4" session=""> from TS_1, followed by <data data="" last="" packet=""> with the number i of requested entries</data></read> Select "0308980764" entry to save it in the contact list Send a <start confirm,="" discriminator="" field="" fields="1,sorting" id="5," id1="1" nb="" of="" session="" sorting="" total="" type="0,"> from TS_1</start> Send a <save available="" confirm,="" created="" entries="11" entry="" entry,="" id="5," identifier="identifier" index="p," nb="" of="" position="" session="" total="" value=""> from TS_1 Close the list access service from IUT</save> If <end session=""> received then send <end confirm,="" id="5" session=""> and <end confirm,="" id="4" session=""> from TS_1</end></end></end>
Pass criteria:	 Send a {CC-RELEASE-COM} message from TS_1 Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE <<basic-service <lia="" =="" attributes="" default="" service="" setup="" setup,="" speech="" wideband=""> >></basic-service> Verify that the IUT sends to TS_1 a <start (n="" 0)="" 01h,="" 02h,="" 03h,="" 04h,="" 05h="" among="" by="" field="" fields="n" followed="" identifier="03H," identifiers="" list="" n="" nb="" of="" session,="" sorting="" ≥=""></start> Verify that the IUT sends to TS_1 a <read 01h,="" 02h,="" 03h,="" 04h,="" 05h="" 1n="some" all="" among="" care="" counter="i," direction="0," entries="" entries,="" entry="" field="" id="4," identifier="" identifiers="" index="s," list="" mark="" not="" or="" request="do" session="" start="" value,=""></read> Verify that "0308980764" entry content is displayed on IUT Verify that the IUT sends to TS_1 a <start (n="" 0)="" 01h,="" 02h,="" 03h,="" 05h="" among="" by="" field="" fields="n" followed="" identifier="05H," identifiers="" list="" n="" nb="" of="" session,="" sorting="" ≥=""></start> Verify that the IUT sends to TS_1 a <save entry="" entry,="" id="5," identifier="00H" session=""> followed by <data data="" last="" packet=""> set to (Name= null or possible edited value, First name= null or possible edited value, Contact number1 = "0308980764") and optionally (Associated melody= one octet value)</data></save> Verify that the IUT sends to TS_1, optionally a <end id="5" session="" session,=""> and a <end li="" session.<=""> </end></end></end></end></end>
Comments:	<end id="4" session="" session,="">, and a {CC-RELEASE} message After stimulus step 4, some IUT may ask to edit each field before saving the entry Some IUT can release the Incoming accepted calls list session before establishing the contact list session IUT may also handle the optional field identifier 04H (associated melody) in contact list entries ('start session' or 'save entry' commands of the current test case). Test case shall not fail because of this</end>

96

- <<MULTI-KEYPAD>> set to 1CH 15H digits together with "065000209" digits, and IE <<CALL-INFORMATION>> specifying (line 0, line 1, line 2 or None) =<(0, 0, 0 or 1 or 2 or 127)>
- Verify end-to-end U-plane connection between IUT and TS_1
- Verify that the IUT sends to TS_1 a {CC-RELEASE} message

TC_PT_NG1.N.16_BV_2002	All calls list - Delete entry
Reference:	TS 102 527-3 [14], Clause 7.4.10.5.6
Initial condition:	All calls test list content (see Clause 4.1.1.1.5)
	FP does not implement the NG1.N.16_26 "Virtual contact list and call list per line"
	procedure
	T-00
Stimulus:	Open the All calls list from IUT
	2. Send a {CC-CALL-PROC} message from TS_1
	3. Send a <start confirm,="" discriminator="" field="" fields="1,sorting" id="2," id1="4" nb="" of="" session="" sorting="" total="" type="0,"> from TS_1</start>
	4. For each <read entries=""> received, send a <read confirm,="" entries="" id="2" session=""></read></read>
	from TS_1, followed by <data data="" last="" packet=""> with the number i of</data>
	requested entries from s start index
	Browse into the list on IUT
	5. Delete "VAN DER VYNC" entry (entry can be selected using the number
	"0247413706")
	6. Send a <delete available="" confirm,="" entries="29" entry="" id="2," nb="" of="" session="" total=""></delete>
	from TS_1
	Close the list access service from IUT
	7. If <end session=""> received then send <end confirm,="" id="2" session=""> from TS_1</end></end>
	Send a {CC-RELEASE-COM} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <basic-service <lia="" =="" attributes="" default="" service="" setup="" setup,="" speech="" wideband=""> >></basic-service>
	2. Verify that the IUT sends to TS_1 a <start identifier="04H," list="" nb="" of<="" session,="" td=""></start>
	sorting fields =n (n \geq 0) followed by n sorting field identifiers among 01H, 02H,
	03H, 04H, 05H, 06H >
	3. Verify that the IUT sends to TS_1 a <read entries,="" id="2," index="s,</td" session="" start=""></read>
	direction=0, counter= i, mark entries request= do not care value, list entry field
	identifier 1n = some or all identifiers among 01H, 02H, 03H, 04H, 05H, 06H >
	4. For each entry read, verify that entry content is displayed on IUT
	5. Verify that the IUT sends to TS_1 a <delete entry="" entry,="" id="2," identifier="</td" session=""></delete>
	identifier value of "VAN DER VYNC" entry >
	6. Verify that the IUT sends to TS_1, optionally a <end id="2" session="" session,="">, and a</end>
Commenter	{CC-RELEASE} message
Comments:	Some IUT may send a READ entries command after deletion of one entry

TC_PT_NG1.N.16_BV_2003	All calls list - Delete list - Read entries when empty
Reference:	TS 102 527-3 [14], Clause 7.4.10.5.6
Initial condition:	All calls list content (see Clause 4.1.1.1.5)
	FP does not implement the NG1.N.16_26 "Virtual contact list and call list per line"
	procedure
	T-00
Stimulus:	Open the All calls list from IUT
Otimalas.	2. Send {CC-CALL-PROC} message from TS_1
	3. Send a <start confirm,="" discriminator="" id="3," nb="10," nb<="" session="" td="" total="" type="0,"></start>
	of sorting fields =1,sorting field id1 =4> from TS_1
	4. For each <read entries=""> received, send a <read confirm,="" entries="" id="3" session=""></read></read>
	from TS_1, followed by <data data="" last="" packet=""> with the number i of</data>
	requested entries
	5. Delete the list
	6. Send a <delete confirm,="" id="3" list="" session=""> from TS_1</delete>
	Close the list access service from IUT
	7. If <end session=""> received then send <end confirm,="" id="3" session=""> from</end></end>
	TS_1
	Send a {CC-RELEASE-COM} message from TS_1
	Open the All calls list from IUT
	8. Send a {CC-CALL-PROC} message from TS_1
	9. Send a <start confirm,="" discriminator="" id="4," nb="0," nb<="" session="" td="" total="" type="0,"></start>
	of sorting fields =1,sorting field id1 =3>
	10. Close the list access service from IUT
	11. If <end session=""> received then send <end confirm,="" id="4" session=""> from TS_1</end></end>
	Send a {CC-RELEASE-COM} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <basic-service <lia="" =="" default="" service="" setup,="" setup<="" speech="" td="" wideband=""></basic-service>
	attributes>>>
	2. Verify that the IUT sends to TS_1 a <start identifier="04H," list="" nb="" of<="" session,="" td=""></start>
	sorting fields =n (n \geq 0) followed by n sorting field identifiers among 01H, 02H,
	03H, 04H, 05H, 06H >
	3. Verify that the IUT sends to TS_1 a <read entries,="" id="3," index="s,</td" session="" start=""></read>
	direction=0, counter= i, mark entries request= do not care value, list entry field
	identifier 1n = some or all identifiers among 01H, 02H, 03H, 04H, 05H, 06H >
	4. For each entry read, verify that entry content is displayed on IUT
	5. Verify that the IUT sends to TS_1 a <delete id="3" list,="" session=""></delete>
	6. Verify that the IUT sends to TS_1, optionally a <end id="3" session="" session,="">, and a</end>
	{CC-RELEASE} message
	7. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <basic-service <lia="" =="" default="" service="" setup,="" setup<="" speech="" td="" wideband=""></basic-service>
	attributes>>>
	8. Verify that the IUT sends to TS_1 a <start identifier="04H," list="" nb="" of<="" session,="" td=""></start>
	sorting fields =n (n \geq 0) followed by n sorting field identifiers among 01H, 02H,
	03H, 04H, 05H, 06H >
	9 Verify that IUT indicates that the list is empty
	10. Verify that the IUT sends to TS_1, optionally a <end id="4" session="" session,="">, and a</end>
	{CC-RELEASE} message
	(,,

TC_PT_NG1.N.16_BV_2101	Contact list - Read entries - Initiate an external call
Reference:	TS 102 527-3 [14], Clauses 7.4.10.5.7 and 7.4.10.1, 'Field instances management' entry
Initial condition:	Contact test list content (see Clause 4.1.1.1.6)
	FP does not implement the NG1.N.16_26 "Virtual contact list and call list per line"
	procedure
	T-00
Stimulus:	Open the Contact list from IUT
	2. Send a {CC-CALL-PROC} message from TS_1
	3. Send a <start confirm,="" discriminator="" id="1," nb="10," nb<="" session="" td="" total="" type="0,"></start>
	of sorting fields =1,sorting field id1 =1> from TS_1
	4. For each <read entries=""> received, send a <read confirm,="" entries="" id="1" session=""></read></read>
	from TS_1, followed by <data data="" last="" packet=""> with the number i of</data>
	requested entries from s start index
	Scroll down into the alphabetical list on IUT
	5. For each <read entries=""> received, send a <read confirm,="" entries="" id="1" session=""></read></read>
	from TS_1, followed by <data data="" last="" packet=""> with the number i of</data>
	requested entries from s start index
	Scroll up into the alphabetical list on IUT
	6. Phone back "WOJCIECHOSKI" entry (entry can be selected using the Contact
	number1 "0675000321")
	7. Send a {CC-CONNECT} message from TS_1 with an IE < <codec-list>> set to</codec-list>
	G.722
	Send a {CC-INFO} message with IE < <call-information>> specifying (line 0,</call-information>
	full VoIP line type information, call id a) = $<(0, 0, 0), (0, 5, 1), (1, 0, value a)>$ from
	TS_1
	Send a {CC-INFO} message with IE < <call-information>> specifying (call id a, CS call proc) =<(1, 0, value a), (2, 1, 3)> from TS_1</call-information>
	Send a {CC-INFO} message with IE < <call-information>> specifying (call</call-information>
	id a, CS call alerting) =<(1, 0, value a), (2, 1, 4)> from TS_1
	Send a {CC-INFO} message with IE < <call-information>> specifying (call</call-information>
	id a, CS call connect) =<(1, 0, value a), (2, 1, 5)> from TS_1
	8. Hang up on IUT
	9. Send a {CC-RELEASE-COM} message from TS_1
Pass criteria:	Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <basic-service <lia="" =="" default="" service="" setup,="" setup<="" speech="" td="" wideband=""></basic-service>
	attributes> >>
	2. Verify that the IUT sends to TS_1 a <start identifier="05H," list="" nb="" of<="" session,="" td=""></start>
	sorting fields =n ($n \ge 0$) followed by n sorting field identifiers among 01H, 02H,
	03H, 05H >
	3. Verify that the IUT sends to TS_1 a <read entries,="" id="1," index="s,</td" session="" start=""></read>
	direction=0, counter= i, mark entries request= do not care value, list entry field
	identifier 1n = some or all identifiers among 01H, 02H, 03H, 05H>
	4. After each scrolling event, verify on the IUT's display that the scrolling through the
	entries was performed in the direction of ascending alphanumerical order
	(i.e. from ALEXANDER to WOJCIECHOSKI).
	5. After each scrolling event, verify on the IUT's display that the scrolling through the
	entries was performed in the direction of descending alphanumerical order
	(i.e. from WOJCIECHOSKI to ALEXANDER).
	6. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
	< <multi-keypad>> set to 1CH 15H digits together with "0675000321" digits,</multi-keypad>
	and IE < <call-information>> specifying (line 0, line 1, line 2 or None) =<(0,</call-information>
	0, 0 or 1 or 2 or 127)> 7. Verify end-to-end U-plane connection between IUT and TS_1
	7. Verify end-to-end U-plane connection between IUT and TS_18. Verify that the IUT sends to TS_1 a {CC-RELEASE} message
Comments:	- IUT may also handle the optional field identifier 04H (associated melody) in
Commonts.	contact list entries ('start session' or 'read entries' commands of the current test
	case). Test case shall not fail because of this
	- In pass criterion 3, field id '03'H shall be present at least twice if the
	manufacturer has declared the support of several 'Contact number' fields in the
	contact list on PT side (PT_IXIT_1). See also at the beginning of Clause 6.16,
	"Multiple instances of the 'contact number' field in the contact list" Clause
	manaple instances of the contact number held in the contact list. Clause

TC_PT_NG1.N.16_BV_2102	Contact list - Delete entry
Reference:	TS 102 527-3 [14], Clauses 7.4.10.5.7 and 7.4.10.1, 'Field instances management'
	entry.
Initial condition:	Contact calls test list content (see Clause 4.1.1.1.6)
	FP does not implement the NG1.N.16_26 "Virtual contact list and call list per line"
	procedure
	T-00
Stimulus:	1. Open the Contact list from IUT
	2. Send a {CC-CALL-PROC} message from TS_1
	3. Send a <start confirm,="" discriminator="" field="" fields="1,sorting" id="2," id1="1" nb="" of="" session="" sorting="" total="" type="0,"> from TS_1</start>
	4. For each <read entries=""> received, send a <read confirm,="" entries="" id="2" session=""></read></read>
	from TS_1, followed by <data data="" last="" packet=""> with the number i of requested entries from s start index</data>
	Browse into the list on IUT
	5. Delete "FENJIRO" entry (entry can be selected using the Contact number1 "0490413002")
	6. Send a <delete available="" confirm,="" entries="9" entry="" id="2," nb="" of="" session="" total=""> from TS_1</delete>
	Close the list access service from IUT
	7. If <end session=""> received then send <end confirm,="" id="2" session=""> from</end></end>
	TS_1
	Send a {CC-RELEASE-COM} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <basic-service <lia="" =="" default="" service="" setup,="" setup<="" speech="" td="" wideband=""></basic-service>
	attributes>>>
	 Verify that the IUT sends to TS_1 a <start identifier="05H," list="" nb="" of<br="" session,="">sorting fields =n (n ≥ 0) followed by n sorting field identifiers among 01H, 02H, 03H, 05H ></start>
	3. Verify that the IUT sends to TS_1 a <read entries,="" id="2," index="s,</td" session="" start=""></read>
	direction=0, counter= i, mark entries request= do not care value, list entry field
	identifier 1n = some or all identifiers among 01H, 02H, 03H, 05H >
	4. For each entry read, verify that entry content is displayed on IUT
	5. Verify that the IUT sends to TS_1 a <delete entry="" entry,="" id="2," identifier="</td" session=""></delete>
	identifier value of "FENJIRO" entry >
	6. Verify that the IUT sends to TS_1, optionally a <end id="2" session="" session,="">, and a {CC-RELEASE} message</end>
Comments:	- IUT may also indicate the optional field identifier 04H (associated melody) in
	contact list entries ('start session' or 'read entries' commands of the current test
	case). Test case shall not fail because of this
	- Some IUT may send a READ entries command after deletion of one entry
	- In pass criterion 3, field id '03'H shall be present at least twice if the
	manufacturer has declared the support of several 'Contact number' fields in the
	contact list on PT side (PT_IXIT_1). See also at the beginning of Clause 6.16,
	"Multiple instances of the 'contact number' field in the contact list" Clause

TC_PT_NG1.N.16_BV_2103	Contact list - Delete list - Read entries when empty
Reference:	TS 102 527-3 [14], Clauses 7.4.10.5.7 and 7.4.10.1, 'Field instances management'
	entry.
Initial condition:	Contact list content (see Clause 4.1.1.1.6)
	FP does not implement the NG1.N.16_26 "Virtual contact list and call list per line"
	procedure
0:: 1	T-00
Stimulus:	1. Open the Contact list from IUT
	 Send {CC-CALL-PROC} message from TS_1 Send a <start confirm,="" discriminator="" id="3," li="" nb="10," nb<="" session="" total="" type="0,"> </start>
	of sorting fields =1,sorting field id1 =1> from TS_1
	4. For each <read entries=""> received, send a <read confirm,="" entries="" id="3" session=""></read></read>
	from TS_1, followed by <data data="" last="" packet=""> with the number i of</data>
	requested entries
	5. Delete the Contact list
	6. Send a <delete confirm,="" id="3" list="" session=""> from TS_1</delete>
	Close the list access service from IUT
	7. If <end session=""> received then send <end confirm,="" id="3" session=""> from</end></end>
	TS_1
	Send a {CC-RELEASE-COM} message from TS_1
	Open the Contact list from IUT
	 8. Send {CC-CALL-PROC} message from TS_1 9. Send a <start confirm,="" discriminator="" id="4," li="" nb="0," nb<="" session="" total="" type="0,"> </start>
	 Send a <start confirm,="" discriminator="" id="4," nb="0," nb<br="" session="" total="" type="0,">of sorting fields =1,sorting field id1 =3></start>
	10. Close the list access service from IUT
	11. If <end session=""> received then send <end confirm,="" id="4" session=""> from</end></end>
	TS 1
	Send a {CC-RELEASE-COM} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <basic-service <lia="" =="" default="" service="" setup,="" setup<="" speech="" td="" wideband=""></basic-service>
	attributes> >>
	2. Verify that the IUT sends to TS_1 a <start identifier="05H," list="" nb="" of<="" session,="" td=""></start>
	sorting fields =n (n ≥ 0) followed by n sorting field identifiers among 01H, 02H,
	03H, 05H >
	3. Verify that the IUT sends to TS_1 a <read care="" counter="i," direction="0," entries="" entries,="" entry="" field<="" id="3," index="s," list="" mark="" not="" request="do" session="" start="" td="" value,=""></read>
	identifier 1n = some or all identifiers among 01H, 02H, 03H, 05H >
	4. For each entry read, verify that entry content is displayed on IUT
	5. Verify that the IUT sends to TS_1 a <delete id="3" list,="" session=""></delete>
	6. Verify that the IUT sends to TS_1, optionally a <end id="3" session="" session,="">, and a</end>
	{CC-RELEASE} message
	7. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <basic-service <lia="" =="" default="" service="" setup,="" setup<="" speech="" td="" wideband=""></basic-service>
	attributes>>>
	8. Verify that the IUT sends to TS_1 a <start identifier="05H," list="" nb="" of<="" session,="" td=""></start>
	sorting fields =n (n ≥ 0) followed by n sorting field identifiers among 01H, 02H,
	03H, 05H >
	 9. Verify that IUT indicates that the list is empty 10. Verify that the IUT sends to TS_1, optionally a <end id="4" session="" session,="">, and a</end>
	{CC-RELEASE} message
Comments:	IUT may also handle the optional field identifier 04H (associated melody) in
Comments.	contact list entries ('start session' or 'read entries' commands of the current test
	case). Test case shall not fail because of this
	In pass criterion 3, field id '03'H shall be present at least twice if the manufacturer
	has declared the support of several 'Contact number' fields in the contact list on
	PT side (PT_IXIT_1). See also at the beginning of Clause 6.16, 'Multiple
	instances of the 'contact number' field in the contact list' clause

TC PT NG1.N.16 BV 2104	Contact list - Create entry - Edit entry - Save entry
Reference:	TS 102 527-3 [14], Clauses 7.4.10.5.7 and 7.4.10.1, 'Field instances management'
rtororoe.	entry.
Initial condition:	Contact list content (see Clause 4.1.1.1.6)
initial condition.	FP does not implement the NG1.N.16_26 "Virtual contact list and call list per line"
	procedure
	T-00
Stimulus:	Open the Contact list from IUT
	2. Send a {CC-CALL-PROC} message from TS_1
	3. Send a <start confirm,="" discriminator="" id="3," nb="10," nb<="" session="" td="" total="" type="0,"></start>
	of sorting fields =1,sorting field id1 =1> from TS_1
	4. For each <read entries=""> received, send a <read confirm,="" entries="" id="3" session=""></read></read>
	from TS_1, followed by <data data="" last="" packet=""> with the number i of</data>
	requested entries
	5. Create a new entry on IUT with following fields:
	Name= "ZBERG",
	First name= "PETER",
	Contact number1= "003308123456".
	Optionally:
	Associated melody=a (if field supported by the IUT)
	Line id = Line L or "All lines" (if field supported by the IUT)
	6. If no line Id was specified by the IUT in stimulus 5, store the entry in TS with a
	default Line Id field: subtype = 4 ("All lines"), no identifier value octet defined.
	Otherwise store the line Id supplied by the IUT
	Send a <save confirm,="" entry="" id="3," identifier="v," index="11,</td" position="" session=""></save>
	total nb of available entries= 11>
	Select the "ZBERG" entry and edit it on IUT
	7. Send a <edit confirm,="" entry="" id="3" session=""> followed by <data data="" packet="" packet<="" td=""></data></edit>
	last> with entry content from TS_1
	Modify the entry on IUT to:
	Name= "ZBERG",
	First name= "PETER",
	Contact number1= "06123321".
	If requested by IUT in Edit command:
	Associated melody=a (value received from stimulus 5)
	Line Id = "All lines" or "Relating to" Line L (depending on stimulus 5 and 6)
	8. Send a <save confirm,="" entry="" id="3," identifier="v," index="11,</td" position="" session=""></save>
	total nb of available entries= 11>
	Close the list access service from IUT
	9. If <end session=""> received then send <end confirm,="" id="3" session=""> from</end></end>
	TS_1
	Send a {CC-RELEASE-COM} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <basic-service <lia="" =="" default="" service="" setup,="" setup<="" speech="" td="" wideband=""></basic-service>
	attributes>>>
	 Verify that the IUT sends to TS_1 a <start identifier="05H," list="" nb="" of<br="" session,="">sorting fields = n (n ≥ 0) followed by n sorting field identifiers among 01H, 02H,</start>
	03H, 05H >
	3. Verify that the IUT sends to TS_1 a <read entries,="" id="3," index="s,</td" session="" start=""></read>
	direction=0, counter= i, mark entries request= do not care value, list entry field
	identifier 1n = some or all identifiers among 01H, 02H, 03H, 05H >
	4. For each entry read, verify that entry content is displayed on IUT
	5. Verify that the IUT sends a <save entry="" entry,="" id="3," identifier="0" session=""> from</save>
	TS_1 followed by <data last="" packet=""> with entry previously created</data>
	Additionally, if a "Line Id" field is included, verify that its value is one of the
	following:
	- (3, 0) 'Line identifier for external call' with line id 0
	- (3, 1) 'Line identifier for external call' with line id 1
	- (4) "Áll lines"
	6. Verify that the IUT sends to TS_1 a <edit entry="" entry,="" id="3," identifier="v," list<="" session="" td=""></edit>
	entry field identifier 1n = some or all identifiers among 01H, 02H, 03H, 05H >
	7. Verify that the IUT sends a <save entry="" entry,="" id="3," identifier="v" session=""> from</save>
	TS_1 followed by <data last="" packet=""> with entry previously modified</data>
	8. Verify that the IUT sends to TS_1, optionally a <end id="3" session="" session,="">, and a</end>
	{CC-RELEASE} message

Comments:	 IUT may also handle the optional field identifier 04H (associated melody) in contact list entries. ('start session', 'read entries' or 'edit entry' commands of the current test case)Test case shall not fail because of this Some IUT may send a READ entries command before editing an entry after stimulus step 6 After saving new entry, IUT will probably read a number of entries in order to show the new entry in alphabetical order In pass criterion 3, field id '03'H shall be present at least twice if the manufacturer has declared the support of several 'Contact number' fields in the contact list on PT side (PT_IXIT_1). See also at the beginning of Clause 6.16,
	"Multiple instances of the 'contact number' field in the contact list" clause

TC_PT_NG1.N.16_BV_2105	Contact list - Create entry - Negative Acknowledgement
Reference:	TS 102 527-3 [14], Clauses 7.4.10.5.7 and 7.4.10.1, 'Field instances management'
	entry.
Initial condition:	Contact list content (see Clause 4.1.1.1.6)
	FP does not implement the NG1.N.16_26 "Virtual contact list and call list per line"
	procedure
	T-00
Stimulus:	Open the Contact list from IUT
	2. Send a {CC-CALL-PROC} message from TS_1
	 Send a <start confirm,="" discriminator="" field="" fields="1,sorting" id="3," id1="1" nb="" of="" session="" sorting="" total="" type="0,"> from TS_1</start>
	4. For each <read entries=""> received, send a <read confirm,="" entries="" id="3" session=""></read></read>
	from TS_1, followed by <data data="" last="" packet=""> with the number i of</data>
	requested entries
	5. Create a new entry on IUT with following fields:
	Name= "VALDO",
	First name= "ANDY",
	Contact number1= "123545".
	Optionally: Associated melody=a (if fieldsupported by the IUT)
	Line id = Line L or "All lines" (if field supported by the IUT)
	6. Send a <negative acknowledgement,="" full="" id="3," reason="list" reject="" session=""> from</negative>
	TS_1
	7. Close the list access service from IUT
	 If <end session=""> received then send <end confirm,="" id="3" session=""> from TS_1</end></end>
	Send a {CC-RELEASE-COM} message from TS_1
Pass criteria:	Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
i dos sinona.	< <basic-service <lia="" =="" default="" service="" setup,="" setup<="" speech="" td="" wideband=""></basic-service>
	attributes>>>
	2. Verify that the IUT sends to TS_1 a <start identifier="05H," list="" nb="" of<="" session,="" td=""></start>
	sorting fields =n (n ≥ 0) followed by n sorting field identifiers among 01H, 02H,
	03H, 05H >
	3. Verify that the IUT sends to TS_1 a <read entries,="" id="3," index="s,</td" session="" start=""></read>
	direction=0, counter= i, mark entries request= do not care value, list entry field
	identifier 1n = some or all identifiers among 01H, 02H, 03H, 05H >
	4. For each entry read, verify that entry content is displayed on IUT
	5. Verify that the IUT sends a <save entry="" entry,="" id="3," identifier="0" session=""> from</save>
	TS_1 followed by <data last="" packet=""> with entry previously created</data>
	6. Verify that the IUT indicates that the list is full
	7. Verify that the IUT sends to TS_1, optionally a <end id="3" session="" session,="">, and a</end>
Commente	{CC-RELEASE} message
Comments:	 IUT may also handle the optional field identifier 04H (associated melody) in contact list entries ('start session' or 'read entries' commands of the current test
	case). Test case shall not fail because of this
	- In pass criterion 3, field id '03'H shall be present at least twice if the
	manufacturer has declared the support of several 'Contact number' fields in the
	contact list on PT side (PT_IXIT_1). See also at the beginning of Clause 6.16,
	'Multiple instances of the 'contact number' field in the contact list' clause
	The second of the contact had been as the contact had

TC_PT_NG1.N.16_BV_2106	Contact list - Read entries during external call
Reference:	TS 102 527-3 [14], Clauses 7.4.10.5.7 and 7.4.10.1, 'Field instances management'
	entry.
Initial condition:	Contact test list content (see Clause 4.1.1.1.6)
	FP does not implement the NG1.N.16_26 "Virtual contact list and call list per line"
	procedure
	Established external call in T-10 (IUT+TS_1) initiated by IUT on line 0 (call id a),
Stimulus:	1. Open the Contact list from IUT
	1a. if a request for putting (call id a) on-hold was received, send a {CC-INFO}
	message from TS_1 with IE < <call-information>> specifying (call id a, CS</call-information>
	call hold) =<(1, 0, value a)>
	2. Send a <start confirm,="" discriminator="" id="1," nb="10," nb<="" session="" td="" total="" type="0,"></start>
	of sorting fields =1,sorting field id1 =1> from TS_1
	3. For each <read entries=""> received, send a <read confirm,="" entries="" id="1" session=""></read></read>
	from TS_1, followed by <data data="" last="" packet=""> with the number i of</data>
	requested entries from s start index
	Scroll down into the alphabetical list on IUT
	4. For each <read entries=""> received, send a <read confirm,="" entries="" id="1" session=""></read></read>
	from TS_1, followed by <data data="" last="" packet=""> with the number i of</data>
	requested entries from s start index
	Scroll up into the alphabetical list on IUT
	5. Close the list access session on IUT
	6. Send a <end confirm,="" id="1" session=""> from TS_1</end>
	7. Hang up on IUT
	8. Send a {CC-RELEASE-COM} message from TS_1
Pass criteria:	1. Verify that the IUT optionally puts (call id a) on-hold by sending a {CC-INFO}
	message with IE << MULTI-KEYPAD >> set to (1CH, 41H) and IE
	< <call-information>> specifying (call id a) =<(1, 0, value a)></call-information>
	1a. Verify that IUT sends to TS_1 a <start identifier="05H," list="" nb="" of="" session,="" sorting<="" td=""></start>
	fields =n (n ≥ 0) followed by n sorting field identifiers among 01H, 02H, 03H, 05H >
	2. Verify that the IUT sends to TS_1 a <read entries,="" id="1," index="s,</td" session="" start=""></read>
	direction=0, counter= i, mark entries request= do not care value, list entry field
	identifier 1n = some or all identifiers among 01H, 02H, 03H, 05H >
	3. After each scrolling event, verify on the IUT's display that the scrolling through the
	entries was performed in the direction of ascending alphanumerical order
	(i.e. from ALEXANDER to WOJCIECHOSKI).
	4. After each scrolling event, verify on the IUT's display that the scrolling through the
	entries was performed in the direction of descending alphanumerical order (i.e. from WOJCIECHOSKI to ALEXANDER).
	5. Verify that the IUT sends to TS_1 a <end id="1" session="" session,=""></end>
	6. Verify that the IUT sends to TS_1 a {CC-RELEASE} message
Comments:	- In step 1, IUT may first put the external call on hold by sending control code
Commonto.	'1CH41H'. In that case, TS_1 shall send an hold confirmation via call
	information IE with call status set to 'CS call hold' in {CC_INFO} (in step 1a)
	- IUT may also handle the optional field identifier 04H (associated melody) in
	contact list entries ('start session' or 'read entries' commands of the current test
	case). Test case shall not fail because of this
	- In pass criterion 2, field id '03'H shall be present at least twice if the
	manufacturer has declared the support of several 'Contact number' fields in the
	contact list on PT side (PT_IXIT_1). See also at the beginning of Clause 6.16,
	"Multiple instances of the 'contact number' field in the contact list" clause
L	

TC_PT_NG1.N.16_BV_2110	Contact list - Entry with several contact numbers
Reference:	TS 102 527-3 [14], Clauses 7.4.10.5.7 and 7.4.10.1, 'Field instances management'
1 10 10 100	entry.
Initial condition:	Contact list content (see Clause 4.1.1.1.6) FP does not implement the NG1.N.16_26 "Virtual contact list and call list per line"
	procedure
	T-00
Stimulus:	Open the Contact list from IUT
	2. Send a {CC-CALL-PROC} message from TS_1
	3. Send a <start confirm,="" discriminator="" field="" fields="1,sorting" id="3," id1="1" nb="" of="" session="" sorting="" total="" type="0,"> from TS_1</start>
	4. For each <read entries=""> received, send a <read confirm,="" entries="" id="3" session=""></read></read>
	from TS_1, followed by <data data="" last="" packet=""> with the number i of</data>
	requested entries
	Scroll down into the alphabetical list on IUT 5. Select and read the "ALOUSSI" entry (entry can be selected using the contact
	number "0156891247")
	6. Create a new entry on IUT with following fields:
	Name= "PARAGI",
	First name= "KLAUS",
	Contact number1= "0140506070" with 'fixed' property bit set. Contact number2= "0655443322" with 'mobile' property bit set.
	Optionally:
	Associated melody=a (if field supported by the IUT)
	Line id = Line L or "All lines" (if field supported by the IUT)
	7. Send a <save available="" confirm,="" entries="11" entry="" id="3," identifier="v," index="7," nb="" of="" position="" session="" total=""></save>
	Close the list access service from IUT
	8. If <end session=""> received then send <end confirm,="" id="3" session=""> from</end></end>
	TS_1
Pass criteria:	Send a {CC-RELEASE-COM} message from TS_1 1. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
i ass cineria.	<= SASIC-SERVICE = <lia default="" service="" setup,="" setup<="" speech="" td="" wideband=""></lia>
	attributes>>>
	2. Verify that the IUT sends to TS_1 a <start identifier="05H," list="" nb="" of<="" session,="" td=""></start>
	sorting fields =n (n ≥ 0) followed by n sorting field identifiers among 01H, 02H, 03H, 05H >
	3. Verify that the IUT sends to TS_1 a <read entries,="" id="3," index="s,</td" session="" start=""></read>
	direction=0, counter= i, mark entries request= do not care value, list entry field
	identifier 1n = some or all identifiers among 01H, 02H, 03H, 05H >
	4. For each entry read, verify that entry content is displayed on IUT5. Verify that the "ALOUSSI" entry is correctly displayed:
	Name= "ALOUSSI",
	First name= "RAMIN",
	Contact number1= "0156891247".
	Contact number2= "0675000209".
	Optionally: Line id = Line 0 (if field supported by the IUT)
	6. Verify that the IUT sends a <save entry="" entry,="" id="3," identifier="0" session=""> from</save>
	TS_1 followed by <data data="" last="" packet=""> with entry previously created</data>
	7. Verify that the IUT sends to TS_1, optionally a <end id="3" session="" session,="">, and a</end>
Comments:	{CC-RELEASE} message - The current test case is conditional to the PT_IXIT_1 declaration item on PT
Comments.	side (see Clause A.1.2). In pass criterion 3, field id '03'H shall be present at
	least twice. See also at the beginning of Clause 6.16, 'Multiple instances of the
	'contact number' field in the contact list' clause
	 IUT may also indicate the optional field identifier 04H (associated melody) in contact list entries ('start session' or 'read entries' commands of the current test
	case). Test case shall not fail because of this
	- The created entry has two contact numbers of 10 digits each in stimulus 6,
	hence entry content will be distributed over 2 data packets
	- Some IUT may send a READ entries command before editing an entry after
	stimulus step 6 - After saving new entry, IUT will probably read a number of entries in order to
	show the new entry in alphabetical order
•	

TC_PT_NG1.N.16_BV_2201	Internal names list - Read entries - Initiate an internal call
Reference:	TS 102 527-3 [14], Clause 7.4.10.5.8
Initial condition:	Internal names test list content (see Clause 4.1.1.1.7), IUT is PP1, TS_2 is NG PP2
	T-00
Stimulus:	Open the Internal names list from IUT
	2. Send a {CC-CALL-PROC} message from TS_1
	3. Send a <start confirm,="" discriminator="" id="1," nb="4," nb<="" session="" td="" total="" type="0,"></start>
	of sorting fields =1,sorting field id1 =1> from TS_1
	4. For each <read entries=""> received, send a <read confirm,="" entries="" id="1" session=""></read></read>
	from TS_1, followed by <data data="" last="" packet=""> with the number i of</data>
	requested entries from s start index and 'own' property bit set when IUT entry is
	read
	Browse into the list on IUT
	5. Select and call internal party 2 "Living-Room"
	6. Send a {CC-CONNECT} message from TS_1
	Send a (CC-INFO) message with IE < <call-information>> specifying (call id</call-information>
	a, CS call proc) =<(1, 0, value a), (2, 1, 3)> from TS_1
	Send a {CC-INFO} message with IE < <call-information>> specifying (call id</call-information>
	a, CS call alerting) =<(1, 0, value a), (2, 1, 4)> from TS_1
	Send a {CC-INFO} message with IE < <call-information>> specifying (call id</call-information>
	a, CS call connect) =<(1, 0, value a), (2, 1, 5)> from TS_1
Pass criteria:	8. Send a {CC-RELEASE-COM} message from TS_11. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
Fass ciliena.	
	< <basic-service <lia="" =="" attributes="" default="" service="" setup="" setup,="" speech="" wideband=""> >></basic-service>
	2. Verify that the IUT sends to TS_1 a <start identifier="06H," list="" nb="" of<="" session,="" td=""></start>
	sorting fields =n (n ≥ 0) followed by n sorting field identifiers among 01H, 02H, 03H>
	 Verify that the IUT sends to TS_1 a <read entries,="" id="1," index="s,<br" session="" start="">direction=0, counter= i, mark entries request= do not care value, list entry field</read>
	identifier 1n = some or all identifiers among 01H, 02H, 03H> command
	4. Verify that the internal names entries PP2, PP3, and PP9 are displayed on IUT
	(PP1 may be not displayed and entries can be displayed one by one or several
	together depending on display capabilities)
	5. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
	< <multi-keypad>> set to (17H, 32H)</multi-keypad>
	6. Verify end-to-end U-plane connection between IUT and TS_1
Commenter	7. Verify that the IUT sends to TS_1 a {CC-RELEASE} message
Comments:	The call interception field is PIN protected (see Clause 4.1.1.1.7). As a consequence,
	the IUT might request to the user, edit and save the Current PIN Code field in the DECT
	system settings list, in one the following sequences:
	- Before opening the internal names list via start session or
	- Before reading an entry of the internal names list
	All these implementations are accepted
	Possible session with DECT system settings list implies fulfilment of DECT system
	settings list related requirements (see beginning of Clause 6.16)

TC_PT_NG1.N.16_BV_2202	Internal names list - Delete entry
Reference:	TS 102 527-3 [14], Clause 7.4.10.5.8
Initial condition:	Internal names test list content (see Clause 4.1.1.1.7), IUT is PP1, TS_2 is NG PP2
	T-00
Stimulus:	Open the Internal names list from IUT
	2. Send a {CC-CALL-PROC} message from TS_1
	3. Send a <start confirm,="" discriminator="" id="2," nb="4," nb<="" session="" td="" total="" type="0,"></start>
	of sorting fields =1,sorting field id1 =1> from TS_1
	4. For each <read entries=""> received, send a <read confirm,="" entries="" id="2" session=""></read></read>
	from TS_1, followed by <data data="" last="" packet=""> with the number i of</data>
	requested entries from s start index and 'own' property bit set when IUT entry is
	read
	Browse into the list on IUT
	5. Delete "Boby room" entry (PP9)
	6. Send a <delete available="" confirm,="" entries="3" entry="" id="2," nb="" of="" session="" total=""> from</delete>
	TS_1
	Close the list access service from IUT
	7. If <end session=""> received then send <end confirm,="" id="2" session=""> from</end></end>
	TS_1
	Send a {CC-RELEASE-COM} message from TS_1
Pass criteria:	Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <basic-service <lia="" =="" default="" service="" setup,="" setup<="" speech="" td="" wideband=""></basic-service>
	attributes>>>
	2. Verify that the IUT sends to TS_1 a <start identifier="06H," list="" nb="" of<="" session,="" td=""></start>
	sorting fields =n (n ≥ 0) followed by n sorting field identifiers among 01H, 02H, 03H
	> Notification that the ULT area do to TO A a. Dood outside acceptant id O atom index.
	3. Verify that the IUT sends to TS_1 a <read entries,="" id="2," index="s,</td" session="" start=""></read>
	direction=0, counter= i, mark entries request= do not care value, list entry field
	identifier 1n = some or all identifiers among 01H, 02H, 03H >
	 Verify that the internal names entries PP2, PP3 and PP9 are displayed on IUT (PP1 may be not displayed)
	5. Verify that the IUT sends to TS_1 a <delete entry="" entry,="" id="2," identifier="</td" session=""></delete>
	identifier value of "Boby room" entry >
	6. Verify that the IUT sends to TS_1, optionally a <end id="2" session="" session,="">, and a</end>
	{CC-RELEASE} message
Comments:	Some IUT may send a READ entries command after deletion of one entry
Comments.	The call interception field is PIN protected (see Clause 4.1.1.1.7). As a consequence,
	the IUT will request to the user, edit and save the Current PIN Code field in the DECT
	system settings list, in one of the following sequences:
	- Before opening the internal names list via start session or
	- Before reading an entry of the internal names list or
	- Before deleting the entry of the internal names list
	All these implementations are accepted
	Possible session with DECT system settings list implies fulfilment of DECT system
	settings list related requirements (see beginning of Clause 6.16)
L	gg or order of the

TC_PT_NG1.N.16_BV_2203	Internal names list - Edit entry - Save entry
Reference:	TS 102 527-3 [14], Clause 7.4.10.5.8
Initial condition:	Run TC_PT_NG1.N.16_BV_2202, IUT is PP1, TS_2 is NG PP2
miliar corrainorii.	
Stimulus:	 T-00 Open the Internal names list from IUT Send a {CC-CALL-PROC} message from TS_1 Send a <start confirm,="" discriminator="" field="" fields="1,sorting" id="3," id1="1" nb="" of="" session="" sorting="" total="" type="0,"> from TS_1</start> For each <read entries=""> received, send a <read confirm,="" entries="" id="3" session=""> from TS_1, followed by <data data="" last="" packet=""> with the number i of requested entries from s start index and 'own' property bit set when IUT entry is read Browse into the list on IUT</data></read></read> Select and edit "Living-room" entry (PP2) Send a <edit confirm,="" entry="" id="3" session=""> from TS_1, followed by <data data="" last="" packet=""> with PP2 entry content Modify the name of entry (PP2) to "Bedroom"</data></edit> Send a <save available="" confirm,="" entries="3" entry="" entry,="" id="3," identifier="" index="2," number="" of="" position="" pp2="" session="" total=""> from TS_1</save>
Dana seitasia	Close the list access service from IUT 8. If <end session=""> received then send <end confirm,="" id="3" session=""> from TS_1 Send a {CC-RELEASE-COM} message from TS_1</end></end>
Pass criteria:	 Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE <<basic-service <lia="" =="" attributes="" default="" service="" setup="" setup,="" speech="" wideband=""> >></basic-service> Verify that the IUT sends to TS_1 a <start (n="" 0)="" 01h,="" 02h,="" 03h="" among="" by="" field="" fields="n" followed="" identifier="06H," identifiers="" list="" n="" nb="" of="" session,="" sorting="" ≥=""></start>
	 Verify that the IUT sends to TS_1 a <read 01h,="" 02h,="" 03h="" 1n="some" all="" among="" care="" counter="i," direction="0," entries="" entries,="" entry="" field="" id="3," identifier="" identifiers="" index="s," list="" mark="" not="" or="" request="do" session="" start="" value,=""></read> Verify that the internal names entry PP2 and PP3 are displayed on IUT (PP1 may be not displayed) Verify that the IUT sends to TS_1 a <edit 01h,="" 02h,="" 03h="" 1n="some" all="" among="" entry="" entry,="" field="" id="3," identifier="" identifiers="" list="" of="" or="" pp2="" session=""></edit>
Comments:	 Verify that the IUT sends to TS_1 <save entry="" entry,="" id="3," identifier="" of="" pp2="" session=""> followed by <data data="" last="" packet=""> modifying "Name" field to "Bedroom"</data></save> Verify that the IUT sends to TS_1, optionally a <end id="3" session="" session,="">, and a {CC-RELEASE} message</end> The call interception field is PIN protected (see Clause 4.1.1.1.7). As a consequence,
	the IUT might request to the user, edit and save the Current PIN Code field in the DECT system settings list, in one of the following sequences: - Before opening the internal names list via start session or - Before reading an entry of the internal names list or - Before editing the entry of the internal names list All these implementations are accepted Possible session with DECT system settings list implies fulfilment of DECT system settings list related requirements (see beginning of Clause 6.16)

TO DT NO4 N 40 DV 6001	
TC_PT_NG1.N.16_BV_2204	Internal names list - Call interception - PIN protected - Edit entry - Save entry
Reference:	TS 102 527-3 [14], Clauses 7.4.10.5.8 and 7.4.11.1
Initial condition:	Internal names test list content (see Clause 4.1.1.1.7) with 'PIN protected' property bit
	set to 1 for 'Call interception' field of all entries
Stimulus:	T-00 1. Open the Internal names list from IUT
Stiffdias.	2. Send a {CC-CALL-PROC} message from TS_1
	3. Send a <start confirm,="" discriminator="" id="3," nb="3," nb<="" session="" td="" total="" type="0,"></start>
	of sorting fields =1,sorting field id1 =1> from TS_1
	4. For each <read entries=""> received, send a <read confirm,="" entries="" id="3" session=""></read></read>
	from TS_1, followed by <data data="" last="" packet=""> with the number i of</data>
	requested entries from s start index and 'own' property bit set when IUT entry is
	read
	Browse into the list on IUT
	5. Select and edit "Living-room" entry (PP2)
	6. Send a <start confirm,="" fields="0" id="4," nb="" of="" session="" sorting=""> from TS_1</start>
	7. For each <read entries=""> received, send a <read confirm,="" entries="" id="4" session=""></read></read>
	from TS_1, followed by <data data="" last="" packet=""> with the requested field(s)</data>
	8. Send to TS_1 a <edit confirm,="" entry="" id="4" session=""> followed by <data data<="" packet="" td=""></data></edit>
	packet last> with current PIN code field set to (FFH, FFH, FFH, FFH) Enter "1234" as current PIN code value
	9. Send to TS_1 a <save confirm,="" entry="" id="4," identifier="1," position<="" session="" td=""></save>
	index=1, total number of available entries=1>
	10. Send to TS_1 a <end confirm,="" id="4" session=""></end>
	11. Send a <edit confirm,="" entry="" id="3" session=""> from TS_1, followed by <data< td=""></data<></edit>
	packet/data packet last> with PP2 entry content
	Modify the Call interception of entry (PP2) to Allowed value
	12. Send a <save confirm,="" entry="" id="3," identifier="" of="" pp2<="" session="" td=""></save>
	entry, position index=2, total number of available entries=3> from TS_1
	Close the list access service from IUT
	13. If <end session=""> received then send <end confirm,="" id="3" session=""> from</end></end>
	TS_1
Dana seitasia:	Send a {CC-RELEASE-COM} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <basic-service <lia="" =="" attributes="" default="" service="" setup="" setup,="" speech="" wideband=""> >></basic-service>
	2. Verify that the IUT sends to TS_1 a <start identifier="06H," list="" nb="" of<="" session,="" td=""></start>
	sorting fields =n (n ≥ 0) followed by n sorting field identifiers among 01H, 02H, 03H
	>
	3. Verify that the IUT sends to TS_1 a <read entries,="" id="3," index="s,</td" session="" start=""></read>
	direction=0, counter= i, mark entries request= do not care value, list entry field
	identifier 1n = some or all identifiers among 01H, 02H, 03H >
	4. Verify that the internal names entry PP2 and PP3 are displayed on IUT (IUT entry,
	i.e. PP1, may be not displayed)
	5. Verify that the IUT sends to TS_1 a <start identifier="07H" list="" session,=""></start>
	6. Verify that the IUT sends to TS_1 a <read entries,="" id="4," index="1,</td" session="" start=""></read>
	direction=0, counter=1, mark entries request= do not care value, list entry field identifier 1n = at least Current PIN code identifier 01H >
	7. Verify that the IUT requires the user to enter the PIN code value
	Verify that the IUT sends to TS_1 a <edit entry="" entry,="" id="4," identifier="1," list<="" session="" td=""></edit>
	entry field identifier 1= Current PIN code identifier 01H>
	8. Verify that the IUT sends to TS_1 a <save entry="" entry,="" id="4," identifier="1" session="">,</save>
	followed by <data data="" last="" packet=""> with Current PIN code field set to (FFH,</data>
	FFH, 12H, 34H)
	9. Verify that the IUT sends to TS_1 a <end id="4" session="" session,=""></end>
	10. Verify that the IUT sends to TS_1 a <edit entry="" entry,="" id="3," identifier="</td" session=""></edit>
	entry identifier of PP2 entry, list entry field identifier 1n =01H, 02H, 03H >
	11. Verify that the IUT sends to TS_1 <save entry="" entry,="" id="3," identifier="" of="" pp2="" session=""> followed by <data data="" last="" packet=""> modifying "Call</data></save>
	interception" field to 31H
	12. Verify that the IUT sends to TS_1, optionally a <end id="3" session="" session,="">, and a</end>
	{CC-RELEASE} message
Comments:	Instead of asking the PIN before editing a field protected by the FP, the IUT might also
	ask for PIN before opening the list via start session, or before reading a field, or before
	editing a field (although it is not protected by the FP), or before saving a field (either
	protected or not by the FP). All these implementations are accepted
	Possible session with DECT system settings list implies fulfilment of DECT system
	settings list related requirements (see beginning of Clause 6.16)

TC_PT_NG1.N.16_BV_2301	All incoming calls list - Read entries - Initiate an external call
Reference:	TS 102 527-3 [14], Clause 7.4.10.5.11
Initial condition:	All incoming calls test list content (see Clause 4.1.1.1.10)
	FP does not implement the NG1.N.16_26 "Virtual contact list and call list per line"
	procedure
	T-00
Stimulus:	Open the All incoming calls list from IUT
	2. Send a {CC-CALL-PROC} message from TS_1
	3. Send a <start confirm,="" discriminator="" field="" fields="1,sorting" id="1," id1="3" nb="" of="" session="" sorting="" total="" type="0,"> from TS_1</start>
	 For each <read entries=""> received, send a <read confirm,="" entries="" id="1" session=""> from TS_1, followed by <data data="" last="" packet=""> with the number i of requested entries from s start index</data></read></read>
	Browse into the list on IUT
	5. Phone back "M.UWE" entry (entry can be selected using the number "008989945270")
	6. Send a {CC-CONNECT} message from TS_1 with an IE < <codec-list>> set to G.722</codec-list>
	Send a {CC-INFO} message with IE < <call-information>> specifying (line 0, full VoIP line type information, call id a) =<(0, 0, 0), (0, 5, 1), (1, 0, value a)> from TS_1</call-information>
	Send a {CC-INFO} message with IE < <call-information>> specifying (call id a, CS call proc) =<(1, 0, value a), (2, 1, 3)> from TS_1</call-information>
	Send a {CC-INFO} message with IE < <call-information>> specifying (call id a, CS call alerting) =<(1, 0, value a), (2, 1, 4)> from TS_1</call-information>
	Send a {CC-INFO} message with IE < <call-information>> specifying (call id a, CS call connect) =<(1, 0, value a), (2, 1, 5)> from TS_1</call-information>
	7. Hang up on IUT
	8. Send a {CC-RELEASE-COM} message from TS_1
Pass criteria:	Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE < <basic-service <lia="" =="" default="" service="" setup,="" setup<="" speech="" td="" wideband=""></basic-service>
	attributes>>>
	 Verify that the IUT sends to TS_1 a <start identifier="09H," list="" nb="" of<br="" session,="">sorting fields =n (n ≥ 0) followed by n sorting field identifiers among 01H, 02H,</start>
	03H>
	3. Verify that the IUT sends to TS_1 a <read entries,="" id="1," index="s,</td" session="" start=""></read>
	direction=0, counter= i, mark entries request= (00H, 7FH, or FFH), list entry field identifier 1n = some or all identifiers among 01H, 02H, 03H, 04H, 05H, 06H,
	07H >
	4. For each entry read, verify that entry content is displayed on IUT from the newest
	call to the oldest one
	5. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
	< <multi-keypad>> set to 1CH 15H digits together with "008989945270" digits, and IE <<call-information>> specifying (line 0, line 1, line 2 or None) =<(0,</call-information></multi-keypad>
	0, 0 or 1 or 2 or 127)>
	6. Verify end-to-end U-plane connection between IUT and TS_1
	7. Verify that the IUT sends to TS_1 a {CC-RELEASE} message

TC_PT_NG1.N.16_BV_2302	All incoming calls list - Delete entry
Reference:	TS 102 527-3 [14], Clause 7.4.10.5.11
Initial condition:	All incoming calls test list content (see Clause 4.1.1.1.10)
	FP does not implement the NG1.N.16_26 "Virtual contact list and call list per line"
	procedure
	T-00
Stimulus:	Open the All incoming calls list from IUT
	2. Send a {CC-CALL-PROC} message from TS_1
	3. Send a <start confirm,="" discriminator="" id="2," nb="20," nb<="" session="" td="" total="" type="0,"></start>
	of sorting fields =1,sorting field id1 =3> from TS_1
	4. For each <read entries=""> received, send a <read confirm,="" entries="" id="2" session=""></read></read>
	from TS_1, followed by <data data="" last="" packet=""> with the number i of</data>
	requested entries from s start index
	Browse into the list on IUT
	5. Delete "WOJCIECHOSKI" entry (entry can be selected using the number
	"0675000321")
	6. Send a <delete available="" confirm,="" entries="19" entry="" id="2," nb="" of="" session="" total=""></delete>
	from TS_1
	Close the list access service from IUT
	7. If <end session=""> received then send <end confirm,="" id="2" session=""> from TS_1</end></end>
	Send a {CC-RELEASE-COM} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <basic-service <lia="" =="" default="" service="" setup,="" setup<="" speech="" td="" wideband=""></basic-service>
	attributes>>>
	2. Verify that the IUT sends to TS_1 a <start identifier="09H," list="" nb="" of<="" session,="" td=""></start>
	sorting fields =n (n ≥ 0) followed by n sorting field identifiers among 01H, 02H,
	03H>
	3. Verify that the IUT sends to TS_1 a <read entries,="" id="2," index="s,</td" session="" start=""></read>
	direction=0, counter= i, mark entries request= (00H, 7FH, or FFH), list entry field
	identifier 1n = some or all identifiers among 01H, 02H, 03H, 04H, 05H, 06H, 07H
	>
	4. For each entry read, verify that entry content is displayed on IUT
	5. Verify that the IUT sends to TS_1 a <delete entry="" entry,="" id="2," identifier="</td" session=""></delete>
	identifier value of "WOJCIECHOSKI" entry >
	6. Verify that the IUT sends to TS_1, optionally a <end id="2" session="" session,="">, and a</end>
	{CC-RELEASE} message
Comments:	Some IUT may send a READ entries command after deletion of one entry
	•

TC_PT_NG1.N.16_BV_2303	All incoming calls list - Delete list - Read entries when empty
Reference:	TS 102 527-3 [14], Clause 7.4.10.5.11
Initial condition:	All incoming calls list content (see Clause 4.1.1.1.10)
	FP does not implement the NG1.N.16_26 "Virtual contact list and call list per line"
	procedure
	T-00
Stimulus:	Open the All incoming calls list from IUT
	2. Send a {CC-CALL-PROC} message from TS_1
	3. Send a <start confirm,="" discriminator="" field="" fields="1,sorting" id="3," id1="3" nb="" of="" session="" sorting="" total="" type="0,"> from TS_1</start>
	4. For each <read entries=""> received, send a <read confirm,="" entries="" id="3" session=""></read></read>
	from TS_1, followed by <data data="" last="" packet=""> with the number i of requested entries</data>
	5. Delete the list
	6. Send a <delete confirm,="" id="3" list="" session=""> from TS_1</delete>
	Close the list access service from IUT
	7. If <end session=""> received then send <end confirm,="" id="3" session=""> from</end></end>
	TS_1
	Send a {CC-RELEASE-COM} message from TS_1
	Open the All incoming calls list from IUT
	8. Send a {CC-CALL-PROC} message from TS_1
	9. Send a <start confirm,="" discriminator="" id="4," nb="0," nb<="" session="" td="" total="" type="0,"></start>
	of sorting fields =1,sorting field id1 =3> from TS_1
	10. Close the list access service from IUT
	 If <end session=""> received then send <end confirm,="" id="4" session=""> from TS_1</end></end>
	Send a {CC-RELEASE-COM} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <basic-service <lia="" =="" default="" service="" setup,="" setup<="" speech="" td="" wideband=""></basic-service>
	attributes> >>
	2. Verify that the IUT sends to TS_1 a <start identifier="09H," list="" nb="" of<="" session,="" td=""></start>
	sorting fields =n (n \geq 0) followed by n sorting field identifiers among 01H, 02H,
	03H, 04H, 05H, 06H, 07H >
	3. Verify that the IUT sends to TS_1 a <read entries,="" id="3," index="s,</td" session="" start=""></read>
	direction=0, counter= i, mark entries request= (00H, 7FH, or FFH), list entry field
	identifier 1n = some or all identifiers among 01H, 02H, 03H, 04H, 05H, 06H,
	07H>
	4. For each entry read, verify that entry content is displayed on IUT
	 Verify that the IUT sends to TS_1 a <delete id="3" list,="" session=""></delete> Verify that the IUT sends to TS_1, optionally a <end id="3" session="" session,="">, and a</end>
	{CC-RELEASE} message
	7. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <basic-service <lia="" =="" default="" service="" setup,="" setup<="" speech="" td="" wideband=""></basic-service>
	attributes>>>
	8. Verify that the IUT sends to TS_1 a <start identifier="09H," list="" nb="" of<="" session,="" td=""></start>
	sorting fields =n (n ≥ 0) followed by n sorting field identifiers among 01H, 02H, 03H, 04H, 05H, 06H, 07H >
	9. Verify that IUT indicates that the list is empty
	10. Verify that the IUT sends to TS_1, optionally a <end id="4" session="" session,="">, and a</end>
	{CC-RELEASE} message

TC_PT_NG1.N.16_BV_2401	DECT system settings list - Read entries
Reference:	TS 102 527-3 [14], Clause 7.4.11.3
Initial condition:	DECT system settings list content (see Clause 4.1.1.1.8),
	T-00
Stimulus:	Open the DECT system settings list from IUT
	2. Send a {CC-CALL-PROC} message from TS_1
	Send a {CIPHER-REQUEST} message from TS_1
	3. Send a <start confirm,="" fields="0" id="1," nb="" of="" session="" sorting=""> from TS_1</start>
	4. For each <read entries=""> received, send a <read confirm,="" entries="" id="1" session=""></read></read>
	from TS_1, followed by <data data="" last="" packet=""> with the requested field(s) Read all settings from IUT</data>
	5. Close the list access service on IUT
	6. If <end session=""> received then send <end confirm,="" id="1" session=""> from TS_1</end></end>
	Send a {CC-RELEASE-COM} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <basic-service <lia="" =="" default="" service="" setup,="" setup<="" speech="" td="" wideband=""></basic-service>
	attributes>>>
	2. Verify that the IUT sends to TS_1 a <start identifier="07H" list="" session,=""></start>
	3. Verify that the IUT sends to TS_1 a <read entries,="" id="1," index="s,</td" session="" start=""></read>
	direction=0, counter=1, mark entries request= do not care value, list entry field
	identifier 1n = 02H, 09H, 0AH completed with optional settings supported (see Annex A, Table A.7) >
	4. Verify that the DECT system settings parameters displayed on IUT match the
	DECT system settings list content (see Clause 4.1.1.1.8)
	5. Verify that the IUT sends to TS_1 a {CC-RELEASE} message
Comments:	If <query entry="" fields="" supported=""> received, TS_1 shall send back a <query supported<="" td=""></query></query>
	entry fields confirm, session id=1, number of editable entry fields=08H, list entry field
	identifier 1n = 01H, 02H, 03H, 04H, 05H, 06H, 07H, 08H, number of non-editable entry
	fields=03H, list entry field identifier 1n = 09H, 0AH, 0BH>
	Settings fields can be read one by one, or all in the same <read entries=""> command</read>
	Settings will probably be displayed in several sub-menus, the PIN code and the Base
	reset will not be displayed at all
	It is allowed that the IUT does not read the fields 01H ("Current PIN code") and 03H
	("Base Reset"). These fields are not tested in pass criteria 4
	See also DECT system settings list related requirements (see beginning of Clause 6.16)

TC_PT_NG1.N.16_BV_2501	Line settings list - Read entries
Reference:	TS 102 527-3 [14], Clause 7.4.11.4
Initial condition:	Line settings list content (see Clause 4.1.1.1.9),
	T-00
Stimulus:	Open the Line settings list from IUT
	2. Send a {CC-CALL-PROC} message from TS_1
	 Send a <start confirm,="" discriminator="" id="1," nb="2," nb<br="" session="" total="" type="0,">of sorting fields =1,sorting field id1 =2> from TS_1</start>
	 For each <read entries=""> received, send a <read confirm,="" entries="" id="1" session=""> from TS_1, followed by <data data="" last="" packet=""> with the requested field(s) Read all line settings of line 1 and 2 from IUT</data></read></read>
	5. Close the list access service on IUT
	6. If <end session=""> received then send <end confirm,="" id="1" session=""> from TS_1</end></end>
	Send a {CC-RELEASE-COM} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <basic-service <lia="" =="" attributes="" default="" service="" setup="" setup,="" speech="" wideband=""> >></basic-service>
	2. Verify that the IUT sends to TS_1 a <start identifier="08H," list="" nb="" of<="" session,="" td=""></start>
	sorting fields =-n (n ≥ 0) followed by n sorting field identifiers among 01H, 02H > Verify that the IUT sends to TS_1 a <read 02h,="" 03h,="" 08h,="" 0bh,="" 0ch,="" 0dh="" 1n="01H," care="" completed="" counter="i," direction="0," entries="" entries,="" entry="" field="" id="1," identifier="" index="s," list="" mark="" not="" optional<="" request="do" session="" start="" td="" value,="" with=""></read>
	settings supported (see Annex A, Table A.7) >
	4. Verify that the Line settings parameters displayed on IUT for line 1 and line 2 match the Line settings list contents (see Clause 4.1.1.1.9)
	5. Verify that the IUT sends to TS_1 a {CC-RELEASE} message
Comments:	If <query entry="" fields="" supported=""> received, TS_1 shall send back a <query confirm,="" editable="" entry="" field<="" fields="0CH," id="1," list="" number="" of="" session="" supported="" td=""></query></query>
	identifier 1n = 01H, 03H, 04H, 05H, 06H, 07H, 08H, 09H, 0AH, 0BH, 0CH, 0DH),
	number of non-editable entry fields=01H, list entry field identifier 1n = 02H)>
	Settings fields can be read one by one, or all in the same <read entries=""> command</read>
	Settings will probably be displayed in several sub-menus
	IUT can open the internal names list to know the registered handsets list
	IUT can perform edit entry command in order to lock the entry after pass criteria 3
	Possible session with DECT system settings list implies fulfilment of DECT system
	settings list related requirements (see beginning of Clause 6.16)
L	in the second se

TC_PT_NG1.N.16_BV_2601	Virtual missed calls list - Read entries - Initiate an external call
Reference:	TS 102 527-3 [14], Clauses 7.4.11.5 and 7.4.10.5.3
Initial condition:	Missed calls test list content (see Clause 4.1.1.1.2)
	FP implements the NG1.N.14 "Multiple lines" feature
	T-00
Stimulus:	Open the Missed calls list from IUT
	2. Send a {CC-CALL-PROC} message from TS_1
	3. Send a <start confirm,="" discriminator="" id="1," nb="10," nb<="" session="" td="" total="" type="0,"></start>
	of sorting fields =1,sorting field id1 =3> from TS_1
	from TS_1, followed by <data data="" last="" packet=""> with the number i of</data>
	requested entries from s start index
	Browse into the list on IUT from the newest call to the oldest one
	5. For each <read entries=""> received, send a <read confirm,="" entries="" id="1" session=""></read></read>
	from TS_1, followed by <data data="" last="" packet=""> with the number i of</data>
	requested entries from s start index
	Browse into the list on IUT from the oldest call to the newest one
	6. Phone back "VAN DER VYNC" entry (entry can be selected using the number
	"0247413706")
	7. Send a {CC-CONNECT} message from TS_1 with an IE < <codec-list>> set to</codec-list>
	G.722
	Send a {CC-INFO} message with IE < <call-information>> specifying (line 1,</call-information>
	full VoIP line type information, call id a) = $<(0, 0, 1), (0, 5, 1), (1, 0, value a)>$ from
	TS_1
	Send a {CC-INFO} message with IE < <call-information>> specifying (call id</call-information>
	a, CS call proc) =<(1, 0, value a), (2, 1, 3)> from TS_1
	Send a {CC-INFO} message with IE < <call-information>> specifying (call id</call-information>
	a, CS call alerting) =<(1, 0, value a), (2, 1, 4)> from TS_1
	Send a {CC-INFO} message with IE < <call-information>> specifying (call id</call-information>
	a, CS call connect) =<(1, 0, value a), (2, 1, 5)> from TS_1
	8. Hang up on IUT
	9. Send a {CC-RELEASE-COM} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <basic-service <lia="" =="" default="" service="" setup,="" setup<="" speech="" td="" wideband=""></basic-service>
	attributes>>>
	2. Verify that the IUT sends to TS_1 a <start identifier="01H," list="" nb="" of<="" session,="" td=""></start>
	sorting fields =n (n \geq 0) followed by n sorting field identifiers among 01H, 02H,
	03H, 04H, 05H, 06H, 07H >
	3. Verify that the IUT sends to TS_1 a <read entries,="" id="1," index="s,</td" session="" start=""></read>
	direction=0, counter= i, mark entries request= (00H, 7FH, or FFH), list entry field
	identifier 1n = some or all identifiers among 01H, 02H, 03H, 04H, 05H, 06H,
	07H>
	4. For each entry read, verify that entry content is displayed on IUT, line by line, and
	in the correct sequence from the newest call to the oldest one
	5. For each entry read, verify that entry content is displayed on IUT, line by line, and
	in the correct sequence from the oldest call to the newest one
	6. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
	<=MULTI-KEYPAD>> set to "0247413706" digits and with an IE
	<call-information>> requesting the Provider 2 line (=<0, 0, 1>)</call-information>
	7. Verify end-to-end U-plane connection between IUT and TS_1
	8. Verify that the IUT sends to TS_1 a {CC-RELEASE} message
Comments:	The PP shall filter the calls that are related to a given line thanks to the line identifier
İ	field

TC_PT_NG1.N.16_BV_2602	Virtual outgoing calls list - Read entries - Initiate an external call
Reference:	TS 102 527-3 [14], Clauses 7.4.11.5 and 7.4.10.5.4
Initial condition:	Outgoing calls test list content (see Clause 4.1.1.1.3)
	FP implements the NG1.N.14 "Multiple lines" feature
	T-00
Stimulus:	Open the Outgoing calls list from IUT
Carriardo.	2. Send a {CC-CALL-PROC} message from TS_1
	3. Send <start confirm,="" discriminator="" id="1," nb="" of<="" session="" td="" total="" type="0,"></start>
	sorting fields =1,sorting field id1 =3> from TS_1
	4. For each <read entries=""> received, send a <read confirm,="" entries="" id="1" session=""></read></read>
	from TS_1, followed by <data data="" last="" packet=""> with the number i of</data>
	requested entries from s start index
	Browse into the list on IUT from the newest call to the oldest one
	5. For each <read entries=""> received, send a <read confirm,="" entries="" id="1" session=""></read></read>
	from TS_1, followed by <data data="" last="" packet=""> with the number i of</data>
	requested entries from s start index
	Browse into the list on IUT from the oldest call to the newest one
	6. Phone back "LAGADEC" entry (entry can be selected using the number
	"02298951214")
	7. Send a {CC-CONNECT} message from TS_1 with an IE < <codec-list>> set to</codec-list>
	G.722
	Send a {CC-INFO} message with IE < <call-information>> specifying (line 0,</call-information>
	full VoIP line type information, call id a) = $<(0, 0, 0), (0, 5, 1), (1, 0, value a)>$ from
	TS_1
	Send a {CC-INFO} message with IE < <call-information>> specifying (call id</call-information>
	a, CS call proc) =<(1, 0, value a), (2, 1, 3)> from TS_1
	Send a {CC-INFO} message with IE < <call-information>> specifying (call id</call-information>
	a, CS call alerting) =<(1, 0, value a), (2, 1, 4)> from TS_1
	Send a {CC-INFO} message with IE < <call-information>> specifying (call id</call-information>
	a, CS call connect) =<(1, 0, value a), (2, 1, 5)> from TS_1
	8. Hang up on IUT
	9. Send a {CC-RELEASE-COM} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <basic-service <lia="" =="" default="" service="" setup,="" setup<="" speech="" td="" wideband=""></basic-service>
	attributes>>>
	2. Verify that the IUT sends to TS_1 a <start identifier="02H," list="" nb="" of<="" session,="" td=""></start>
	sorting fields =n ($n \ge 0$) followed by n sorting field identifiers among 01H, 02H,
	03H, 04H, 05H >
	3. Verify that the IUT sends to TS_1 a <read entries,="" id="1," index="s,</td" session="" start=""></read>
	direction=0, counter= i, mark entries request= do not care value, list entry field
	identifier 1n = some or all identifiers among 01H, 02H, 03H, 04H, 05H >
	4. For each entry read, verify that entry content is displayed on IUT, line by line, and
	in the correct sequence from the newest call to the oldest
	5. For each entry read, verify that entry content is displayed on IUT, line by line, and
	in the correct sequence from the oldest call to the newest one
	6. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
	< <multi-keypad>> set to 1CH 15H digits together with "02298951214" digits</multi-keypad>
	and with an IE < <call-information>> requesting the Provider 1 line (=<0, 0,</call-information>
	0>)
	7. Verify end-to-end U-plane connection between IUT and TS_1
	8. Verify that the IUT sends to TS_1 a {CC-RELEASE} message
Comments:	The PP shall filter the calls that are related to a given line thanks to the line identifier
	field

TC_PT_NG1.N.16_BV_2603	Virtual incoming accepted calls list - Read entries - Initiate an external call
Reference:	TS 102 527-3 [14], Clauses 7.4.11.5 and 7.4.10.5.5
Initial condition:	Incoming accepted calls test list content (see Clause 4.1.1.1.4)
I I I I I I I I I I I I I I I I I I I	FP implements the NG1.N.14 "Multiple lines" feature
	T-00
Stimulus:	Open the Incoming accepted calls list from IUT
Stiffdids.	
	2. Send a {CC-CALL-PROC} message from TS_1
	3. Send a <start confirm,="" discriminator="" id="1," nb="10," nb<="" session="" td="" total="" type="0,"></start>
	of sorting fields =1,sorting field id1 =3> from TS_1
	4. For each <read entries=""> received, send a <read confirm,="" entries="" id="1" session=""></read></read>
	from TS_1, followed by <data data="" last="" packet=""> with the number i of</data>
	requested entries from s start index
	Browse into the list on IUT from the newest call to the oldest one
	5. For each <read entries=""> received, send a <read confirm,="" entries="" id="1" session=""></read></read>
	from TS_1, followed by <data data="" last="" packet=""> with the number i of</data>
	requested entries from s start index
	Browse into the list on IUT from the oldest call to the newest one
	6. Phone back "G. DEL PIETRO" entry (entry can be selected using the number
	"00550123456789")
	7. Send a {CC-CONNECT} message from TS_1 with an IE < <codec-list>> set to</codec-list>
	G.722
	Send a {CC-INFO} message with IE < <call-information>> specifying (line 0,</call-information>
	full VoIP line type information, call id a) = $<(0, 0, 0), (0, 5, 1), (1, 0, value a)>$ from
	TS_1
	Send a {CC-INFO} message with IE < <call-information>> specifying (call id</call-information>
	a, CS call proc) =<(1, 0, value a), (2, 1, 3)> from TS_1
	Send a {CC-INFO} message with IE < <call-information>> specifying (call id</call-information>
	a, CS call alerting) =<(1, 0, value a), (2, 1, 4)> from TS_1
	Send a {CC-INFO} message with IE < <call-information>> specifying (call id</call-information>
	a, CS call connect) =<(1, 0, value a), (2, 1, 5)> from TS_1
	8. Hang up on IUT
	9. Send a {CC-RELEASE-COM} message from TS_1
Pass criteria:	Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
ass criteria.	<= SASIC-SERVICE = <lia default="" service="" setup,="" setup<="" speech="" td="" wideband=""></lia>
	attributes>>>
	2. Verify that the IUT sends to TS_1 a <start identifier="03H," list="" nb="" of<="" session,="" td=""></start>
	sorting fields =n (n \ge 0) followed by n sorting field identifiers among 01H, 02H,
	03H, 04H, 05H >
	3. Verify that the IUT sends to TS_1 a <read entries,="" id="1," index="s,</td" session="" start=""></read>
	direction=0, counter= i, mark entries request= do not care value, list entry field
	identifier 1n = some or all identifiers among 01H, 02H, 03H, 04H, 05H>
	4. For each entry read, verify that entry content is displayed on IUT, line by line, and
	in the correct sequence from the newest call to the oldest one
	5. For each entry read, verify that entry content is displayed on IUT, line by line, and
	in the correct sequence from the oldest call to the newest one
	6. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
	< <multi-keypad>> set to 1CH 15H digits together with "00550123456789"</multi-keypad>
	digits and with an IE < <call-information>> requesting the Provider 1 line</call-information>
	(= $(0, 0, 0)$)
	7. Verify end-to-end U-plane connection between IUT and TS_1
Commenter	8. Verify that the IUT sends to TS_1 a {CC-RELEASE} message
Comments:	The PP shall filter the calls that are related to a given line thanks to the line identifier
	field

TC_PT_NG1.N.16_BV_2604	Virtual all calls list - Read entries - Initiate an external call
Reference:	TS 102 527-3 [14], Clauses 7.4.11.5 and 7.4.10.5.6
Initial condition:	All calls test list content (see Clause 4.1.1.1.5)
	FP implements the NG1.N.14 "Multiple lines" feature
	T-00
Stimulus:	1. Open the All calls list from IUT
Carriardo.	2. Send a {CC-CALL-PROC} message from TS_1
	3. Send a <start confirm,="" discriminator="" id="1," nb="30," nb<="" session="" td="" total="" type="0,"></start>
	of sorting fields =1,sorting field id1 =4> from TS_1
	4. For each <read entries=""> received, send a <read confirm,="" entries="" id="1" session=""></read></read>
	from TS_1, followed by <data data="" last="" packet=""> with the number i of</data>
	requested entries from s start index
	Browse into the list on IUT from the newest call to the oldest one
	5. For each <read entries=""> received, send a <read confirm,="" entries="" id="1" session=""></read></read>
	from TS_1, followed by <data data="" last="" packet=""> with the number i of</data>
	requested entries from s start index
	Browse into the list on IUT from the oldest call to the newest one
	6. Phone back "R.ALOUSSI" entry (entry can be selected using the number
	"065000209")
	7. Send a {CC-CONNECT} message from TS_1 with an IE < <codec-list>> set to</codec-list>
	G.722
	Send a {CC-INFO} message with IE < <call-information>> specifying (line 0,</call-information>
	full VoIP line type information, call id a) = $<(0, 0, 0), (0, 5, 1), (1, 0, value a)>$ from
	TS_1
	Send a {CC-INFO} message with IE < <call-information>> specifying (call id</call-information>
	a, CS call proc) =<(1, 0, value a), (2, 1, 3)> from TS_1
	Send a {CC-INFO} message with IE < <call-information>> specifying (call id</call-information>
	a, CS call alerting) =<(1, 0, value a), (2, 1, 4)> from TS_1
	Send a {CC-INFO} message with IE < <call-information>> specifying (call id</call-information>
	a, CS call connect) =<(1, 0, value a), (2, 1, 5)> from TS_1
	8. Hang up on IUT
	9. Send a {CC-RELEASE-COM} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
. acc cinenal	< <basic-service <lia="" =="" default="" service="" setup,="" setup<="" speech="" td="" wideband=""></basic-service>
	attributes>>>
	2. Verify that the IUT sends to TS_1 a <start identifier="04H," list="" nb="" of<="" session,="" td=""></start>
	sorting fields =n ($n \ge 0$) followed by n sorting field identifiers among 01H, 02H,
	03H, 04H, 05H, 06H >
	3. Verify that the IUT sends to TS_1 a <read entries,="" id="1," index="s,</td" session="" start=""></read>
	direction=0, counter= i, mark entries request= do not care value, list entry field
	identifier 1n = some or all identifiers among 01H, 02H, 03H, 04H, 05H, 06H>
	4. For each entry read, verify that entry content is displayed on IUT and in the correct sequence from the newest call to the oldest one
	5. For each entry read, verify that entry content is displayed on IUT, line by line, and
	in the correct sequence from the oldest call to the newest one
	6. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
	< <multi-keypad>> set to 1CH 15H digits together with "065000209" digits and</multi-keypad>
	with an IE < <call-information>> requesting the Provider 1 line (=<0, 0, 0>)</call-information>
	7. Verify end-to-end U-plane connection between IUT and TS_1
	8. Verify that the IUT sends to TS_1 a {CC-RELEASE} message
Comments:	The PP shall filter the calls that are related to a given line thanks to the line identifier
	field

TC_PT_NG1.N.16_BV_2605	Virtual contact list - Read entries - Initiate an external call
Reference:	TS 102 527-3 [14], Clauses 7.4.11.5 and 7.4.10.5.7
Initial condition:	Contact test list content (see Clause 4.1.1.6)
miliar condition.	FP implements the NG1.N.14 "Multiple lines" feature
	T-00
Stimulus:	Open the Contact list from IUT
Olimaias.	2. Send a {CC-CALL-PROC} message from TS_1
	3. Send a <start confirm,="" discriminator="" id="1," nb="10," nb<="" session="" td="" total="" type="0,"></start>
	of sorting fields =1,sorting field id1 =1> from TS_1
	4. For each <read entries=""> received, send a <read confirm,="" entries="" id="1" session=""></read></read>
	from TS_1, followed by <data data="" last="" packet=""> with the number i of</data>
	requested entries from s start index
	Scroll down into the alphabetical list on IUT
	5. For each <read entries=""> received, send a <read confirm,="" entries="" id="1" session=""></read></read>
	from TS_1, followed by <data data="" last="" packet=""> with the number i of</data>
	requested entries from s start index
	Scroll up into the alphabetical list on IUT
	6. Phone back "WOJCIECHOSKI" entry (entry can be selected using the Contact
	number1 "0675000321")
	7. Send a {CC-CONNECT} message from TS_1 with an IE < <codec-list>> set to</codec-list>
	G.722
	Send a {CC-INFO} message with IE < <call-information>> specifying (line 1,</call-information>
	full VoIP line type information, call id a) = $<(1, 0, 0)$, $(0, 5, 1)$, $(1, 0, value a)>$ from
	TS_1
	Send a {CC-INFO} message with IE < <call-information>> specifying (call id</call-information>
	a, CS call proc) =<(1, 0, value a), (2, 1, 3)> from TS_1
	Send a {CC-INFO} message with IE < <call-information>> specifying (call id</call-information>
	a, CS call alerting) =<(1, 0, value a), (2, 1, 4)> from TS_1
	Send a {CC-INFO} message with IE < <call-information>> specifying (call id</call-information>
	a, CS call connect) = $<(1, 0, \text{ value a}), (2, 1, 5)> \text{ from TS}_1$
	8. Hang up on IUT
	9. Send a {CC-RELEASE-COM} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <basic-service <lia="" =="" default="" service="" setup,="" setup<="" speech="" td="" wideband=""></basic-service>
	attributes>>>
	2. Verify that the IUT sends to TS_1 a <start identifier="05H," list="" nb="" of<="" session,="" td=""></start>
	sorting fields =n (n ≥ 0) followed by n sorting field identifiers among 01H, 02H,
	03H, 05H >
	3. Verify that the IUT sends to TS_1 a <read entries,="" id="1," index="s,</td" session="" start=""></read>
	direction=0, counter= i, mark entries request= do not care value, list entry field
	identifier 1n = some or all identifiers among 01H, 02H, 03H, 05H>
	4. After each scrolling event, verify on the IUT's display that the scrolling through the
	entries was performed in the direction of ascending alphanumerical order (i.e. from
	ALEXANDER to WOJCIECHOSKI).
	5. After each scrolling event, verify on the IUT's display that the scrolling through the
	entries was performed in the direction of descending alphanumerical order
	(i.e. from WOJCIECHOSKI to ALEXANDER).
	6. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
	< <multi-keypad>> set to 1CH 15H digits together with "0675000321" digits and</multi-keypad>
	with an IE < <call-information>> requesting the Provider 2 line (=<0, 0, 1>)</call-information>
	7. Verify end-to-end U-plane connection between IUT and TS_1
_	8. Verify that the IUT sends to TS_1 a {CC-RELEASE} message
Comments:	The PP shall filter the calls that are related to a given line thanks to the line identifier
	field
	IUT may also handle the optional field identifier 04H (associated melody) in contact list
	entries ('start session' or 'read entries' commands of the current test case). Test case
	shall not fail because of this

TC_PT_NG1.N.16_BV_2606 Reference: Initial condition: TS 102 527-3 [14], Clauses 7.4.11.5 and 7.4.10.5.11 All incoming calls test list content (see Clause 4.1.1.1.10) FP implements the NG1.N.14 "Multiple lines" feature T-00 Stimulus: 1. Open the All incoming calls list from IUT 2. Send a {CC-CALL-PROC} message from TS_1 3. Send a <start confirm,="" discriminator="" field="" fields="1,sorting" id="1," id1="3" nb="10," niof="" session="" sorting="" total="" type="0,"> from TS_1 4. For each <read entries=""> received, send a <read confirm,="" entries="" id="1" session=""> from TS_1, followed by <data data="" last="" packet=""> with the number i of requested entries from s start index Browse into the list on IUT 5. Phone back "M.UWE" entry (entry can be selected using the contact number "008989945270") 6. Send a {CC-CONNECT} message from TS_1 with an IE <<codec-list>> set to</codec-list></data></read></read></start>
Initial condition: All incoming calls test list content (see Clause 4.1.1.1.10) FP implements the NG1.N.14 "Multiple lines" feature T-00 Stimulus: 1. Open the All incoming calls list from IUT 2. Send a {CC-CALL-PROC} message from TS_1 3. Send a <start confirm,="" discriminator="" field="" fields="1,sorting" id="1," id1="3" nb="10," ni="" of="" session="" sorting="" total="" type="0,"> from TS_1 4. For each <read entries=""> received, send a <read confirm,="" entries="" id="1" session=""> from TS_1, followed by <data data="" last="" packet=""> with the number i of requested entries from s start index Browse into the list on IUT 5. Phone back "M.UWE" entry (entry can be selected using the contact number "008989945270")</data></read></read></start>
FP implements the NG1.N.14 "Multiple lines" feature T-00 Stimulus: 1. Open the All incoming calls list from IUT 2. Send a {CC-CALL-PROC} message from TS_1 3. Send a <start confirm,="" discriminator="" field="" fields="1,sorting" id="1," id1="3" nb="10," ni="" of="" session="" sorting="" total="" type="0,"> from TS_1 4. For each <read entries=""> received, send a <read confirm,="" entries="" id="1" session=""> from TS_1, followed by <data data="" last="" packet=""> with the number i of requested entries from s start index Browse into the list on IUT 5. Phone back "M.UWE" entry (entry can be selected using the contact number "008989945270")</data></read></read></start>
Stimulus: 1. Open the All incoming calls list from IUT 2. Send a {CC-CALL-PROC} message from TS_1 3. Send a <start confirm,="" discriminator="" field="" fields="1,sorting" id="1," id1="3" nb="10," ni="" of="" session="" sorting="" total="" type="0,"> from TS_1 4. For each <read entries=""> received, send a <read confirm,="" entries="" id="1" session=""> from TS_1, followed by <data data="" last="" packet=""> with the number i of requested entries from s start index Browse into the list on IUT 5. Phone back "M.UWE" entry (entry can be selected using the contact number "008989945270")</data></read></read></start>
 Send a {CC-CALL-PROC} message from TS_1 Send a <start confirm,="" discriminator="" field="" fields="1,sorting" id="1," id1="3" n="" nb="10," of="" session="" sorting="" total="" type="0,"> from TS_1</start> For each <read entries=""> received, send a <read confirm,="" entries="" id="1" session=""> from TS_1, followed by <data data="" last="" packet=""> with the number i of requested entries from s start index Browse into the list on IUT</data></read></read> Phone back "M.UWE" entry (entry can be selected using the contact number "008989945270")
 Send a {CC-CALL-PROC} message from TS_1 Send a <start confirm,="" discriminator="" field="" fields="1,sorting" id="1," id1="3" n="" nb="10," of="" session="" sorting="" total="" type="0,"> from TS_1</start> For each <read entries=""> received, send a <read confirm,="" entries="" id="1" session=""> from TS_1, followed by <data data="" last="" packet=""> with the number i of requested entries from s start index Browse into the list on IUT</data></read></read> Phone back "M.UWE" entry (entry can be selected using the contact number "008989945270")
 Send a <start confirm,="" discriminator="" field="" fields="1," id="1," id1="3" nb="10," not="" session="" sorting="" total="" type="0,"> from TS_1</start> For each <read entries=""> received, send a <read confirm,="" entries="" id="1" session=""> from TS_1, followed by <data data="" last="" packet=""> with the number i of requested entries from s start index Browse into the list on IUT</data></read></read> Phone back "M.UWE" entry (entry can be selected using the contact number "008989945270")
of sorting fields =1,sorting field id1 =3> from TS_1 4. For each <read entries=""> received, send a <read confirm,="" entries="" id="1" session=""> from TS_1, followed by <data data="" last="" packet=""> with the number i of requested entries from s start index Browse into the list on IUT 5. Phone back "M.UWE" entry (entry can be selected using the contact number "008989945270")</data></read></read>
 4. For each <read entries=""> received, send a <read confirm,="" entries="" id="1" session=""> from TS_1, followed by <data data="" last="" packet=""> with the number i of requested entries from s start index Browse into the list on IUT</data></read></read> 5. Phone back "M.UWE" entry (entry can be selected using the contact number "008989945270")
from TS_1, followed by <data data="" last="" packet=""> with the number i of requested entries from s start index Browse into the list on IUT 5. Phone back "M.UWE" entry (entry can be selected using the contact number "008989945270")</data>
requested entries from s start index Browse into the list on IUT 5. Phone back "M.UWE" entry (entry can be selected using the contact number "008989945270")
Browse into the list on IUT 5. Phone back "M.UWE" entry (entry can be selected using the contact number "008989945270")
5. Phone back "M.UWE" entry (entry can be selected using the contact number "008989945270")
"008989945270")
G.722
Send a {CC-INFO} message with IE < <call-information>> specifying (line</call-information>
full VoIP line type information, call id a) $=<(1, 0, 0), (0, 5, 1), (1, 0, value a)>$ from
TS 1
Send a {CC-INFO} message with IE < <call-information>> specifying (call i</call-information>
a, CS call proc) =<(1, 0, value a), (2, 1, 3)> from TS_1
Send a {CC-INFO} message with IE < <call-information>> specifying (call i</call-information>
a, CS call alerting) = $<(1, 0, value a), (2, 1, 4)>$ from TS_1
Send a {CC-INFO} message with IE < <call-information>> specifying (call i</call-information>
a, CS call connect) =<(1, 0, value a), (2, 1, 5)> from TS_1
7. Hang up on IUT
8. Send a {CC-RELEASE-COM} message from TS_1
Pass criteria: 1. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE PASIC SERVICE: It is a server Wildle hand an each defeath server.
< <basic-service <lia="" =="" default="" service="" setup,="" setup<="" speech="" td="" wideband=""></basic-service>
attributes>>>
2. Verify that the IUT sends to TS_1 a <start identifier="09H," list="" nb="" of<="" session,="" td=""></start>
sorting fields =0>
3. Verify that the IUT sends to TS_1 a <read entries,="" id="1," index="s,</td" session="" start=""></read>
direction=0, counter= i, mark entries request= (00H, 7FH, or FFH), list entry field
identifier 1n = some or all identifiers among 01H, 02H, 03H, 04H, 05H, 06H, 07H
<u>></u>
4. For each entry read, verify that entry content is displayed on IUT, line by line, in
the correct sequence from the newest call to the oldest one
5. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
< <multi-keypad>> set to 1CH 15H digits together with "008989945270" digits</multi-keypad>
and with an IE < <call-information>> requesting the Provider 2 line (=<0, 0,</call-information>
1>)
6. Verify end-to-end U-plane connection between IUT and TS_1
7. Verify that the IUT sends to TS_1 a {CC-RELEASE} message
Comments: The PP shall filter the calls that are related to a given line thanks to the line identifier
field

TC_PT_NG1.N.16_BV_2701	DECT system settings list - Current PIN code - New PIN code - Edit entry - Save entry
Reference:	TS 102 527-3 [14], Clauses 7.4.11.3, 7.4.11.3.1 and 7.4.11.3.13
Initial condition:	DECT system settings list content (see Clause 4.1.1.1.8),
	T-00
Stimulus:	Open the DECT system settings list from IUT
	2. Send a {CC-CALL-PROC} message from TS_1
	3. Send a {CIPHER-REQUEST} message from TS_1
	4. Send a <start confirm,="" fields="0" id="1," nb="" of="" session="" sorting=""> from TS_1</start>
	5. For each <read entries=""> received, send a <read confirm,="" entries="" id="1" session=""></read></read>
	from TS_1, followed by <data data="" last="" packet=""> with the requested field(s) Select and edit the PIN code field on IUT</data>
	6. Send to TS_1 a <edit confirm,="" entry="" id="1" session=""> followed by <data data<="" packet="" td=""></data></edit>
	packet last> with current PIN code field set to (FFH, FFH, FFH, FFH) Enter "1234" as old PIN code value
	7. Send to TS_1 a <save available="" confirm,="" entries="1" entry="" id="1," identifier="1," index="1," number="" of="" position="" session="" total=""></save>
	8. Send to TS_1 a <edit confirm,="" entry="" id="1" session=""> followed by <data data<="" packet="" td=""></data></edit>
	packet last> with new PIN code field set to (FFH, FFH, FFH, FFH) and 'PIN protected' property bit set to 1
	Enter "6789" as new PIN code value
	9. Send to TS_1 a <save confirm,="" entry="" id="1," identifier="1," position<="" session="" td=""></save>
	index=1, total number of available entries=1>
	Close the list access service on IUT
	10. If <end session=""> received then send <end confirm,="" id="1" session=""> from</end></end>
	TS_1
	Send a {CC-RELEASE-COM} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <básic-service <lia="" =="" attributes="" default="" service="" setup="" setup,="" speech="" wideband=""> >></básic-service>
	2. Verify that IUT completes the cipher procedure at MAC level
	3. Verify that the IUT sends to TS_1 a <start identifier="07H" list="" session,=""></start>
	4. Verify that the IUT sends to TS_1 a <read care="" counter="1," direction="0," entries="" entries,="" entry="" field<="" id="1," index="s," list="" mark="" not="" request="do" session="" start="" td="" value,=""></read>
	identifier 1n = at the minimum PIN code identifier 01H>
	5. Verify that the IUT requires the user to enter the old PIN code value
	Verify that the IUT sends to TS_1 a <edit entry="" entry,="" id="1," identifier="1," list<="" session="" td=""></edit>
	entry field identifier 1= Current PIN code identifier 01H>
	6. Verify that the IUT sends to TS_1 a <save entry="" entry,="" id="1," identifier="1" session="">,</save>
	followed by <data data="" last="" packet=""> with Current PIN code field set to (FFH, FFH, 12H, 34H)</data>
	7. Verify that the IUT sends to TS_1 a <edit 0dh="" 1="New" code="" entry="" entry,="" field="" id="1," identifier="" list="" pin="" session=""></edit>
	8. Verify that the IUT sends to TS_1 a <save entry="" entry,="" id="1," identifier="1" session="">,</save>
	followed by <data data="" last="" packet=""> with new PIN code field set to (FFH, FFH, 67H, 89H)</data>
	9. Verify that the IUT sends to TS_1 a {CC-RELEASE} message
Comments:	Start session can actually come before ciphering the link
	Settings fields can be read (or edited) one by one, or all in the same <read entries=""></read>
	(respectively <edit entry="">) command</edit>
	For this list, it is allowed that the IUT sends directly an <edit entries=""> without any prior</edit>
	<
	tester in stimulus 5 and pass criteria 4 shall not be tested
	See also DECT system settings list related requirements (see beginning of Clause 6.16)
	1000 also 2201 bystom soldings not related requirements (see beginning or bladde 0.10)

TC_PT_NG1.N.16_BV_2801	DECT system settings list - Clock master - Edit entry - Save entry
Reference:	TS 102 527-3 [14], Clauses 7.4.11.3 and 7.4.11.3.2
Initial condition:	DECT system settings list content (see Clause 4.1.1.1.8),
	T-00
Stimulus:	Open the DECT system settings list from IUT
	2. Send a {CC-CALL-PROC} message from TS_1
	3. Send a <start confirm,="" fields="0" id="2," nb="" of="" session="" sorting=""> from TS_1</start>
	4. For each <read entries=""> received, send a <read confirm,="" entries="" id="2" session=""></read></read>
	from TS_1, followed by <data data="" last="" packet=""> with the requested field(s)</data>
	Select and edit the Clock Master field on IUT
	5. Send a <edit confirm,="" entry="" id="2" session=""> from TS_1, followed by <data< td=""></data<></edit>
	packet/data packet last> with requested field(s)
	Modify the Clock Master field to "Portable Part"
	6. Send a <save confirm,="" entry="" id="2," identifier="1," index="1,</td" position="" session=""></save>
	total number of available entries=1> from TS_1
	Close the list access service on IUT
	7. If <end session=""> received then send <end confirm,="" id="2" session=""> from</end></end>
	TS_1
	Send a {CC-RELEASE-COM} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <basic-service <lia="" =="" default="" service="" setup,="" setup<="" speech="" td="" wideband=""></basic-service>
	attributes> >>
	2. Verify that the IUT sends to TS_1 a <start identifier="07H" list="" session,=""></start>
	3. Verify that the IUT sends to TS_1 a <read entries,="" id="2," index="s,</td" session="" start=""></read>
	direction=0, counter=1, mark entries request= do not care value, list entry field
	identifier 1n = at the minimum Clock master identifier 02H>
	4. Verify that the IUT sends to TS_1 a <edit entry="" entry,="" id="2," identifier="1," list<="" session="" td=""></edit>
	entry field identifier 1= at the minimum Clock master identifier 02H>
	5. Verify that the IUT sends to TS_1 a <save entry="" entry,="" id="2," identifier="1" session="">,</save>
	followed by <data data="" last="" packet=""> with Clock Master field set to 31H, and</data>
	other edited fields, if any, not modified
	6. Verify that the IUT sends to TS_1, optionally a <end id="2" session="" session,="">, and a</end>
	{CC-RELEASE} message
Comments:	Settings fields can be read (or edited) one by one, or all in the same <read entries=""></read>
	(respectively <edit entry="">) command</edit>
	For this list, it is allowed that the IUT sends directly an <edit entries=""> without any prior</edit>
	<read entries=""> command. If this is the case, no <read entries=""> will be received by the</read></read>
	tester in stimulus 4 and pass criteria 3 shall not be tested
	See also DECT system settings list related requirements (see beginning of Clause 6.16)

TC_PT_NG1.N.16_BV_2901	DECT system settings list - Base reset - Edit entry - Save entry
Reference:	TS 102 527-3 [14], Clauses 7.4.11.3 and 7.4.11.3.3
Initial condition:	DECT system settings list content (see Clause 4.1.1.1.8), with 'PIN protected' property
	bit set to 0 for 'Base reset' field.
	T-00
Stimulus:	Open the DECT system settings list from IUT
	2. Send a {CC-CALL-PROC} message from TS_1
	3. Send a <start confirm,="" fields="0" id="3," nb="" of="" session="" sorting=""> from TS_1</start>
	4. For each <read entries=""> received, send a <read confirm,="" entries="" id="3" session=""></read></read>
	from TS_1, followed by <data data="" last="" packet=""> with the requested field(s) Select and edit the Base reset field on IUT</data>
	5. Send a <edit confirm,="" entry="" id="3" session=""> from TS_1, followed by <data< td=""></data<></edit>
	packet/data packet last> with requested field(s)
	Modify the Base reset field to "Yes"
	 Send a <save confirm,="" entry="" id="3," identifier="1," index="1,<br" position="" session="">total number of available entries=1> from TS_1</save>
	Send a {CC-RELEASE } message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <basic-service <lia="" =="" attributes="" default="" service="" setup="" setup,="" speech="" wideband=""> >></basic-service>
	2. Verify that the IUT sends to TS_1 a <start identifier="07H" list="" session,=""></start>
	3. Verify that the IUT sends to TS_1 a <read care="" counter="1," direction="0," entries="" entries,="" entry="" field<="" id="3," index="s," list="" mark="" not="" request="do" session="" start="" td="" value,=""></read>
	identifier 1n = at the minimum Base reset identifier 03H>
	4. Verify that the IUT sends to TS_1 a <edit 03h="" 1="at" base="" entry="" entry,="" field="" id="3," identifier="" list="" minimum="" reset="" session="" the=""></edit>
	5. Verify that the IUT sends to TS_1 a <save entry="" entry,="" id="3," identifier="1" session="">,</save>
	followed by <data data="" last="" packet=""> with Base reset field set to 31H, and other edited fields, if any, not modified</data>
	6. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
Comments:	Settings fields can be read (or edited) one by one, or all in the same <read entries=""></read>
	(respectively <edit entry="">) command</edit>
	For this list, it is allowed that the IUT sends directly an <edit entries=""> without any prior</edit>
	<
	tester in stimulus 4 and pass criteria 3 shall not be tested
	See also DECT system settings list related requirements (see beginning of Clause 6.16)

124

ETSI

See also DECT system settings list related requirements (see beginning of Clause 6.16)

125

Comments:	 Settings fields can be read (or edited) one by one, or all in the same <read entries=""> (respectively <edit entry="">) command</edit></read> For this list, it is allowed that the IUT sends directly an <edit entries=""> without any prior <read entries=""> command. If this is the case, no <read entries=""> will be received by the tester in stimulus 4 and pass criteria 3 shall not be tested</read></read></edit> In pass criterion 7, IP address type is static, hence DHCP=0 and static=1 In pass criterion 4 and 6, field id '07'H may be present several times. As the test equipment only supports one DNS server setting, occurrences other than the first one shall be ignored In pass criteria 4 to 7 some of the IP address sub fields may not be supported by the IUT depending on the declarations NG1.N.16_30/31/32/33/34 (see Table A.7 in Clause A.1.3) See also DECT system settings list related requirements (see beginning of
	Clause 6.16)

TC_PT_NG1.N.16_BV_3501	DECT system settings list - FP version - Read entries
Reference:	TS 102 527-3 [14], Clauses 7.4.11.3, 7.4.11.3.9, 7.4.11.3.10 and 7.4.11.3.11
Initial condition:	DECT system settings list content (see Clause 4.1.1.1.8),
	T-00
Stimulus:	1. Open the DECT system settings list from IUT
	2. Send a {CC-CALL-PROC} message from TS_1
	3. Send a <start confirm,="" fields="0" id="5," nb="" of="" session="" sorting=""> from TS_1</start>
	4. For each <read entries=""> received, send a <read confirm,="" entries="" id="5" session=""></read></read>
	from TS_1, followed by <data data="" last="" packet=""> with the requested field(s)</data>
	Browse into the FP version field(s) on the IUT
	5. Close the list access service on IUT
	6. If <end session=""> received then send <end confirm,="" id="5" session=""> from</end></end>
	TS_1
	Send a {CC-RELEASE-COM} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <basic-service <lia="" =="" default="" service="" setup,="" setup<="" speech="" td="" wideband=""></basic-service>
	attributes>>>
	2. Verify that the IUT sends to TS_1 a <start identifier="07H" list="" session,=""> 3. Verify that the IUT sends to TS_1 a <read entries,="" id="5," index="s.</td" session="" start=""></read></start>
	3. Verify that the IUT sends to TS_1 a <read care="" counter="1," direction="0," entries="" entries,="" entry="" field<="" id="5," index="s," list="" mark="" not="" request="do" session="" start="" td="" value,=""></read>
	identifier 1n = at the minimum FP version identifiers 09H, 0AH> (0BH if declared,
	see Annex A, Table A.7) >
	4. Verify that the FP version fields are displayed on IUT
	Firmware version = "F1.2C8"
	Eeprom version = "E1.5C6"
	Hardware version = "H1.4A2" if declared (see Annex A, Table A.7)
	5. Verify that the IUT sends to TS_1, optionally a <end id="5" session="" session,="">, and a</end>
	{CC-RELEASE} message
Comments:	- Settings fields can be read one by one, or all in the same <read entries=""></read>
	command
	 For this list, it is allowed that the IUT sends directly an <edit entries=""> without</edit>
	any prior <read entries=""> command. If this is the case, no <read entries=""> will be</read></read>
	received by the tester in stimulus 4 and pass criteria 3 shall not be tested
	- See also DECT system settings list related requirements (see beginning of
	Clause 6.16)

TC_PT_NG1.N.16_BV_3801	Line settings list - Line name - Edit entry - Save entry
Reference:	TS 102 527-3 [14], Clause 7.4.11.4.1
Initial condition:	Line settings list content (see Clause 4.1.1.1.9),
	T-00
Stimulus:	Open the Line settings list from IUT
	2. Send a {CC-CALL-PROC} message from TS_1
	3. Send a <start confirm,="" discriminator="" id="1," nb="2," nb<="" session="" td="" total="" type="0,"></start>
	of sorting fields =1,sorting field id1 =2> from TS_1
	4. For each <read entries=""> received, send a <read confirm,="" entries="" id="1" session=""></read></read>
	from TS_1, followed by <data data="" last="" packet=""> with the requested field(s)</data>
	Select first line and edit the Line name field from IUT
	5. Send a <edit confirm,="" entry="" id="1" session=""> from TS_1, followed by <data< td=""></data<></edit>
	packet/data packet last> with requested field(s)
	Modify the Line name field to "Line for test"
	6. Send a <save confirm,="" entry="" id="1," identifier="1," index="1,</td" position="" session=""></save>
	total number of available entries=2> from TS_1
	Close the list access service on IUT
	7. If <end session=""> received then send <end confirm,="" id="1" session=""> from</end></end>
	TS_1
	Send a {CC-RELEASE-COM} message from TS_1
	Send a {FACILITY} message from TS_1 with IE < <events notification="<</td"></events>
	List change indication, Line settings list, 1> (=<03H,88H,81H>) >> and
	IE< <call-information>> specifying (Relating to line 0) =<(0, 3, 0)></call-information>
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <basic-service <lia="" =="" default="" service="" setup,="" setup<="" speech="" td="" wideband=""></basic-service>
	attributes>>>
	2. Verify that the IUT sends to TS_1 a <start identifier="08H," list="" nb="" of<="" session,="" td=""></start>
	sorting fields = n (n ≥ 0) followed by n sorting field identifiers among 01H, 02H >
	3. Verify that the IUT sends to TS_1 a <read entries,="" id="1," index="s,</td" session="" start=""></read>
	direction=0, counter=i, mark entries request= do not care value, list entry field
	identifier 1n = at the minimum Line name identifier 01H>
	4. Verify that the IUT sends to TS_1 a <edit entry="" entry,="" id="1," identifier="1," list<="" session="" td=""></edit>
	entry field identifier 1= at the minimum Line name identifier 01H> (some other
	fields can be edited at the same time)
	5. Verify that the IUT sends to TS_1 a <save entry="" entry,="" id="1," identifier="1" session="">,</save>
	followed by <data data="" last="" packet=""> with Line name field set to "Line for</data>
	test", and other edited fields, if any, not modified
	6. Verify that the IUT sends to TS_1 a {CC-RELEASE} message
Comments:	- Settings fields can be read (or edited) one by one, or all in the same <read< td=""></read<>
	entries> (respectively <edit entry="">) command</edit>
	 Possible session with DECT system settings list implies fulfilment of DECT
	system settings list related requirements (see beginning of Clause 6.16)

TC_PT_NG1.N.16_BV_4002	Line settings list - Attached handsets - PIN protected - Edit entry - Save entry
Reference:	TS 102 527-3 [14], Clauses 7.4.11.1 and 7.4.11.4.3
Initial condition:	Line settings list content (see Clause 4.1.1.1.9) with 'PIN protected' property bit set to 1
	for 'Attached handset' field of line 2 (see Clause 4.1.1.1.9)
	DECT system settings list content (see Clause 4.1.1.1.8)
	T-00
Stimulus:	Open the Line settings list from IUT
	2. Send a {CC-CALL-PROC} message from TS_1
	3. Send a <start confirm,="" discriminator="" id="4," nb="2," nb<="" session="" td="" total="" type="0,"></start>
	of sorting fields =1,sorting field id1 =2> from TS_1
	4. For each <read entries=""> received, send a <read confirm,="" entries="" id="4" session=""></read></read>
	from TS_1, followed by <data data="" last="" packet=""> with the requested field(s)</data>
	and with 'PIN protected' property bit set to 1 for 'Attached handsets' field
	Select second line and edit the Attached handsets field from IUT
	 5. Send a <start confirm,="" fields="0" id="5," nb="" of="" session="" sorting=""> from TS_1</start> 6. For each <read entries=""> received, send a <read confirm,="" entries="" id="5" session=""></read></read>
	from TS_1, followed by <data data="" last="" packet=""> with the requested field(s)</data>
	7. Send to TS_1 a <edit confirm,="" entry="" id="5" session=""> followed by <data data<="" packet="" td=""></data></edit>
	packet last> with current PIN code field set to (FFH, FFH, FFH)
	Enter "1234" as current PIN code value
	8. Send to TS_1 a <save confirm,="" entry="" id="5," identifier="1," position<="" session="" td=""></save>
	index=1, total number of available entries=1>
	9. Send to TS_1 a <end confirm,="" id="5" session=""></end>
	10. Send a <edit confirm,="" entry="" id="4" session=""> from TS_1, followed by <data< td=""></data<></edit>
	packet/data packet last> with requested field(s)
	Terminate the edit entry without changing the entry content
	11 Send a <save confirm,="" entry="" id="4," identifier="2," index="2,</td" position="" session=""></save>
	total number of available entries=2> from TS_1
	Close the list access service on IUT
	12. If <end session=""> received then send <end confirm,="" id="4" session=""> from</end></end>
	TS_1 Send a {CC-RELEASE-COM} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
r dos oritoria.	< <basic-service <lia="" =="" default="" service="" setup,="" setup<="" speech="" td="" wideband=""></basic-service>
	attributes>>>
	2. Verify that the IUT sends to TS_1 a <start identifier="08H," list="" nb="" of<="" session,="" td=""></start>
	sorting fields = n (n ≥ 0) followed by n sorting field identifiers among 01H, 02H >
	3. Verify that the IUT sends to TS_1 a <read entries,="" id="4," index="s,</td" session="" start=""></read>
	direction=0, counter=i, mark entries request= do not care value, list entry field
	identifier 1n = at the minimum Attached handsets field identifier 03H>
	4. Verify that the IUT sends to TS_1 a <start identifier="07H" list="" session,=""></start>
	5. Verify that the IUT sends to TS_1 a <read entries,="" id="5," index="s,</td" session="" start=""></read>
	identifier 1n = at least Current PIN code identifier 01H >
	6. Verify that the IUT requires the user to enter the PIN code value
	Verify that the IUT sends to TS_1 a <edit entry="" entry,="" id="5," identifier="1," list<="" session="" td=""></edit>
	entry field identifier 1= Current PIN code identifier 01H>
	7. Verify that the IUT sends to TS_1 a <save entry="" entry,="" id="5," identifier="1" session="">,</save>
	followed by <data data="" last="" packet=""> with Current PIN code field set to (FFH,</data>
	FFH, 12H, 34H)
	8. Verify that the IUT sends to TS_1 a <end id="5" session="" session,=""></end>
	9. Verify that the IUT sends to TS_1 a <edit entry="" entry,="" id="4," identifier="2," list<="" session="" td=""></edit>
	entry field identifier 1= at the minimum Attached handsets field identifier 03H> 10. Verify that the IUT sends to TS_1 a <save entry="" entry,="" id="4," identifier="2" session="">,</save>
	followed by one empty <data data="" last="" packet=""></data>
	11. Verify that the IUT sends to TS_1, optionally a <end id="4" session="" session,="">, and a</end>
	{CC-RELEASE} message
Comments:	- Settings fields can be read (or edited) one by one, or all in the same <read< td=""></read<>
	entries> (respectively <edit entry="">) command</edit>
	IUT can open the internal names list to know the registered handsets list
	Instead of asking the PIN before editing a field protected by the FP, the IUT
	might also ask for PIN before opening the list via start session, or before
	reading a field, or before editing a field (although it is not protected by the FP),
	or before saving a field (either protected or not by the FP). All these implementations are accepted
	Session with DECT system settings list implies fulfilment of DECT system
	settings list related requirements (see beginning of Clause 6.16)

TC_PT_NG1.N.16_BV_4101	Line settings list - Dialing prefix - Edit entry - Save entry
Reference:	TS 102 527-3 [14], Clause 7.4.11.4.4
Initial condition:	Line settings list content (see Clause 4.1.1.1.9),
	T-00
Stimulus:	Open the Line settings list from IUT
	2. Send a {CC-CALL-PROC} message from TS_1
	3. Send a <start confirm,="" discriminator="" field="" fields="1,sorting" id="4," id1="2" nb="" of="" session="" sorting="" total="" type="0,"> from TS_1</start>
	4. For each <read entries=""> received, send a <read confirm,="" entries="" id="4" session=""></read></read>
	from TS_1, followed by <data data="" last="" packet=""> with the requested field(s) Select first line and edit the Dialing prefix field from IUT</data>
	5. Send a <edit confirm,="" entry="" id="4" session=""> from TS_1, followed by <data< td=""></data<></edit>
	packet/data packet last> with requested field(s)
	Modify the Dialing prefix field to "0033"
	 Send a <save confirm,="" entry="" id="4," identifier="1," index="1,<br" position="" session="">total number of available entries=2> from TS_1</save>
	Close the list access service on IUT
	7. If <end session=""> received then send <end confirm,="" id="4" session=""> from</end></end>
	TS_1
	Send a {CC-RELEASE-COM} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <basic-service <lia="" =="" attributes="" default="" service="" setup="" setup,="" speech="" wideband=""> >></basic-service>
	2. Verify that the IUT sends to TS_1 a <start (n="" 0)="" 01h,="" 02h="" among="" by="" field="" fields="n" followed="" identifier="08H," identifiers="" list="" n="" nb="" of="" session,="" sorting="" ≥=""></start>
	3. Verify that the IUT sends to TS_1 a <read entries,="" id="4," index="s,</td" session="" start=""></read>
	direction=0, counter=i, mark entries request= do not care value, list entry field
	identifier 1n = at the minimum Dialing prefix identifier 04H>
	4. Verify that the IUT sends to TS_1 a <edit entry="" entry,="" id="4," identifier="1," list<="" session="" td=""></edit>
	entry field identifier 1= at the minimum Dialing prefix identifier 04H>
	5. Verify that the IUT sends to TS_1 a <save entry="" entry,="" id="4," identifier="1" session="">,</save>
	followed by <data data="" last="" packet=""> with Dialing prefix field set to "0033",</data>
	and other edited fields, if any, not modified
	6. Verify that the IUT sends to TS_1, optionally a <end id="4" session="" session,="">, and a</end>
0	{CC-RELEASE} message
Comments:	- Settings fields can be read (or edited) one by one, or all in the same <read< td=""></read<>
	entries> (respectively <edit entry="">) command</edit>
	- Possible session with DECT system settings list implies fulfilment of DECT
	system settings list related requirements (see beginning of Clause 6.16)

TC_PT_NG1.N.16_BV_4201	Line settings list - FP melody - Edit entry - Save entry
Reference:	TS 102 527-3 [14], Clause 7.4.11.4.5
Initial condition:	Line settings list content (see Clause 4.1.1.1.9),
	T-00
Stimulus:	Open the Line settings list from IUT
	2. Send a {CC-CALL-PROC} message from TS_1
	 Send a <start confirm,="" discriminator="" id="5," nb="2," nb<br="" session="" total="" type="0,">of sorting fields =1,sorting field id1 =2> from TS_1</start>
	4. For each <read entries=""> received, send a <read confirm,="" entries="" id="5" session=""></read></read>
	from TS_1, followed by <data data="" last="" packet=""> with the requested field(s) Select second line and edit the FP melody field from IUT</data>
	5. Send a <edit confirm,="" entry="" id="5" session=""> from TS_1, followed by <data< td=""></data<></edit>
	packet/data packet last> with requested field(s)
	Modify FP melody field to melody 1
	6. Send a <save confirm,="" entry="" id="5," identifier="2," index="2,</td" position="" session=""></save>
	total number of available entries=2> from TS_1
	Close the list access service on IUT
	7. If <end session=""> received then send <end confirm,="" id="5" session=""> from TS_1</end></end>
	Send a {CC-RELEASE-COM} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <basic-service <lia="" =="" attributes="" default="" service="" setup="" setup,="" speech="" wideband=""> >></basic-service>
	2. Verify that the IUT sends to TS_1 a <start (n="" 0)="" 01h,="" 02h="" among="" by="" field="" fields="n" followed="" identifier="08H," identifiers="" list="" n="" nb="" of="" session,="" sorting="" ≥=""></start>
	3. Verify that the IUT sends to TS_1 a <read entries,="" id="5," index="s,</td" session="" start=""></read>
	direction=0, counter=i, mark entries request= do not care value, list entry field
	identifier 1n = at the minimum FP melody identifier 05H>
	4. Verify that the IUT sends to TS_1 a <edit entry="" entry,="" id="5," identifier="2," list<="" session="" td=""></edit>
	entry field identifier 1= at the minimum FP melody identifier 05H>
	5. Verify that the IUT sends to TS_1 a <save entry="" entry,="" id="5," identifier="2" session="">, followed by <data data="" last="" packet=""> with FP melody field set to 01H, and</data></save>
	other edited fields, if any, not modified
	6. Verify that the IUT sends to TS_1, optionally a <end id="5" session="" session,="">, and a {CC-RELEASE} message</end>
Comments:	- Settings fields can be read (or edited) one by one, or all in the same <read< td=""></read<>
Comments.	entries> (respectively <edit entry="">) command</edit>
	Possible session with DECT system settings list implies fulfilment of DECT
	system settings list related requirements (see beginning of Clause 6.16)
	e jetem comings not rotated requirements (650 beginning or oldade 6.10)

TC_PT_NG1.N.16_BV_4301	Line settings list - FP volume - Edit entry - Save entry
Reference:	TS 102 527-3 [14], Clause 7.4.11.4.6
Initial condition:	Line settings list content (see Clause 4.1.1.1.9),
	T-00
Stimulus:	Open the Line settings list from IUT
	2. Send a {CC-CALL-PROC} message from TS_1
	3. Send a <start confirm,="" discriminator="" field="" fields="1,sorting" id="6," id1="2" nb="" of="" session="" sorting="" total="" type="0,"> from TS_1</start>
	4. For each <read entries=""> received, send a <read confirm,="" entries="" id="6" session=""></read></read>
	from TS_1, followed by <data data="" last="" packet=""> with the requested field(s) Select second line and edit the FP volume field from IUT</data>
	5. Send a <edit confirm,="" entry="" id="6" session=""> from TS_1, followed by <data< td=""></data<></edit>
	packet/data packet last> with requested field(s)
	Modify FP volume field to volume 3
	6. Send a <save confirm,="" entry="" id="6," identifier="2," index="2,</td" position="" session=""></save>
	total number of available entries=2> from TS_1
	Close the list access service on IUT
	7. If <end session=""> received then send <end confirm,="" id="6" session=""> from</end></end>
	TS_1
	Send a {CC-RELEASE-COM} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
ass officia.	< <basic-service <lia="" =="" attributes="" default="" service="" setup="" setup,="" speech="" wideband=""> >></basic-service>
	2. Verify that the IUT sends to TS_1 a <start (n="" 0)="" 01h,="" 02h="" among="" by="" field="" fields="n" followed="" identifier="08H," identifiers="" list="" n="" nb="" of="" session,="" sorting="" ≥=""></start>
	3. Verify that the IUT sends to TS_1 a <read entries,="" id="6," index="s,</td" session="" start=""></read>
	direction=0, counter=i, mark entries request= do not care value, list entry field
	identifier 1n = at the minimum FP volume identifier 06H>
	4. Verify that the IUT sends to TS_1 a <edit entry="" entry,="" id="6," identifier="2," list<="" session="" td=""></edit>
	entry field identifier 1= at the minimum FP volume identifier 06H>
	5. Verify that the IUT sends to TS_1 a <save entry="" entry,="" id="6," identifier="2" session="">,</save>
	followed by <data data="" last="" packet=""> with FP volume field set to 33H, and</data>
	other edited fields, if any, not modified
	6. Verify that the IUT sends to TS_1, optionally a <end id="6" session="" session,="">, and a</end>
Comments:	{CC-RELEASE} message
Comments.	- Settings fields can be read (or edited) one by one, or all in the same <read< td=""></read<>
	entries> (respectively <edit entry="">) command</edit>
	- Possible session with DECT system settings list implies fulfilment of DECT
	system settings list related requirements (see beginning of Clause 6.16)

entry.	2 527-3 [14], Clauses 7.4.11.4.7 and 7.4.10.1, 'Field instances management' ettings list content (see Clause 4.1.1.1.9),
Initial condition: Line s	ottinga list content (con Clause 4.1.1.1.0)
	attings list content (acc Clause 4.1.1.1.0)
T 00	ettings list content (see Clause 4.1.1.1.9),
1-00	
	Open the Line settings list from IUT
	Send a {CC-CALL-PROC} message from TS_1
	Send a <start confirm,="" discriminator="" field="" fields="1,sorting" id="7," id1="2" nb="" of="" session="" sorting="" total="" type="0,"> from TS_1</start>
4.	For each <read entries=""> received, send a <read confirm,="" entries="" id="7" session=""> from TS_1, followed by <data data="" last="" packet=""> with the requested field(s)</data></read></read>
	Select second line and edit the Blocked number field from IUT
	Send a <edit confirm,="" entry="" id="6" session=""> from TS_1, followed by <data data="" last="" packet=""> with requested field(s)</data></edit>
	Modify Blocked number field to "00*"
	Send a <save available="" confirm,="" entries="2" entry="" id="7," identifier="2," index="2," number="" of="" position="" session="" total=""> from TS_1</save>
	Close the list access service on IUT
	If <end session=""> received then send <end confirm,="" id="7" session=""> from TS_1</end></end>
	Send a {CC-RELEASE-COM} message from TS_1
	Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <básic-service <lia="" =="" default="" service="" setup,="" setup<="" speech="" td="" wideband=""></básic-service>
2.	Verify that the IUT sends to TS_1 a <start (n="" 0)="" 01h,="" 02h="" among="" by="" field="" fields="n" followed="" identifier="08H," identifiers="" list="" n="" nb="" of="" session,="" sorting="" ≥=""></start>
3.	Verify that the IUT sends to TS_1 a <read 07h="" 1n="at" blocked="" care="" counter="i," direction="0," entries="" entries,="" entry="" field="" id="7," identifier="" index="s," list="" mark="" minimum="" not="" number="" request="do" session="" start="" the="" value,=""></read>
	Verify that the IUT sends to TS_1 a <edit entry="" entry,="" id="7," identifier="2," list<="" session="" td=""></edit>
	entry field identifier 1= at the minimum Blocked number identifier 07H>
5.	Verify that the IUT sends to TS_1 a <save entry="" entry,="" id="7," identifier="2" session="">,</save>
	followed by <data data="" last="" packet=""> with Blocked number field set to "00*",</data>
	and other edited fields, if any, not modified
	Verify that the IUT sends to TS_1, optionally a <end id="7" session="" session,="">, and a {CC-RELEASE} message</end>
Comments: -	Settings fields can be read (or edited) one by one, or all in the same <read< td=""></read<>
	entries> (respectively <edit entry="">) command</edit>
-	In pass criterion 4, field id '07'H may be present several times. As the test
	equipment only supports one blocked number, occurrences other than the first one shall be ignored
_	Possible session with DECT system settings list implies fulfilment of DECT
	system settings list related requirements (see beginning of Clause 6.16)

TC_PT_NG1.N.16_BV_4501	Line settings list - Multiple calls mode - Edit entry - Save entry
Reference:	TS 102 527-3 [14], Clause 7.4.11.4.8
Initial condition:	Line settings list content (see Clause 4.1.1.1.9),
	T-00
Stimulus:	Open the Line settings list from IUT
	2. Send a {CC-CALL-PROC} message from TS_1
	3. Send a <start confirm,="" discriminator="" id="8," nb="2," nb<="" session="" td="" total="" type="0,"></start>
	of sorting fields =1,sorting field id1 =2> from TS_1
	4. For each <read entries=""> received, send a <read confirm,="" entries="" id="8" session=""></read></read>
	from TS_1, followed by <data data="" last="" packet=""> with the requested field(s)</data>
	Select first line and edit the Multiple calls mode field from IUT
	5. Send a <edit confirm,="" entry="" id="8" session=""> from TS_1, followed by <data< td=""></data<></edit>
	packet/data packet last> with requested field(s)
	Modify Multiple calls mode field to Multiple call
	6. Send a <save confirm,="" entry="" id="8," identifier="1," index="1,</td" position="" session=""></save>
	total number of available entries=2> from TS_1
	Close the list access service on IUT
	7. Send a {CC- If <end session=""> received then send <end confirm,="" session="" session<="" td=""></end></end>
	id=8> from TS_1
	Send a {CC-RELEASE-COM} message from TS_1
	Send a {FACILITY} message from TS_1 with IE < <events notification="<</td"></events>
	List change indication, Line settings list, 1> (=<03H,88H,81H>) >> and
	IE< <call-information>> specifying (Relating to line 0) =<(0, 3, 0)></call-information>
Pass criteria:	Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <basic-service <lia="" =="" default="" service="" setup,="" setup<="" speech="" td="" wideband=""></basic-service>
	attributes> >>
	2. Verify that the IUT sends to TS_1 a <start identifier="08H," list="" nb="" of<="" session,="" td=""></start>
	sorting fields = n (n ≥ 0) followed by n sorting field identifiers among 01H, 02H >
	3. Verify that the IUT sends to TS_1 a <read entries,="" id="8," index="s,</td" session="" start=""></read>
	direction=0, counter=i, mark entries request= do not care value, list entry field
	identifier 1n = at the minimum Multiple calls mode identifier 08H>
	4. Verify that the IUT sends to TS_1 a <edit entry="" entry,="" id="8," identifier="1," list<="" session="" td=""></edit>
	entry field identifier 1= at the minimum Multiple calls mode identifier 08H>
	5. Verify that the IUT sends to TS_1 a <save entry="" entry,="" id="8," identifier="1" session="">,</save>
	followed by <data data="" last="" packet=""> with Multiple calls mode field set to</data>
	31H, and other edited fields, if any, not modified
	6. Verify that the IUT sends to TS_1, optionally a <end id="8" session="" session,="">, and a</end>
	{CC-RELEASE} message
Comments:	- Settings fields can be read (or edited) one by one, or all in the same <read< td=""></read<>
	entries> (respectively <edit entry="">) command</edit>
	- Possible session with DECT system settings list implies fulfilment of DECT
	system settings list related requirements (see beginning of Clause 6.16)

TC_PT_NG1.N.16_BV_4601	Line settings list - Intrusion call - Edit entry - Save entry
Reference:	TS 102 527-3 [14], Clause 7.4.11.4.8
Initial condition:	Line settings list content (see Clause 4.1.1.1.9),
	T-00
Stimulus:	Open the Line settings list from IUT
	2. Send a {CC-CALL-PROC} message from TS_1
	3. Send a <start confirm,="" discriminator="" field="" fields="1,sorting" id="9," id1="2" nb="" of="" session="" sorting="" total="" type="0,"> from TS_1</start>
	 For each <read entries=""> received, send a <read confirm,="" entries="" id="9" session=""> from TS_1, followed by <data data="" last="" packet=""> with the requested field(s) Select first line and edit the Intrusion call field from IUT</data></read></read>
	 Send a <edit confirm,="" entry="" id="9" session=""> from TS_1, followed by <data packet/data packet last> with requested field(s) Modify Intrusion call field to Allowed</data </edit>
	6. Send a <save available="" confirm,="" entries="2" entry="" id="9," identifier="1," index="1," number="" of="" position="" session="" total=""> from TS_1 Close the list access service on IUT</save>
	 If <end session=""> received then send <end confirm,="" id="9" session=""> from TS_1</end></end>
	Send a {CC-RELEASE-COM} message from TS_1 Send a {FACILITY} message from TS_1 with IE < <events 1="" change="" indication,="" line="" list="" list,="" notification="<" settings=""> (=<03H,88H,81H>) >> and IE<<call-information>> specifying (Relating to line 0) =<(0, 3, 0)></call-information></events>
Pass criteria:	Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE < <basic-service <lia="" =="" attributes="" default="" service="" setup="" setup,="" speech="" wideband=""> >></basic-service>
	2. Verify that the IUT sends to TS_1 a <start (n="" 0)="" 01h,="" 02h="" among="" by="" field="" fields="n" followed="" identifier="08H," identifiers="" list="" n="" nb="" of="" session,="" sorting="" ≥=""></start>
	 Verify that the IUT sends to TS_1 a <read 09h="" 1n="at" call="" care="" counter="i," direction="0," entries="" entries,="" entry="" field="" id="9," identifier="" index="s," intrusion="" list="" mark="" minimum="" not="" request="do" session="" start="" the="" value,=""></read>
	4. Verify that the IUT sends to TS_1 a <edit 09h="" 1="at" call="" entry="" entry,="" field="" id="9," identifier="" intrusion="" list="" minimum="" session="" the=""></edit>
	5. Verify that the IUT sends to TS_1 a <save entry="" entry,="" id="9," identifier="1" session="">, followed by <data data="" last="" packet=""> with Intrusion call field set to 31H, and other edited fields, if any, not modified</data></save>
	6. Verify that the IUT sends to TS_1, optionally a <end id="9" session="" session,="">, and a {CC-RELEASE} message</end>
Comments:	 Settings fields can be read (or edited) one by one, or all in the same <read entries=""> (respectively <edit entry="">) command</edit></read> Possible session with DECT system settings list implies fulfilment of DECT
	system settings list related requirements (see beginning of Clause 6.16)

TC_PT_NG1.N.16_BV_4701	Line settings list - Permanent CLIR - Edit entry - Save entry - "Value" subfield
Reference:	TS 102 527-3 [14], Clause 7.4.11.4.8
Initial condition:	Line settings list content (see Clause 4.1.1.1.9),
	T-00
Stimulus:	Open the Line settings list from IUT
	2. Send a {CC-CALL-PROC} message from TS_1
	3. Send a <start confirm,="" discriminator="" id="10," nb="2," nb<="" session="" td="" total="" type="0,"></start>
	of sorting fields =1,sorting field id1 =2> from TS_1
	4. For each <read entries=""> received, send a <read confirm,="" entries="" id="10" session=""> from TS_1, followed by <data data="" last="" packet=""> with the requested field(s)</data></read></read>
	Select first line and edit the Permanent CLIR field from IUT
	5. Send a <edit confirm,="" entry="" id="10" session=""> from TS_1, followed by <data< td=""></data<></edit>
	packet/data packet last> with requested field(s)
	Modify Permanent CLIR field to "Value" subfield set to Activated
	6. Send a <save available="" confirm,="" entries="2" entry="" id="10," identifier="1," index="1," number="" of="" position="" session="" total=""> from TS_1</save>
	Close the list access service on IUT
	7. If <end session=""> received then send <end confirm,="" id="10" session=""> from TS_1</end></end>
	Send a {CC-RELEASE-COM} message from TS_1
	Send a {FACILITY} message from TS_1 with IE < <events notification="<</td"></events>
	List change indication, Line settings list, 1> (=<03H,88H,81H>) >> and
	IE< <call-information>> specifying (Relating to line 0) =<(0, 3, 0)></call-information>
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <basic-service <lia="" =="" attributes="" default="" service="" setup="" setup,="" speech="" wideband=""> >></basic-service>
	2. Verify that the IUT sends to TS_1 a <start identifier="08H," list="" nb="" of<="" session,="" td=""></start>
	sorting fields = n (n \geq 0) followed by n sorting field identifiers among 01H, 02H >
	3. Verify that the IUT sends to TS_1 a <read entries,="" id="10," index="s,</td" session="" start=""></read>
	direction=0, counter=i, mark entries request= do not care value, list entry field
	identifier 1n = at the minimum Permanent CLIR identifier 0AH>
	4. Verify that the IUT sends to TS_1 a <edit entry="" entry,="" id="10," identifier="1,</td" session=""></edit>
	list entry field identifier 1= at the minimum Permanent CLIR identifier 0AH>
	5. Verify that the IUT sends to TS_1 a <save entry,="" entry<="" id="10," session="" td=""></save>
	identifier=1>, followed by <data data="" last="" packet=""> with Permanent CLIR</data>
	field set to Value=31H, and other edited fields, if any, not modified
	6. Verify that the IUT sends to TS_1, optionally a <end id="10" session="" session,="">, and</end>
	a {CC-RELEASE} message
Comments:	- Settings fields can be read (or edited) one by one, or all in the same <read< td=""></read<>
	entries> (respectively <edit entry="">) command</edit>
	- Possible session with DECT system settings list implies fulfilment of DECT
	system settings list related requirements (see beginning of Clause 6.16)
L	

TC_PT_NG1.N.16_BV_4702	Line settings list - Permanent CLIR - Edit entry - Save entry - CLIR code subfields
Reference:	TS 102 527-3 [14], Clause 7.4.11.4.8
Initial condition:	Line settings list content (see Clause 4.1.1.1.9),
	T-00
Stimulus:	Open the Line settings list from IUT
	2. Send a {CC-CALL-PROC} message from TS_1
	3. Send a <start confirm,="" discriminator="" id="10," nb="2," nb<="" session="" td="" total="" type="0,"></start>
	of sorting fields =1,sorting field id1 =2> from TS_1
	4. For each <read entries=""> received, send a <read confirm,="" entries="" id="10" session=""></read></read>
	from TS_1, followed by <data data="" last="" packet=""> with the requested field(s)</data>
	Select first line and edit the Permanent CLIR field from IUT
	5. Send a <edit confirm,="" entry="" id="10" session=""> from TS_1, followed by <data< td=""></data<></edit>
	packet/data packet last> with requested field(s)
	Modify Permanent CLIR field to
	"CLIR activation code" subfield set to "#12"
	"CLIR deactivation code" subfield set to "*34"
	6. Send a <save confirm,="" entry="" id="10," identifier="1," index="1,</td" position="" session=""></save>
	total number of available entries=2> from TS_1
	Close the list access service on IUT
	7. If <end session=""> received then send <end confirm,="" id="10" session=""> from</end></end>
	TS_1
	Send a {CC-RELEASE-COM} message from TS_1
	Send a {FACILITY} message from TS_1 with IE < <events notification="<</td"></events>
	List change indication, Line settings list, 1> (=<03H,88H,81H>) >> and
	IE< <call-information>> specifying (Relating to line 0) =<$(0, 3, 0)$></call-information>
Pass criteria:	Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <basic-service <lia="" =="" default="" service="" setup,="" setup<="" speech="" td="" wideband=""></basic-service>
	attributes> >>
	2. Verify that the IUT sends to TS_1 a <start identifier="08H," list="" nb="" of<="" session,="" td=""></start>
	sorting fields = n (n ≥ 0) followed by n sorting field identifiers among 01H, 02H >
	3. Verify that the IUT sends to TS_1 a <read entries,="" id="10," index="s,</td" session="" start=""></read>
	direction=0, counter=i, mark entries request= do not care value, list entry field
	identifier 1n = at the minimum Permanent CLIR identifier 0AH>
	4. Verify that the IUT sends to TS_1 a <edit entry="" entry,="" id="10," identifier="1,</td" session=""></edit>
	list entry field identifier 1= at the minimum Permanent CLIR identifier 0AH>
	5. Verify that the IUT sends to TS_1 a <save entry,="" entry<="" id="10," session="" td=""></save>
	identifier=1>, followed by <data data="" last="" packet=""> with Permanent CLIR</data>
	field set to
	CLIR activation code (including length) = 03H, 23H, 31H, 32H,
	CLIR deactivation code (including length) =03H, 2AH, 33H, 34H
	6. Verify that the IUT sends to TS_1, optionally a <end id="10" session="" session,="">, and</end>
	a {CC-RELEASE} message
Comments:	- Settings fields can be read (or edited) one by one, or all in the same <read< td=""></read<>
	entries> (respectively <edit entry="">) command</edit>
	Possible session with DECT system settings list implies fulfilment of DECT
	system settings list related requirements (see beginning of Clause 6.16)
	System settings list related requirements (see beginning or Clause 0.10)

TC_PT_NG1.N.16_BV_4801	Line settings list - Call forwarding unconditional - Edit entry - Save entry - 'Value' and
	'Call forwarding number' subfields
Reference:	TS 102 527-3 [14], Clause 7.4.11.4.8
Initial condition:	Line settings list content (see Clause 4.1.1.1.9),
	T-00
Stimulus:	1. Open the Line settings list from IUT
	2. Send a {CC-CALL-PROC} message from TS_1
	3. Send a <start confirm,="" discriminator="" id="11," nb="2," nb<="" session="" td="" total="" type="0,"></start>
	of sorting fields =1,sorting field id1 =2> from TS_1
	4. For each <read entries=""> received, send a <read confirm,="" entries="" id="11" session=""></read></read>
	from TS_1, followed by <data data="" last="" packet=""> with the requested field(s)</data>
	Select second line and edit the Call forwarding unconditional field from IUT
	5. Send a <edit confirm,="" entry="" id="11" session=""> from TS_1, followed by <data< td=""></data<></edit>
	packet/data packet last> with requested field(s)
	Modify Call forwarding unconditional field to
	"Value" subfield set to Activated
	"Call forwarding number" subfield set to "0123456789"
	6. Send a <save confirm,="" entry="" id="11," identifier="2," index="2,</td" position="" session=""></save>
	total number of available entries=2> from TS_1
	Close the list access service on IUT
	7. If <end session=""> received then send <end confirm,="" id="11" session=""> from</end></end>
	TS_1
	Send a {CC-RELEASE-COM} message from TS_1
	Send a {FACILITY} message from TS_1 with IE < <events notification="<</td"></events>
	List change indication, Line settings list, 1> (=<03H,88H,81H>) >> and
	IE< <call-information>> specifying (Relating to line 1) =<(0, 3, 1)></call-information>
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <basic-service <lia="" =="" default="" service="" setup,="" setup<="" speech="" td="" wideband=""></basic-service>
	attributes>>>
	2. Verify that the IUT sends to TS_1 a <start identifier="08H," list="" nb="" of<="" session,="" td=""></start>
	sorting fields = n (n ≥ 0) followed by n sorting field identifiers among 01H, 02H >
	3. Verify that the IUT sends to TS_1 a <read entries,="" id="11," index="s,</td" session="" start=""></read>
	direction=0, counter=i, mark entries request= do not care value, list entry field
	identifier 1n = at the minimum Call forwarding unconditional identifier 0BH>
	4. Verify that the IUT sends to TS_1 a <edit entry="" entry,="" id="11," identifier="2,</td" session=""></edit>
	list entry field identifier 1= at the minimum Call forwarding unconditional identifier
	0BH>
	5. Verify that the IUT sends to TS_1 a <save entry,="" entry<="" id="11," session="" td=""></save>
	identifier=2>, followed by <data data="" last="" packet=""> with Call forwarding</data>
	unconditional field set to
	Value=31H,
	Call forwarding number (including length) =0AH, 30H, 31H, 32H, 33H, 34H, 35H,
	36H, 37H, 38H, 39H,
	and other edited fields, if any, not modified
	6. Verify that the IUT sends to TS_1, optionally a <end id="11" session="" session,="">, and</end>
	a {CC-RELEASE} message
Comments:	- Settings fields can be read (or edited) one by one, or all in the same <read< td=""></read<>
	entries> (respectively <edit entry="">) command</edit>
	Possible session with DECT system settings list implies fulfilment of DECT
	system settings list related requirements (see beginning of Clause 6.16)
<u> </u>	-,

TC_PT_NG1.N.16_BV_4802	Line settings list - Call forwarding unconditional - Edit entry - Save entry - CFU codes subfields
Reference:	TS 102 527-3 [14], Clause 7.4.11.4.8
Initial condition:	Line settings list content (see Clause 4.1.1.1.9),
Stimulus:	 Open the Line settings list from IUT Send a {CC-CALL-PROC} message from TS_1 Send a <start confirm,="" discriminator="" field="" fields="1,sorting" id="11," id1="2" nb="" of="" session="" sorting="" total="" type="0,"> from TS_1</start> For each <read entries=""> received, send a <read confirm,="" entries="" id="11" session=""> from TS_1, followed by <data data="" last="" packet=""> with the requested field(s) Select second line and edit the Call forwarding unconditional field from IUT</data></read></read> Send a <edit confirm,="" entry="" id="11" session=""> from TS_1, followed by <data data="" last="" packet=""> with requested field(s) Modify Call forwarding unconditional field to "CFU activation code" subfield set to "*111" "CFU deactivation code" subfield set to "*112"</data></edit> Send a <save available="" confirm,="" entries="2" entry="" id="11," identifier="2," index="2," number="" of="" position="" session="" total=""> from TS_1</save>
Pass criteria:	Close the list access service on IUT 7. If <end session=""> received then send <end confirm,="" id="11" session=""> from TS_1 Send a {CC-RELEASE-COM} message from TS_1 Send a {FACILITY} message from TS_1 with IE <<events 1="" change="" indication,="" line="" list="" list,="" notification="<" settings=""> (=<03H,88H,81H>) >> and IE<<call-information>> specifying (Relating to line 1) =<(0, 3, 1)> 1. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE <<basic-service <lia="" =="" default="" service="" setup,="" setup<="" speech="" td="" wideband=""></basic-service></call-information></events></end></end>
	 attributes>>> Verify that the IUT sends to TS_1 a <start (n="" 0)="" 01h,="" 02h="" among="" by="" field="" fields="n" followed="" identifier="08H," identifiers="" list="" n="" nb="" of="" session,="" sorting="" ≥=""></start> Verify that the IUT sends to TS_1 a <read 0bh="" 1n="at" call="" care="" counter="i," direction="0," entries="" entries,="" entry="" field="" forwarding="" id="11," identifier="" index="s," list="" mark="" minimum="" not="" request="do" session="" start="" the="" unconditional="" value,=""></read> Verify that the IUT sends to TS_1 a <edit 0bh="" 1="at" call="" entry="" entry,="" field="" forwarding="" id="11," identifier="" list="" minimum="" session="" the="" unconditional=""></edit>
	 5. Verify that the IUT sends to TS_1 a <save entry="" entry,="" id="11," identifier="2" session="">, followed by <data data="" last="" packet=""> with Call forwarding unconditional field set to CFU activation code (including length) = 04H, 2AH, 31H, 31H, 31H, CFU deactivation code (including length) =04H, 2AH, 31H, 31H, 32H</data></save> 6. Verify that the IUT sends to TS_1, optionally a <end id="11" session="" session,="">, and a {CC-RELEASE} message</end>
Comments:	 Settings fields can be read (or edited) one by one, or all in the same <read entries=""> (respectively <edit entry="">) command</edit></read> Possible session with DECT system settings list implies fulfilment of DECT system settings list related requirements (see beginning of Clause 6.16)

TC_PT_NG1.N.16_BV_4901	Line settings list - Call forwarding on No answer - Edit entry - Save entry - 'Value' and
	'Call forwarding number' subfields
Reference:	TS 102 527-3 [14], Clause 7.4.11.4.8
Initial condition:	Line settings list content (see Clause 4.1.1.1.9), T-00
Stimulus:	 Open the Line settings list from IUT Send a {CC-CALL-PROC} message from TS_1 Send a <start confirm,="" discriminator="" field="" fields="1,sorting" id="12," id1="2" nb="" of="" session="" sorting="" total="" type="0,"> from TS_1</start> For each <read entries=""> received, send a <read confirm,="" entries="" id="12" session=""> from TS_1, followed by <data data="" last="" packet=""> with the requested field(s) Select second line and edit the Call forwarding on No answer field from IUT</data></read></read> Send a <edit confirm,="" entry="" id="12" session=""> from TS_1, followed by <data data="" last="" packet=""> with requested field(s) Modify Call forwarding on No answer field to "Value" subfield set to Activated "Call forwarding number" subfield set to "9876543210"</data></edit> Send a <save available="" confirm,="" entries="2" entry="" id="12," identifier="2," index="2," number="" of="" position="" session="" total=""> from TS_1 Close the list access service on IUT</save> If <end session=""> received then send <end confirm,="" id="12" session=""> from TS_1 Send a {FACILITY} message from TS_1 with IE <<events notification="</li"> List change indication, Line settings list, 1> (=<03H,88H,81H>) >> and </events></end></end>
Pass criteria:	 IE<<call-information>> specifying (Relating to line 1) =<(0, 3, 1)></call-information> Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE <<basic-service <lia="" =="" attributes="" default="" service="" setup="" setup,="" speech="" wideband=""> >></basic-service> Verify that the IUT sends to TS_1 a <start (n="" 0)="" 01h,="" 02h="" among="" by="" field="" fields="n" followed="" identifier="08H," identifiers="" list="" n="" nb="" of="" session,="" sorting="" ≥=""></start>
	 Verify that the IUT sends to TS_1 a <read 0ch="" 1n="at" answer="" call="" care="" counter="i," direction="0," entries="" entries,="" entry="" field="" forwarding="" id="12," identifier="" index="s," list="" mark="" minimum="" no="" not="" on="" request="do" session="" start="" the="" value,=""></read> Verify that the IUT sends to TS_1 a <edit ,="" 0ch="" 1="at" answer="" call="" entry="" entry,="" field="" forwarding="" id="12" identifier="" list="" minimum="" no="" on="" session="" the=""></edit>
	 5. Verify that the IUT sends to TS_1 a <save entry="" entry,="" id="12," identifier="2" session="">, followed by <data data="" last="" packet=""> with Call forwarding on No answer field set to Value=31H, Call forwarding number (including length) =0AH, 39H, 38H, 37H, 36H, 35H, 34H, 33H, 32H, 31H, 30H, and other edited fields, if any, not modified</data></save> 6. Verify that the IUT sends to TS_1, optionally a <end id="12" session="" session,="">, and</end>
Comments:	a {CC-RELEASE} message - Settings fields can be read (or edited) one by one, or all in the same <read entries=""> (respectively <edit entry="">) command - Possible session with DECT system settings list implies fulfilment of DECT system settings list related requirements (see beginning of Clause 6.16)</edit></read>

TC_PT_NG1.N.16_BV_4902	Line settings list - Call forwarding on No answer - Edit entry - Save entry - CFNA codes subfields
Reference:	TS 102 527-3 [14], Clause 7.4.11.4.8
Initial condition:	Line settings list content (see Clause 4.1.1.1.9),
Stimulus:	 Open the Line settings list from IUT Send a {CC-CALL-PROC} message from TS_1 Send a <start confirm,="" discriminator="" field="" fields="1,sorting" id="12," id1="2" nb="" of="" session="" sorting="" total="" type="0,"> from TS_1</start> For each <read entries=""> received, send a <read confirm,="" entries="" id="12" session=""> from TS_1, followed by <data data="" last="" packet=""> with the requested field(s) Select second line and edit the Call forwarding on No answer field from IUT</data></read></read> Send a <edit confirm,="" entry="" id="12" session=""> from TS_1, followed by <data data="" last="" packet=""> with requested field(s) Modify Call forwarding on No answer field to "Nb of seconds before call is forwarded" subfield set to 25 seconds "CFNA activation code" subfield set to "#20" "CFNA deactivation code" subfield set to "#21"</data></edit> Send a <save available="" confirm,="" entries="2" entry="" id="12," identifier="2," index="2," number="" of="" position="" session="" total=""> from TS_1 Close the list access service on IUT</save> If <end session=""> received then send <end confirm,="" id="12" session=""> from TS_1 Send a {CC-RELEASE-COM} message from TS_1</end></end>
Pass criteria:	 Send a {FACILITY} message from TS_1 with IE <<events notification="</li"> List change indication, Line settings list, 1> (=<03H,88H,81H>) >> and IE<<call-information>> specifying (Relating to line 1) =<(0, 3, 1)></call-information> Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE <<basic-service <lia="" =="" attributes="" default="" service="" setup="" setup,="" speech="" wideband=""> >></basic-service> Verify that the IUT sends to TS_1 a <start (n="" 0)="" 01h,="" 02h="" among="" by="" field="" fields="n" followed="" identifier="08H," identifiers="" list="" n="" nb="" of="" session,="" sorting="" ≥=""></start> Verify that the IUT sends to TS_1 a <read 0ch="" 1n="at" answer="" call="" care="" counter="i," direction="0," entries="" entries,="" entry="" field="" forwarding="" id="12," identifier="" index="s," list="" mark="" minimum="" no="" not="" on="" request="do" session="" start="" the="" value,=""></read> Verify that the IUT sends to TS_1 a <edit ,="" 0ch="" 1="at" answer="" call="" entry="" entry,="" field="" forwarding="" id="12" identifier="" list="" minimum="" no="" on="" session="" the=""></edit> </events>
Comments:	 5. Verify that the IUT sends to TS_1 a <save entry="" entry,="" id="12," identifier="2" session="">, followed by <data data="" last="" packet=""> with Call forwarding on No answer field set to Nb of seconds before call is forwarded = 19H, CFNA activation code (including length) = 03H, 23H, 32H, 30H, CFNA deactivation code (including length) =03H, 23H, 32H, 31H</data></save> 6. Verify that the IUT sends to TS_1, optionally a <end id="12" session="" session,="">, and a {CC-RELEASE} message - Settings fields can be read (or edited) one by one, or all in the same <read entries=""> (respectively <edit entry="">) command - Possible session with DECT system settings list implies fulfilment of DECT system settings list related requirements (see beginning of Clause 6.16)</edit></read></end>

TC_PT_NG1.N.16_BV_5001	Line settings list - Call forwarding on Busy subscriber - Edit entry - Save entry - 'Value'
	and 'Call forwarding number' subfields
Reference:	TS 102 527-3 [14], Clause 7.4.11.4.8
Initial condition:	Line settings list content (see Clause 4.1.1.1.9), T-00
Stimulus:	 Open the Line settings list from IUT Send a {CC-CALL-PROC} message from TS_1 Send a <start confirm,="" discriminator="" field="" fields="1,sorting" id="13," id1="2" nb="" of="" session="" sorting="" total="" type="0,"> from TS_1</start> For each <read entries=""> received, send a <read confirm,="" entries="" id="13" session=""> from TS_1, followed by <data data="" last="" packet=""> with the requested field(s) Select second line and edit the Call forwarding on Busy subscriber field from IUT</data></read></read> Send a <edit confirm,="" entry="" id="13" session=""> from TS_1, followed by <data data="" last="" packet=""> with requested field(s) Modify Call forwarding on Busy subscriber field to "Value" subfield set to Activated "Call forwarding number" subfield set to "0123456789"</data></edit> Send a <save available="" confirm,="" entries="2" entry="" id="13," identifier="2," index="2," number="" of="" position="" session="" total=""> from TS_1 Close the list access service on IUT</save> If <end session=""> received then send <end confirm,="" id="13" session=""> from TS_1 Send a {CC-RELEASE-COM} message from TS_1 Send a {FACILITY} message from TS_1 with IE <<events 1="" change="" indication,="" line="" list="" list,="" notification="<" settings=""> (=<03H,88H,81H>) >> and IE<<call-information>> specifying (Relating to line 1) =<(0, 3, 1)></call-information></events></end></end>
Pass criteria:	 Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE < BASIC-SERVICE = <lia attributes="" default="" service="" setup="" setup,="" speech="" wideband=""> >></lia> Verify that the IUT sends to TS_1 a <start (n="" 0)="" 01h,="" 02h="" among="" by="" field="" fields="n" followed="" identifier="08H," identifiers="" list="" n="" nb="" of="" session,="" sorting="" ≥=""></start> Verify that the IUT sends to TS_1 a <read 0dh="" 1n="at" busy="" call="" care="" counter="i," direction="0," entries="" entries,="" entry="" field="" forwarding="" id="13," identifier="" index="s," list="" mark="" minimum="" not="" on="" request="do" session="" start="" subscriber="" the="" value,=""></read> Verify that the IUT sends to TS_1 a <edit 0dh="" 1="at" busy="" call="" entry="" entry,="" field="" forwarding="" id="13," identifier="" list="" minimum="" on="" session="" subscriber="" the=""></edit> Verify that the IUT sends to TS_1 a <save entry="" entry,="" id="13," identifier="2" session="">, followed by <data data="" last="" packet=""> with Call forwarding on Busy subscriber field set to Value=31H, Call forwarding number (including length) =0AH, 30H, 31H, 32H, 33H, 34H, 35H, 36H, 37H, 38H, 39H, and other edited fields, if any, not modified</data></save> Verify that the IUT sends to TS_1, optionally a <end id="13" session="" session,="">, and a {CC-RELEASE} message</end>
Comments:	 Settings fields can be read (or edited) one by one, or all in the same <read entries=""> (respectively <edit entry="">) command</edit></read> Possible session with DECT system settings list implies fulfilment of DECT system settings list related requirements (see beginning of Clause 6.16)

TC_PT_NG1.N.16_BV_5002	Line settings list - Call forwarding on Busy subscriber - Edit entry - Save entry - CFB codes subfields
Reference:	TS 102 527-3 [14], Clause 7.4.11.4.8
Initial condition:	Line settings list content (see Clause 4.1.1.1.9), T-00
Stimulus:	 Open the Line settings list from IUT Send a {CC-CALL-PROC} message from TS_1 Send a <start confirm,="" discriminator="" field="" fields="1,sorting" id="13," id1="2" nb="" of="" session="" sorting="" total="" type="0,"> from TS_1</start> For each <read entries=""> received, send a <read confirm,="" entries="" id="13" session=""> from TS_1, followed by <data data="" last="" packet=""> with the requested field(s) Select second line and edit the Call forwarding on Busy subscriber field from IUT</data></read></read> Send a <edit confirm,="" entry="" id="13" session=""> from TS_1, followed by <data data="" last="" packet=""> with requested field(s) Modify Call forwarding on Busy subscriber field to "CFB activation code" subfield set to "*44" "CFB deactivation code" subfield set to "*55"</data></edit> Send a <save available="" confirm,="" entries="2" entry="" id="13," identifier="2," index="2," number="" of="" position="" session="" total=""> from TS_1 Close the list access service on IUT</save> If <end session=""> received then send <end confirm,="" id="13" session=""> from TS_1</end></end>
Pass criteria:	 Send a {CC-RELEASE-COM} message from TS_1 Send a {FACILITY} message from TS_1 with IE <<events 1="" change="" indication,="" line="" list="" list,="" notification="<" settings=""> (=<03H,88H,81H>) >> and IE<call-information>> specifying (Relating to line 1) =<(0, 3, 1)></call-information></events> 1. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE <<basic-service <lia="" =="" attributes="" default="" service="" setup="" setup,="" speech="" wideband=""> >></basic-service> 2. Verify that the IUT sends to TS_1 a <start (n="" 0)="" 01h,="" 02h="" among="" by="" field="" fields="n" followed="" identifier="08H," identifiers="" list="" n="" nb="" of="" session,="" sorting="" ≥=""></start> 3. Verify that the IUT sends to TS_1 a <read 0dh="" 1n="at" busy="" call="" care="" counter="i," direction="0," entries="" entries,="" entry="" field="" forwarding="" id="13," identifier="" index="s," list="" mark="" minimum="" not="" on="" request="do" session="" start="" subscriber="" the="" value,=""></read> 4. Verify that the IUT sends to TS_1 a <edit 1="at" busy="" call="" entry="" entry,="" field="" forwarding="" id="13," identifier="" li="" list="" minimum="" on="" session="" subscriber<="" the=""> </edit>
	 identifier 0DH> Verify that the IUT sends to TS_1 a <save entry="" entry,="" id="13," identifier="2" session="">, followed by <data data="" last="" packet=""> with Call forwarding on Busy subscriber field set to CFB activation code (including length) = 03H, 2AH, 34H, 34H, CFB deactivation code (including length) =03H, 2AH, 35H, 35H</data></save> Verify that the IUT sends to TS_1, optionally a <end id="13" session="" session,="">, and a {CC-RELEASE} message</end>
Comments:	 Settings fields can be read (or edited) one by one, or all in the same <read entries=""> (respectively <edit entry="">) command</edit></read> Possible session with DECT system settings list implies fulfilment of DECT system settings list related requirements (see beginning of Clause 6.16)

TC_PT_NG1.N.16_BV_5101	DECT system settings list - Emission mode - Edit entry - Save entry
Reference:	TS 102 527-3 [14], Clauses 7.4.11.3 and 7.4.11.3.12
Initial condition:	DECT system settings list content (see Clause 4.1.1.1.8),
	T-00
Stimulus:	Open the DECT system settings list from IUT
	2. Send a {CC-CALL-PROC} message from TS_1
	3. Send a <start confirm,="" fields="0" id="2," nb="" of="" session="" sorting=""> from TS_1</start>
	4. For each <read entries=""> received, send a <read confirm,="" entries="" id="2" session=""></read></read>
	from TS_1, followed by <data data="" last="" packet=""> with the requested field(s)</data>
	Select and edit the Emission mode field on IUT
	5. Send a <edit confirm,="" entry="" id="2" session=""> from TS_1, followed by <data< td=""></data<></edit>
	packet/data packet last> with requested field(s)
	Modify the Emission mode field to "activated"
	6. Send a <save confirm,="" entry="" id="2," identifier="1," index="1,</td" position="" session=""></save>
	total number of available entries=1> from TS_1
	Close the list access service on IUT
	7. If <end session=""> received then send <end confirm,="" id="2" session=""> from</end></end>
	TS_1
	Send a {CC-RELEASE-COM} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <basic-service <lia="" =="" default="" service="" setup,="" setup<="" speech="" td="" wideband=""></basic-service>
	attributes> >>
	2. Verify that the IUT sends to TS_1 a <start identifier="07H" list="" session,=""></start>
	3. Verify that the IUT sends to TS_1 a <read entries,="" id="2," index="s,</td" session="" start=""></read>
	direction=0, counter=1, mark entries request= do not care value, list entry field
	identifier 1n = at the minimum Emission mode identifier 0CH>
	4. Verify that the IUT sends to TS_1 a <edit entry="" entry,="" id="2," identifier="1," list<="" session="" td=""></edit>
	entry field identifier 1= at the minimum Emission mode identifier 0CH>
	5. Verify that the IUT sends to TS_1 a <save entry="" entry,="" id="2," identifier="1" session="">,</save>
	followed by <data data="" last="" packet=""> with Emission mode bit NEM set to 1B,</data>
	and other edited fields, if any, not modified
	6. Verify that the IUT sends to TS_1, optionally a <end id="2" session="" session,="">, and a</end>
	{CC-RELEASE} message
Comments:	- Settings fields can be read (or edited) one by one, or all in the same <read< td=""></read<>
	entries> (respectively <edit entry="">) command</edit>
	- For this list, it is allowed that the IUT sends directly an <edit entries=""> without</edit>
	any prior <read entries=""> command. If this is the case, no <read entries=""> will be</read></read>
	received by the tester in stimulus 4 and pass criteria 3 shall not be tested
	- See also DECT system settings list related requirements (see beginning of
	Clause 6.16)

6.17 TC_PT_NG1.N.17 Calling line identity restriction tests cases

Test subgroup objectives: to check the IUT's behaviours regarding Calling line identity restriction with the following considerations:

• As NG1.N.17_2 "Permanent CLIR mode (all calls)" procedure includes only FP requirements, there is no test case defined for this procedure.

Declarations (see Annex A):

• NG1.N.17 "Calling line identity restriction" feature is optional on PP side, so the manufacturer shall declare if it is supported.

TC_PT_NG1.N.17_BV_301	Temporary CLIR mode (call by call)
Reference:	TS 102 527-3 [14], Clause 7.4.12.3
Initial condition:	"Permanent CLIR" field on line 0 set to the following value: "Value" subfield set to 30H
madi oorididon.	(deactivated)
	T-00
Stimulus:	1. Perform an outgoing call with restricted presentation on line 0 to "0123456789"
Stirriulus.	
	phone number from IUT
	2. (2.1) None
	(2.2) If line id (only) was received in step 1 then send a {CC-SETUP-ACK} message from TS_1 with IE < <call-information>> specifying (line 0, full VoIP line type</call-information>
	information, call id a, CS call setup ack) =<(0, 0, 0), (0, 5, 1), (1, 0, value a), (2, 1, 2)>
	(2.3) Else send a {CC-SETUP-ACK} message from TS_1 with IE < <call-< td=""></call-<>
	INFORMATION>> specifying (call id a, CS call setup ack) =<(1, 0, value a), (2, 1, 2)>
	3. Hang up on IUT
	4. Perform an outgoing call without restricted presentation on line 0 to "0123456789"
	phone number from IUT
	5. (5.1) None
	(5.2) If line id (only) was received in step 4 then send a {CC-SETUP-ACK} message
	from TS_1 with IE < <call-information>> specifying (line 0, full VoIP line type</call-information>
	information, call id a, CS call setup ack) =<(0, 0, 0), (0, 5, 1), (1, 0, value a), (2, 1, 2)>
	(5.3) Else send a {CC-SETUP-ACK} message from TS_1 with IE < <call-< td=""></call-<>
	INFORMATION>> specifying (call id a, CS call setup ack) =<(1, 0, value a), (2, 1, 2)>
Dana aritaria:	6. Hang up on IUT
Pass criteria:	1. 1. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE < <basic-< td=""></basic-<>
	SERVICE>> 'Normal call setup', and possibly IE < <call-information>></call-information>
	specifying (line 0) =<(0, 0, 0)> 2. Verify that the IUT sends to TS 1 one or several {CC-INFO} messages, such that:
	• if the line id was not received in step 1 (i.e. in subcase 2.3), the first {CC-INFO}
	message shall contain an IE < <call-information>> specifying (line 0, call id</call-information>
	a) =<(0, 0, 0), (1, 0, value a)>, and may contain an IE < <multi-keypad>> set</multi-keypad>
	to a leading substring of " <temporary clir="" digits="">0123456789" (possibly the whole string)</temporary>
	 all subsequent {CC-INFO} messages (and the first one also if it does not contain the line id) shall contain each an IE <<multi-keypad>> set to a substring of</multi-keypad>
	" <temporary clir="" digits="">0123456789" (possibly the whole string)</temporary>
	 the concatenated substrings of "<temporary clir="" digits="">0123456789" in all</temporary>
	{CC-INFO} messages shall match " <temporary clir="" digits="">0123456789"</temporary>
	• each {CC-INFO} message shall contain (call id a) =<(1, 0, value a)
	 Verify that the IUT sends to TS_1 a {CC-RELEASE} message Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE <<basic-< li=""> </basic-<>
	4. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE < <basic-service>> 'Normal call setup', and possibly IE <<call-information>></call-information></basic-service>
	specifying (line 0) = $<$ (0, 0, 0)>
	 Verify that the IUT sends to TS_1 one or several {CC-INFO} messages, such that: if the line id was not received in step 4 (i.e. in subcase 5.3), the first {CC-INFO}
	message shall contain an IE < <call-information>> specifying (line 0, call id</call-information>
	a) =<(0, 0, 0), (1, 0, value a)>, and may contain an IE < <multi-keypad>> set</multi-keypad>
	to a leading substring of "0123456789" (possibly the whole string)
	 all subsequent {CC-INFO} messages (and the first one also if it does not contain
	the line id) shall contain each an IE < <multi-keypad>> set to a substring of</multi-keypad>
	"0123456789" (possibly the whole string)
	the concatenated substrings of "0123456789" in all {CC-INFO} messages shall
	match "0123456789"
	• each {CC-INFO} message shall contain (call id a) =<(1, 0, value a)>
	6. Verify that the IUT sends to TS_1 a {CC-RELEASE} message

6.18 TC_PT_NG1.N.18 Call forwarding (external calls) tests cases

Test subgroup objectives: to check the IUT's behaviours regarding Call forwarding (external calls) with the following considerations:

• As NG1.N.18_1 "Call forwarding common requirements" procedure is tested when testing NG1.N.16_25 "Line settings list" procedure for the corresponding settings, there is no test case defined for this procedure.

- As NG1.N.18_2 "External Call Forwarding Unconditional (CFU) to external number" procedure includes only FP requirements, there is no test case defined for this procedure.
- As NG1.N.18_3 "External Call Forwarding on No Answer (CFNA) to external number" procedure includes only FP requirements, there is no test case defined for this procedure.
- As NG1.N.18_4 "External Call Forwarding on Busy subscriber (CFB) to external number" procedure includes only FP requirements, there is no test case defined for this procedure.

6.19 TC_PT_NG1.N.19 DTMF handling tests cases

Test subgroup objectives: to check the IUT's behaviours regarding DTMF handling with the following considerations:

- As NG1.N.19_3 "Downlink DTMF reception" procedure includes only FP requirements, there is no test case defined for this procedure.
- As NG1.N.19_4 "Local DTMF feedback of dialled digits" procedure includes only MMI requirements on PP side, there is no test case defined for this procedure.

Declarations (see Annex A):

• NG1.N.19_1 "Uplink DTMF transmission at call setup when FP connected to classic switching network" is conditional, so the manufacturer shall declare if it is supported.

TC_PT_NG1.N.19_BV_101	Uplink DTMF transmission at call setup when FP connected to classic switching network
Reference:	TS 102 527-3 [14], Clause 7.4.14.1.1
Initial condition:	T-00
Stimulus:	Initiate an outgoing call from IUT and press each telephone digit key (0-9, *,#) on IUT
Pass criteria:	Verify on TS_1 side that the PP does not generate any in band audio DTMF and that
	keypad information is received for each digit pressed

TC_PT_NG1.N.19_BV_201	Uplink DTMF transmission when connected
Reference:	TS 102 527-3 [14], Clause 7.4.14.1.2
Initial condition:	T-10 (IUT+TS_1)
Stimulus:	Press each telephone digit key (0-9, *,#) on IUT
Pass criteria:	Verify on TS_1 side that the PP does not generate any in band audio DTMF and that
	keypad information is received for each digit

6.20 TC_PT_NG1.N.20 Tones provision tests cases

Test subgroup objectives: to check the IUT's behaviours regarding tone provision with the following considerations:

- The PT shall support two methods for providing tones: IE <<SIGNAL>> signal method (NG1.N.20_2 "Tones provision by the system" procedure) and in band method (NG1.N.20_3 "Transparency to tones provision by the network or PABX" procedure).
- To limit the number of tests, TC_PT_NG1.N.20 tests cases include only tone tests for a first call. Tone tests related to parallel calls are merged with corresponding TCs (see TC_PT_NG1.N.6 and TC_PT_NG1.N.7 tests cases) as it is mandatory on PP side to support "Tones provision by the system" procedure.
- As the U-plane connection using the IE <<Progress Indicator>> is mandatory in EN 300 444 [12] on PP side, there is no test case for the NG1.N.20_3 "Transparency to tones provision by the network or PABX" procedure. Only the NG1.N.20_2 "Tones provision by the system" procedure is tested.
- Ring-back tone on internal call, included in NG1.N.20_2 "Tones provision by the system" procedure, is tested when running NG1.N.8 "Call transfer" test cases, so there is no test case defined for this requirement.

- Following tones are optional so the manufacturer shall declare if they are supported:
 - NG1.N.20 2 "Dial tone".

- NG1.N.20_2 "Off-hook warning tone".
- NG1.N.20_2 "Network congestion tone (external calls only)".

TC_PT_NG1.N.20_BV_201	Tones provision by the system - Ring-back tone and Busy tone
Reference:	TS 102 527-3 [14], Clause 7.4.15.2.1
Initial condition:	T-00
Stimulus:	1. Perform an outgoing call to "1234567890" phone number from IUT
	Send a {CC-CALL-PROC} followed by a {CC-ALERTING} message with IE
	< <signal>> with the value 01H indicating 'Ring back tone on' from TS_1</signal>
	2. Send a {CC-INFO} message with IE < <signal>> with the value 04H indicating</signal>
	'Busy tone on' from TS_1
	3. Send a {CC-INFO} message with IE < <signal>> with the value 3FH indicating</signal>
	'Tones off' from TS_1
Pass criteria:	Verify that the IUT generates a ring-back tone
	2. Verify that the IUT generates a busy tone
	3. Verify that the IUT stops the tone generation

TC_PT_NG1.N.20_BV_203	Tones provision by the system - Intercept tone, Negative acknowledgement tone and Call
	waiting tone
Reference:	TS 102 527-3 [14], Clause 7.4.15.2.1
Initial condition:	T-10 (IUT+TS_1)
Stimulus:	1. Send a {CC-INFO} message with IE < <signal>> with the value 02H indicating 'Intercept tone on' from TS_1</signal>
	2. Initiate outgoing parallel call from IUT
	Send a {CC-INFO} message with IE < <signal>> with the value 09H indicating 'Negative acknowledgement tone' from TS_1</signal>
	3. Send a {CC-INFO} message with IE < <signal>> with the value 07H indicating 'Call waiting tone on' from TS_1</signal>
Pass criteria:	1. Verify that the IUT generates an intercept tone and stops the generation by itself
	2. Verify that the IUT generates a negative acknowledgement tone and stops the generation by itself
	3. Verify that the IUT generates a call-waiting tone and stops the generation by itself
Comments:	In principle, the tone generation is independent of the codec itself

TC_PT_NG1.N.20_BV_206	Tones provision by the system - Dial tone
Reference: Initial condition:	TS 102 527-3 [14], Clause 7.4.15.2.1 T-00
Stimulus:	 Perform an outgoing call from IUT without sending digits. Send a {CC-SETUP-ACK} message with IE <<signal>> with the value 00H indicating 'Dial tone on' from TS_1</signal> Send a {CC-CONNECT} message with IE <<signal>> with the value 3FH indicating 'Tones off' from TS_1</signal> Hang up from IUT Perform an outgoing call from IUT without sending digits. Send a {CC-CONNECT} message with IE <<signal>> with the value 00H</signal>
	 indicating 'Dial tone on' from TS_1 Send a {CC-INFO} message with IE <<signal>> with the value 3FH indicating 'Tones off' from TS_1</signal> Hang up from IUT
Pass criteria:	 Verify that the IUT generates a dial-tone tone Verify that the IUT stops the tone generation Verify that the IUT sends to TS_1 a {CC-RELEASE} message Verify that the IUT generates a dial-tone tone Verify that the IUT stops the tone generation Verify that the IUT send to TS_1 a {CC-RELEASE} message
Comments:	In step 1 to 3, test equipment behaves as an 'Non-early CC-CONNECT' implementation In step 4 to 6, test equipment behaves as an 'Early CC-CONNECT' implementation

TC_PT_NG1.N.20_BV_207	Tones provision by the system -Off-hook warning tone
Reference: Initial condition:	TS 102 527-3 [14], Clause 7.4.15.2.1 T-00
Stimulus:	Perform an outgoing call from IUT. Send a {CC-CONNECT} message from TS_ 1 followed by a {CC-INFO} message from TS_ 1 with IE < <signal>> with the value 08H indicating Off-hook warning tone on'</signal>
	 Send a {CC-INFO} message with IE <<signal>> with the value 3FH indicating 'Tones off' from TS_1</signal>
Pass criteria:	 Verify that the IUT generates an Off-hook warning tone Verify that the IUT stops the tone generation

TC_PT_NG1.N.20_BV_208	Tones provision by the system - Network congestion tone
Reference:	TS 102 527-3 [14], Clause 7.4.15.2.1
Initial condition:	T-00
Stimulus:	1. Perform an outgoing call from IUT.
	Send a {CC-CONNECT} message with IE < <signal>> with the value 03H indicating</signal>
	Network congestion tone on' from TS_1
	2. Send a {CC-INFO} message with IE < <signal>> with the value 3FH indicating</signal>
	'Tones off' from TS_1
Pass criteria:	1. Verify that the IUT generates a Network congestion tone
	2. Verify that the IUT stops the tone generation

6.21 TC_PT_NG1.N.21 Headset management tests cases

Test subgroup objectives: to check the IUT's behaviours regarding headset management with the following consideration:

• As NG1.N.21_6 "Switching headset to handset (headset initiated)" procedure is tested together with NG1.N.21_3 "Headset incoming call" procedure, there is no test case defined for this procedure.

- NG1.N.21 "Headset management" feature is conditional on PP side, so the manufacturer shall declare if it is supported.
- NG1.N.21_4 "Re-dial of last outgoing call" procedure is optional on PP side, so the manufacturer shall declare if it is supported.
- NG1.N.21_5 "Re-dial of last incoming call" procedure is optional on PP side, so the manufacturer shall declare
 if it is supported.
- NG1.N.21_6 "Switching from headset to handset (headset initiated)" procedure is optional on PP side, so the manufacturer shall declare if it is supported.

TC_PT_NG1.N.21_BV_101	Headset capability during subscription registration
Reference:	TS 102 527-3 [14], Clause 7.4.16.1
Initial condition:	No access rights on IUT
	AC set to '0000' value on TS_1
Stimulus:	A44 set to 1 on TS_1
	Perform an access rights request from IUT
Pass criteria:	Verify that the IUT includes in the {ACCESS-RIGHTS-REQUEST} message an IE
	< <terminal-capability>> with following capabilities declared:</terminal-capability>
	 Support of the "Headset management" feature in Profile indicator_7 field
	(octet 4f)
	Verify that the registration is successful

TC_PT_NG1.N.21_BV_102	Headset capability during location registration
Reference:	TS 102 527-3 [14], Clause 7.4.16.1
Initial condition:	T-00
Stimulus:	Perform a location registration request from IUT (Switch IUT off and on again)
Pass criteria:	Verify that the IUT includes in the {LOCATE-REQUEST} message an IE
	< <terminal-capability>> with following capabilities declared:</terminal-capability>
	 Support of the "Headset management" feature in Profile indicator_7 field
	(octet 4f)

TC_PT_NG1.N.21_BV_201	Headset call interception - G.722 call
Reference:	TS 102 527-3 [14], Clause 7.4.16.2
Initial condition:	2 PPs registered (IUT is HPP PP1, TS_2 is NG PP2),
	"Call interception" set to 31H ("allowed") for PP2 entry in Internal names list,
	G.722 external call in T-10 (IUT+TS_2) initiated by TS_2 on line 0 (call id a)
Stimulus:	Perform an outgoing call from IUT
	2. Send a {CC-CALL-PROC} message from TS_1 with IE < <call-information>></call-information>
	specifying (line 0, full VoIP line type information, call id a, CS call proc) =<(0, 0, 0), (0,
	5, 1), (1, 0, value a), (2, 1, 3)> and IE < <codec list="">> selecting G.722 followed by</codec>
	a {CC-CONNECT} message from TS_1 with IE < <call-information>> specifying</call-information>
	(call id a, CS call connect) =<(1, 0, value a), (2, 1, 5)>
	3. Hang up from IUT
	4. Send a {CC-RELEASE-COM} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <basic-service>> 'Normal call setup' and IE << MULTI-KEYPAD >> set to (1CH,</basic-service>
	50H, 2AH) digits
	2. Verify end-to-end U-plane connection between IUT and TS_1
	3. Verify that the IUT sends to TS_1 a {CC-RELEASE} message

TC_PT_NG1.N.21_BV_301	Headset incoming call - G.722 call
Reference:	TS 102 527-3 [14], Clause 7.4.16.3
Initial condition:	2 PPs registered (IUT is HPP PP1, TS_2 is NG PP2),
	T-00
Stimulus:	Perform incoming call G.722 (full paging (Long slot; j = 640), G.722 prioritized) from TS_1.
	Call pick up on IUT
Pass criteria:	Verify that the IUT selects a codec only in one of the following messages: {CC-ALERTING}
	and {CC-CONNECT} (other messages not allowed)
	Verify end-to-end U-plane connection between IUT and TS_1

TC_PT_NG1.N.21_BV_401	Re-dial of last outgoing call
Reference:	TS 102 527-3 [14], Clause 7.4.16.4
Initial condition:	Outgoing calls test list content (see Clause 4.1.1.1.3)
	T-00
Stimulus:	Re-dial the last outgoing call from IUT
	2. Send a {CC-CALL-PROC} message from TS_1
	3. Send a <start confirm,="" discriminator="" id="1," nb="" of<="" session="" td="" total="" type="0,"></start>
	sorting fields =1,sorting field id1 =3> from TS_1
	4. Send a <read confirm,="" entries="" id="1" session=""> from TS_1, followed by <data< td=""></data<></read>
	packet/data packet last> with first entry content
	5. Send a {CC-CONNECT} message from TS_1 with IE < <call-information>></call-information>
	specifying (call id a, CS call connect) =<(1, 0, value a), (2, 1, 5)>
	6. Hang up on IUT
	7. Send a {CC-RELEASE-COM} message from TS_1
Pass criteria:	Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <basic-service <lia="" =="" attributes="" default="" service="" setup="" setup,="" speech="" wideband=""></basic-service>
	>>
	2. Verify that the IUT sends to TS_1 a <start identifier="02H," list="" nb="" of="" session,="" sorting<="" td=""></start>
	fields =n (n ≥ 0) followed by n sorting field identifiers among 01H, 02H, 03H, 04H, 05H
	>
	3. Verify that the IUT sends to TS_1 a <read entries,="" id="1," index="1,</td" session="" start=""></read>
	direction=0, counter= 1, mark entries request= do not care value, list entry field
	identifier 1n = some or all identifiers among 01H, 02H, 03H, 04H, 05H >
	4. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
	< <multi-keypad>> set to "008989945270" digits</multi-keypad>
	5. Verify end-to-end U-plane connection between IUT and TS_1
	6. Verify that the IUT sends to TS_1 a {CC-RELEASE} message

TC_PT_NG1.N.21_BV_501	Re-dial of last incoming call
Reference:	TS 102 527-3 [14], Clause 7.4.16.5
Initial condition:	T-00
Stimulus:	1. Send a {CC-SETUP} message from TS_1 with IE < <basic-service>> set to 'Normal call setup', IE <<signal>> set to 41H indicating 'Alerting on - pattern 1', IE << CALLING PARTY NUMBER =<unknown, '0123456789'="" unknown,="">, and IE <<call-information>> specifying (line 0, full VoIP line type information, call id a, CS call setup) =<(0, 0, 0), (0, 5, 1), (1, 0, value a), (2, 1, 1)>>></call-information></unknown,></signal></basic-service>
	2. Send a {CC-INFO} message from TS_ 1 with IE < <call-information>> specifying (call id a, CS idle) =<(1, 0, value a), (2, 1, 0)> followed by a {CC-RELEASE} message from TS_ 1</call-information>
	3. Redial the last incoming call from IUT
	4. (4.1) None
	(4.2) If line id (only) was received in step 3 then send a {CC-SETUP-ACK} message from TS_1 with IE < <call-information>> specifying (line 0, full VoIP line type information, call id a, CS call setup ack) =<(0, 0, 0), (0, 5, 1), (1, 0, value a), (2, 1, 2)> (4.3) Else send a {CC-SETUP-ACK} message from TS_1 with IE <<call-information>> specifying (call id a, CS call setup ack) =<(1, 0, value a), (2, 1, 2)></call-information></call-information>
	5. If the line information was not sent in step 4 (i.e. in subcase 4.3) then send a {CC-INFO} message from TS_1 with IE < <call-information>> specifying (line 0, full VoIP line type information, call id a) =<(0, 0, 0), (0, 5, 1), (1, 0, value a)> In all cases, send a {CC-CALL-PROC} message from TS_1 with IE <<call-information>> specifying (call id a, CS call proc) =<(1, 0, value a), (2, 1, 3)> In all cases, send a {CC-CONNECT} message from TS_1 with IE</call-information></call-information>
	<call-information>> specifying (call id a, CS call connect) =<(1, 0, value a), (2, 1, 5)> 6. Hang up on IUT 7 Send a {CC-RELEASE-COM} message from TS_1</call-information>
Pass criteria:	1. Verify that IUT rings
	 Verify that the IUT send to TS_1 a {CC-RELEASE-COM} message Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE <<basic-service>> 'Normal call setup', and possibly: IE <<call-information>> specifying (line None) =<(0, 0, 127)></call-information> </basic-service> Verify that the IUT sends to TS_1 one or several {CC-INFO} messages, such that: if the line id was not received in step 3, the first {CC-INFO} message shall contain an IE <<call-information>> specifying (line None, call id a) =<(0, 0, 127), (1, 0, value a)>, and may contain an IE <<multi-keypad>> set to "0123456789"</multi-keypad></call-information> the subsequent {CC-INFO} message shall contain an IE <<multi-keypad>></multi-keypad>
	set to "0123456789" and IE < <call-information>> specifying (call id a) =<(1, 0, value a)> 5. Verify end-to-end U-plane connection between IUT and TS_1</call-information>
	6. Verify that the IUT send to TS_1 a {CC-RELEASE } message

TC_PT_NG1.N.21_BV_601	Headset incoming call - G.726 call - Switching from headset to handset (headset initiated)
Reference:	TS 102 527-3 [14], Clauses 7.4.16.3 and 7.4.16.6
Initial condition:	2 PPs registered (IUT is HPP PP1, TS_2 is NG PP2),
	T-00
Stimulus:	Perform incoming call G.726 (short paging (full slot), G.726 prioritized) from TS_1. Call pick up on IUT
	Perform an unannounced call transfer on IUT towards all PPs
	3. Send a {CC-INFO} message from TS_1 with IE < <call-information>> specifying (call id a, CS call hold) =<(1, 0, value a), (2, 1, 9)></call-information>
	If dialing information was not received in step 1 then send a {CC-INFO} message from TS_1 with IE < <call-information>> specifying (call id b, CS call setup ack) =<(1, 0, value b), (2, 1, 2)></call-information>
	Else send a {CC-INFO} message from TS_1 with IE < <call-information>> specifying (call id b, CS call proc) =<(1, 0, value b), (2, 1, 3)></call-information>
	4. None
	5. Send a {CC-INFO} message from TS_ 1 with IE < <call-information>> specifying (call id a, CS idle) =<(1, 0, value a), (2, 1, 0)> followed by a {CC-INFO} message from TS_ 1 with IE <<call-information>> specifying (call id b, CS idle) =<(1, 0, value b), (2, 1, 0)>, followed by a {CC-RELEASE} message from TS_ 1</call-information></call-information>
Pass criteria:	Verify that the IUT selects a codec only in one of the following messages: {CC-ALERTING} and {CC-CONNECT} (other messages not allowed) Verify end-to-end U-plane connection between IUT and TS_1
	Verify that the IUT sends to TS_1 a {CC-INFO} message with an IE < <multi-keypad>> set to 17H digit, and possibly together with 2AH digit</multi-keypad>
	3. If dialing information was not received in step 2 then verify that the IUT sends to TS_1 a {CC-INFO} message with IE < <multi-keypad>> set to 2AH in and IE</multi-keypad>
	< <call-information>> specifying (call id b) =<(1, 0, value b)></call-information>
	 Verify that the IUT sends to TS_1 a {CC-INFO} message with IE < MULTI-KEYPAD >> set to (1CH, 34H) digits and IE <<call-information>></call-information>
	specifying (call id a) =<(1, 0, value a)>
	5. Verify that the IUT send to TS_1 a {CC-RELEASE-COM} message

TC_PT_NG1.N.21_BV_701	Headset side - Headset call interception - G.726 call - Switching from headset to handset
	(handset initiated)
Reference:	TS 102 527-3 [14], Clause 7.4.16.2
Initial condition:	2 PPs registered (IUT is HPP PP1, TS_2 is NG PP2),
	"Call interception" set to 31H ("allowed") for PP2 entry in Internal names list,
	G.726 external call in T-10 (IUT+TS_2) initiated by TS_2 on line 0 (call id a)
Stimulus:	Perform an outgoing call from IUT
	 Send a {CC-CALL-PROC} message from TS_1 with IE <<call-information>> specifying (line 0, full VoIP line type information, call id a, CS call proc) =<(0, 0, 0), (0, 5, 1), (1, 0, value a), (2, 1, 3)> followed by a {CC-CONNECT} message from TS_1 with IE <<call-information>> specifying (call id a, CS call connect) =<(1, 0, value a), (2, 1, 5)> and IE <<codec list="">> selecting G.726</codec></call-information></call-information> Send a {CC-INFO} message from TS_1 with IE <<signal>> with the value 02H indicating 'Intercept tone on', IE <<calling coding="" decimal="" ia5="" identity="" in="" number="" number,="" of="" party="" plan,="" pp2="" private="" specific="" terminal=""> > and IE <<call-information>> specifying (call id a, CS call intercepted) =<(1, 0, value a), (2, 1, 10)> as a result of switching from headset to handset request from</call-information></calling></signal>
	TS_2 4. Send a {CC-INFO} message from TS_ 1 with IE < <call-information>> specifying (call id a, CS idle) =<(1, 0, value a), (2, 1, 0)> followed by a {CC-RELEASE} message from TS_1</call-information>
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE < <basic-service>> 'Normal call setup' and IE << MULTI-KEYPAD >> set to (1CH, 50H, 2AH) digits</basic-service>
	2. Verify end-to-end U-plane connection between IUT and TS_1
	3. Verify that the IUT generates an Intercept tone
	4. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message

TC_PT_NG1.N.21_BV_705	Handset side - Headset call interception - G.722 call - Switching from headset to handset
	(handset initiated)
Reference:	TS 102 527-3 [14], Clauses 7.4.16.2 and 7.4.16.7
Initial condition:	2 PPs registered (IUT is NG PP1, TS_2 is HPP PP2),
	"Call interception" set to 31H ("allowed") for PP2 entry in Internal names list,
	G.722 external call in T-10 (IUT+TS_1) initiated by IUT on line 0 (call id a)
Stimulus:	1. Send a {CC-INFO} message from TS_1 with IE < <signal>> with the value 02H indicating 'Intercept tone on', IE <<calling coding="" decimal="" ia5="" identity="" in="" number="" number,="" of="" party="" plan,="" pp2="" private="" specific="" terminal=""> >> and IE <<call-information>> specifying (call id a, CS call intercepted) =<(1, 0, value a), (2, 1, 10)> as a result of headset call interception request from TS_2</call-information></calling></signal>
	2. Send a {CC-INFO} message from TS_ 1 with IE < <call-information>> specifying (call id a, CS idle) =<(1, 0, value a), (2, 1, 0)> followed by a {CC-RELEASE } message from TS_1</call-information>
	 Perform a switching from headset to handset request from IUT Send a {CC-CALL-PROC} message from TS_1 with IE <<call-information>> specifying (line 0, full VoIP line type information, call id a, CS call proc) =<(0, 0, 0), (0, 5, 1), (1, 0, value a), (2, 1, 3)> followed by a {CC-CONNECT} message from TS_1 with IE <<call-information>> specifying (call id a, CS call connect) =<(1, 0, value a), (2, 1, 5)></call-information></call-information>
	5. Hang up from IUT
	6. Send a {CC-RELEASE-COM} message from TS_1
Pass criteria:	1. Verify that the IUT generates an Intercept tone
	2. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
	 Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE <<basic-service>> 'Normal call setup' and IE << MULTI-KEYPAD >> set to (1CH, 50H, 2AH) digits</basic-service>
	4. Verify end-to-end U-plane connection between IUT and TS_1
	5. Verify that the IUT sends to TS_1 a {CC-RELEASE} message

6.22 TC_PT_NG1.N.22 Handling of lines where second calls are signalled in-band tests cases

Test subgroup objectives: to check the IUT's behaviours regarding handling of lines where second calls are signalled in-band with the following consideration:

• NG1.N.22_3 "Off-hook CLIP enabled 'double call with in-band signalling' line" procedure is not tested as the PT requirements are tested with NG1.N.7 "Common parallel call procedures" feature.

NOTE: Off-hook CLIP is also called "CLIP phase II". See definition Clause 3.1.

TC_PT_NG1.N.22_BV_401	Use of transparent commands on DCIBS lines (Basic or Off-hook CLIP enabled) or any
	other line
Reference:	TS 102 527-3 [14], Clause 7.4.3.10.4
Initial condition:	External call in T-10 (IUT+TS_1) initiated by IUT on line 1 specifying <(NDT=connected to a network with low delay (e.g. PSTN/ISDN), SCT=Second calls are handled with in-band
	signalling (e.g. PSTN lines), (call id a))>
Stimulus:	Send a transparent command from IUT
Pass criteria:	Verify that the IUT sends to TS_1 a {CC-INFO} message with IE < <multi-keypad>> set to 15H, and IE <<call-information>> specifying (call id a) =<(1, 0, value a)></call-information></multi-keypad>

6.23 TC_PT_GAP.N.30 Calling Line Identification Presentation tests cases

Test subgroup objectives: to check the IUT's behaviours when receiving CLIP.

TC_PT_GAP.N.30_BV_01	Incoming call with calling party number in {CC-SETUP}
Reference:	EN 300 444 [12], Clauses 8.12, 8.13 and 8.41
Initial condition:	T-00
Stimulus:	Send a {CC-SETUP} message from TS_1 with IE < <basic-service>> set to 'Normal call setup', IE <<signal>> set to 41H indicating 'Alerting on - pattern 1', IE << CALLING PARTY NUMBER =<unknown, '0123456789012'="" unknown,="">, and IE <<call-information>> specifying (line 0, full VoIP line type information, call id a, CS call setup) =<(0, 0, 0), (0, 5, 1), (1, 0, value a), (2, 1, 1)>>></call-information></unknown,></signal></basic-service>
Pass criteria:	Verify by checking CLIP presentation according to its display capabilities that the IUT is able to handle < <calling number="" party="">> in {CC-SETUP}</calling>

TC_PT_GAP.N.30_BV_02	Incoming call with calling party number in {CC-INFO}
Reference:	EN 300 444 [12], Clauses 8.12, 8.13 and 8.41
Initial condition:	T-00
Stimulus:	 Send a {CC-SETUP} message from TS_1 with IE <<basic-service>> set to 'Normal call setup', IE <<signal>> set to 41H indicating 'Alerting on - pattern 1', and IE <<call-information>> specifying (line 0, full VoIP line type information, call id a, CS call setup) =<(0, 0, 0), (0, 5, 1), (1, 0, value a), (2, 1, 1)>>></call-information></signal></basic-service> Send a {CC-INFO} message from TS_1 with IE << CALLING PARTY NUMBER
Pass criteria:	 =<national '987654321098'="" national="" number,="" plan,="" standard=""> >> and IE</national> <<call-information>> specifying (call id a) =< (1, 0, value a) >>></call-information> 1. Verify that the IUT send to TS_1 a {CC-ALERTING} message 2. Verify by checking CLIP presentation according to its display capabilities that the IUT is able to handle <<calling number="" party="">> in {CC-INFO}</calling>

6.24 TC_PT_GAP.N.31 Internal call tests cases

Test subgroup objectives: to check the IUT's behaviours when handling internal call with the following consideration:

- As GAP.N.31_2 "Internal call keypad" is tested implicitly when testing GAP.N.31_1 "Internal call setup", there is no test case defined for this procedure.
- As GAP.N.31_5 "UTF-8 CNIP" is tested implicitly when testing GAP.N.31_4 "Internal Call CNIP", there is no test case defined for this procedure.

Declarations (see Annex A):

• GAP.N.31_6 "Internal call codec priority" procedure can be not supported (see TS 102 527-3 [14], Clause 7.4.3.9.2). So the manufacturer shall declare if it is supported.

TC_PT_GAP.N.31_BV_101	Internal call setup - call class checking
Reference:	TS 102 527-1 [13], Clause 7.3.6
	EN 300 444 [12], Clause 14.4.3
Initial condition:	2 PPs registered (IUT is PP1, TS_2 is NG PP2), T-00
Stimulus:	Perform an internal outgoing call on IUT towards PP2
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-SETUP} message with EITHER:
	 an IE <<basic-service <lia="" =="" default="" service="" setup,="" setup<br="" speech="" wideband="">attributes> >></basic-service>
	OR
	 an IE <<basic-service <internal="" =="" call="" default="" setup,="" setup<br="" speech="" wideband="">attributes> >></basic-service>
	 IF List access service was setup then verify that the IUT sends to TS_1 a {CC-INFO} message with an IE <<multi-keypad>> with <keypad (="")="" +="" 2ah="" call="" case="" coding="" decimal="" general="" ia5="" identity="" in="" information="17H" internal="" number="" of="" or="" pp2,="" terminal=""></keypad></multi-keypad>
	ELSE Verify that the IUT sends to TS_1 a {CC-INFO} message with an IE < <multi- KEYPAD>>. with <keypad coding="" identity="" in<br="" information="IA5" number="" of="" terminal="">decimal of PP2, or 2AH in case of internal general call ></keypad></multi-
Comments:	IUT could access to internal names list, and/or initiate internal general call, to initiate internal call

TC_PT_GAP.N.31_BV_301	Internal call CLIP
Reference:	EN 300 444 [12], Clause 8.43
Initial condition:	2 PPs registered (IUT is PP1, TS_2 is NG PP2), T-00
Stimulus:	Perform an incoming internal call from TS_1 with an IE < <calling number="" party="">> set to EN 300 444 [12], Clause 8.43, Table 78d content and <calling address="IA5" coding="" decimal="" identity="" in="" number="" of="" party="" pp2="" terminal=""></calling></calling>
Pass criteria:	Verify by checking CLIP presentation according to its display capabilities that the IUT is able to handle internal call CLIP.
Comments:	Internal CLIP is the terminal Identity number of the calling part

TC_PT_GAP.N.31_BV_401	Internal call CNIP
Reference:	EN 300 444 [12], Clause 8.44
	TS 102 527-3 [14], Clause 7.4.17.2
Initial condition:	2 PPs registered (IUT is PP1, TS_2 is NG PP2), T-00
Stimulus:	Perform an incoming internal call from TS_1 with IE < <calling name="" party="">> set to</calling>
	EN 300 444 [12], Clause 8.44, Table 78e content and <calling name="TESTER</td></tr><tr><td></td><td>çöü" party=""></calling>
Pass criteria:	Verify by checking CNIP presentation on IUT display of 'TESTER çöü' that the IUT is able
	to handle internal call UTF-8 < <calling name="" party="">> without crashing</calling>
Comments:	For UTF-8 characters the PP is not able to display among "ç", "ö", "ü", the PP should use
	a replacement character (replacement character is left free to the manufacturer)
	UTF-8 characters encoding:
	"ç": LATIN SMALL LETTER C WITH CEDILLA 'c3a7'H
	"ö": LATIN SMALL LETTER O WITH DIAERESIS 'c3b6'H
	"ü": LATIN SMALL LETTER U WITH DIAERESIS 'c3bc'H

TC_PT_GAP.N.31_BV_601	Internal call codec priority - outgoing call
Reference:	TS 102 527-3 [14], Clause 7.4.3.9
Initial condition:	2 PPs registered (IUT is PP1, TS_2 is NG PP2), T-00
Stimulus:	Perform an internal outgoing call on IUT towards PP2
	2. TS_2 will choose G.722 codec in a {CC-CONNECT} message
	3. Send a (CC-RELEASE) from TS_2
Pass criteria:	Verify that the IUT sends to TS_1 either:
	 if specified at call setup phase, G.722 in IE <<codec list="">> with highest priority; or</codec>
	 if not specified at call setup phase, G.722 in IE <<codec list="">> with highest priority at last location registration</codec>
	2. Verify by checking end-to-end U-plane connection that the IUT is able to establish
	G.722 internal outgoing call
	3. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM}

TC_PT_GAP.N.31_BV_602	Internal call codec priority - incoming call
Reference:	TS 102 527-3 [14], Clause 7.4.3.9
Initial condition:	2 PPs registered (IUT is PP1, TS_2 is NG PP2), T-00
Stimulus:	1. Perform an internal G.722 outgoing call on PP2 towards IUT
	2. Call pick up on IUT
	3. Hang up on IUT
Pass criteria:	1. Verify that the IUT presents the internal call to the user (ringing or display)
	2. Verify that the IUT selects G.722 codec in IE < <codec list="">> only in one of the</codec>
	following messages: {CC-ALERTING} and {CC-CONNECT} (other messages not
	allowed)
	Verify by checking end-to-end U-plane connection that the IUT is able to establish
	G.722 internal incoming call
	3. Verify that the IUT sends to TS_1 a {CC-RELEASE} message

6.25 TC_PT_GAP.N.34 Calling Name Identification Presentation tests cases

Test subgroup objectives: to check the IUT's behaviours when receiving CNIP with the following consideration:

• As GAP.N.34_2 "UTF-8 CNIP" is tested implicitly when testing GAP.N.34_1 "Calling Name Identification Presentation (CNIP) Indication", there is no test case defined for this procedure.

TC_PT_GAP.N.34_BV_101	Incoming call with calling party name in {CC-SETUP}
Reference:	EN 300 444 [12], Clauses 8.12, 8.13 and 8.42
	TS 102 527-3 [14], Clause 7.4.17.2
Initial condition:	T-00
Stimulus:	Send a {CC-SETUP} message from TS_1 with IE < <basic-service>> set to 'Normal</basic-service>
	call setup', IE < <signal>> set to 41H indicating 'Alerting on - pattern 1', IE <<calling< td=""></calling<></signal>
	PARTY NAME = < Presentation allowed, UTF-8, Network provided, 'CNIP1 âàä'> >> >,
	and IE < <call-information>> specifying (line 0, full VoIP line type information, call id</call-information>
	a, CS call setup) =<(0, 0, 0), (0, 5, 1), (1, 0, value a), (2, 1, 1)>>>
Pass criteria:	Verify by checking CNIP presentation on IUT display of 'CNIP1 âàä' that the IUT is able to
	handle UTF-8 < <calling name="" party="">> in {CC-SETUP} without crashing</calling>
Comments:	For UTF-8 characters the PP is not able to display among "â", "à", the PP should use
	a replacement character (replacement character is left free to the manufacturer)
	UTF-8 characters encoding:
	"â": LATIN SMALL LETTER A WITH CIRCUMFLEX 'c3a2'H
	"à": LATIN SMALL LETTER A WITH GRAVE 'c3a0'H
	"ä": LATIN SMALL LETTER A WITH DIAERESIS 'c3a4'H

Reference:	EN 300 444 [12], Clauses 8.12, 8.13 and 8.42
	TS 102 527-3 [14], Clause 7.4.17.2
Initial condition:	T-00
Stimulus:	 Send a {CC-SETUP} message from TS_1 with IE <<basic-service>> set to 'Normal call setup', IE <<signal>> set to 41H indicating 'Alerting on - pattern 1', and IE <<call-information>> specifying (line 0, full VoIP line type information, call id a, CS call setup) =<(0, 0, 0), (0, 5, 1), (1, 0, value a), (2, 1, 1)>>></call-information></signal></basic-service> Send a {CC-INFO} message from TS_1 with IE <<calling 'cnip2="" allowed,="" and="" name="<" party="" passed,="" presentation="" user-provided,="" utf-8,="" verified="" éèë'="">>> and IE <<call-information>> specifying (call id a) =< (1, 0, value a) >>></call-information></calling>
Pass criteria:	 Verify that the IUT send to TS_1 a {CC-ALERTING} message Verify by checking CNIP presentation on IUT display of 'CNIP2 éèë' that the IUT is able to handle UTF-8 <<calling name="" party="">> in {CC-INFO} without crashing</calling>
Comments:	For UTF-8 characters the PP is not able to display among "ê", "ê", "ë", the PP should use a replacement character (replacement character is left free to the manufacturer). UTF-8 characters encoding: "é": LATIN SMALL LETTER E WITH ACUTE 'c3a9'H "è": LATIN SMALL LETTER E WITH GRAVE 'c3a8'H "ë": LATIN SMALL LETTER E WITH DIAERESIS 'c3ab'H

TC_PT_GAP.N.34_BV_103	Incoming call with CLIP and CNIP in {CC-INFO}
Reference:	EN 300 444 [12], Clauses 8.12, 8.13, 8.41 and 8.42
	TS 102 527-3 [14], Clause 7.4.17.2
Initial condition:	T-00
Stimulus:	 Send a {CC-SETUP} message from TS_1 with IE <<basic-service>> set to 'Normal call setup', IE <<signal>> set to 41H indicating 'Alerting on - pattern 1', and IE <<call-information>> specifying (line 0, full VoIP line type information, call id a, CS call setup) =<(0, 0, 0), (0, 5, 1), (1, 0, value a), (2, 1, 1)>>></call-information></signal></basic-service> Send a {CC-INFO} message from TS_1 with IE <<calling '987654321098'="" national="" number="<National" number,="" party="" plan,="" standard=""> >> and an IE <<calling 'clipøcnip'="" allowed,="" and="" name="<" party="" passed,="" presentation="" user-provided,="" utf-8,="" verified=""> >> and IE <<call-information>> specifying (call id a) =<(1, 0, value a) >>></call-information></calling></calling>
Pass criteria:	 Verify that the IUT send to TS_1 a {CC-ALERTING} message Verify by checking CNIP presentation on IUT display of 'CLIPØCNIP', and CLIP presentation, if displays, according to its display capabilities, that the IUT is able to handle both <<calling number="" party="">> and UTF-8 <<calling name="" party="">> in {CC-INFO} without crashing</calling></calling>
Comments:	In case both CLIP and CNIP are sent to the PP, it is sufficient to display CNIP. It is optional to display both. If the PP is not able to display "ø" UTF-8 character, the PP should use a replacement character (replacement character is left free to the manufacturer). UTF-8 character encoding: • "ø": LATIN SMALL LETTER O WITH STROKE 'c3b8'H

6.26 TC_PT_GAP.N.35 Enhanced security tests cases

Test subgroup objectives: to check the IUT's behaviours regarding Enhanced security features with the following consideration:

• As GAP.N.35_4 "subscriptions requirements" procedure specifies only FP requirements, there is no test case defined for this procedure.

Test equipment implementation requirements for enhanced security test cases

• The 'reserved' field (bits a32 to a47) of Mt control messages for early encryption ("start encryption with cipher key-index", with command encoding 10xxB) shall contain the value 0000H.

- GAP.N.35_2 "Re-keying during a call" procedure is optional on PP side, so the manufacturer shall declare if it is supported.
- GAP.N.35_3 "Early encryption" procedure is optional on PP side, so the manufacturer shall declare if it is supported.

TC_PT_GAP.N.35_BV_101	Encryption of all calls
Reference:	EN 300 444 [12], Clause 8.45.1
Initial condition:	T-00.
Stimulus:	Perform an outgoing call from IUT
	2. Send a {CC-CONNECT} message from TS_1 followed by a
	{AUTHENTICATION-REQUEST} message from TS_1.
	3. TS_1 sends a {CIPHER_REQUEST} message.
Pass criteria:	1. Verify that IUT sends to TS_1 a {CC-SETUP} message.
	2. Verify that IUT sends to TS_1 a {AUTHENTICATION-REPLY} message
	3. Verify that IUT activates encryption on MAC layer. Verify that encryption is activated
	and verify end-to-end U-plane connection.

TC_PT_GAP.N.35_BV_201	Indication of Support of 'Re-keying' and 'early encryption' in terminal capabilities during
	registration
Reference:	EN 300 444 [12], Clause 8.45.2
Initial condition:	TS_1 indicates the support of 'Re-keying' and 'early encryption' in Extended higher layer
	capabilities part 2 (a42bit)
Stimulus:	A44 set to 1 on TS_1.
	Perform an access rights request from IUT
Pass criteria:	Verify that the IUT includes in the {ACCESS-RIGHTS-REQUEST} message
	an IE < <terminal-capability>> with following capabilities declared</terminal-capability>
	 support of 'Re-keying' and 'early encryption' in Profile indicator_7 field (octet 4f)

TC_PT_GAP.N.35_BV_202	Indication of Support of 'Re-keying' and 'early encryption' in terminal capabilities during
	location registration
Reference:	EN 300 444 [12], Clause 8.45.2
Initial condition:	T-00. TS_1 indicates the support of 'Re-keying' and 'early encryption' in extended higher
	layer capabilities part 2 (a42 bit)
Stimulus:	Perform a location registration request from IUT (Switch IUT off and on again)
Pass criteria:	Verify that the IUT includes in the {LOCATE-REQUEST} message an IE
	< <terminal-capability>> with following capabilities declared:</terminal-capability>
	support of 'Re-keying' and 'early encryption' in Profile indicator_7 field (octet 4f)

TC_PT_GAP.N.35_BV_203	Re-keying procedure
Reference:	EN 300 444 [12], Clause 8.45.2
Initial condition:	T-00. TS_1 indicates the support of 'Re-keying' and 'early encryption' in extended higher layer capabilities part 2 (a42 bit).
Stimulus:	 Perform an outgoing call from IUT Send a {CC-CONNECT} message from TS_1 followed by a {AUTHENTICATION-REQUEST} message from TS_1 TS_1 saves generated DCK as DCK_1 TS_1 sends a {CIPHER_REQUEST} message TS_1 sends a {AUTHENTICATION-REQUEST} message. TS_1 saves generated DCK as DCK_2. TS_1 sends a {CIPHER_REQUEST} message
Pass criteria:	 Verify that IUT sends to TS_1 a {CC-SETUP} message. Verify that IUT sends to TS_1 a {AUTHENTICATION-REPLY} message Verify that IUT activates encryption on MAC layer. Verify that encryption is activated with DCK_1 and verify end-to-end U-plane connection. Verify that IUT sends to TS_1 a {AUTHENTICATION-REPLY} message Verify that IUT activates encryption on MAC layer. Verify that encryption is activated with DCK_2 and verify end-to-end U-plane connection

TC_PT_GAP.N.35_BV_301	Assignment of default cipher key and usage of early encryption during incoming call
Reference:	EN 300 444 [12], Clause 8.45.3
Initial condition:	TS_1 is in registration mode ('Access Rights supported' higher layer capability bit is set to
	1). TS_1 indicates the support of 'Re-keying' and 'early encryption' in the Extended higher
	layer capabilities part 2 (a42 bit)
Stimulus:	Invoke registration procedure at IUT.
	2. TS_1 sends an {AUTHENTICATION-REQUEST} message indicating DEF-bit=1 and
	default cipher key index 0001 and saves DCK as Def_DCK_1.
	3. Send a {CC-SETUP} from TS_1 in order to perform an incoming call with full paging
	(Long slot; j = 640), G.722 prioritized.
	4. Nothing
	5. Invoke call answering on IUT
	6. TS_1 sends a {CC-CONNECT_ACK}.
Pass criteria:	Verify successful subscription registration.
	Verify that IUT indicates the support of 'Re-keying' and 'early encryption' in the
	terminal capability.
	2. Verify that IUT sends to TS_1 a {AUTHENTICATION-REPLY} message.
	Verify that connection is released on MAC layer.
	3. Verify that IUT establishes MAC connection with immediate encryption activation
	using Def_DCK_1 with default cipher key index 0001 and sends an encrypted
	{LCE-PAGE-RESPONSE} message.
	4. Verify that IUT sends to TS_1 a {CC-ALERTING} message
	5. Verify that IUT sends to TS_1 a {CC-CONNECT} message
	6. Verify end-to-end U-plane connection.

TC_PT_GAP.N.35_BV_302	Usage of early encryption during outgoing call
Reference:	EN 300 444 [12], Clause 8.45.3
Initial condition:	T-00. Default cipher key Def_DCK_1 is available both in IUT and TS_1 with default cipher
	key index 0001 (i.e. TC_PT_GAP.N.35_BV_301 was executed before and the
	Def_DCK_1 has not been deleted).
Stimulus:	Invoke outgoing call at IUT
	2. TS_1 sends a {CC-CONNECT} message.
Pass criteria:	1. Verify that IUT establishes MAC connection with immediate encryption activation
	using Def_DCK_1 with default cipher key index 0001
	Verify that IUT sends to TS_1 an encrypted {CC-SETUP} message
	2. Verify end-to-end U-plane connection.

TC_PT_GAP.N.35_BV_303	Usage of early encryption for MM procedure
Reference:	EN 300 444 [12], Clause 8.45.3
Initial condition:	T-00. Default cipher key Def_DCK_1 is available both in IUT and TS_1 with default cipher
	key index 0001 (i.e. TC_PT_GAP.N.35_BV_301 was executed before and the
	Def_DCK_1 has not been deleted).
Stimulus:	Switch IUT off and on.
Pass criteria:	Verify that IUT performs MAC connection establishment with immediate encryption
	activation using Def_DCK_1 with default cipher key index 0001 and sends to TS_1
	{LOCATE-REQUEST} message on the already encrypted link.

TC_PT_GAP.N.35_BV_304	Overwriting a default cipher key by assigning a new default cipher key with the same
	index
Reference:	EN 300 444 [12], Clause 8.45.3
Initial condition:	T-00. Default cipher key Def_DCK_1 is available both in IUT and TS_1 with Default cipher
	key index 0001 (i.e. TC_PT_GAP.N.35_BV_301 was executed before and the
	Def_DCK_1 has not been deleted).
Stimulus:	1. Invoke outgoing call at IUT.
	2. TS_1 sends a {CC-CONNECT} message.
	3. TS_1 sends a {AUTHENTICATION-REQUEST} message indicating DEF-bit=1 and
	default cipher key index 0001 and saves DCK as Def_DCK_2.
	4. TS_1 sends a {CC-RELEASE} message.
	5. TS_1 initiates release of MAC connection.
	6. Invoke outgoing call at IUT.
	7. TS_1 sends a {CC-CONNECT} message.
Pass criteria:	1. Verify that IUT establishes MAC connection with immediate encryption activation
	using Def_DCK_1 with default cipher key index 0001
	Verify that IUT sends to TS_1 an encrypted {CC-SETUP} message.
	2. Verify end-to-end U-plane connection.
	3. Verify that IUT sends to TS_1 a {AUTHENTICATION-REPLY} message.
	4. Verify that IUT sends to TS_1 a {CC-RELEASE-COM} message.
	5. Verify that MAC connection is released.
	6. Verify that IUT establishes MAC connection with immediate encryption activation
	using Def_DCK_2 with default cipher key index 0001
	Verify that IUT sends to TS_1 an encrypted {CC-SETUP} message.
	7. Verify end-to-end U-plane connection.
Comments:	Def_DCK_2 shall be different than Def_DCK_1. This is automatically achieved in case
	e.g. the random values in the {AUTHENTICATION-REQUEST} message are different

TC_PT_GAP.N.35_BV_305	Assign two default cipher keys with different indices.
Reference:	EN 300 444 [12], Clause 8.45.3
Initial condition:	T-00. Default cipher key Def_DCK_1 is available both in IUT and TS_1 with Default cipher
	key index 0001 (i.e. TC_PT_GAP.N.35_BV_301 was executed before and the
	Def_DCK_1 has not been deleted).
Stimulus:	1. Invoke outgoing call at IUT.
	2. TS_1 sends a {CC-CONNECT} message.
	3. TS_1 sends a {AUTHENTICATION-REQUEST} message indicating DEF-bit=1 and
	default cipher key index 0002 and saves DCK as Def_DCK_2.
	4. TS_1 sends a {CC-RELEASE} message.
	5. TS_1 initiates release of MAC connection.
	6. Invoke outgoing call at IUT
	7. TS_1 sends a {CC-CONNECT} message.
Pass criteria:	1. Verify that IUT establishes MAC connection with immediate encryption activation
	using Def_DCK_1 with default cipher key index 0001
	Verify that IUT sends to TS_1 an encrypted {CC-SETUP} message.
	2. Verify end-to-end U-plane connection.
	3. Verify that IUT sends to TS_1 a {AUTHENTICATION-REPLY} message.
	4. Verify that IUT sends to TS_1 a {CC-RELEASE-COM} message.
	5. Verify that MAC connection is released.
	6. Verify that IUT establishes MAC connection with immediate encryption activation
	using either Def_DCK_1 with default cipher key index 0001 or Def_DCK_2 with
	default cipher key index 0002
	Verify that IUT sends to TS_1 an encrypted {CC-SETUP} message.
	7. Verify end-to-end U-plane connection.
Comments:	Def_DCK_2 shall be different than Def_DCK_1. This is automatically achieved in case
	e.g. the random values in the {AUTHENTICATION-REQUEST} message are different

TC_PT_GAP.N.35_BV_306	PP releases connection in case FP rejects early encryption on MAC layer
Reference:	EN 300 444 [12], Clause 8.45.3
Initial condition:	T-00. Default cipher key Def_DCK_1 is available both in IUT and TS_1 with default cipher
	key index 0001 (i.e. TC_PT_GAP.N.35_BV_301 was executed before and the
	Def_DCK_1 has not been deleted).
Stimulus:	1. Invoke outgoing call at IUT.
	2. TS_1 rejects start of encryption with cipher key index 0001 on MAC layer.
Pass criteria:	1. Verify that IUT establishes MAC connection and initiates encryption activation using
	Def_DCK_1 with default cipher key index 0001
	Verify that PP releases connection on MAC layer within 10 seconds.

TC_PT_GAP.N.35_BV_501	Release of unexpectedly unencrypted outgoing call in call proceeding state
Reference:	EN 300 444 [12], Clause 8.45.5
Initial condition:	IUT has no access rights. TS_1 is in registration mode (bit a44 is set). TS_1 broadcasts that standard ciphering is supported (bit a37=1 in higher layer capabilities) and that 'Re-keying' and 'early encryption' in Extended higher layer capabilities part 2 (bit a42) is not supported.
Stimulus:	 Invoke registration procedure at IUT. TS_1 sends a {LOCATE-ACCEPT} message. Invoke outgoing call at IUT. TS_1 sends a {CC-SETUP-ACK} message. (Optionally dial some digits on IUT). TS_1 sends a {CC-CALL_PROC} to IUT. TS_1 performs authentication of PP and FT initiated cipher switching. TS_1 sends a {CC-RELEASE} message TS_1 initiates release of MAC-connection. Invoke outgoing call at IUT. TS_1 sends a {CC-SETUP-ACK} message. (Optionally dial some digits on IUT). TS_1 sends a {CC-CALL-PROC} message to IUT.
Pass criteria:	TS_1 does not perform authentication of PP and FT initiated cipher switching Start timer T001 (60s) 1. Verify successful registration. Verify that IUT sends to TS_1 a {LOCATE-REQUEST} message. 2. Verify that IUT sends to TS_1 a {CC-SETUP} message 3. No specific pass criteria 4. Verify successful authentication of PP and successful FT initiated cipher switching. Verify end-to-end U-plane connection. 5. Verify that IUT sends to TS_1 a {CC-RELEASE-COM} message 6. Verify successful release of MAC-connection. 7. Verify that IUT establishes link and sends to TS_1 a {CC-SETUP} message 8. No specific pass criteria
Comments:	9. Verify that IUT sends to TS_1 a {CC-RELEASE_COM} message containing IE < <release assumed="" attack="" reason="<Security"> >> before T.001 expiry In pass criteria 7, the PP will check the status of the link 15 seconds after CC-SETUP. However test equipment shall leave some flexibility (up to 60 seconds) before checking the CC-RELEASE-COM for example if the IUT queries the user before releasing the link</release>

TC_PT_GAP.N.35_BV_502	Release of unexpectedly unencrypted outgoing call in connect state
Reference:	EN 300 444 [12], Clause 8.45.5
Initial condition:	IUT has no access rights. TS_1 is in registration mode (bit a44 is set). TS_1 broadcasts
	that standard ciphering is supported (bit a37=1 in higher layer capabilities) and that
	'Re-keying' and 'early encryption' in Extended higher layer capabilities part 2 (bit a42) is
	not supported
Stimulus:	Invoke registration procedure at IUT.
	2. TS_1 sends a {LOCATE-ACCEPT} message. Invoke outgoing call at IUT.
	3. TS_1 sends a {CC-CONNECT} message to IUT. TS_1 performs authentication of
	PP and FT initiated cipher switching.
	4. TS_1 sends a {CC-RELEASE} message
	5. TS_1 initiates release of MAC-connection.
	6. Invoke outgoing call at IUT.
	7. TS_1 sends a {CC-CONNECT} message to IUT.
	TS_1 does not perform authentication of PP and FT initiated cipher switching
	Start timer T001 (60s)
Pass criteria:	1. Verify successful registration.
	Verify that IUT sends to TS_1 a {LOCATE-REQUEST} message.
	2. Verify that IUT sends to TS_1 a {CC-SETUP} message
	3. Verify successful authentication of PP and successful FT initiated cipher switching.
	Verify end-to-end U-plane connection.
	4. Verify that IUT sends to TS_1 a {CC-RELEASE-COM} message
	5. Verify successful release of MAC-connection.
	6. Verify that IUT establishes link and sends to TS_1 a {CC-SETUP} message
	7. Verify that IUT sends to TS_1 a {CC-RELEASE_COM} message containing IE
Comments	< <release assumed="" attack="" reason="<Security"> >> before T.001 expiry.</release>
Comments:	In pass criteria 7, the PP will check the status of the link 15 seconds after CC-SETUP.
	However test equipment shall leave some flexibility (up to 60 seconds) before checking the CC-RELEASE-COM for example if the IUT queries the user before releasing the link
	The Co-Neleason of example in the 101 queries the user before releasing the link

TC_PT_GAP.N.35_BV_503	Release of unexpectedly unencrypted incoming call in alerting state
Reference:	EN 300 444 [12], Clause 8.45.5
Initial condition:	IUT has no access rights. TS_1 is in registration mode (bit a44 is set). TS_1 broadcasts that standard ciphering is supported (bit a37=1 in higher layer capabilities) and that
	'Re-keying' and 'early encryption' in Extended higher layer capabilities part 2 (bit a42) is not supported
Stimulus:	Invoke registration procedure at IUT.
	2. TS_1 sends a {LOCATE-ACCEPT} message.
	TS_1 performs authentication of PP and FT initiated cipher switching.
	3. TS_1 sends a {CC-SETUP}.
	4. TS_1 sends a {CC-RELEASE} message
	5. TS_1 initiates release of MAC-connection.
	6. Send a {CC-SETUP} from TS_1 in order to perform an incoming call with full paging (Long slot; j = 640), G.722 prioritized.
	7. TS_1 does not perform authentication of PP and FT initiated cipher switching
	Start timer T001 (60s)
Pass criteria:	1. Verify successful registration.
	Verify that IUT sends to TS_1 a {LOCATE-REQUEST} message.
	2. Verify successful authentication of PP and successful FT initiated cipher switching
	3. Verify that IUT sends to TS_1 a {CC-ALERTING} message.
	4. Verify that IUT sends to TS_1 a {CC-RELEASE-COM} message
	5. Verify successful release of MAC-connection.6. Verify that IUT sends to TS_1 a {CC-ALERTING} message
	7. Verify that IUT sends to TS_1 a {CC-RELEASE_COM} message containing IE <<
	RELEASE REASON= <security assumed="" attack=""> >> before T.001 expiry</security>
Comments:	In pass criteria 7, the PP will check the status of the link 15 seconds after CC-SETUP.
Comments.	However test equipment shall leave some flexibility (up to 60 seconds) before checking
	the CC-RELEASE-COM for example if the IUT queries the user before releasing the link

TC_PT_GAP.N.35_BV_504	Release of unexpectedly unencrypted incoming call in connect state.
Reference:	EN 300 444 [12], Clause 8.45.5
Initial condition:	IUT has no access rights. TS_1 is in registration mode (bit a44 is set). TS_1 broadcasts that standard ciphering is supported (bit a37=1 in higher layer capabilities) and that 'Re-keying' and 'early encryption' in Extended higher layer capabilities part 2 (bit a42) is not supported
Stimulus:	 Invoke registration procedure at IUT. TS_1 sends a {LOCATE-ACCEPT} message. TS_1 sends a {CC-SETUP}. Answer call at IUT. TS_1 sends a {CC-CONNECT-ACK} message to IUT. TS_1 performs authentication of PP and FT initiated cipher switching. TS_1 sends a {CC-RELEASE} message TS_1 initiates release of MAC-connection. Send a {CC-SETUP} from TS_1 in order to perform an incoming call with full paging (Long slot; j = 640), G.722 prioritized. Void Answer call at IUT within 10 seconds. TS_1 sends a {CC-CONNECT-ACK} message to IUT. TS_1 does not perform authentication of PP and FT initiated cipher switching Start timer T001 (60s)
Pass criteria:	 Verify successful registration. Verify that IUT sends to TS_1 a {LOCATE-REQUEST} message. Verify that IUT sends to TS_1 a {CC-ALERTING} message Verify that IUT sends to TS_1 a {CC-CONNECT} message Verify successful authentication of PP and successful FT initiated cipher switching. Verify end-to-end U-plane connection. Verify that IUT sends to TS_1 a {CC-RELEASE-COM} Verify successful release of MAC-connection. Void. Verify that IUT sends to TS_1 a {CC-ALERTING} message Verify that IUT sends to TS_1 a {CC-CONNECT} message Verify that IUT sends to TS_1 a {CC-RELEASE_COM} message containing IE <release assumed="" attack="" reason="<Security"> >> before T.001 expiry</release>
Comments:	In pass criteria 10, the PP will check the status of the link 15 seconds after CC-SETUP. However test equipment shall leave some flexibility (up to 60 seconds) before checking the CC-RELEASE-COM for example if the IUT queries the user before releasing the link

TC_PT_GAP.N.35_BV_505	Release of unexpectedly unencrypted outgoing call in connect state after switching
	encryption support in FT off
Reference:	EN 300 444 [12], Clause 8.45.5
Initial condition:	IUT has no access rights. TS_1 is in registration mode (bit a44 is set). TS_1 broadcasts
	that standard ciphering is supported (bit a37=1 in higher layer capabilities) and that
	'Re-keying' and 'early encryption' in Extended higher layer capabilities part 2 (bit a42) is
	not supported
Stimulus:	Invoke registration procedure at IUT.
	2. TS_1 sends a {LOCATE-ACCEPT} message. Invoke outgoing call at IUT.
	3. TS_1 sends a {CC-CONNECT} to IUT. TS_1 performs authentication of PP and FT
	initiated cipher switching.
	4. TS_1 sends a {CC-RELEASE} message
	5. TS_1 initiates release of MAC-connection.
	6. TS_1 switches encryption support to 'off' and broadcasts that standard ciphering is
	not supported (bit a37=0 in higher layer capabilities) for 20 seconds.
	Afterwards invoke outgoing call at IUT.
	7. TS_1 sends a {CC-CONNECT} to IUT.
	TS_1 does not perform authentication of PP and FT initiated cipher switching
	Start timer T001 (60s)
Pass criteria:	1. Verify successful registration.
	Verify that IUT sends to TS_1 a {LOCATE-REQUEST} message.
	2. Verify that IUT sends to TS_1 a {CC-SETUP} message
	3. Verify successful authentication of PP and successful FT initiated cipher switching.
	Verify end-to-end U-plane connection.
	4. Verify that IUT sends to TS_1 a {CC-RELEASE-COM} message
	5. Verify successful release of MAC-connection.
	6. Verify that IUT establishes link and sends to TS_1 a {CC-SETUP} message
	7. Verify that IUT sends to TS_1 a {CC-RELEASE_COM} message containing IE
0	< <release assumed="" attack="" reason="<Security"> >> before T.001 expiry</release>
Comments:	In pass criteria 7, the PP will check the status of the link 15 seconds after CC-SETUP.
	However test equipment shall leave some flexibility (up to 60 seconds) before checking
	the CC-RELEASE-COM for example if the IUT queries the user before releasing the link

TC_PT_GAP.N.35_BV_506	Release of unexpectedly unencrypted outgoing call in connect state despite of successful
	authentication
Reference:	EN 300 444 [12], Clause 8.45.5
Initial condition:	IUT has no access rights. TS_1 is in registration mode (bit a44 is set). TS_1 broadcasts
	that standard ciphering is supported (bit a37=1 in higher layer capabilities) and that
	'Re-keying' and 'early encryption' in Extended higher layer capabilities part 2 (bit a42) is
	not supported
Stimulus:	Invoke registration procedure at IUT.
	2. TS_1 sends a {LOCATE-ACCEPT} message. Invoke outgoing call at IUT.
	3. TS_1 sends a {CC-CONNECT} message to IUT.
	TS_1 performs authentication of PP and FT initiated cipher switching
	4. TS_1 sends a {CC-RELEASE} message
	5. TS_1 initiates release of MAC-connection
	6. Invoke outgoing call at IUT.
	7. TS_1 sends a {CC-CONNECT} message to IUT
	TS_1 sends a {AUTHENTICATION-REQUEST} message to IUT
	8. TS_1 does not perform FT initiated cipher switching
	Start timer T001 (60s)
Pass criteria:	Verify successful registration
	Verify that IUT sends to TS_1 a {LOCATE-REQUEST}message
	2. Verify that IUT sends to TS_1 a {CC-SETUP} message
	3. Verify successful authentication of PP and successful FT initiated cipher switching
	Verify end-to-end U-plane connection
	4. Verify that IUT sends to TS_1 a {CC-RELEASE-COM} message
	5. Verify successful release of MAC-connection
	6. Verify that IUT establishes link and sends to TS_1 a {CC-SETUP} message
	7. Verify that IUT sends to TS_1 a {AUTHENTICATION-REPLY} message
	8. Verify that IUT sends to TS_1 a {CC-RELEASE_COM} message containing IE
0	< <release assumed="" attack="" reason="<Security"> >> before T.001 expiry.</release>
Comments:	In pass criteria 8, the PP will check the status of the link 15 seconds after CC-SETUP.
	However test equipment shall leave some flexibility (up to 60 seconds) before checking
	the CC-RELEASE-COM for example if the IUT queries the user before releasing the link

TC_PT_GAP.N.35_BV_507	Release of unexpectedly unencrypted incoming call in connect state despite of
	successful authentication.
Reference:	EN 300 444 [12], Clause 8.45.5
Initial condition:	IUT has no access rights. TS_1 is in registration mode (bit a44 is set). TS_1 broadcasts that standard ciphering is supported (bit a37=1 in higher layer capabilities) and that 'Re-keying' and 'early encryption' in Extended higher layer capabilities part 2 (bit a42) is not supported
Stimulus:	 Invoke registration procedure at IUT. TS_1 sends a {LOCATE-ACCEPT} message TS_1 sends a {CC-SETUP} message Answer call at IUT TS_1 sends a {CC-CONNECT-ACK} message to IUT. TS_1 performs authentication of PP and FT initiated cipher switching TS_1 sends a {CC-RELEASE} message TS_1 sinitiates release of MAC-connection. Send a {CC-SETUP} from TS_1 in order to perform an incoming call with full paging (Long slot; j = 640), G.722 prioritized. Void Answer call at IUT within 10 seconds TS_1 sends a {CC-CONNECT-ACK} message to IUT. TS_1 sends a {AUTHENTICATION-REQUEST} message to IUT. TS_1 does not perform FT initiated cipher switching Start timer T001 (60s)
Pass criteria:	 Verify successful registration Verify that IUT sends to TS_1 a {LOCATE-REQUEST} message Verify that IUT sends to TS_1 a {CC-ALERTING} message Verify that IUT sends to TS_1 a {CC-CONNECT} message Verify successful authentication of PP and successful FT initiated cipher switching. Verify end-to-end U-plane connection. Verify that IUT sends to TS_1 a {CC-RELEASE-COM} Verify successful release of MAC-connection Void Verify that IUT sends to TS_1 a {CC-ALERTING} message Verify that IUT sends to TS_1 a {CC-CONNECT} message Verify that IUT sends to TS_1 a {AUTHENTICATION-REPLY} message Verify that IUT sends to TS_1 a {CC-RELEASE_COM} message containing IE <<release assumed="" attack="" reason="<Security"> >> before T.001 expiry</release>
Comments:	In pass criteria 11, the PP will check the status of the link 15 seconds after CC-SETUP. However test equipment shall leave some flexibility (up to 60 seconds) before checking the CC-RELEASE-COM for example if the IUT queries the user before releasing the link

6.27 TC_PT_NG1.A.1 Easy PIN code registration tests cases

Test subgroup objectives: to check the IUT's behaviours regarding easy PIN-code registration.

Declarations (see Annex A):

• NG1.A.1_3 "Base station name selection" procedure is optional. So the manufacturer shall declare if it is supported.

TC_PT_NG1.A.1_BV_101	Registration mode automatic access
Reference:	TS 102 527-3 [14], Clause 7.10.1.3.1
Initial condition:	IUT not registered and powered off
Stimulus:	Switch on IUT
Pass criteria:	Verify that the IUT starts in a mode where the user is directly invited to trigger the access
	rights procedure

TC_PT_NG1.A.1_BV_201	Searching mode and PIN code requests
Reference:	TS 102 527-3 [14], Clause 7.10.1.1.1
Initial condition:	IUT not registered, 'Access Rights supported' capability bit of TS_1 set to 1, AC set to
	'1234' value"
Stimulus:	Start the access rights procedure on the IUT
Pass criteria:	Verify that the IUT prompts the user to enter the PIN code

TC_PT_NG1.A.1_BV_301	Base station name selection
Reference:	TS 102 527-3 [14], Clause 7.10.1.3.2
Initial condition:	IUT not registered, 'Access Rights supported' capability bit of TS_1 set to 1
	AC set to '1234' value, FP name set to 'NG-DECT Part 3 FP tester' (17 characters max.).
Stimulus:	Start the access rights procedure on the IUT
	2. Select TS_1 name 'NG-DECT Part 3 FP tester' for registration
	3. Enter '1234' as PIN value on the IUT
	4. Perform an outgoing call from IUT
Pass criteria:	1. Verify that the IUT displays the 'NG-DECT Part 3 FP tester' base station name
	2. Verify that the IUT prompts the user to enter the PIN code value
	3. Verify that the registration procedure is successful on IUT
	4. Verify that the IUT sends to TS_1 a {CC-SETUP} message

TC_PT_NG1.A.1_BV_401	Registration user feedback
Reference:	TS 102 527-3 [14], Clause 7.10.1.3.3
Initial condition:	IUT not registered, 'Access Rights supported' capability bit of TS_1 set to 0, AC set to
	1234' value
Stimulus:	1. Start the access rights procedure on IUT
	2. Wait for the end of the procedure on IUT
	3. Set 'Access Rights supported' capability bit to 1 on TS_1
	Start the access rights procedure on the IUT
	4. Perform an Easy PIN code registration procedure using '5678' as PIN value on IUT
	5. Start the access rights procedure on the IUT
	6. Perform an Easy PIN code registration procedure using '1234' as PIN value on IUT
	7. Perform an outgoing call from IUT
	8. Hang up on IUT
	9. Send a {CC-RELEASE-COM} message from TS_1
Pass criteria:	1. Verify that the IUT gives a feedback to the user of the registration process:
	"Registration in progress state"
	2. Verify that the IUT gives a feedback to the user of the registration process:
	"Registration error state"
	3. Verify that the IUT gives a feedback to the user of the registration process:
	"Registration in progress state"
	4. Verify that the IUT gives a feedback to the user of the registration process:
	"Registration error state"
	5. Verify that the IUT gives a feedback to the user of the registration process:
	"Registration in progress state"
	6. Verify that the IUT gives a feedback to the user of the registration process:
	"Registration success state"
	7. Verify that the IUT sends to TS_1 a {CC-SETUP} message
	8. Verify that the IUT sends to TS_1 a {CC-RELEASE} message
Comments:	The purpose of the steps of this test case are the following:
	Step 1: The user initiates a subscription registration on the IUT. This registration will
	fail, reason for failure: FT a44 bit unset on the test equipment.
	Step 2: At the end of the registration window time on PT side, the user is reported a
	failure (as feedback displayed to PT user).
	Step 3: With FT a ₄₄ bit set on tester side, the user initiates again a new subscription
	registration on the PT, but as the AC code of the FT is not the default '0000',
	the PT will prompt the user for a PIN code (see step 4).
	Step 4: The user enters a wrong PIN code ('5678') on PT side, and observes failure.
	Step 5: The user initiates a (successful) subscription registration on PT side.
	Step 6: The user enters the right PIN code ('1234') on PT side, and observes success.
	Step 7: The user sets up an outgoing call to confirm successful access rights
	procedure on PT side.
	Step 8: The user hangs up.
	Step 9: The tester terminates the release of the call.

6.28 TC_PT_NG1.A.2 Easy pairing registration tests cases

Test subgroup objectives: to check the IUT's behaviours regarding easy pairing registration taking into account the following considerations:

- As NG1.A.2_1 "Easy pairing description" is tested implicitly when testing NG1.A.2_4 "Searching mode request", there is no test case defined for this procedure.
- As NG1.A.2_2 "Registration mode automatic access" is tested when testing NG1.A.2_4 "Searching mode request", there is no test case defined for this procedure.
- As NG1.A.2_3 "Base station limited registration mode" is a FP capacity, there is no PP test case defined for this procedure.
- As NG1.A.2_5 "Base station name selection" is tested when testing NG1.A.1_3 "Base station name selection", there is no test case defined for this procedure.
- As NG1.A.2_6 "Registration user feedback" is tested when testing NG1.A.1_4 "Registration user feedback", there is no test case defined for this procedure.

Declarations (see Annex A):

NG1.A.1_3 "Base station name selection" is optional. So the manufacturer shall declare if it is supported.

TC_PT_ NG1.A.2_BV_401	Searching mode request (default PIN)
Reference:	TS 102 527-3 [14], Clause 7.10.1.2.3
Initial condition:	IUT not registered and powered off, 'Access Rights supported' higher layer capability bit
	of TS_1 set to 1, AC set to '0000' value
Stimulus:	1. Switch on IUT
	2. Start the access rights procedure on IUT
Pass criteria:	Verify that the IUT starts in a mode where the user is directly invited to trigger the access rights procedure
	2. Verify that the IUT does not prompt the user to enter the PIN code and that the registration is successful

TC_PT_ NG1.A.2_BV_402	Searching mode request (switching back to PIN entry)
Reference:	TS 102 527-3 [14], Clause 7.10.1.2.3
Initial condition:	IUT not registered, 'Access Rights supported' higher layer capability bit of TS_1 set to 1,
	AC set to '1234' value
Stimulus:	1. Start the access rights procedure on IUT
	2. When prompt, enter '1234' PIN code on IUT
Pass criteria:	1. Verify that the IUT prompts the user to enter the PIN code
	2. Verify that the registration is then successful

6.29 TC_PT_NG1.A.3 Handset locator tests cases

Test subgroup objectives: to check the IUT's behaviours regarding handset locator.

TC_PT_NG1.A.3_BV_101	Handset locator
Reference:	TS 102 527-3 [14], Clause 7.10.2
Initial condition:	T-00, IUT ringing capabilities enabled
Stimulus:	Send a {CC-SETUP} message from TS_1 with IE < <basic-service>> specifying <call< th=""></call<></basic-service>
	class = Normal call setup> >>, IE < <calling name="" party="">> whose <presentation< th=""></presentation<></calling>
	indicator> field is set to 'Handset locator', and with IE < <call-information>></call-information>
	specifying (call id a, CS call setup) = <(1, 0, value a), (2, 1, 1)> (without any line identifier)
Pass criteria:	Verify that the IUT rings

7 Fixed Part Test specification

This clause includes lists of the test groups relevant for a NG-DECT fixed part. Test cases are ordered like network features followed by application features (TS 102 527-3 [14], Clauses 6.4 and 6.9).

The NG-DECT fixed part under test shall be connected to a network when running the tests suite.

7.1 TC_FT_NG1.N.1 Codec negotiation tests cases

Test subgroup objectives: to check the IUT's behaviours when negotiating a codec.

TC_FT_NG1.N.1_BV_101	Exchange of codec list during subscription registration
Reference:	TS 102 527-1 [13], Clauses 7.3.1 and 7.3.7
Initial condition:	F-00.
Stimulus:	Perform an access rights request from TS_1
Pass criteria:	Verify that the IUT includes in the {ACCESS-RIGHTS-ACCEPT} message an IE
	< <codec-list>> with G.722 codec, G.726 codec, and "Codec negotiation possible"</codec-list>
	indications

TC_FT_NG1.N.1_BV_102	Exchange of codec list during location registration
Reference:	TS 102 527-1 [13], Clause 7.3.1
Initial condition:	F-00
Stimulus:	Perform a location registration request from TS_1
Pass criteria:	Verify that the IUT includes in the {LOCATE-ACCEPT} message an IE < <codec-list>> with</codec-list>
	G.722 codec, G.726 codec, and "Codec negotiation possible" indications

TC_FT_NG1.N.1_BV_103	NG-DECT Part 1 higher layer capabilities
Reference:	EN 300 175-5 [5], Clause F.3
Initial condition:	F-00.
Stimulus:	Perform an access rights request from TS_1
Pass criteria:	Verify that "NG-DECT Wideband voice" FP higher layer capability bit is set to 1 (=
	Extended higher layer capabilities (part 2) a24 bit)

TC_FT_NG1.N.1_BV_104	NG-DECT Part 3 higher layer capabilities
Reference:	EN 300 175-5 [5], Clause F.3
Initial condition:	F-00.
Stimulus:	Perform an access rights request from TS_1
Pass criteria:	Verify that "NG-DECT Extended wideband voice supported" higher layer capability bit is set
	to 1 (= Extended higher layer capabilities (part 2) a29 bit)

TC_FT_NG1.N.1_BV_201	Basic service wideband speech
Reference:	TS 102 527-1 [13], Clause 7.3.2
Initial condition:	F-00
Stimulus:	Perform an incoming call towards IUT from Phone_A
Pass criteria:	Verify that the IUT sets "wideband speech default" attribute IE < <basic-service>> in</basic-service>
	{CC-SETUP} message

TC_FT_NG1.N.1_BV_301	Outgoing G.722 call using long slot MAC setup
Reference:	TS 102 527-1 [13], Clause 7.3.3
	EN 300 444 [12], Clause 8.1, Figure 1
Initial condition:	F-00
Stimulus:	Perform a G.722 outgoing call in long slot mode from TS_1 to Phone A supporting G.722.
Pass criteria:	Verify that the IUT selects a codec only in one of the following messages:
	{CC-SETUP-ACK}, {CC-CALL-PROC}, {CC-ALERTING}, or {CC-CONNECT} message
	(other messages not allowed)
	Verify by checking end-to-end U-plane connection that the IUT is able to establish G.722
	outgoing call
Comments:	Test case shall fail if IE < <codec-list>> is sent in more than one CC message</codec-list>
	The IUT may first negotiate G.726 codec and then switch to G.722 codec instead of
	selecting directly G.722

TC_FT_NG1.N.1_BV_302	Outgoing G.726 call using full slot MAC setup
Reference:	TS 102 527-1 [13], Clause 7.3.3
	EN 300 444 [12], Clause 8.1, Figure 1
Initial condition:	F-00
Stimulus:	Perform a G.726 outgoing call in full slot mode from TS_1 to Phone C supporting only G.726
Pass criteria:	Verify that the IUT selects a codec only in one of the following messages: {CC-SETUP-ACK}, {CC-CALL-PROC}, {CC-ALERTING}, or {CC-CONNECT} message (other messages not allowed)
	Verify by checking end-to-end U-plane connection that the IUT is able to establish G.726 outgoing call
Comments:	Test case shall fail if IE < <codec-list>> is sent in more than one CC message The IUT may first negotiate G.722 codec and then switch to G.726 codec instead of selecting directly G.726</codec-list>

TC_FT_NG1.N.1_BV_303	Outgoing G.722 call using full slot MAC setup
Reference:	TS 102 527-1 [13], Clause 7.3.3
	EN 300 444 [12], Clause 8.1, Figure 1
Initial condition:	F-00
Stimulus:	Perform a G.722 outgoing call (long slot) modifying an established full slot connection from
	TS_1 to a Phone A supporting G.722.
Pass criteria:	Verify that the IUT selects a codec only in one of the following messages:
	{CC-SETUP-ACK}, {CC-CALL-PROC}, {CC-ALERTING}, or {CC-CONNECT} message
	(other messages not allowed)
	Verify by checking end-to-end U-plane connection that the IUT is able to establish G.722
	outgoing call
Comments:	Test case shall fail if IE < <codec-list>> is sent in more than one CC message</codec-list>
	The IUT may first negotiate G.726 codec and then switch to G.722 codec instead of
	selecting directly G.722

TC_FT_NG1.N.1_BV_304	Outgoing G.726 call using long slot MAC setup
Reference:	TS 102 527-1 [13], Clause 7.3.3
	EN 300 444 [12], Clause 8.1, Figure 1
Initial condition:	F-00
Stimulus:	Perform a G.726 outgoing call (full slot) modifying an established long slot connection from TS_1 to Phone C supporting only G.726
Pass criteria:	Verify that the IUT selects a codec only in one of the following messages: {CC-SETUP-ACK}, {CC-CALL-PROC}, {CC-ALERTING}, or {CC-CONNECT} message (other messages not allowed)
	Verify by checking end-to-end U-plane connection that the IUT is able to establish G.726 outgoing call
Comments:	Test case shall fail if IE < <codec-list>> is sent in more than one CC message The IUT may first negotiate G.722 codec and then switch to G.726 codec instead of selecting directly G.726</codec-list>

TC_FT_NG1.N.1_BV_305	Outgoing G.722call, fall back to G.726 codec when full to long slot type modification fails
Reference:	TS 102 527-1 [13], Clause 7.3.3
	EN 300 444 [12], Clause 8.1, Figure 1
Initial condition:	F-00
Stimulus:	 Perform a G.722 outgoing call in full slot mode from TS_1 to Phone A supporting G.722 and G.726.
	 TS_1 will not perform the full to long slot type modification successfully. If TS_1 will have initiated the slot type modification, TS_1 will switch to G.726, indicating so by sending {IWU-INFO}
Pass criteria:	Verify that the IUT selects a codec only in one of the following messages: {CC-SETUP-ACK}, {CC-CALL-PROC}, {CC-ALERTING}, or {CC-CONNECT} message (other messages not allowed)
	 Verify by checking end-to-end U-plane connection that the IUT is able to fall back to G.726 when full to long slot type modification fails
Comments:	Test case shall fail if IE < <codec-list>> is sent in more than one CC message The IUT may first negotiate G.726 codec and then switch to G.722 codec instead of selecting directly G.722. In that case, the full to long slot type modification will be initiated by IUT after test equipment will have accepted the fall back to G.726 by sending {CC-SERVICE-CHANGE-ACCEPT}</codec-list>

TC_FT_NG1.N.1_BV_306	Outgoing call without sending any IE < <codec-list>> in {CC-SETUP}</codec-list>
Reference:	TS 102 527-1 [13], Clause 7.3.3, see Annex D, Table D.3 for IE < <codec-list>> values</codec-list>
	in locate
Initial condition:	F-00
Stimulus:	 Perform a location registration request with an IE <<codec-list>> set to <negotiation 64kbit="" g.722,="" g.726="" indicator="codec" negotiation,="" s,="" specific="" user=""> from TS_1</negotiation></codec-list>
	 Perform an outgoing call (full slot) from TS_1 without sending any IE <<codec-list>> in {CC-SETUP} message to Phone A supporting G.722</codec-list>
Pass criteria:	 Verify that the IUT includes in the {LOCATE-ACCEPT} message an IE <<codec-list>> with at least G.722 and G.726 codecs</codec-list>
	2. Verify that the IUT selects a codec only in one of the following messages:
	{CC-SETUP-ACK}, {CC-CALL-PROC}, {CC-ALERTING}, or {CC-CONNECT} message
	(other messages not allowed)
	Verify G.722 end-to-end U-plane connection between TS_1 and Phone A
Comments:	Test case shall fail if IE < <codec-list>> is sent in more than one CC message</codec-list>
	The IUT may first negotiate G.726 codec and then switch to G.722 codec instead of
	selecting directly G.722

TC_FT_NG1.N.1_BV_307	Outgoing call with an IE < <codec-list>> in {CC-SETUP} different from previous sent</codec-list>
	during location registration
Reference:	TS 102 527-1 [13], Clause 7.3.3, see Annex D, Table D.3 for IE < <codec-list>> values</codec-list>
	in locate
Initial condition:	F-00
Stimulus:	 Perform a location registration request with an IE <<codec-list>> set to <negotiation g.711,="" g.722,="" g.726="" indicator="codec" negotiation,=""> from TS_1</negotiation></codec-list>
	 Perform an outgoing call (long slot) from TS_1 with an IE <<codec-list>> set to <negotiation g.722,="" g.726="" indicator="codec" negotiation,=""> in {CC-SETUP} message to Phone A supporting G.722</negotiation></codec-list>
Pass criteria:	 Verify that the IUT includes in the {LOCATE-ACCEPT} message an IE <<codec-list>> with at least G.722 and G.726 codecs</codec-list>
	 Verify that the IUT selects a codec only in one of the following messages: {CC-SETUP-ACK}, {CC-CALL-PROC}, {CC-ALERTING}, or {CC-CONNECT} message (other messages not allowed)
	Verify G.722 end-to-end U-plane connection between TS_1 and Phone A
Comments:	Test case shall fail if IE < <codec-list>> is sent in more than one CC message</codec-list>
	The IUT may first negotiate G.726 codec and then switch to G.722 codec instead of
	selecting directly G.722

TC_FT_NG1.N.1_BV_321	Incoming call G.722
Reference:	TS 102 527-1 [13], Clauses 7.3.3 and D.1.3 Figure D.7
Initial condition:	F-00
Stimulus:	Perform a G.722 incoming call towards IUT from phone A.
	TS_1 sends {CC-ALERTING}, and chooses G.722 in {CC-CONNECT}
Pass criteria:	Verify by checking end-to-end U-plane connection that the IUT is able to process G.722
	incoming call
Comments:	Short paging format (as defined in EN 300 175-5 [5], Clause 8.2.1) and full paging format
	with TPUI address structure (as defined in EN 300 175-5 [5], Clause 8.2.2) can be used
	within the {LCE-REQUEST-PAGE} message. As a consequence after G.722 was chosen,
	IUT might initiate a full to long slot type modification at MAC layer if necessary

TC_FT_NG1.N.1_BV_322	Incoming call G.726
Reference:	TS 102 527-1 [13], Clauses 7.3.3 and D.1.3.1 Figure D.7 with G.726
Initial condition:	F-00
Stimulus:	Perform a G.726 incoming call towards IUT from phone C.
	TS_1 chooses G.726 in {CC-ALERTING}, and sends {CC-CONNECT}
Pass criteria:	Verify by checking end-to-end U-plane connection that the IUT is able to process G.726
Comments:	incoming call Short paging format (as defined in EN 300 175-5 [5], Clause 8.2.1) and full paging format
Comments.	with TPUI address structure (as defined in EN 300 175-5 [5], Clause 8.2.2) can be used
	within the {LCE-REQUEST-PAGE} message. As a consequence after G.726 was chosen,
	IUT might initiate a long to full slot type modification at MAC layer if necessary

TC_FT_NG1.N.1_BV_323	Incoming call G.722, negotiation results in G.726
Reference:	TS 102 527-1 [13], Clauses 7.3.3 and D.1.3.2 Figure D.8
Initial condition:	F-00
Stimulus:	Perform a G.722 incoming call towards IUT from phone A.
	TS_1 chooses G.726 in {CC-ALERTING}, and sends {CC-CONNECT} after long to full slot modification
Pass criteria:	Verify by checking end-to-end U-plane connection that the IUT is able to process an incoming call G.722 finally negotiated in G.726
Comments:	Short paging format (as defined in EN 300 175-5 [5], Clause 8.2.1) and full paging format with TPUI address structure (as defined in EN 300 175-5 [5], Clause 8.2.2) can be used within the {LCE-REQUEST-PAGE} message. As a consequence after G.726 was chosen, IUT might initiate long to full slot type modification at MAC layer if necessary

TC_FT_NG1.N.1_WC_101	Outgoing call Wideband at NG-DECT Part 1 Golden Device PT (Golden Device A)
Reference:	TS 102 527-1 [13], Clause D.1.2.1, D.1.2.2
Initial condition:	T-00, A wideband corded SIP phone (SIP-WB-PH) is connected to the SIP server.
	Golden Device PT registered to IUT
Stimulus:	Perform an outgoing call from Golden Device PT to the SIP-WB-PH.
Pass criteria:	Verify by checking end-to-end U-plane connection that a test audio signal (e.g. sine wave
	6 kHz) transmitted to/from the corded phone can be heard on both ends

TC_FT_NG1.N.1_WC_103	Incoming call Wideband at NG-DECT Part 1 Golden Device PT (Golden Device A)
Reference:	TS 102 527-1 [13], Clause D.1.3.1
Initial condition:	T-00,
	A wideband corded SIP phone (SIP-WB-PH) is connected to the SIP server.
	Golden Device PT is registered to the IUT
Stimulus:	An outgoing call is established from the corded wideband phone (SIP-WB-PH) to the IUT.
	The call is answered on the Golden Device PT.
Pass criteria:	Verify by checking end-to-end U-plane connection that a test audio signal (e.g. sine wave
	6 kHz) transmitted to/from the corded phone can be heard on both ends

TC_FT_NG1.N.1_WC_105	Service change at NG-DECT Part 1 Golden Device PT (Golden Device A)
Reference:	TS 102 527-1 [13], Clause D.1.4.1
Initial condition:	A wideband corded SIP phone (SIP-WB-PH) and a narrow band corded SIP phone
	(SIP-NB-PH) are connected to the SIP server
	G.722 call is established via outgoing call from Golden Device PT to the SIP-WB-PH.
Stimulus:	Perform a call transfer from the corded wideband phone (SIP-WB-PH) to the corded
	narrowband phone (SIP-NB-PH) initiated by the corded wideband phone. This results in
	the SIP server re-negotiating from wideband to narrowband.
Pass criteria:	Verify by checking end-to-end U-plane connection that a test audio signal (e.g. sine wave
	2 kHz) transmitted to/from the corded phone can be heard on both ends

7.2 TC_FT_NG1.N.2 Codec switching tests cases

Test subgroup objectives: to check the IUT's behaviours during codec switching with the following consideration:

• As a codec change initiates by a PP during an established communication does not correspond to a common use case, there is no test case defined for this feature on FP side.

7.3 TC_FT_NG1.N.3 Missed call notification tests cases

Test subgroup objectives: to check the IUT's ability to handle missed call notification with the following consideration:

• NG1.N.3_2 "Missed call notification" procedure is also tested when testing NG1.N.16_17 "Missed calls list" procedure due to the "Simultaneous 'list change indication" requirement.

TC_FT_NG1.N.3_BV_201	Missed call notification after PP location registration
Reference:	TS 102 527-3 [14], Clause 7.4.1.3
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2),
	F-00
Stimulus:	Perform an incoming call on line 0 towards IUT from Phone A in order to present an incoming call on the IUT
	1a. Send a {CC-ALERTING} message from TS_1
	Hang up on Phone A
	Perform a location registration request from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <call-information>> specifying (line 0, line type information, call id a, CS call setup) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value a), (2, 1, 1)></call-information>
	1a. Verify that the IUT sends in any order:
	to TS 1 a {CC-RELEASE} message
	 to TS_1 and TS_2, a {FACILITY} message with IE <<events notification="</li"> </events>
	<missed 1="" a="" arrived,="" call="" call,="" external="" just="" missed="" new="" voice="">(=<01H,81H,81H>)</missed>
	< List change indication, Missed calls list, do not care value>(=<03H,81H,xxH>)
	>> and IE< <call-information>> specifying (line 0) =<(0, 0, lid0)></call-information>
	2. Verify that the IUT sends a {FACILITY} to TS_1 message with IE < <events< td=""></events<>
	NOTIFICATION= <missed 1="" arrived,="" call="" call,="" missed="" new="" no="">(=<01H,82H,81H>) <</missed>
	List change indication, Missed calls list, do not care value>(=<03H,81H,xxH>) >> and
	IE< <call-information>> specifying (line 0) =<(0, 0, lid0)></call-information>

7.4 TC_FT_NG1.N.4 Voice message waiting notification tests cases

Test subgroup objectives: to check the IUT's ability to handle voice message waiting notification.

TC_FT_NG1.N.4_BV_201	Voice message waiting notification, activation
Reference:	TS 102 527-3 [14], Clause 7.4.1.2, Table 14
Initial condition:	Support of voice mailbox service
	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2),
	external call in F-10 (TS_2+IUT)
Stimulus:	Leave one voice message in the mailbox of line 0 from Phone A
Pass criteria:	Verify that the IUT sends a {FACILITY} message, with IE < <events notification="</td"></events>
	<pre><message 1="" voice,="" waiting,="">(=<00H,81H,81H>) >> and IE<<call-information>></call-information></message></pre>
	specifying (line 0) =<(0, 0, lid0)>, to TS_1 and TS_2

TC_FT_NG1.N.4_BV_202	Voice message waiting notification, deactivation
Reference:	TS 102 527-3 [14], Clause 7.4.1.2, Table 14
Initial condition:	Support of voice mailbox service
	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2),
	external call in F-10 (TS_2+IUT)
	Voice message waiting notified on line 0 (Run TC_FT_NG1.N.4_BV_201)
Stimulus:	Consult the voice mailbox
Pass criteria:	Verify that the IUT sends a {FACILITY} message, with IE < <events notification="</td"></events>
	<pre><message 0="" voice,="" waiting,="">(=<00H,81H,80H>) >> and IE<<call-information>></call-information></message></pre>
	specifying (line 0) = $<$ (0, 0, lid0) $>$, to TS_1 and TS_2
Comments:	The most convenient way to perform the stimulus seems to use a handset provided by the
	manufacturer

7.5 TC_FT_NG1.N.5 Date and time synchronization tests cases

Test subgroup objectives: to check the IUT's behaviours regarding date and time synchronization.

TC_FT_NG1.N.5_BV_101	FT initiated Date and Time synchronization
Reference:	TS 102 527-3 [14], Clauses 7.4.2.1 and 7.4.2, Table 16
Initial condition:	F-00, "Clock master" field equal to "FP"
Stimulus:	Provide date and time to the IUT
Pass criteria:	Verify that the IUT sends to TS_1 a {FACILITY} message with corresponding date and time in IE < <time-date (last="" 00h,="" 2="" <11b,="" =="" day,="" digits="" hour,="" minute,="" month,="" of="" second,="" the="" time="" year,="" zone)="">>> coded in BCD format with the nibble carrying the most significant digit transmitted in bits 8-5 of each octet</time-date>
Comments:	Several ways may exist to provide date and time to the IUT: NTP-request, incoming call, web configuration,

TC_FT_NG1.N.5_BV_102	PT initiated Date and Time synchronization
Reference:	TS 102 527-3 [14], Clauses 7.4.2.2 and 7.4.2, Table 16
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2), "Clock master" field equal to "PP", F-00
Stimulus:	Send a {FACILITY} message for date and time synchronization with IE < <time-date (35h,="" 00h)="" 07h,="" 12h,="" 13h,="" 18h,="" 22h,="" <time="" =="" and="" current="" date,="" the="" time=""> >> from TS_1 to IUT</time-date>
Pass criteria:	Verify that the IUT sends to TS_2 a {FACILITY} message with IE < <time-date (35h,="" 00h)="" 07h,="" 13h,="" 18h,="" 22h,="" <time="" =="" and="" care="" current="" date,="" do="" not="" the="" time="" value,=""> >></time-date>
Comments:	Some IUT may not allow to configure the seconds. As a result, octet 6 seconds is not tested

7.6 TC_FT_NG1.N.6 Parallel calls tests cases

Test subgroup objectives: to check the IUT's behaviours regarding parallel calls common requirements with the following consideration:

• As NG1.N.6_2 "Control messages" and NG1.N.6_3 "Sending keypad information" procedures are tested implicitly when testing NG1.N.7 "Common parallel call" procedures (external or internal), there is no test case defined for these two procedures.

TC_FT_NG1.N.6_BV_401	Codec change for parallel calls from G.722 to G.726
Reference:	TS 102 527-3 [14], Clause 7.4.3.3
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is GAP PP2),
	G.722 external call in F-10 (TS_1+IUT) initiated by Phone A on line 0 (call id a), TS_1
	selected G.722 when negotiating codec
Stimulus:	1. Send a {CC-INFO} message with IE << MULTI-KEYPAD >> set to 17H digit from TS_1
	2 if (X=2 AND Y=2): Send a {CC-INFO} message with IE < <multi-keypad>> set to</multi-keypad>
	terminal Id of PP2 and IE < <call-information>> specifying (call id b) =<(1, 0,</call-information>
	value b)> from TS_1.
	 - if (X=3 AND not already sent): Send a {CC-ALERTING} message from TS_2,
	followed by a {CC-CONNECT} message from TS_2.
	 - if (Y=3 AND not already sent): Send a {CC-SERVICE-ACCEPT} message from
	TS_1, followed by an {IWU-INFO} message with an IE < <codec-list>> set to G.726</codec-list>
	from TS_1;
	- if (X=4): Wait until Y=4;
	- if (Y=4): Wait until X=4;
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
	< <call-information>> specifying (call id a, CS call hold) =<(1, 0, value a), (2, 1,</call-information>
	9)> followed by a {CC-INFO} message with IE < <call-information>> specifying</call-information>
	(call id b, CS call setup ack) =<(1, 0, value b), (2, 1, 2)>
	Set X = 2 and Y=2;
	2. Verify that either (only one option):
	- X=2 AND IUT sends to TS_2 a {CC-SETUP} message with IE < <basic-service>></basic-service>
	'Normal call setup'
	In that case, set X=3
	- Y=2 AND IUT sends to TS_1 a {CC-SERVICE-CHANGE} message with an IE
	< <codec-list>> set to G.726</codec-list>
	In that case, set Y=3 - X=3 AND IUT sends to TS_2 a {CC-CONNECT-ACK} message
	AND IUT sends to TS_1 a {CC-INFO} message with IE
	<call-information>> specifying (call id b, CS call connect) =<(1, 0,</call-information>
	value b), (2, 1, 5)>
	In that case, set X = 4
	- Y=3 AND IUT sends to TS_1 a {IWU-INFO} message with an IE < <codec-list>></codec-list>
	set to G.726
	In that case, set Y = 4
	- X=4 AND Y=4 AND There is end-to-end U-plane connection between TS_1 and
	TS 2
	Repeat stimulus 2 unless X=4 AND Y=4
Comments:	- After pass criteria 1, the CC-SERVICE-CHANGE / ACCEPT may be performed at
	any time by the IUT
	- X and Y are internal state variables of the tester indicating the step respectively
	reached by the two independent tasks 'second call establishment', and 'service
	change'
	- stimulus 2 and pass criterion 2 are repeated until X=4 and Y=4 (cf. end of pass
	criterion 2)
	- in pass criterion 2, only one received message is handled for one use of pass
	criterion 2: if another message is waiting to be handled, it will be handled after next
	use of stimulus 2

TC_FT_NG1.N.6_BV_402	Codec change for parallel calls from G.726 to G.722
Reference:	TS 102 527-3 [14], Clause 7.4.3.3
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2),
	G.726 external call in F-10 (TS_1+IUT) initiated by Phone C on line 0 (call id a), TS_1
	selected G.726 when negotiating codec
Stimulus:	1. Send a {CC-INFO} message with IE << MULTI-KEYPAD >> set to 1CH 15H digits and
	IE < <call-information>> specifying (line 0) =<(0, 0, lid0)> from TS_1</call-information>
	2. Send a {CC-INFO} message with IE < <multi-keypad>> set to Phone B number and</multi-keypad>
	IE < <call-information>> specifying (call id b) =<(1, 0, value b)> from TS_1</call-information>
	3. Pick up call on Phone B
	4. Send a {CC-SERVICE-ACCEPT} message from TS_1
	5. Send a {IWU-INFO} message with an IE < <codec-list>> set to G.722 from TS_1</codec-list>
Pass criteria:	Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
	< <call-information>> specifying (call id a, CS call hold) =<(1, 0, value a), (2, 1,</call-information>
	9)> followed by a {CC-INFO} message with IE < <call-information>> specifying</call-information>
	(line 0, line type information, call id b, CS call setup ack) = $<$ (0, 0, lid0), (0, 5, lt0), (1, 0,
	value b), (2, 1, 2)>
	2. Verify that IUT sends to TS_1 a {CC-INFO} message with IE
	< <call-information>> specifying (call id b, CS call alerting) =<(1, 0, value b),</call-information>
	(2, 1, 4)>, or, if it is not the case, that Phone B rings.
	3. Verify that the IUT sends to TS_1 a {CC-SERVICE-CHANGE} message with an IE
	< <codec-list>> set to G.722</codec-list>
	4. Verify that the IUT sends to TS_1 a {IWU-INFO} message with an IE
	< <codec-list>> set to G.722</codec-list>
	5. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE < <call-information>> specifying (call id b, CS call connect) =<(1, 0, value b),</call-information>
	(2, 1, 5)> Verify end-to-end U-plane connection between TS_1 and Phone B
Comments:	- First part of pass criterion 5 (end to end connection with 'CS call connect') and
Comments.	pass criterion 3 (service change) are both awaited as a result of stimulus 3
	(call pick-up), but in any order. In other words, first part of pass criteria 5 'CS call
	connect' may be fulfilled at the beginning of pass criterion 3 or 4
	- The {IWU-INFO} message received from IUT in pass criterion 4 may be sent
	before or after stimulus 5; IUT and TS_1 shall send their respective {IWU-INFO}
	messages regardless of reception of {IWU-INFO} from the other side

TC_FT_NG1.N.6_BV_501	Sending negative acknowledgement - invalid call toggle request
Reference:	TS 102 527-3 [14], Clauses 7.4.3.4 and 7.4.3.5.3
Initial condition:	F-10 (TS_1+IUT) initiated by TS_1 on line 0 (call id a)
Stimulus:	Send a {CC-INFO} message with IE << MULTI-KEYPAD >> set to (1CH, 31H) digits and IE
	< <call-information>> specifying (call id b) =<(1, 0, value b)> from TS_1</call-information>
Pass criteria:	Verify that the IUT sends to TS_1 in the same or different {CC-INFO} messages:
	an IE < <signal>> with the value 09H indicating 'Negative acknowledgement tone'</signal>
	 an IE <<call-information>> specifying (call id b, CS call idle, control code failed) =< (1, 0, value b), (2, 1, 0), (2, 2, 3)></call-information>
	 when sent in different messages, call status indication shall always be sent in the first used {CC-INFO} message, and call identifier shall be sent within all messages

TC_FT_NG1.N.6_BV_601	Busy system notification
Reference:	TS 102 527-3 [14], Clauses 7.4.8.3 and 7.4.3.5.1
Initial condition:	"Multiple calls mode" set to 30H ("single call mode") and "Intrusion call" set to 30H ("not
	allowed") on line 0
	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2),
	External call in F-10 (TS_1+IUT) initiated by TS_1 on line 0 (call id a) with Phone A,
	one parallel external call on hold on line 0 (call id b) with Phone B
Stimulus:	Send a {CC-INFO} message with IE << MULTI-KEYPAD >> set to 1CH 15H digits from TS_1
Pass criteria:	Verify that the IUT sends to TS_1 in the same or different {CC-INFO} messages:
	 If declared (see Annex A, Table A.26), an IE <<signal>> with the value 04H</signal>
	indicating 'Busy tone on' else verify on TS_1 that the busy tone generated by network or PABX can be heard
	an IE < <call-information>> specifying (call id c, CS call disconnecting,</call-information>
	system busy) =< (1, 0, value c), (2, 1, 6), (2, 2, 0)>
	when sent in different messages, call status indication shall always be sent in the
	first used (CC-INFO) message, and call identifier shall be sent within all messages
	And after some time-out, verify that the IUT sends to TS_1 in the same or different
	{CC-INFO} messages:
	 an IE <<call-information>> specifying (call id c, CS idle) =< (1, 0, value c),</call-information>
	(2, 1, 0) >
	an IE < <signal>> with the value 3FH indicating 'Tones off' when declared (see</signal>
	Annex A, Table A.26)
Comments:	This test case is only used if FT_IXIT_15 is not supported (in other words if FP supports only up to 2 parallel call on a PP-FP pair)

7.7 TC_FT_NG1.N.7 Common parallel call procedures tests cases

Test subgroup objectives: to check the IUT's behaviours regarding Common parallel call procedures (external or internal).

- When NG1.N.22 "Handling of lines where second calls are signalled in-band" feature is supported on a line, the manufacturer shall declare if the following procedures are supported within this line:
 - Call release and call release rejection.
 - Call waiting rejection (from PP to FP).
 - Putting a call on hold (external).

TC_FT_NG1.N.7_BV_101	Outgoing parallel call initiation (external), FP managed line selection
Reference:	TS 102 527-3 [14], Clause 7.4.3.5.1 Figure 5
Initial condition:	External call in F-10 (TS_1+IUT) initiated by TS_1 on line 0 (call id a) with Phone A
Stimulus:	1. Send a {CC-INFO} message with IE << MULTI-KEYPAD >> set to 1CH 15H digits from
	TS_1
	2. Send a {CC-INFO} message with IE < <multi-keypad>> set to Phone B number and</multi-keypad>
	IE < <call-information>> specifying (line None, call id b) =<(0, 0, 127), (1, 0,</call-information>
	value b)> from TS_1
	3. Call pick up on Phone B
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
	< <call-information>> specifying (call id a, CS call hold) =<(1, 0, value a), (2, 1,</call-information>
	9)> followed by a {CC-INFO} message with IE < <call-information>> specifying</call-information>
	(call id b, CS call setup ack) =<(1, 0, value b), (2, 1, 2)>
	2. Verify that the IUT sends a {CC-INFO} message with IE < <call-information>> specifying (line <i>u</i>, line type information <i>u</i>, call id b) =<(0, 0, lid<i>u</i>), (0, 5, lt<i>u</i>), (1, 0, value</call-information>
	b)>
	Verify that IUT sends to TS_1 a {CC-INFO} message with IE
	< <call-information>> specifying (call id b, CS call alerting) =<(1, 0, value b),</call-information>
	(2, 1, 4)>, or, if it is not the case, that Phone B rings.
	3. Verify that the IUT sends to TS_1 a {INFO} message with IE
	< <call-information>> specifying (call id b, CS call connect) =<(1, 0, value b),</call-information>
	(2, 1, 5)>
	Verify end-to-end U-plane connection between TS_1 and Phone B
Comments:	- Any line can be selected by the IUT
	- When initiating the outgoing parallel call, tones can be generated in narrow band. Hence,
	the IUT may first negotiate G.726 codec and then switch to G.722 codec instead of
	selecting directly G.722

TO ET NOT NO PV 402	Outrains parallal cell initiation (internal)
TC_FT_NG1.N.7_BV_102	
Reference:	TS 102 527-3 [14], Clause 7.4.3.5.1
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2),
	External call in F-10 (TS_1+IUT) initiated by TS_1 on line 0 (call id a) with Phone A
Stimulus:	1. Send a {CC-INFO} message with IE << MULTI-KEYPAD >> set to 17H digit from TS_1 2. Send a {CC-INFO} message with IE < <multi-keypad>> set to terminal Id of PP2</multi-keypad>
	and IE < <call-information>> specifying (call id b) =<(1, 0, value b)> from TS_1</call-information>
	3. Send a {CC-ALERTING} message from TS_2
	Send a {CC-CONNECT} message from TS_2
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
	< <cáll-information>> specifying (call id a, CS call hold) =<(1, 0, value a), (2, 1,</cáll-information>
	9)> followed by a {CC-INFO} message with IE < <call-information>> specifying</call-information>
	(call id b, CS call setup ack) =<(1, 0, value b), (2, 1, 2)>
	2. Verify that the IUT sends to TS_2 a {CC-SETUP} message with IE
	<= Verify that the 101 series to 10_2 a {00-0E101 } message with 1E < <basic-service>> 'Internal call setup' and IE <<call-information>></call-information></basic-service>
	specifying (call id b, CS call setup) =<(1, 0, value b), (2, 1, 1)>
	3. Verify that the IUT sends to TS_2 a {CC-CONNECT-ACK} message, followed by a
	{CC-INFO} message with IE < <call-information>> specifying (call id b, CS call connect) =<(1, 0, value b), (2, 1, 5)></call-information>
	Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
	< <call-information>> specifying (call id b, CS call connect) =<(1, 0, value a),</call-information>
	(2, 1, 5)>
	Verify end-to-end U-plane connection between TS_1 and TS_2

TC_FT_NG1.N.7_BV_103	Outgoing parallel call initiation (external), line selection using < <call-information>> IE</call-information>
	in {CC-INFO}
Reference:	TS 102 527-3 [14], Clause 7.4.3.5.1, Figure 4
Initial condition:	External call in F-10 (TS_1+IUT) initiated by TS_1 on line 0 (call id a) with Phone A
Stimulus:	1. Send a {CC-INFO} message with IE << MULTI-KEYPAD >> set to 1CH 15H digits
	2. Send a (CC-INFO) message with IE < <multi-keypad>> set to Phone B number and</multi-keypad>
	IE < <call-information>> specifying (line 0, call id b) =<(0, 0, lid0), (1, 0, value b)></call-information>
	3. Call pick up on Phone B
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
	< <call-information>> specifying (call id a, CS call hold) =<(1, 0, value a), (2, 1,</call-information>
	9)> followed by a {CC-INFO} message with IE < <call-information>> specifying</call-information>
	(call id b, CS call setup ack) =<(1, 0, value b), (2, 1, 2)>
	2. Verify that the IUT sends a {CC-INFO} message with IE < <call-information>></call-information>
	specifying (line 0, line type information, call id b) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value
	b)>
	Verify that IUT sends to TS_1 a {CC-INFO} message with IE
	< <call-information>> specifying (call id b, CS call alerting) =<(1, 0, value b),</call-information>
	(2, 1, 4)>, or, if it is not the case, that Phone B rings.
	3. Verify that the IUT sends to TS_1 a {INFO} message with IE
	< <call-information>> specifying (call id b, CS call connect) =<(1, 0, value b),</call-information>
	(2, 1, 5)>
	Verify end-to-end U-plane connection between TS_1 and Phone B

TC_FT_NG1.N.7_BV_201	Call waiting indication (external) - CLIP on call waiting indication - End of call waiting indication
Reference: Initial condition: Stimulus:	TS 102 527-3 [14], Clause 7.4.3.5.2 External call in F-10 (TS_1+IUT) initiated by TS_1 on line 0 (call id a) with Phone A 1. Perform an incoming external call towards IUT from Phone B on line 0 2. Hang up on Phone B
Pass criteria:	 Verify that the IUT sends to TS_1 in the same or different {CC-INFO} messages: an IE <<signal>> with the value 07H indicating 'call waiting tone on' when declared (see Annex A, Table A.26)</signal> an IE <<calling number="" party="">> with <calling address="Phone" b="" number="" party=""></calling></calling> an IE <<call-information>> specifying (line 0, line type information, call id b, CS call setup) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value b), (2, 1, 1)></call-information> when sent in different messages, call status indication shall always be sent in the first used {CC-INFO} message, and call identifier shall be sent within all messages Verify that the IUT sends to TS_1 a {CC-INFO} message with IE <<call-information>> specifying (call id b, CS idle) =<(1, 0, value b), (2, 1, 0)></call-information>
Comments:	- If the 'Second call type' bit of the 'Line type information' received in step 1 is 'Second calls are handled with in-band signalling', the 'CS idle' in pass criteria 2 may be sent upon timeout by the FP. For such lines, the tester should not abort the test case before CS idle is received - As this could take up to several minutes after Phone B hangs up (step 2) in some implementations, the test equipment shall display appropriate display to request the user to wait

TC_FT_NG1.N.7_BV_202	Call waiting indication (internal) - CLIP on call waiting indication - End of call waiting
	indication
Reference:	TS 102 527-3 [14], Clause 7.4.3.5.2
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2),
	External call in F-10 (TS_1+IUT) initiated by TS_1 on line 0 (call id a) with Phone A
Stimulus:	1. Send a {CC-SETUP} message with IE < <basic-service>> 'Internal call setup' from TS 2</basic-service>
Dana aritaria.	 Send a {CC-INFO} message with IE <<multi-keypad>> set to terminal Id of PP1 and IE <<call-information>> specifying (call id b) =<(1, 0, value b)> from TS_2</call-information></multi-keypad> Send a {CC-RELEASE} message from TS_2
Pass criteria:	 Verify that the IUT sends to TS_2: (for 'non-early {CC-CONNECT}' implementation) a {CC-SETUP-ACK} message with IE <<call-information>> specifying (call id b, CS call setup ack) =<(1, 0, value b), (2, 1, 2)>,</call-information>
	 (for 'early {CC-CONNECT}' implementation) a {CC-CONNECT} message, with IE <<call-information>> specifying (call id b) =<(1, 0, value b)> followed by a {CC-INFO} message with IE <<call-information>> specifying (call id b, CS call setup ack) =<(1, 0, value b), (2, 1, 2)></call-information></call-information>
	 Verify that the IUT sends to TS_1 in the same or different {CC-INFO} messages: an IE <<signal>> with the value 07H indicating 'call waiting tone on'</signal>
	 an IE <<calling number="<Number" number,<br="" party="" specific="" type="Network">Numbering plan id = Private plan, Presentation indicator=do not care value, Screening indicator= do not care value, calling party address= IA5 coding of terminal identity number in decimal of PP2> >></calling>
	 an IE <<call-information>> specifying (call id b, CS call setup) =< (1, 0, value b), (2, 1, 1)></call-information>
	 when sent in different messages, call status indication shall always be sent in the first used {CC-INFO} message, and call identifier shall be sent within all messages Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
	< <call-information>> specifying (call id b, CS idle) =<(1, 0, value b), (2, 1, 0)></call-information>
Comments:	- In pass criteria 1, early CC-CONNECT and non-early CC-CONNECT cases are covered for the internal call. Test equipment shall allow both implementations. However it is not the
	main purpose of the test case to check behaviour of IUT toward TS_2

TC_FT_NG1.N.7_BV_301	Call toggle (external)
Reference:	TS 102 527-3 [14], Clause 7.4.3.5.3
Initial condition:	External call in F-10 (TS_1+IUT) initiated by TS_1 on line 0 (call id a) with Phone A,
	one parallel external call on hold on line 0 (call id b) with Phone B
Stimulus:	1. Send a {CC-INFO} message with IE << MULTI-KEYPAD >> set to (1CH, 31H) digits and with IE < <call-information>> specifying (call id b) =<(1, 0, value b)> from TS_1</call-information>
	2. Send a {CC-INFO} message with IE << MULTI-KEYPAD >> set to (1CH, 31H) digits and with IE < <call-information>> specifying (call id a) =<(1, 0, value a)> from TS_1</call-information>
Pass criteria:	 Verify that the IUT sends to TS_1 a {CC-INFO} message with IE <<call-information>> specifying (call id a, CS call hold) =<(1, 0, value a), (2, 1, 9)> followed by a {CC-INFO} message with IE <<call-information>> specifying (call id b, CS call connect) =<(1, 0, value b), (2, 1, 5)> Verify end-to-end U-plane connection between TS_1 and Phone B</call-information></call-information> Verify that the IUT sends to TS_1 a {CC-INFO} message with IE <<call-information>> specifying (call id b, CS call hold) =<(1, 0, value b), (2, 1, 9)> followed by a {CC-INFO} message with IE <<call-information>> specifying</call-information></call-information>
	(call id a, CS call connect) =<(1, 0, value a), (2, 1, 5)> Verify end-to-end U-plane connection between TS_1 and Phone A

TC_FT_NG1.N.7_BV_302	Call toggle (internal)
Reference:	TS 102 527-3 [14], Clause 7.4.3.5.3
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2),
	One parallel internal call initiated by TS_1 (call id b) with TS_2, put on hold
	One external call in F-10 (TS_1+IUT) initiated by TS_1 on line 0 (call id a) with Phone A
Stimulus:	1. Send a {CC-INFO} message with IE << MULTI-KEYPAD >> set to (1CH, 31H) digits
	and with IE < <call-information>> specifying (call id b) =<(1, 0, value b)> from</call-information>
	TS_1
	2. Send a {CC-INFO} message with IE << MULTI-KEYPAD >> set to (1CH, 31H) digits
	and with IE < <call-information>> specifying (call id a) =<(1, 0, value a)> from</call-information>
	TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
	< <call-information>> specifying (call id a, CS call hold) =<(1, 0, value a), (2, 1,</call-information>
	9)> followed by a {CC-INFO} message with IE < <call-information>> specifying</call-information>
	(call id b, CS call connect) =<(1, 0, value b), (2, 1, 5)>
	Verify end-to-end U-plane connection between TS_1 and TS_2
	2. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
	< <call-information>> specifying (call id b, CS call hold) =<(1, 0, value b), (2, 1, 9)> followed by a {CC-INFO} message with IE <<call-information>> specifying</call-information></call-information>
	(call id a, CS call connect) =<(1, 0, value a), (2, 1, 5)>
	Verify end-to-end U-plane connection between TS_1 and Phone A
Comments:	- In pass criterion 1 (and respectively 2), IUT may additionally send call status 'CS call
Comments.	connect' (respectively 'CS call hold') to TS_2 (target PP on hold). But this shall not be part
	of the pass criteria as not explicitly defined in TS 102 527-3 [14]
	- When initiating the outgoing parallel external call in initial condition, tones can be
	generated in narrow band. Hence, the IUT may first negotiate G.726 codec and then switch
	to G.722 codec instead of selecting directly G.722

TC_FT_NG1.N.7_BV_401	Call release and call release rejection - Resuming a call put on-hold
Reference:	TS 102 527-3 [14], Clause 7.4.3.5.4
Initial condition:	External call in F-10 (TS_1+IUT) initiated by TS_1 on line 0 (call id a) with Phone A,
	one parallel external call on hold on line 0 (call id b) with Phone B
Stimulus:	 Send a {CC-INFO} message with IE << MULTI-KEYPAD >> set to (1CH, 33H) digits and with IE <<call-information>> specifying (call id a) =<(1, 0, value a)> from TS_1</call-information>
	 Send a {CC-INFO} message with IE << MULTI-KEYPAD >> set to (1CH, 42H) digits and with IE <<call-information>> specifying (call id b) =<(1, 0, value b)> from TS_1</call-information>
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE < <call-information>> specifying (call id a, CS idle) =<(1, 0, value a), (2, 1, 0)> Verify on Phone A that the call was released (i.e. Idle mode or Off-hook warning tone) Verify that end-to-end U-plane connection is not established between TS_1 and Phone B.</call-information>
	2. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE < <call-information>> specifying (call id b, CS call connect) =<(1, 0, value b), (2, 1, 5)> Verify end-to-end U-plane connection between TS_1 and Phone B</call-information>
Comments:	- In pass criterion 1, the IUT is not supposed to re-connect automatically the first call (and the audio thereof) without an explicit request from the tester

TC_FT_NG1.N.7_BV_601	Call waiting acceptance (from PP to FP) (external)
Reference:	TS 102 527-3 [14], Clause 7.4.3.5.6
Initial condition:	External call in F-10 (TS_1+IUT) initiated by TS_1 on line 0 (call id a) with Phone A
Stimulus:	1. Perform an incoming external call towards IUT from Phone B on line 0
	2. Send a {CC-INFO} message from TS_1 with IE << MULTI-KEYPAD >> set to (1CH,
	35H) digits and with IE < <call-information>> specifying (call id b) =<(1, 0, value b)></call-information>
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-INFO} message with an IE
	< <call-information>> specifying (line 0, line type information, call id b, CS call setup) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value b), (2, 1, 1)></call-information>
	2. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
	< <call-information>> specifying (call id a, CS call hold) =<(1, 0, value a), (2, 1,</call-information>
	9)> followed by a {CC-INFO} message with IE < <call-information>> specifying</call-information>
	(call id b, CS call connect) =<(1, 0, value b), (2, 1, 5)>
	Verify end-to-end U-plane connection between TS_1 and Phone B

TC_FT_NG1.N.7_BV_602	Call waiting acceptance (from PP to FP) (internal)
Reference:	TS 102 527-3 [14], Clause 7.4.3.5.6
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2),
	External call in F-10 (TS_1+IUT) initiated by TS_1 on line 0 (call id a) with Phone A
Stimulus:	Send a {CC-SETUP} message with IE < <basic-service>> 'Internal call setup' from TS 2</basic-service>
	 Send a {CC-INFO} message with IE <<multi-keypad>> set to terminal Id of PP1 and IE <<call-information>> specifying (call id b) =<(1, 0, value b)> from TS_2</call-information></multi-keypad> Send a {CC-INFO} message with IE << MULTI-KEYPAD >> set to (1CH, 35H) digits and with IE <<call-information>> specifying (call id b) =<(1, 0, value b)> from TS_1</call-information>
Pass criteria:	1. Verify that the IUT sends to TS_2:
add direction.	- (for 'non-early {CC-CONNECT}' implementation) a {CC-SETUP-ACK} message with IE < <call-information>> specifying (call id b, CS call setup ack) =<(1, 0, value b), (2, 1, 2)>,</call-information>
	 (for 'early {CC-CONNECT}' implementation) a {CC-CONNECT} message, with IE <<call-information>> specifying (call id b) =<(1, 0, value b)> followed by a {CC-INFO} message with IE <<call-information>> specifying (call id b, CS call setup ack) =<(1, 0, value b), (2, 1, 2)></call-information></call-information>
	2. Verify that the IUT sends to TS_1 a {CC-INFO} message with an IE < <call-information>> specifying (call id b, CS call setup) =<(1, 0, value b),</call-information>
	 (2, 1, 1)> Verify that the IUT sends to TS_1 a {CC-INFO} message with IE <call-information>> specifying (call id a, CS call hold) =<(1, 0, value a), (2, 1, 9)> followed by a {CC-INFO} message with IE <<call-information>> specifying (call id b, CS call connect) =<(1, 0, value b), (2, 1, 5)></call-information></call-information> Verify that the IUT sends to TS_2:
	 (for 'non-early {CC-CONNECT}' implementation) a {CC-CONNECT} message with IE <<call-information>> specifying (call id b, CS call connect) =<(1, 0,</call-information>
	value b), (2, 1, 5)> - (for 'early {CC-CONNECT}' implementation) a {CC-INFO} message with IE < <call-information>> specifying (call id b, CS call connect) =<(1, 0, value b), (2, 1, 5)></call-information>
	Verify end-to-end U-plane connection between TS_1 and TS_2
Comments:	In pass criterion 3, the IUT may send to TS_2 additional call statuses (CS call proc, CS call
	alerting) (in {CC-CALL-PROC} and {CC-ALERTING} respectively for a 'non-early
	{CC-CONNECT}' implementation; in {CC-INFO} messages for an 'early {CC-CONNECT}'
	implementation)

TC_FT_NG1.N.7_BV_701	Active call release with replacement (from PP to FP) - call waiting (external)
Reference:	TS 102 527-3 [14], Clause 7.4.3.5.12
Initial condition:	External call in F-10 (TS_1+IUT) initiated by TS_1 on line 0 (call id a) with Phone A
Stimulus:	1. Perform an incoming external call towards IUT from Phone B on line 0
	2. Send a {CC-INFO} message with IE << MULTI-KEYPAD >> set to (1CH, 38H) digits
	and with IE < <call-information>> specifying (call id b) =<(1, 0, value b)> from</call-information>
	TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-INFO} message with an IE
	< <call-information>> specifying (line 0, line type information, call id b, CS call</call-information>
	setup) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value b), (2, 1, 1)>
	2. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
	< <call-information>> specifying (call id a, CS idle) =<(1, 0, value a), (2, 1, 0)></call-information>
	followed by a {CC-INFO} message with IE < <call-information>> specifying (call</call-information>
	id b, CS call connect) =<(1, 0, value b), (2, 1, 5)>
	Verify end-to-end U-plane connection between TS_1 and Phone B
	Verify on Phone A that the call was released (i.e. Idle mode or Off-hook warning tone).

TC_FT_NG1.N.7_BV_702	Active call release with replacement (from PP to FP) - call on-hold (external)
Reference:	TS 102 527-3 [14], Clause 7.4.3.5.12
Initial condition:	External call in F-10 (TS_1+IUT) initiated by TS_1 on line 0 (call id a) with Phone A,
	one parallel external call on hold on line 0 (call id b) with Phone B
Stimulus:	Send a {CC-INFO} message with IE << MULTI-KEYPAD >> set to (1CH, 38H) digits and
	with IE < <call-information>> specifying (call id b) =<(1, 0, value b)> from TS_1</call-information>
Pass criteria:	Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
	< <call-information>> specifying (call id a, CS idle) =<(1, 0, value a), (2, 1, 0)></call-information>
	followed by a {CC-INFO} message with IE < <call-information>> specifying (call id b,</call-information>
	CS call connect) =<(1, 0, value b), (2, 1, 5)>
	Verify end-to-end U-plane connection between TS_1 and Phone B

TC_FT_NG1.N.7_BV_801	Call waiting rejection (from PP to FP) (external)
Reference:	TS 102 527-3 [14], Clause 7.4.3.5.7
Initial condition:	External call in F-10 (TS_1+IUT) initiated by TS_1 on line 0 (call id a) with Phone A
Stimulus:	1. Perform an incoming external call towards IUT from Phone B on line 0
	2. Send a {CC-INFO} message with IE << MULTI-KEYPAD >> set to (1CH, 36H) digits
	and with IE < <call-information>> specifying (call id b) =<(1, 0, value b)> from</call-information>
	TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-INFO} message with an IE
	< <call-information>> specifying (line 0, line type information, call id b, CS call</call-information>
	setup) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value b), (2, 1, 1)>
	2. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
	< <call-information>> specifying (call id b, CS idle) =<(1, 0, value b), (2, 1, 0)></call-information>
	Verify end-to-end U-plane connection between TS_1 and Phone A

TC_FT_NG1.N.7_BV_901	Putting a call on hold (external) - Resuming a call put on-hold
Reference:	TS 102 527-3 [14], Clause 7.4.3.5.8
Initial condition:	External call in F-10 (TS_1+IUT) initiated by TS_1 on line 0 (call id a) with Phone A
Stimulus:	1. Send a {CC-INFO} message with IE << MULTI-KEYPAD >> set to (1CH, 41H) digits and with IE < <call-information>> specifying (call id a) =<(1, 0, value a)>from TS_1</call-information>
	 Send a {CC-INFO} message with IE << MULTI-KEYPAD >> set to (1CH, 42H) digits and with IE <<call-information>> specifying (call id a) =<(1, 0, value a)>from TS_1</call-information>
Pass criteria:	Verify that the IUT sends to TS_1 a {CC-INFO} message with IE < <call-information>> specifying (call id a, CS call hold) =<(1, 0, value a), (2, 1, 9)> Verify that end-to-end U-plane connection is not established between TS_1 and Phone A</call-information>
	2. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE < <call-information>> specifying (call id a, CS call connect) =<(1, 0, value a), (2, 1, 5)> Verify end-to-end U-plane connection between TS_1 and Phone A</call-information>
Comments:	In pass criterion 1, it is to the responsibility of the IUT to play mute patterns

TC_FT_NG1.N.7_BV_902	Putting a call on hold (internal) - Resuming a call put on-hold
Reference:	TS 102 527-3 [14], Clause 7.4.3.5.8
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2),
	Internal call in F-10 (TS_1+TS_2) with call id a
Stimulus:	1. Send a {CC-INFO} message with IE << MULTI-KEYPAD >> set to (1CH, 41H) digits and with IE < <call-information>> specifying (call id a) =<(1, 0, value a)> from TS_1</call-information>
	 Send a {CC-INFO} message with IE << MULTI-KEYPAD >> set to (1CH, 42H) digits and with IE <<call-information>> specifying (call id a) =<(1, 0, value a)>from TS_1</call-information>
Pass criteria:	 Verify that the IUT sends to TS_1 a {CC-INFO} message with IE > specifying (call id a, CS call hold) =<(1, 0, value a), (2, 1, 9)> Verify that end-to-end U-plane connection is not established between TS_1 and TS_2 Verify that the IUT sends to TS_1 a {CC-INFO} message with IE > specifying (call id a, CS call connect) =<(1, 0, value a), (2, 1, 5)> Verify end-to-end U-plane connection between TS_1 and TS_2
Comments:	- In pass criterion 1, it is the responsibility of the IUT to play mute patterns; - In pass criterion 1 (and respectively 2), IUT may additionally send call status 'CS call hold' (respectively 'CS call connect') to TS_2 (target PP put on hold). But this shall not be part of the pass criteria as not explicitly defined in TS 102 527-3 [14]

TC_FT_NG1.N.7_BV_1201	CNIP on call waiting indication (external)
Reference: Initial condition: Stimulus: Pass criteria:	TS 102 527-3 [14], Clause 7.4.3.5.11 External call in F-10 (TS_1+IUT) initiated by TS_1 on line 0 (call id a) with Phone A Perform an incoming external call on line 0 towards IUT from Phone B (CNIP B) Verify that the IUT sends to TS_1 in the same or different {CC-INFO} messages: • an IE < <calling alphabet="DECT" b="" calling="" care="" indicator="do" name="name" not="" of="" or="" party="" phone="" presentation="" screening="" standard="" used="" utf-8,="" value,=""> >> • an IE <<call-information>> specifying (line 0, line type information, call id b, CS call setup) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value b), (2, 1, 1)></call-information></calling>
Comments:	when sent in different messages, call status indication shall always be sent in the first used {CC-INFO} message, and call identifier shall be sent within all messages - UTF-8 CNIP can be received if the FP is designed for a network capable of sending UTF-8 CNIP

TC_FT_NG1.N.7_BV_1202	CNIP on call waiting indication (internal)
Reference:	TS 102 527-3 [14], Clause 7.4.3.5.11
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2),
	external call in F-10 (TS_1+IUT) initiated by TS_1 on line 0 (call id a) with Phone A
Stimulus:	 Send a {CC-SETUP} message with IE <<basic-service>> 'Internal call setup' from TS_2</basic-service>
	2. Send a {CC-INFO} message with IE < <multi-keypad>> set to</multi-keypad>
	HANDSET_TS_1_NUMBER and IE < <call-information>> specifying (call id b) =<(1, 0, value b)> from TS_2</call-information>
Pass criteria:	1. Verify that the IUT sends to TS_2:
	 (for 'non-early {CC-CONNECT}' implementation) a {CC-SETUP-ACK} message with IE <<call-information>> specifying (call id b, CS call setup ack) =<(1, 0, value b), (2, 1, 2)>,</call-information>
	• (for 'early {CC-CONNECT}' implementation) a {CC-CONNECT} message, with IE < <call-information>> specifying (call id b) =<(1, 0, value b)> followed by a {CC-INFO} message with IE <<call-information>> specifying (call id b, CS call setup ack) =<(1, 0, value b), (2, 1, 2)></call-information></call-information>
	 Verify that the IUT sends to TS_1 in the same or different {CC-INFO} messages: an IE <<calling allowed,="" and="" dect="" handset_ts_2_name="" name="<" or="" party="" passed,="" presentation="" standard="" user-provided,="" utf-8,="" verified=""> >></calling> an IE <<call-information>> specifying (call id b, CS call setup) =< (1, 0, value b), (2, 1, 1)></call-information>
	 when sent in different messages, call status indication shall always be sent in the first used {CC-INFO} message, and call identifier shall be sent within all messages
Comments:	- In pass criterion 1, early CC-CONNECT and non-early CC-CONNECT cases are covered
	for the internal call. Test equipment shall allow both implementations. However it is not the main purpose of the test case to check behaviour of IUT toward TS_2

7.8 TC_FT_NG1.N.8 Call transfer tests cases

Test subgroup objectives: to check the IUT's behaviours regarding call transfer.

Test equipment implementation requirements in case the call transfer fails

Test equipment shall allow implementations, where after final pass criteria, the IUT represents the original call to the TS_1 (as an incoming CC-SETUP) in case the call transfer was not completed (TS_2 not responding the call).

For example in TC_FT_NG1.N.8_BV_401, the call transfer is not completed correctly (not accepted on TS_2) so TS_1 may send an additional CC-RELEASE at the end of the test if the IUT re-presents the original call.

TC_FT_NG1.N.8_BV_101	Call transfer (external) - announced
Reference:	TS 102 527-3 [14], Clause 7.4.3.6.1
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2),
	external call in F-10 (TS_1+IUT) initiated by TS_1 on line 0 (call id a) with Phone A
Stimulus:	 Send a {CC-INFO} message with IE <<multi-keypad>> set to (17H, IA5 coding of terminal identity number in decimal of TS_2) digits from TS_1</multi-keypad>
	1a. Send a {CC-ALERTING} message from TS_2
	2. Send a {CC-CONNECT} message from TS_2
	 Send a {CC-INFO} message with IE << MULTI-KEYPAD >> set to (1CH, 34H) digits and with IE <<call-information>> specifying (call id a) =<(1, 0, value a)> from TS_1</call-information>
	4. Send a {CC-RELEASE-COM} message from TS_1
Pass criteria:	Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
i ass cineria.	< <call-information>> specifying (call id a, CS call hold) =<(1, 0, value a),</call-information>
	(2, 1, 9)>
	Verify that the IUT sends to TS_2 a {CC-SETUP} message with IE
	< <basic-service>> 'Internal call setup' and IE <<call-information>></call-information></basic-service>
	specifying (call id b, CS call setup) =<(1, 0, value b), (2, 1, 1)>
	If the IUT sends to TS_1 a {CC-INFO} message with IE < <call-information>></call-information>
	verify that this IE contains correct call ID and call status (call id b, CS call proc) =<(1, 0,
	value b), (2, 1, 3)>
	1a. Verify that the IUT sends to TS_1 a {CC-INFO} message with an IE < <signal>> with</signal>
	the value 01H indicating 'ring back tone on' and if IE < <call-information>> is</call-information>
	included verify that this IE contains correct call ID and call status (call id b, CS call
	alerting) =<(1, 0, value b), (2, 1, 4)>
	2. Verify that the IUT sends to TS_2 a {CC-CONNECT-ACK} message, followed by a
	{CC-INFO} message with IE < <call-information>> specifying (call id b, CS call connect) =<(1, 0, value b), (2, 1, 5)></call-information>
	Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
	< <call-information>> specifying (call id b, CS call connect) =<(1, 0, value b), (2, 1, 5)></call-information>
	Verify that the IUT sends to TS_1 in the same message containing the call status
	indication or different {CC-INFO} messages an IE < <signal>> with the value 3FH indicating 'Tones Off'</signal>
	5
	Verify end-to-end U-plane connection between TS_1 and TS_2 3. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
	<call-information>> specifying either:</call-information>
	- (3.1) (call id a, CS idle) =<(1, 0, value a), (2, 1, 0)> OR
	- (3.1) (call id a, CS idle) =<(1, 0, value a), (2, 1, 0)> OK - (3.2) (call id b, CS idle) =<(1, 0, value b), (2, 1, 0)>;
	then optionally sends to TS_1 a {CC-INFO} message with IE
	< <call-information>> specifying either:</call-information>
	- (if 3.1) (call id b, CS idle) =<(1, 0, value b), (2, 1, 0)> OR
	- (if 3.2) (call id a, CS idle) =<(1, 0, value a), (2, 1, 0)>;
	and then mandatorily sends to TS_1 a {CC-RELEASE} message
	Verify that the IUT sends to TS_2 a {CC-INFO} message with IE
	< <call-information>> specifying (line 0, line type information, call id b, updated</call-information>
	call id a, CS call connect) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value b), (1, 1, value a),
	(2, 1, 5)>
	4. Verify end-to-end U-plane connection between TS_2 and Phone A

TC_FT_NG1.N.8_BV_201	Call transfer (external) - unannounced
Reference:	TS 102 527-3 [14], Clauses 7.4.3.6 and 7.4.3.6.2
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2),
	external call in F-10 (TS_1+IUT) initiated by TS_1 on line 0 (call id a) with Phone A
Stimulus:	1. Send a {CC-INFO} message with IE < <multi-keypad>> set to (17H, IA5 coding of</multi-keypad>
	terminal identity number in decimal of TS_2) digits from TS_1
	1a. Send a {CC-ALERTING} message from TS_2
	2. Send a {CC-INFO} message with IE << MULTI-KEYPAD >> set to (1CH, 34H) digits
	and with IE < <call-information>> specifying (call id a) =<(1, 0, value a)> from</call-information>
	TS_1
	3. Send a {CC-RELEASE-COM} message from TS_1
	Send a {CC-CONNECT} message from TS_2
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
rass cinteria.	<call-information>> specifying (call id a, CS call hold) =<(1, 0, value a),</call-information>
	(2, 1, 9) >
	Verify that the IUT sends to TS_2 a {CC-SETUP} message with IE
	<= Note that the lot sends to 13_2 a {CC-3E10F} message with 1E << BASIC-SERVICE>> 'Internal call setup' and IE << CALL-INFORMATION>>
	specifying (call id b, CS call setup) =<(1, 0, value b), (2, 1, 1)>
	If the IUT sends to TS_1 a {CC-INFO} message with IE < <call-information>></call-information>
	verify that this IE contains correct call ID and call status (call id b, CS call proc) =<(1, 0,
	value b), (2, 1, 3)>
	1a. Verify that the IUT sends to TS_1 a {CC-INFO} message with an IE < <signal>> with</signal>
	the value 01H indicating 'Ring back tone on' and if IE < <call-information>> is</call-information>
	included verify that this IE contains correct call ID and call status (call id b, CS call
	alerting) =<(1, 0, value b), (2, 1, 4)>
	2. Verify that the IUT sends to TS_1 in the same message containing the call status
	indication or different {CC-INFO} message an IE < <signal>> with the value 3FH</signal>
	indicating 'Tones Off'
	Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
	< <call-information>> specifying either:</call-information>
	- (2.1) (call id a, CS idle) =<(1, 0, value a), (2, 1, 0)> OR
	- (2.2) (call id b, CS idle) =<(1, 0, value b), (2, 1, 0)>;
	then optionally sends to TS_1 a {CC-INFO} message with IE
	< <call-information>> specifying:</call-information>
	- (if 2.1) (call id b, CS idle) =<(1, 0, value b), (2, 1, 0)> OR
	- (if 2.2) (call id a, CS idle) =<(1, 0, value a), (2, 1, 0)>;
	and then mandatorily sends to TS_1 a {CC-RELEASE} message
	Verify that the IUT sends to TS_2 a {CC-INFO} message with IE
	< <call-information>> specifying: (line 0, line type information, call id b, updated</call-information>
	call id a, CS call under transfer) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value b), (1, 1, value a),
	(2, 1, 12)>
	3. Verify that the IUT sends to TS_2 a {CC-CONNECT-ACK} message, followed by a
	{CC-INFO} message with IE < <call-information>> specifying (call id a, CS call</call-information>
	connect) =<(1, 0, value a), (2, 1, 5)>
	Verify end-to-end U-plane connection between TS_2 and Phone A
	1111/2 1111 11 1111 11 1111 1111 1111 1

TC_FT_NG1.N.8_BV_301	Call re-injection to the system (external) - announced
Reference:	TS 102 527-3 [14], Clauses 7.4.3.6, 7.4.3.6.3 and 7.4.15.2.1
Initial condition:	3 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2, Golden Device A is NG PP3),
	external call in F-10 (TS_1+IUT) initiated by TS_1 on line 0 (call id a) with Phone A
Stimulus:	1. Send a {CC-INFO} message with IE < <multi-keypad>> set to (17H, IA5 coding of</multi-keypad>
	internal general call = 2AH) digits from TS_1
	1a. Send a {CC-ALERTING} message from TS_2
	2. Send a {CC-CONNECT} message from TS_2
	3. Send a {CC-INFO} message with IE << MULTI-KEYPAD >> set to (1CH, 34H) digits
	and with IE < <call-information>> specifying (call id a) =<(1, 0, value a)> from</call-information>
	TS_1
	4. Send a {CC-RELEASE-COM} message from TS_1
Pass criteria:	
Pass cinena.	
	< <call-information>> specifying (call id a, CS call hold) =<(1, 0, value a),</call-information>
	(2, 1, 9)>
	Verify that the IUT sends to TS_2 a {CC-SETUP} message with IE
	< <basic-service>> 'Internal call setup' and IE <<call-information>></call-information></basic-service>
	specifying (call id b, CS call setup) =<(1, 0, value b), (2, 1, 1)> and that Golden Device
	A rings
	If the IUT sends to TS_1 a {CC-INFO} message with IE < <call-information>></call-information>
	verify that this IE contains correct call id and call status (call id b, CS call proc) =<(1, 0,
	value b), (2, 1, 3)>
	1a. Verify that the IUT sends to TS_1 a {CC-INFO} message with an IE < <signal>> with</signal>
	the value 01H indicating 'ring back' tone on' and if IE < <call-information>> is</call-information>
	included verify that this IE contains correct call id and call status (call id b, CS call
	alerting) =<(1, 0, value b), (2, 1, 4)>
	2 Verify that the IUT sends to TS_2 a {CC-CONNECT-ACK} message, followed by a
	{CC-INFO} message with IE < <call-information>> specifying (call id b, CS call</call-information>
	connect) =<(1, 0, value b), (2, 1, 5)>
	Verify that the IUT sends to TS_1 a {CC-INFO} message an IE < <signal>> with the</signal>
	value 3FH indicating 'Tones Off'
	Verify that the IUT sends to TS_1 in the same or different {CC-INFO} message, the IE
	< <call-information>> specifying (call id b, CS call connect) =<(1, 0, value b),</call-information>
	(2, 1, 5)>
	Verify that Golden Device A stops ringing
	Verify end-to-end U-plane connection between TS_1 and TS_2
	3. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
	< <call-information>> specifying either:</call-information>
	- (3.1) (call id a, CS idle) =<(1, 0, value a), (2, 1, 0)> OR
	- (3.2) (call id b, CS idle) =<(1, 0, value b), (2, 1, 0)>;
	and then sends optionally to TS_1 a {CC-INFO} message with IE
	< <call-information>> specifying:</call-information>
	- (if 3.1) (call id b, CS idle) =<(1, 0, value b), (2, 1, 0)> OR
	- (if 3.2) (call id a, CS idle) =<(1, 0, value a), (2, 1, 0)>;
	and then mandatorily sends to TS_1 a {CC-RELEASE} message
	Verify that the IUT sends to TS_2 a {CC-INFO} message with IE
	<call-information>> specifying (line 0, line type information, call id b, updated</call-information>
	call id a, CS call connect) = $<(0, 0, \text{lid0}), (0, 5, \text{lt0}), (1, 0, \text{value b}), (1, 1, \text{value a}),$
	(2, 1, 5) >
	4. Verify end-to-end U-plane connection between TS_2 and Phone A
Comments:	In Pass criterion 1a, IE < <signal>> 'ring back' tone on can be also received earlier in pass</signal>
Comments.	criterion 1 after the 'CS call hold' call status indication
	Tentenon i artei the Co can noid can status indication

TC_FT_NG1.N.8_BV_302	Call re-injection to the system (external) - unannounced
Reference:	TS 102 527-3 [14], Clauses 7.4.3.6, 7.4.3.6.3 and 7.4.15.2.1
Initial condition:	3 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2, Golden Device A is NG PP3),
	external call in F-10 (TS_1+IUT) initiated by TS_1 on line 0 (call id a) with Phone A
Stimulus:	1. Send a {CC-INFO} message with IE < <multi-keypad>> set to (17H, IA5 coding of</multi-keypad>
Garriaras.	internal general call = 2AH) digits from TS_1
	1a. Send a {CC-ALERTING} message from TS_2
	2. Send a {CC-INFO} message with IE << MULTI-KEYPAD >> set to (1CH, 34H) digits
	and with IE < <call-information>> specifying (call id a) =<(1, 0, value a)> from</call-information>
	TS 1
	3. Send a {CC-RELEASE-COM} message from TS_1
	Send a {CC-CONNECT} message from TS_2
Pass criteria:	Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
ass chiena.	<call-information>> specifying (call id a, CS call hold) =<(1, 0, value a),</call-information>
	(2, 1, 9)>
	Verify that the IUT sends to TS_2 a {CC-SETUP} message with IE
	< <basic-service>> 'Internal call setup' and IE <<call-information>></call-information></basic-service>
	specifying (call id b, CS call setup) =<(1, 0, value b), (2, 1, 1)> and that Golden Device
	A rings
	If the IUT sends to TS_1 a {CC-INFO} message with IE < <call-information>> s</call-information>
	verify that this IE contains correct call id and call status (call id b, CS call proc) =<(1, 0,
	value b), $(2, 1, 3)$
	1a. Verify that the IUT sends to TS_1 a {CC-INFO} message with an IE < <signal>> with</signal>
	the value 01H indicating 'Ring back tone on' and if IE < <call-information>> is</call-information>
	included verify that this IE contains correct call id and call status (call id b, CS call
	alerting) =<(1, 0, value b), (2, 1, 4)>
	2. Verify that the IUT sends to TS_1 in the same message containing the call status
	indication or different {CC-INFO} message an IE < <signal>> with the value 3FH</signal>
	indication of different (CC-INFO) message and E <<3/3/3000AE>> with the value 3FT1 indicating 'Tones Off'
	Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
	<call-information>> specifying either:</call-information>
	- (2.1) (call id a, CS idle) =<(1, 0, value a), (2, 1, 0)> OR
	- (2.2) (call id b, CS idle) =<(1, 0, value b), (2, 1, 0)>;
	then optionally sends to TS_1 a {CC-INFO} message with IE
	< <call-information>> specifying</call-information>
	- (if 2.1) (call id b, CS idle) =<(1, 0, value b), (2, 1, 0)> OR
	- (if 2.2) (call id a, CS idle) =<(1, 0, value a), (2, 1, 0)>;
	and then mandatorily sends to TS_1 a {CC-RELEASE} message
	Verify that the IUT sends to TS_2 a {CC-INFO} message with IE
	< <call-information>> specifying (line 0, line type information, call id b, updated</call-information>
	call id a, CS call under transfer) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value b), (1, 1, value a),
	(2, 1, 12)>
	3. Verify that the IUT sends to TS_2 a {CC-CONNECT-ACK} message, followed by a
	{CC-INFO} message with IE < <call-information>> specifying (call id a, CS call</call-information>
	connect) =<(1, 0, value a), (2, 1, 5)>
	Verify that Golden Device A stops ringing
	Verify end-to-end U-plane connection between TS_2 and Phone_A

TC_FT_NG1.N.8_BV_401	Remote party CLIP on call transfer
Reference:	TS 102 527-3 [14], Clauses 7.4.3.6.4 and 7.4.3.6.5, Figure 18
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2),
	External call in F-10 (TS_1+IUT) initiated by Phone A on line 0 (call id a) with TS_1
Stimulus:	1. Send a {CC-INFO} message with IE < <multi-keypad>> set to (17H, IA5 coding of</multi-keypad>
	terminal identity number in decimal of TS_2) digits from TS_1
	2. Send a CC-ALERTING message from TS_2
	Send a {CC-INFO} message with IE << MULTI-KEYPAD >> set to (1CH, 34H) digits
	and with IE < <call-information>> specifying (call id a) =<(1, 0, value a)> from</call-information>
	TS_1
Pass criteria:	Verify that the IUT sends to TS_2 a {CC-SETUP} message with IE
	< <basic-service>> 'Internal call setup' and IÉ <<call-information>></call-information></basic-service>
	specifying (call id b, CS call setup) =<(1, 0, value b), (2, 1, 1)>
	Verify that the IUT sends to TS_2 in the {CC-SETUP} or in a {CC-INFO} message an
	IE << CALLING PARTY NUMBER = <network ia5<="" number,="" plan,="" private="" specific="" td=""></network>
	coding of terminal identity number in decimal of PP1 > >> and with IE
	< <call-information>> specifying (call id b) =<(1, 0, value b)></call-information>
	2. Verify that the IUT sends to TS_2 a {CC-INFO} message with IE < <calling party<="" td=""></calling>
	NUMBER = <number a="" condition,<="" in="" initial="" of="" phone="" received="" td="" type=""></number>
	Numbering plan id = numbering plan of phone A received in initial condition,
	Presentation indicator= presentation indicator of phone A received in initial condition,
	Screening indicator= screening indicator of phone A received in initial condition, Calling
	party address= Phone A number > >> and with IE < <call-information>></call-information>
	specifying either (call id b) = <(1,0, value b> or (call id a) =<(1,0, value a)>
Comments:	 In pass criterion 2, the fields of the IE<<calling number="" party="">></calling>
	transmitted to TS_2 shall be the same as the one received during the initial
	condition on TS_1
	 In pass criterion 2, call id b is used if Phone A CLIP is sent together with 'CS
	call under transfer call status' (and call id update from b to a), call id a is used if
	this CLIP is sent in a subsequent {CC-INFO} message
	- Test equipment shall allow implementations, where after pass criteria 2, the
	IUT represents the original call to the TS_1 (as an incoming CC-SETUP). TS_1
	may for example send an additional CC-RELEASE

TC_FT_NG1.N.8_BV_501	Remote party CNIP on call transfer
Reference:	TS 102 527-3 [14], Clause 7.4.3.6.5, Figure 18
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2),
	External call in F-10 (TS_1+IUT) initiated by Phone A on line 0 (call id a) with TS_1
Stimulus:	1. Send a {CC-INFO} message with IE < <multi-keypad>> set to (17H,</multi-keypad>
	HANDSET_TS_2_NUMBER) digits from TS_1
	2. Send a CC-ALERTING message from TS_2
	Send a {CC-INFO} message with IE << MULTI-KEYPAD >> set to (1CH, 34H) digits
	and with IE < <call-information>> specifying (call id a) =<(1, 0, value a)> from</call-information>
	TS_1
Pass criteria:	1. Verify that the IUT sends to TS_2 a {CC-SETUP} message with IE
	< <basic-service>> 'Internal call setup' and IE <<call-information>></call-information></basic-service>
	specifying (call id b, CS call setup) =<(1, 0, value b), (2, 1, 1)>
	Verify that the IUT sends to TS_2 in the {CC-SETUP} or a {CC-INFO} message an IE
	< <calling allowed,="" dect="" name="<" or="" party="" presentation="" standard="" td="" utf-8,<=""></calling>
	User-provided, verified and passed, HANDSET_TS_1_NAME > >> and with IE
	< <call-information>> specifying (call id b) =<(1, 0, value b)></call-information>
	2. Verify that the IUT sends to TS_2 a {CC-INFO} message with IE < <calling party<="" td=""></calling>
	NAME =< Presentation indicator= presentation indicator of phone A received in initial
	condition, Used alphabet= UTF-8, Screening indicator= screening indicator of phone A
	received in initial condition, Calling party name= Phone A name > >> and with IE
	< <call-information>> specifying either (call id b) = <(1,0, value b> or (call id a)</call-information>
	=<(1, 0, value a)>
Comments:	- In pass criterion 2, the fields of the IE< <calling name="" party="">> transmitted</calling>
	to TS_2 shall be the same as the one received during the initial condition on
	TS_1
	- In pass criterion 2, call id b is used if Phone A CNIP is sent together with 'CS
	call under transfer call status' (and call id update from b to a), call id a is used if
	this CNIP is sent in a subsequent {CC-INFO} message

7.9 TC_FT_NG1.N.9 3-party conference with established external and/or internal calls tests cases

Test subgroup objectives: to check the IUT's behaviours regarding 3-party conference with established external and/or internal calls.

Declarations (see Annex A):

- NG1.N.9 "3-party conference with established external and/or internal calls" feature is optional on FP side, so the manufacturer shall declare if it is supported.
- 3-party conference with two established external calls can be base station or network dependent, so the manufacturer shall declare if it is supported.
- 3-party conference with two established external calls on two different lines can be base station or network dependent, so the manufacturer shall declare if it is supported in addition to the NG1.N.14 "Multiple lines" feature support.

TO ET NOANO BY 404	O month, conference with potablished external and internal calls, release from non-initiation
TC_FT_NG1.N.9_BV_101	3-party conference with established external and internal calls - release from non initiating
Deference	internal party
Reference:	TS 102 527-3 [14], Clause 7.4.3.7
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2),
	External call in F-10 (TS_1+IUT) initiated by Phone_A on line 0 (call id a),
la.	one parallel internal call on hold (call id b) with TS_2
Stimulus:	1. Nothing
	2. Send a {CC-INFO} message with IE << MULTI-KEYPAD >> set to (1CH, 32H) digits
	and with IE < <call-information>> specifying (call id b) =<(1, 0, value b)> from</call-information>
	TS_1
	3. Send a {CC-RELEASE} message from TS_2
Pass criteria:	1. Verify that "3-party conference" higher layer capability bit is set to 1 (= Extended
	higher layer capabilities (part 2) a33 bit)
	2. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
	< <call-information>> specifying (call id not chosen for the conference, CS idle)</call-information>
	=<(1, 0, value a or b), (2, 1, 0)>,
	If the call id chosen for the conference is call id b then verify that the IUT sends to
	TS_1 a {CC-INFO} message with IE < <call-information>> specifying (call id a,</call-information>
	updated call id b, CS conference connect) =<(1, 0, value a), (1, 1, value b),
	(2, 1, 11)>,
	and to TS_2 a {CC-INFO} message with IE < <call-information>> specifying</call-information>
	(line 0, line type information, call id b, CS conference connect) =<(0, 0, lid0), (0, 5, lt0),
	(1, 0, value), (2, 1, 11)>
	Else verify that the IUT sends to TS_1 a {CC-INFO} message with IE
	< <call-information>> specifying (call id a, CS conference connect) =<(1, 0,</call-information>
	value a), (2, 1, 11)>,
	and to TS_2 a {CC-INFO} message with IE < <call-information>> specifying</call-information>
	(line 0, line type information, call id b, updated call id a, CS conference connect) =<(0,
	0, lid0), (0, 5, lt0), (1, 0, value b), (1, 1, value a), (2, 1, 11)>
	Verify end-to-end U-plane connection between TS_1 and Phone A
	Verify end-to-end U-plane connection between TS_2 and Phone A
	Verify end-to-end U-plane connection between TS_1 and TS_2
	2. Verify that the IUT sends to TS_2 a {CC-RELEASE-COM} message
	Verify that the IUT sends to TS_1 in one or several {CC-INFO} messages an IE
	< <call-information>> specifying (line 0, line type information, call id chosen for</call-information>
	the conference, CS call connect) = $<(0, 0, 1id0), (0, 5, 1t0), (1, 0, value a or b), (2, 1, 5)>$
	and IE < <clip>> with <calling address="" party=""> field set to Phone A number</calling></clip>
	Verify end-to-end U-plane connection between TS_1 and Phone A
Comments:	'Call id chosen for the conference': chosen by the FP among the involved calls, either the
	on-hold call id (call id b) or the active call id (call id a). The other call id is the 'call id not
	chosen for the conference' (respectively call id a or call id b)
	onosen for the conference (respectively call to a or call to b)

TC_FT_NG1.N.9_BV_102	3-party conference with established external and internal calls - release of external party from initiating PP
Reference:	TS 102 527-3 [14], Clause 7.4.3.7
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2),
	External G.722 call in F-10 (TS_1+IUT) initiated by Phone_A on line 0 (call id a),
	one parallel internal G.726 call on hold (call id b) with TS_2
Ctimuluo	
Stimulus:	 Send a {CC-INFO} message with IE << MULTI-KEYPAD >> set to (1CH, 32H) digits and with IE <<call-information>> specifying (call id b) =<(1, 0, value b)> from TS_1</call-information>
	2. Send a {CC-INFO} message with IE << MULTI-KEYPAD >> set to (1CH, 33H) digits and with IE < <call-information>> specifying (line 0) =<(0, 0, lid0)> from TS_1</call-information>
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
	< <call-information>> specifying (call id not chosen for the conference, CS idle) =<(1, 0, value a or b), (2, 1, 0)>,</call-information>
	If the call id chosen for the conference is call id b then verify that the IUT sends to TS_1 a {CC-INFO} message with IE < <call-information>> specifying (call id a, updated call id b, CS conference connect) =<(1, 0, value a), (1, 1, value b),</call-information>
	(2, 1, 11)>, and to TS_2 a {CC-INFO} message with IE < <call-information>> specifying (line 0, line type information, call id b, CS conference connect) =<(0, 0, lid0), (0, 5, lt0),</call-information>
	(1, 0, value), (2, 1, 11)>
	Else verify that the IUT sends to TS_1 a {CC-INFO} message with IE < <call-information>> specifying (call id a, CS conference connect) =<(1, 0, value a) (2, 4, 44)</call-information>
	value a), (2, 1, 11)>, and to TS_2 a {CC-INFO} message with IE < <call-information>> specifying (line 0, line type information, call id b, updated call id a, CS conference connect) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value b), (1, 1, value a), (2, 1, 11)></call-information>
	Verify end-to-end U-plane connection between TS_1 and Phone A
	Verify end-to-end U-plane connection between TS_2 and Phone A
	Verify end-to-end U-plane connection between TS_1 and TS_2
	2. Verify that the IUT sends to TS_1 in one or several {CC-INFO} messages an IE < <call-information>> specifying (call id chosen for the conference, CS call</call-information>
	connect) =<(1, 0, value a or b), (2, 1, 5)> and IE < <calling coding="" decimal="" ia5="" identity="" in="" number="" number,="" of="" party="" plan,="" pp2="" private="" specific="" terminal=""> >></calling>
	Verify that the IUT sends to TS_2 in one or several {CC-INFO} messages an IE < <call-information>> specifying (call id chosen for the conference, CS call</call-information>
	connect) =<(1, 0, value a or b), (2, 1, 5)> and IE < <calling number="</td" party=""></calling>
	<network coding="" decimal="" ia5="" identity="" in="" number="" number,="" of="" plan,="" pp1="" private="" specific="" terminal=""> >></network>
	Verify end-to-end U-plane connection between TS_1 and TS_2
Comments:	'Call id chosen for the conference': chosen by the FP among the involved calls, either the on-hold call id (call id b) or the active call id (call id a). The other call id is the 'call id not
	chosen for the conference' (respectively call id a or call id b)

ETSI

TC_FT_NG1.N.9_BV_103	3-party conference with established external calls - release from initiating party
Reference:	TS 102 527-3 [14], Clause 7.4.3.7
Initial condition:	External call in F-10 (TS_1+IUT) initiated by Phone_A on line 0 (call id a),
	one parallel external call on hold on line 0 (call id b) with Phone B
Stimulus:	1. Send a {CC-INFO} message with IE << MULTI-KEYPAD >> set to (1CH, 32H) digits
	and with IE < <call-information>> specifying (call id b) =<(1, 0, value b)> from</call-information>
	TS_1
	2. Send a {CC-RELEASE} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
	< <call-information>> specifying (call id not chosen for the conference, CS idle) =<(1, 0, value a or b), (2, 1, 0)>,</call-information>
	If the call id chosen for the conference is call id b then verify that the IUT sends to
	TS_1 a {CC-INFO} message with IE < <call-information>> specifying (call id a,</call-information>
	updated call id b, CS conference connect) =<(1, 0, value a), (1, 1, value b), (2, 1, 11)>
	Else verify that the IUT sends to TS_1 a {CC-INFO} message with IE
	<call-information>> specifying (call id a, CS conference connect) =<(1, 0, value a), (2, 1, 11)></call-information>
	Verify end-to-end U-plane connection between TS_1 and Phone A
	Verify end-to-end U-plane connection between TS_1 and Phone B
	Verify end-to-end U-plane connection between Phone A and Phone B
	2. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
Comments:	'Call id chosen for the conference': chosen by the FP among the involved calls, either the
	on-hold call id (call id b) or the active call id (call id a). The other call id is the 'call id not
	chosen for the conference' (respectively call id a or call id b)

TC_FT_NG1.N.9_BV_104	3-party conference with established external calls on two different lines - release from	
	initiating party	
Reference:	TS 102 527-3 [14], Clause 7.4.3.7	
Initial condition:	External call in F-10 (TS_1+IUT) initiated by Phone_A on line 0 (call id a),	
	one parallel external call on hold on line 1 (call id b) with Phone B	
Stimulus:	1. Send a {CC-INFO} message with IE << MULTI-KEYPAD >> set to (1CH, 32H) digits	
	and with IE < <call-information>> specifying (call id b) =<(1, 0, value b)> from</call-information>	
	TS_1	
	2. Send a {CC-RELEASE} message from TS_1	
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE	
	< <call-information>> specifying (call id not chosen for the conference, CS idle)</call-information>	
	=<(1, 0, value a or b), (2, 1, 0)>,	
	If the call id chosen for the conference is call id b then verify that the IUT sends to	
	TS_1 a {CC-INFO} message with IE < <call-information>> specifying (call id a,</call-information>	
	updated call id b, CS conference connect) =<(1, 0, value a), (1, 1, value b), (2, 1, 11)>	
	Else verify that the IUT sends to TS_1 a {CC-INFO} message with IE	
	< <call-information>> specifying (call id a, CS conference connect) =<(1, 0,</call-information>	
	value a), (2, 1, 11)>	
	Verify end-to-end U-plane connection between TS_1 and Phone A	
	Verify end-to-end U-plane connection between TS_1 and Phone B	
	Verify end-to-end U-plane connection between Phone A and Phone B	
	2. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message	
Comments:	'Call id chosen for the conference': chosen by the FP among the involved calls, either the	
	on-hold call id (call id b) or the active call id (call id a). The other call id is the 'call id not	
	chosen for the conference' (respectively call id a or call id b)	

TC_FT_NG1.N.9_BV_105	Three-party conference call – Extended Higher Layer Capabilities (Part 2)		
Test purpose	Verify that the FP IUT sets the "Three party conference call (external or external)"		
	attribute in the Extended higher layer capabilities (Part 2)		
Reference:	TS 102 527-3 [14], Clause 7.4.9.2.3		
Initial condition:	F-00		
Time sequence:	s1 [TS_1 >> IUT] Perform an access rights request a1 [IUT >> TS_1] The "three-party conference call" attribute (bit a31) of the Extended higher layer capabilities (part 2) is set to 1		
Pass criteria:	Verify the answer		
Comments			

7.10 TC_FT_NG1.N.10 Intrusion call tests cases

Test subgroup objectives: to check the IUT's behaviours regarding Intrusion call.

Declarations (see Annex A):

- NG1.N.10 "Intrusion call" feature is optional on FP side, so the manufacturer shall declare if it is supported.
- When NG1.N.14 "Multiple lines" procedure is declared, following behaviours and corresponding test cases are exclusive:
 - FP implements 'non early CC-CONNECT': TC_FT_NG1.N.10_BV_101, 103, 105, 201, 203.
 - FP implements 'early CC-CONNECT': TC_FT_NG1.N.10_BV_102, 104, 106, 202, 204.

Table 17: Summary of call intrusion test cases on FT side

Type of intrusion	Message for line id specification	Non-early {CC-CONNECT} implementation	Early {CC-CONNECT} implementation
Implicit call intrusion	{CC-SETUP}	TC_FT_NG1.N.10_BV_101	TC_FT_NG1.N.10_BV_102
		(narrowband call)	(narrowband call)
	{CC-INFO}	TC_FT_NG1.N.10_BV_105	TC_FT_NG1.N.10_BV_106
Explicit call intrusion (line	{CC-SETUP}	TC_FT_NG1.N.10_BV_103	TC_FT_NG1.N.10_BV_104
intrusion)	(CC-INFO)	TC_FT_NG1.N.10_BV_203	TC_FT_NG1.N.10_BV_204
Explicit call intrusion (handset intrusion)	N/A	TC_FT_NG1.N.10_BV_201	TC_FT_NG1.N.10_BV_202

NOTE 1: Tests cases are exclusive: IF FP implements 'non early CC CONNECT' on line 0 THEN run the five tests TC_FT_NG1.N.10_BV_101, 105, 103, 202, 201 ELSE run TC_FT_NG1.N.10_BV_102, 106, 104, 204, 201a (see Table A.16 FT_IXIT_22).

NOTE 2: Test TC_FT_NG1.N.10_BV_301 testing FP side capability bit is not represented in the table.

TC_FT_NG1.N.10_BV_101		
	implementation) - release from intruder - G.726 call	
Reference:	TS 102 527-3 [14], Clause 7.4.3.8.1	
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2),	
	"Multiple calls mode" set to 30H ("single call mode") and "Intrusion call" set to 31H	
	("allowed") on line 0,	
	PP1 and PP2 attached to only line 0	
	G.726 external call in F-10 (TS_1+IUT) initiated by TS_1 on line 0 (call id a) with Phone C	
Stimulus:	1. Send a {CC-SETUP} message from TS_2 with IE < <basic-service>> 'Normal call</basic-service>	
	setup' and with IE < <call-information>> specifying (line 0) =<(0, 0, lid0)></call-information>	
	2. Send a {CC-RELEASE} message from TS_2	
Pass criteria:	1. Verify that the IUT sends to TS_2 a {CC-CONNECT} message with IE < <signal>></signal>	
	with the value 02H indicating 'Intercept tone on' and with IE < <call-information>></call-information>	
	specifying (line 0, line type information, call id a, CS conference connect) =<(0, 0, lid0),	
	(0, 5, lt0), (1, 0, value a), (2, 1, 11)>	
	Verify that the IUT sends to TS_1 in the same or different {CC-INFO} messages:	
	 an IE <<signal>> with the value 02H indicating 'Intercept tone on')</signal> 	
	 an IE <<calling li="" number="<Number" number,<="" party="" specific="" type="Network"> </calling>	
	Numbering plan id = Private plan, Presentation indicator=do not care value,	
	Screening indicator= do not care value, calling party address= IA5 coding of	
	terminal identity number in decimal of PP2> >>	
	 an IE <<call-information>> specifying (call id a, CS conference connect)</call-information> 	
	=< (1, 0, value a), (2, 1, 11)>	
	 when sent in different messages, call status indication shall always be sent in the 	
	first used {CC-INFO} message, and call identifier shall be sent within all messages	
	Verify end-to-end U-plane connection between TS_1 and Phone C	
	Verify end-to-end U-plane connection between TS_1 and TS_2	
	Verify end-to-end U-plane connection between TS_2 and Phone C	
	2. Verify that the IUT sends to TS_2 a {CC-RELEASE-COM} message	
	Verify that the IUT sends to TS_1 in one or several {CC-INFO} messages an IE	
	< <clip>> with <calling address="" party=""> field set to Phone C number and IE</calling></clip>	
	< <call-information>> specifying (line 0, line type information, call id a, CS call</call-information>	
	connect) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value a), (2, 1, 5)>	
	Verify end-to-end U-plane connection between TS_1 and Phone C	
Comments:	- This test case includes test of correct narrowband conference call establishment in G.726	
	- The CLIP in pass criteria 3 is an 'artificial' CLIP created by the FP as the first call was an	
	outgoing call	
	- In pass criterion 1, the < <signal>> IE may be sent alternatively in a separate {CC-INFO}</signal>	
	message following the indicated message; in that case, the call id shall be present in both	
	messages	

TC_FT_NG1.N.10_BV_102	Implicit call intrusion into a line in "single call" mode (early {CC-CONNECT}
	implementation) - release from intruder - G.726 call
Reference:	TS 102 527-3 [14], Clause 7.4.3.8.1
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2),
	"Multiple calls mode" set to 30H ("single call mode") and "Intrusion call" set to 31H
	("allowed") on line 0,
	PP1 and PP2 attached to only line 0
	G.726 external call in F-10 (TS_1+IUT) initiated by TS_1 on line 0 (call id a) with Phone C
Stimulus:	1. Send a {CC-SETUP} message from TS_2 with IE < <basic-service>> 'Normal call setup' and with IE <<call-information>> specifying (line 0) =<(0, 0, lid0)></call-information></basic-service>
	2. Send a {CC-RELEASE} message from TS_2
Pass criteria:	 Verify that the IUT sends to TS_2 a {CC-CONNECT} message with IE <<call-information>> specifying (call id a) =<(1, 0, value a)> followed by a {CC-INFO} message with IE <<signal>> with value 02H indicating 'Intercept tone on' and IE <<call-information>> specifying (line 0, line type information, call id a, CS conference connect) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value a), (2, 1, 11)></call-information></signal></call-information> Verify that the IUT sends to TS_1 in the same or different {CC-INFO} messages: an IE <<signal>> with the value 02H indicating 'Intercept tone on'</signal> an IE <<calling address="IA5" calling="" care="" coding="" decimal="" id="Private" identity="" in="" indicator="do" not="" number="" number,="" numbering="" of="" party="" plan="" plan,="" pp2="" presentation="" screening="" specific="" terminal="" type="Network" value,=""> >></calling> an IE <<call-information>> specifying (call id a, CS conference connect) =< (1, 0, value a), (2, 1, 11)></call-information>
	 when sent in different messages, call status indication shall always be sent in the first used {CC-INFO} message, and call identifier shall be sent within all messages Verify end-to-end U-plane connection between TS_1 and Phone C Verify end-to-end U-plane connection between TS_1 and TS_2 Verify end-to-end U-plane connection between TS_2 and Phone C Verify that the IUT sends to TS_2 a {CC-RELEASE-COM} message Verify that the IUT sends to TS_1 in one or several {CC-INFO} messages an IE <<clip>> with <calling address="" party=""> field set to Phone C number and IE <<call-information>> specifying (line 0, line type information, call id a, CS call connect) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value a), (2, 1, 5)> Verify end-to-end U-plane connection between TS_1 and Phone C</call-information></calling></clip>
Comments:	- This test case includes test of correct narrowband conference call establishment in G.726 - The CLIP in pass criteria 3 is an 'artificial' CLIP created by the FP as the first call was an outgoing call - In pass criterion 1, the < <signal>> IE may be sent alternatively in a separate {CC-INFO} message following the indicated message; in that case, the call id shall be present in both messages</signal>

TC_FT_NG1.N.10_BV_103	implementation) with targeted line specified in {CC-SETUP} - release from intruder - G.722 call	
Reference:	TS 102 527-3 [14], Clause 7.4.3.8.1	
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2),	
	"Multiple calls mode" set to 30H ("single call mode") and "Intrusion call" set to 31H	
	("allowed") on line 0,	
	PP1 and PP2 attached to only line 0	
	G.722 external call in F-10 (TS_1+IUT) initiated by TS_1 on line 0 (call id a) with Phone A	
Stimulus:	1. Send a {CC-SETUP} message from TS_2 with IE < <basic-service>> 'Normal call</basic-service>	
	setup', IE << MULTI-KEYPAD >> set to (1CH, 40H) digits, and IE	
	< <call-information>> specifying (line 0) =<(0, 0, lid0)></call-information>	
	2. Send a {CC-RELEASE} message from TS_2	
Pass criteria:	1. Verify that the IUT sends to TS_2 a {CC-CONNECT} message with IE < <signal>></signal>	
	with the value 02H indicating 'Intercept tone on', and with IE	
	< <call-information>> specifying (line 0, line type information, call id a, CS</call-information>	
	conference connect) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value a), (2, 1, 11)>	
	Verify that the IUT sends to TS_1 in the same or different {CC-INFO} messages:	
	 an IE <<signal>> with the value 02H indicating 'Intercept tone on'</signal> 	
	 an IE <<calling li="" number="<Number" number,<="" party="" specific="" type="Network"> </calling>	
	Numbering plan id = Private plan, Presentation indicator=do not care value,	
	Screening indicator= do not care value, calling party address= IA5 coding of	
	terminal identity number in decimal of PP2> >>	
	 an IE <<call-information>> specifying (call id a, CS conference connect) =<</call-information> (1, 0, value a), (2, 1, 11)> 	
	 when sent in different messages, call status indication shall always be sent in the first used {CC-INFO} message, and call identifier shall be sent within all messages 	
	Verify end-to-end U-plane connection between TS_1 and Phone A	
	Verify end-to-end U-plane connection between TS_1 and TS_2	
	Verify end-to-end U-plane connection between TS_2 and Phone A	
	2. Verify that the IUT sends to TS_2 a {CC-RELEASE-COM} message	
	Verify that the IUT sends to TS_1 in one or several {CC-INFO} messages an IE	
	< <clip>> with <calling address="" party=""> field set to Phone A number and IE</calling></clip>	
	< <call-information>> specifying (line 0, line type information, call id a, CS call</call-information>	
	connect) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value a), (2, 1, 5)>	
	Verify end-to-end U-plane connection between TS_1 and Phone A	
Comments:	- The CLIP in pass criteria 3 is an 'artificial' CLIP created by the FP as the first call was an	
	outgoing call	
	- In pass criterion 1, the < <signal>> IE may be sent alternatively in a separate {CC-INFO}</signal>	
	message following the indicated message; in that case, the call id shall be present in both	
	messages	

TC FT_NG1.N.10_BV_104	Explicit call intrusion into a line in "single call" mode (early {CC-CONNECT}	
	implementation) with targeted line specified in {CC-SETUP} - release from intruder -	
	G.722 call	
Reference:	TS 102 527-3 [14], Clause 7.4.3.8.1	
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2),	
	"Multiple calls mode" set to 30H ("single call mode") and "Intrusion call" set to 31H	
	("allowed") on line 0,	
	PP1 and PP2 attached to only line 0	
	G.722 external call in F-10 (TS_1+IUT) initiated by TS_1 on line 0 (call id a) with Phone A	
Stimulus:	 Send a {CC-SETUP} message from TS_2 with IE <<basic-service>> 'Normal call setup', IE << MULTI-KEYPAD >> set to (1CH, 40H) digits, and IE</basic-service> 	
	< <call-information>> specifying (line 0) =<(0, 0, lid0)></call-information>	
	2. Send a {CC-RELEASE} message from TS_2	
Pass criteria:	1. Verify that the IUT sends to TS_2 a {CC-CONNECT} message with IE	
	< <call-information>> specifying (call id a) =<(1, 0, value a)> followed by a {CC-INFO} message with IE <<signal>> with value 02H indicating 'Intercept tone on' and IE <<call-information>> specifying (line 0, line type information, call id a, CS conference connect) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value a), (2, 1, 11)></call-information></signal></call-information>	
	Verify that the IUT sends to TS_1 in the same or different {CC-INFO} messages:	
	 an IE <<signal>> with the value 02H indicating 'Intercept tone on'</signal> 	
	 an IE <<calling number="<Number" number,<br="" party="" specific="" type="Network">Numbering plan id = Private plan, Presentation indicator=do not care value, Screening indicator= do not care value, calling party address= IA5 coding of terminal identity number in decimal of PP2> >></calling> 	
	 an IE <<call-information>> specifying (call id a, CS conference connect) =<</call-information> (1, 0, value a), (2, 1, 11)> 	
	 when sent in different messages, call status indication shall always be sent in the first used {CC-INFO} message, and call identifier shall be sent within all messages Verify end-to-end U-plane connection between TS_1 and Phone A Verify end-to-end U-plane connection between TS_1 and TS_2 Verify end-to-end U-plane connection between TS_2 and Phone A Verify that the IUT sends to TS_2 a {CC-RELEASE-COM} message Verify that the IUT sends to TS_1 in one or several {CC-INFO} messages an IE <<clip>> with <calling address="" party=""> field set to Phone A number and IE</calling></clip> 	
Comments:	<ccall-information>> specifying (line 0, line type information, call id a, CS call connect) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value a), (2, 1, 5)> Verify end-to-end U-plane connection between TS_1 and Phone A - The CLIP in pass criteria 3 is an 'artificial' CLIP created by the FP as the first call was an outgoing call - In pass criterion 1, the <<signal>> IE may be sent alternatively in a separate {CC-INFO} message following the indicated message; in that case, the call id shall be present in both messages</signal></ccall-information>	

TC_FT_NG1.N.10_BV_105		
	CC-CONNECT implementation) with targeted line specified in {CC-INFO} - release from	
	intruder - G.722 call	
Reference:	TS 102 527-3 [14], Clause 7.4.3.8.1	
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2),	
	"Multiple calls mode" set to 30H ("single call mode") and "Intrusion call" set to 31H	
	("allowed") on line 0,	
	PP1 attached to line 0, PP2 attached to line 0 and line 1	
	G.722 external call in F-10 (TS_1+IUT) initiated by TS_1 on line 0 (call id a) with Phone A	
Stimulus:	1. Send a {CC-SETUP} message from TS_2 with IE < <basic-service>> 'Normal call</basic-service>	
	setup'	
	2. Send a {CC-INFO} message from TS_2 with IE < <call-information>> specifying</call-information>	
	(line 0, call id b) =<(0, 0, lid0), (1, 0, value b)>	
	3. Send a {CC-RELEASE} message from TS_2	
Pass criteria:	1. Verify that the IUT sends to TS_2 a {CC-SETUP-ACK} message with IE	
	< <call-information>> specifying (call id b, CS call setup ack) =<(1, 0, value b),</call-information>	
	(2, 1, 2)>	
	2. Verify that the IUT sends to TS_2 a {CC-CONNECT} message with IE < <signal>></signal>	
	with the value 02H indicating 'Intercept tone on' and with IE < <call-information>></call-information>	
	specifying (line 0, line type information, call id b, updated call id a, CS conference	
	connect) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value b), (1, 1, value a), (2, 1, 11)>	
	Verify that the IUT sends to TS_1 in the same or different {CC-INFO} messages:	
	an IE < <signal>> with the value 02H indicating 'Intercept tone on'</signal>	
	 an IE <<calling li="" number="<Number" number,<="" party="" specific="" type="Network"> </calling>	
	Numbering plan id = Private plan, Presentation indicator=do not care value,	
	Screening indicator= do not care value, calling party address= IA5 coding of	
	terminal identity number in decimal of PP2> >>	
	an IE < <call-information>> specifying (call id a, CS conference connect)</call-information>	
	=< (1, 0, value a), (2, 1, 11)>	
	when sent in different messages, call status indication shall always be sent in the	
	first used {CC-INFO} message, and call identifier shall be sent within all messages	
	Verify end-to-end U-plane connection between TS_1 and Phone A	
	Verify end-to-end U-plane connection between TS_1 and TS_2	
	Verify end-to-end U-plane connection between TS_2 and Phone A	
	3. Verify that the IUT sends to TS_2 a {CC-RELEASE-COM} message	
	Verify that the IUT sends to TS_1 in one or several {CC-INFO} messages an IE	
	< <clip>> with <calling address="" party=""> field set to Phone A number and IE</calling></clip>	
	< <call-information>> specifying (line 0, line type information, call id a, CS call</call-information>	
	connect) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value a), (2, 1, 5)>	
	Verify end-to-end U-plane connection between TS_1 and Phone A	
Comments:	- The CLIP in pass criteria 3 is an 'artificial' CLIP created by the FP as the first call was an	
	outgoing call	
	- In pass criterion 2, the < <signal>> IE may be sent alternatively in a separate {CC-INFO}</signal>	
	message following the indicated message; in that case, the call id shall be present in both	
	messages	
	Jilloobagoo	

TC_FT_NG1.N.10_BV_106	6 Implicit call intrusion into a line in "single call" mode on a multiple line system (early		
	CC-CONNECT implementation) with targeted line specified in {CC-INFO} - release from		
	intruder - G.722 call		
Reference:	TS 102 527-3 [14], Clause 7.4.3.8.1		
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2),		
	"Multiple calls mode" set to 30H ("single call mode") and "Intrusion call" set to 31H		
	("allowed") on line 0,		
	PP1 attached to line 0, PP2 attached to line 0 and line 1		
	G.722 external call in F-10 (TS_1+IUT) initiated by TS_1 on line 0 (call id a) with Phone A		
Stimulus:	1. Send a {CC-SETUP} message from TS_2 with IE < <basic-service>> 'Normal call</basic-service>		
	setup'		
	2. Send a {CC-INFO} message from TS_2 with IE < <call-information>> specifying</call-information>		
	(line 0, call id b) $=<(0, 0, lid0), (1, 0, value b)>$		
	3. Send a {CC-RELEASE} message from TS_2		
Pass criteria:	Verify that the IUT sends to TS_2 a {CC-CONNECT} message with IE		
	< <call-information>> specifying (call id b) =<(1, 0, value b)> followed by a</call-information>		
	{CC-INFO} message with IE < <call-information>> specifying (call id b, CS call</call-information>		
	setup ack) =<(1, 0, value b), (2, 1, 2)>		
	2. Verify that the IUT sends to TS_2 in the same or different {CC-INFO} messages:		
	 an IE <<signal>> with the value 02H indicating 'Intercept tone on'</signal> 		
	 an IE <<call-information>> specifying (line 0, line type information, call id b,</call-information> 		
	updated call id a, CS conference connect) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value b),		
	(1, 1, value a), (2, 1, 11)>		
	when sent in different messages, call status indication shall always be sent in the		
	first used (CC-INFO) message, and call identifier shall be sent within all messages		
	Verify that the IUT sends to TS_1 in the same or different {CC-INFO} messages:		
	 an IE <<signal>> with the value 02H indicating 'Intercept tone on'</signal> 		
	 an IE <<calling li="" number="<Number" number,<="" party="" specific="" type="Network"> </calling>		
	Numbering plan id = Private plan, Presentation indicator=do not care value,		
	Screening indicator= do not care value, calling party address= IA5 coding of		
	terminal identity number in decimal of PP2> >>		
	 an IE <<call-information>> specifying (call id a, CS conference connect)</call-information> 		
	=< (1, 0, value a), (2, 1, 11)>		
	when sent in different messages, call status indication shall always be sent in the		
	first used (CC-INFO) message, and call identifier shall be sent within all messages		
	Verify end-to-end U-plane connection between TS_1 and Phone A		
	Verify end-to-end U-plane connection between TS_1 and TS_2		
	Verify end-to-end U-plane connection between TS_2 and Phone A		
	3. Verify that the IUT sends to TS_2 a {CC-RELEASE-COM} message		
	Verify that the IUT sends to TS_1 in one or several {CC-INFO} messages an IE		
	< <clip>> with <calling address="" party=""> field set to Phone A number and IE</calling></clip>		
	< <call-information>> specifying (line 0, line type information, call id a, CS call</call-information>		
	connect) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value a), (2, 1, 5)>		
	Verify end-to-end U-plane connection between TS_1 and Phone A		
Comments:	The CLIP in pass criteria 3 is an 'artificial' CLIP created by the FP as the first call was an		
Johnnoitto.	outgoing call		

TC_FT_NG1.N.10_BV_201	Explicit call intrusion into a line in "single call" mode (non-early {CC-CONNECT}	
	implementation) - handset intrusion - G.722 call	
Reference:	TS 102 527-3 [14], Clause 7.4.3.8.2	
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2),	
	"Multiple calls mode" set to 30H ("single call mode") and "Intrusion call" set to 31H	
	("allowed") on line 0, PP1 and PP2 attached to line 0	
	G.722 external call in F-10 (TS_1+IUT) initiated by TS_1 on line 0 (call id a) with Phone A	
Stimulus:	1. Send a {CC-SETUP} message from TS_2 with IE < <basic-service>> 'Normal call</basic-service>	
	setup' and with IE << MULTI-KEYPAD >> set to (1CH, 40H) digits	
	2. Send a {CC-INFO} message from TS_2 with IE << MULTI-KEYPAD >> set to (17H,	
	31H) digits and IE < <call-information>> specifying (call id b) =<(1, 0, value b)></call-information>	
Pass criteria:	1. Verify that IUT sends to TS_2 a {CC-SETUP-ACK} with IE < <call-information>></call-information>	
	specifying (call id b, CS call setup ack) =<(1, 0, value b), (2, 1, 2)>.	
	2. Verify that the IUT sends to TS_2 a {CC-CONNECT} message with IE < <signal>></signal>	
	with the value 02H indicating 'Intercept tone on' and with IE < <call-information>></call-information>	
	specifying (line 0, line type information, call id b, updated call id a, CS conference	
	connect) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value b), (1, 1, value a), (2, 1, 11)>	
	Verify that the IUT sends to TS_1 in the same or different {CC-INFO} messages:	
	 an IE <<signal>> with the value 02H indicating 'Intercept tone on'</signal> 	
	 an IE <<calling li="" number="<Number" number,<="" party="" specific="" type="Network"> </calling>	
	Numbering plan id = Private plan, Presentation indicator=do not care value,	
	Screening indicator= do not care value, calling party address= IA5 coding of	
	terminal identity number in decimal of PP2> >>	
	 an IE <<call-information>> specifying (call id a, CS conference connect)</call-information> 	
	=< (1, 0, value a), (2, 1, 11)>	
	 when sent in different messages, call status indication shall always be sent in the 	
	first used (CC-INFO) message, and call identifier shall be sent within all messages	
	Verify end-to-end U-plane connection between TS_1 and Phone A	
	Verify end-to-end U-plane connection between TS_1 and TS_2	
	Verify end-to-end U-plane connection between TS_2 and Phone A	
Comments:	- In pass criterion 2, the < <signal>> IE may be sent alternatively in a separate {CC-INFO}</signal>	
	message following the indicated message; in that case, the call id shall be present in both	
	messages	

implementation) handost introdice C 700 cell
implementation)- handset intrusion - G.722 call
TS 102 527-3 [14], Clause 7.4.3.8.2
2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2),
"Multiple calls mode" set to 30H ("single call mode") and "Intrusion call" set to 31H
("allowed") on line 0, PP1 and PP2 attached to line 0
G.722 external call in F-10 (TS_1+IUT) initiated by TS_1 on line 0 (call id a) with Phone A
 Send a {CC-SETUP} message from TS_2 with IE <<basic-service>> 'Normal call setup' and IE << MULTI-KEYPAD >> set to (1CH, 40H) digits</basic-service>
2. Send a {CC-INFO} message from TS_2 with IE << MULTI-KEYPAD >> set to (17H,
31H) digits and IE < <call-information>> specifying (call id b) =<(1, 0, value b)></call-information>
1. Verify that IUT sends to TS_2 a {CC-CONNECT} with IE < <call-information>></call-information>
specifying (call id b) =<(1, 0, value b)> but no call status, followed by a {CC-INFO}
message with IE < <call-information>> specifying (call id b, CS call setup ack)</call-information>
=<(1, 0, value b), (2, 1, 2)>
2. Verify that the IUT sends to TS_2 a {CC-INFO} message with IE < <signal>> with the</signal>
value 02H indicating 'Intercept tone on', and with IE < <call-information>></call-information>
specifying (line 0, line type information, call id b, updated call id a, CS conference
connect) = $<(0, 0, \text{lid}0), (0, 5, \text{lt}0), (1, 0, \text{value b}), (1, 1, \text{value a}), (2, 1, 11)>$
Verify that the IUT sends to TS_1 in the same or different {CC-INFO} messages:
an IE < <signal>> with the value 02H indicating 'Intercept tone on'</signal>
 an IE <<calling li="" number="<Number" number,<="" party="" specific="" type="Network"> </calling>
Numbering plan id = Private plan, Presentation indicator=do not care value,
Screening indicator= do not care value, calling party address= IA5 coding of
terminal identity number in decimal of PP2>>>
 an IE <<call-information>> specifying (call id a, CS conference connect) =<</call-information> (1, 0, value a), (2, 1, 11)>
 when sent in different messages, call status indication shall always be sent in the
first used {CC-INFO} message, and call identifier shall be sent within all messages
Verify end-to-end U-plane connection between TS_1 and Phone A
Verify end-to-end U-plane connection between TS_1 and TS_2
Verify end-to-end U-plane connection between TS_2 and Phone A
- In pass criterion 2, the < <signal>> IE may be sent alternatively in a separate {CC-INFO}</signal>
message following the indicated message; in that case, the call id shall be present in both
messages

TC_FT_NG1.N.10_BV_203	Explicit call intrusion into a line in "single call" mode (non-early {CC-CONNECT}	
	implementation) - line intrusion with target in {CC-INFO} - G.722 call	
Reference:	TS 102 527-3 [14], Clause 7.4.3.8.2	
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2),	
	"Multiple calls mode" set to 30H ("single call mode") and "Intrusion call" set to 31H	
	("allowed") on line 0, PP1 and PP2 attached to line 0	
	G.722 external call in F-10 (TS_1+IUT) initiated by TS_1 on line 0 (call id a) with Phone A	
Stimulus:	1. Send a {CC-SETUP} message from TS_2 with IE < <basic-service>> 'Normal call</basic-service>	
	setup' and with IE << MULTI-KEYPAD >> set to (1CH, 40H) digits	
	2. Send a {CC-INFO} message from TS_2 with IE < <call-information>> specifying</call-information>	
	(line 0 call id b) = $<$ (0, 0, lid0), (1, 0, value b)>	
Pass criteria:	1. Verify that IUT sends to TS_2 a {CC-SETUP-ACK} with IE < <call-information>></call-information>	
	specifying (call id b, CS call setup ack) =<(1, 0, value b), (2, 1, 2)>.	
	2. Verify that the IUT sends to TS_2 a {CC-CONNECT} message with IE < <signal>></signal>	
	with the value 02H indicating 'Intercept tone on' and with IE < <call-information>></call-information>	
	specifying (line 0, line type information, call id b, updated call id a, CS conference	
	connect) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value b), (1, 1, value a), (2, 1, 11)>	
	Verify that the IUT sends to TS_1 in the same or different {CC-INFO} messages:	
	an IE < <signal>> with the value 02H indicating 'Intercept tone on'</signal>	
	an IE < <calling number="<Number" number,<="" party="" specific="" td="" type="Network"></calling>	
	Numbering plan id = Private plan, Presentation indicator=do not care value,	
	Screening indicator= do not care value, calling party address= IA5 coding of	
	terminal identity number in decimal of PP2> >>	
	an IE < <call-information>> specifying (call id a, CS conference connect) (1.0 volve a) (2.1 11);</call-information>	
	=< (1, 0, value a), (2, 1, 11)>	
	when sent in different messages, call status indication shall always be sent in the first used (CC INEO) messages, and call identifies shall be sent within all messages.	
	first used {CC-INFO} message, and call identifier shall be sent within all messages Verify end-to-end U-plane connection between TS_1 and Phone A	
	Verify end-to-end 0-plane connection between TS_1 and Fhone A Verify end-to-end U-plane connection between TS_1 and TS_2	
	Verify end-to-end U-plane connection between TS 2 and Phone A	
Comments:	- In pass criterion 2, the < <signal>> IE may be sent alternatively in a separate {CC-INFO}</signal>	
Comments.	message following the indicated message; in that case, the call id shall be present in both	
	messages	
	Importages	

TC_FT_NG1.N.10_BV_204	Explicit call intrusion into a line in "single call" mode (early {CC-CONNECT}
	implementation)- line intrusion with target in {CC-INFO} - G.722 call
Reference:	TS 102 527-3 [14], Clause 7.4.3.8.2
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2),
	"Multiple calls mode" set to 30H ("single call mode") and "Intrusion call" set to 31H
	("allowed") on line 0, PP1 and PP2 attached to line 0
	G.722 external call in F-10 (TS_1+IUT) initiated by TS_1 on line 0 (call id a) with Phone A
Stimulus:	1. Send a {CC-SETUP} message from TS_2 with IE < <basic-service>> 'Normal call</basic-service>
	setup' and with IE << MULTI-KEYPAD >> set to (1CH, 40H) digits
	2. Send a {CC-INFO} message from TS_2 with IE < <call-information>> specifying</call-information>
	(line 0, call id b) $=<(0, 0, 1id0), (1, 0, value b)>$
Pass criteria:	1. Verify that IUT sends to TS_2 a {CC-CONNECT} with IE < <call-information>></call-information>
	specifying (call id b) =<(1, 0, value b)> but no call status, followed by a {CC-INFO}
	message with IE < <call-information>> specifying (call id b, CS call setup ack)</call-information>
	=<(1, 0, value b), (2, 1, 2)>
	2. Verify that the IUT sends to TS_2 {CC-INFO} message with IE < <signal>> with the</signal>
	value 02H indicating 'Intercept tone on', and with IE < <call-information>></call-information>
	specifying (line 0, line type information, call id b, updated call id a, CS conference
	connect) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value b), (1, 1, value a), (2, 1, 11)>
	Verify that the IUT sends to TS_1 in the same or different {CC-INFO} messages:
	an IE < <signal>> with the value 02H indicating 'Intercept tone on'</signal>
	an IE < <calling number="<Number" number,<="" party="" specific="" td="" type="Network"></calling>
	Numbering plan id = Private plan, Presentation indicator=do not care value,
	Screening indicator= do not care value, calling party address= IA5 coding of
	terminal identity number in decimal of PP2> >>
	an IE < <call-information>> specifying (call id a, CS conference connect) =<</call-information>
	(1, 0, value a), (2, 1, 11)>
	when sent in different messages, call status indication shall always be sent in the
	first used {CC-INFO} message, and call identifier shall be sent within all messages
	Verify end-to-end U-plane connection between TS_1 and Phone A
	Verify end-to-end U-plane connection between TS_1 and TS_2
Comment	Verify end-to-end U-plane connection between TS_2 and Phone A
Comment	- In pass criterion 2, the < <signal>> IE may be sent alternatively in a separate {CC-INFO}</signal>
	message following the indicated message; in that case, the call id shall be present in both
	messages

TC_FT_NG1.N.10_BV_301	Intrusion call – Extended Higher Layer Capabilities (Part 2)
Test purpose	Verify that the FP IUT sets the "Intrusion call" attribute in the Extended higher layer
	capabilities (Part 2)
Reference:	TS 102 527-3 [14], Clause 7.4.9.2.3
Initial condition:	F-00
Time sequence:	s1 [TS_1 >> IUT] Perform an access rights request
	a1 [IUT >> TS_1] "Intrusion call" attribute (bit a32) of the Extended higher layer capabilities (Part 2) is set to 1
Pass criteria:	Verify the answer
Comments	

7.11 TC_FT_NG1.N.11 Call deflection (external or internal) tests cases

Test subgroup objectives: to check the IUT's behaviours regarding Call deflection (external or internal) with the following consideration:

• As NG1.N.11_3 "Call deflection control messages" procedure is tested when testing NG1.N.11_1 "Call deflection (internal)" procedure and NG1.N.11_2 "Call deflection (external)" procedure, there is no test case defined for this procedure.

Declarations (see Annex A):

 NG1.N.11 "Call deflection (external or internal)" feature is optional on FP side, so the manufacturer shall declare if it is supported. • NG1.N.11_1 "Call deflection (internal)" procedure is mandatory on FP side but it only makes sense if NG1.N.14 "Multiple lines" procedure is declared.

TC_FT_NG1.N.11_BV_101	Call deflection (internal) in multiple lines context
Reference:	TS 102 527-3 [14], Clause 7.4.4.2
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2),
	PP1 is attached to line 0, PP2 is attached to line 1,
	F-00
Stimulus:	Perform an incoming call on line 0 towards IUT from Phone A
	2. Send a {CC-ALERTING} message from TS_1
	Wait for 3 seconds before sending a {CC-INFO} message with IE <<
	MULTI-KEYPAD >> set to (1CH, 39H, 17H, Terminal id of PP2) digits and with IE
	< <call-information>> specifying (call id a) =<(1, 0, value a)> from TS_1</call-information>
	3. Send a {CC-RELEASE-COM} message from TS_1
	4. Send a {CC-ALERTING} message from TS_2
Pass criteria:	Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <call-information>> specifying (line 0, line type information, call id a, CS call</call-information>
	setup) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value a), (2, 1, 1)>
	Verify that the IUT does not send to TS_2 a {CC-SETUP} message
	2. Verify that the IUT optionally sends to TS_1 a {CC-INFO} message with IE
	< <call-information>> specifying (call id a, CS idle) =<(1, 0, value a), (2, 1, 0)>,</call-information>
	and then mandatorily sends to TS_1 a {CC-RELEASE} message
	3. Verify that the IUT sends to TS_2 a {CC-SETUP} message with IE
	< <call-information>> specifying (line 0, line type information, call id a, CS call</call-information>
	setup) =<(0, 0, 0), (0, 5, lt0), (1, 0, value a), (2, 1, 1)>
Comments:	Although PP2 is only attached to line 1, it may receive a call from line 0 as a result of call
	deflection

TC_FT_NG1.N.11_BV_201	Call deflection (external) - first incoming call deflection
Reference:	TS 102 527-3 [14], Clause 7.4.4.2
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2),
	PP1 and PP2 attached to line 0
	F-00
Stimulus:	1. Switch on IUT
	2. Perform an incoming call on line 0 towards IUT from Phone A
	3. Send a {CC-ALERTING} message from TS_1
	Send a {CC-ALERTING} message from TS_2
	Wait for 3 seconds before sending a {CC-INFO} message with IE <<
	MULTI-KEYPAD >> set to (1CH, 39H, 15H, Phone B number) digits and with IE
	< <call-information>> specifying (call id a) =<(1, 0, value a)> from TS_1</call-information>
	4. Send a {CC-RELEASE-COM} message from TS_1
	Send a {CC-RELEASE-COM} message from TS_2
Pass criteria:	1. Verify that "Call deflection" higher layer capability bit is set to 1 (= Extended higher layer capabilities (part 2) a31 bit)
	2. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <call-information>> specifying (line 0, line type information, call id a, CS call</call-information>
	setup) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value a), (2, 1, 1)>
	Verify that the IUT sends to TS_2 a {CC-SETUP} message with IE
	< <call-information>> specifying (line 0, line type information, call id b, CS call</call-information>
	setup) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value b), (2, 1, 1)>
	3. Verify that the IUT optionally sends to TS_1 a {CC-INFO} message with IE
	< <call-information>> specifying (call id a, CS idle) =<(1, 0, value a), (2, 1, 0)>,</call-information>
	and then mandatorily sends to TS_1 a {CC-RELEASE} message
	Verify that the IUT optionally sends to TS_2 a {CC-INFO} message with IE
	< <call-information>> specifying (call id b, CS idle) =<(1, 0, value b), (2, 1, 0)>,</call-information>
	and then mandatorily sends to TS_2 a {CC-RELEASE} message
	4. Verify that Phone B rings
Comments:	 Call deflection request impacts all PPs receiving the incoming call (all stop ringing)
	- Call id a and call id b may be equal or different (per-PP call ids on external
	incoming call)
	I mooning can

TC_FT_NG1.N.11_BV_202	Call deflection (external) - call waiting deflection
Reference:	TS 102 527-3 [14], Clause 7.4.4.2
Initial condition:	External call in F-10 (TS_1+IUT) initiated by TS_1 on line 0 (call id a) with Phone A
Stimulus:	Perform an incoming external call towards IUT from Phone B on line 0
	2. Wait for 3 seconds before sending a {CC-INFO} message with IE <<
	MULTI-KEYPAD >> set to (1CH, 39H, 15H, Phone C number) digits and with IE
	< <call-information>> specifying (call id b) =<(1, 0, value b)> from TS_1</call-information>
Pass criteria:	1. Verify that the IUT sends to TS_1 in the same or different {CC-INFO} messages:
	 an IE <<signal>> with the value 07H indicating 'call waiting tone on' when declared (see Annex A, Table A.26)</signal>
	 an IE <<calling number="" party="">> with <calling address="Phone" b<br="" party="">number></calling></calling>
	 an IE <<call-information>> specifying (line 0, line type information, call id b, CS call setup) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value b), (2, 1, 1)></call-information>
	when sent in different messages, call status indication shall always be sent in the first used {CC-INFO} message, and call identifier shall be sent within all
	messages
	2. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
	<call-information>> specifying (call id b, CS idle) =<(1, 0, value b), (2, 1, 0)> Verify that Phone C rings</call-information>

7.12 TC_FT_NG1.N.12 Line identification tests cases

Test subgroup objectives: to check the IUT's behaviours regarding line identification with the following considerations:

- NG1.N.12_3 "Line identification for a first external outgoing call using <<CALL-INFORMATION>> IE" procedure in {CC-SETUP} message is tested with NG1.N.13_2 "Call identifier assignment on outgoing call (FP to PP)" procedure.
- NG1.N.12_6 "General line identification requirements for external incoming calls" and NG1.N.12_7 "Line identification for a first external incoming call" procedures are tested with NG1.N.7_2 "Call waiting indication (external or internal)" and NG1.N.13_3 "Call identifier assignment on incoming call (FP to PP)" procedures.
- No backward compatibility tests in front of a GAP PP are foreseen as these tests will be done when running EN 300 444 [12] tests.

Declarations (see Annex A):

- Following behaviours and corresponding test cases are exclusive:
 - FP implements 'non early CC-CONNECT': TC_FT_NG1.N.12_BV_301, TC_FT_NG1.N.12_GC_401, TC_FT_NG1.N.12_BV_501.
 - FP implements 'early CC-CONNECT': TC_FT_NG1.N.12_BV_302, TC_FT_NG1.N.12_GC_402, TC_FT_NG1.N.12_BV_502.

TC_FT_NG1.N.12_BV_301	Line identification for a first external outgoing call using < <call-information>> IE in</call-information>
	{CC-INFO} (non early CC-CONNECT implementation)
Reference:	TS 102 527-3 [14], Clause 7.4.5.2.2
Initial condition:	F-00
Stimulus:	1. Send a {CC-SETUP} message with IE < <basic-service>> 'Normal call setup'</basic-service>
Surridius.	from TS 1
	1a. Send a <start fields="0" identifier="08H," list="" nb="" of="" session,="" sorting=""> from TS_1</start>
	1b. Send a <read counter="2," direction="0," entries,="" id="n," index="1," mark<="" session="" start="" td=""></read>
	entries request= 00H, list entry field identifier 1n =01H, 02H, 08H> from TS_1
	1c. Send a <end id="n" session="" session,=""> from TS 1</end>
	2. Send a {CC-INFO} message with IE < <multi-keypad>> set to Phone A number</multi-keypad>
	and IE < <call-information>> specifying (line 0, call id a) =<(0, 0, lid0), (1, 0,</call-information>
	value a)> from TS 1
	3. Send a {CC-RELEASE} message from TS_1
	4. Send a {CC-RELEASE} message nom 13_1 4. Send a {CC-SETUP} message with IE < <basic-service>> 'Normal call setup'</basic-service>
	from TS_1
	5. Send a {CC-INFO} message with IE < <call-information>> specifying (line 0,</call-information>
	call id b) =<(0, 0, lid0), (1, 0, value b)>, followed by a {CC-INFO} message with IE
	< <multi-keypad>> set to Phone A number and IE <<call-information>></call-information></multi-keypad>
	specifying (call id b) =<(1, 0, value b)> from TS_1
	6. Send a {CC-RELEASE} message from TS_1
Pass criteria:	Verify that the IUT sends to TS_1 a {CC-SETUP-ACK} message with IE
	< <call-information>> specifying (call id a, CS call setup ack) =<(1, 0, value a),</call-information>
	(2, 1, 2)> and verify that this {CC-SETUP-ACK} message does not contain a line
	identifier
	1a. Verify that the IUT sends to TS_1 a <start confirm,="" id="n," nb="m,</td" session="" total=""></start>
	discriminator type=0 or 1, nb of sorting fields =1,sorting field id1 =2>
	1b. Verify that the IUT sends to TS_1 a < Read entries confirm, session id=n> followed
	by <data data="" last="" packet=""> with entry content (at least for line 0)</data>
	1c. Verify that the IUT sends to TS_1 a <end confirm,="" id="n" session=""></end>
	2. Verify that the IUT sends a {CC-INFO} message with IE < <call-information>></call-information>
	specifying (line 0, line type information, call id a) =<(0, 0, lid0), (0, 5, lt0), (1, 0,
	value a)>
	Verify that IUT sends to TS_1 a {CC-ALERTING} message with IE
	< <call-information>> specifying (call id a, CS call alerting) =<(1, 0, value a),</call-information>
	(2, 1, 4)>, or, if it is not the case, that Phone B rings
	3. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
	4. Verify that the IUT sends to TS_1 a {CC-SETUP-ACK} message with IE
	< <call-information>> specifying (call id b, CS call setup ack) =<(1, 0, value b),</call-information>
	(2, 1, 2)>
	5. Verify that the IUT sends a {CC-INFO} message with IE < <call-information>></call-information>
	specifying (line 0, line type information, call id b) $=<(0, 0, \text{lid0}), (0, 5, \text{lt0}), (1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,$
	value b)>
	Verify that IUT sends to TS_1 a {CC-ALERTING} message with IE
	< <call-information>> specifying (call id b, CS call alerting) =<(1, 0, value a),</call-information>
	(2, 1, 4)>, or, if it is not the case, that Phone A rings.
	6. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
Comments:	The FP call identifier assignment method is left free to implementation; 'call id a' will be
	equal to 'call b' if IUT implements the "no re-use method"

TC_FT_NG1.N.12_BV_302	Line identification for a first external outgoing call using < <call-information>> IE in</call-information>
	{CC-INFO} (early CC-CONNECT implementation)
Reference:	TS 102 527-3 [14], Clause 7.4.5.2.2
Initial condition:	F-00
Stimulus:	 Send a {CC-SETUP} message with IE <<basic-service <lia="" =="" service="" setup,<br="">Wideband speech default setup attributes> >> from TS_1</basic-service>
	 1a. Send a <start fields="0" identifier="08H," list="" nb="" of="" session,="" sorting=""> from TS_1</start> 1b. Send a <read 02h,="" 08h="" 1n="01H," counter="2," direction="0," entries="" entries,="" entry="" field="" id="n," identifier="" index="1," list="" mark="" request="00H," session="" start=""> from TS_1</read> 1c. Send a <end id="n" session="" session,=""> from TS_1</end>
	2. Send a {CC-INFO} message with IE < <multi-keypad>> set to 1CH, 15H digits together with Phone A number and IE <<call-information>> specifying (line 0) =<(0, 0, lid0)> from TS_1</call-information></multi-keypad>
	3. Send a {CC-RELEASE} message from TS_1
	4. Send a (CC-SETUP) message with IE < <basic-service>> 'Normal call setup' from TS_1</basic-service>
	5. Send a {CC-INFO} message with IE < <call-information>> specifying (line 0, call id b) =<(0, 0, lid0), (1, 0, value b)>, followed by a {CC-INFO} message with IE <<multi-keypad>> set to Phone A number and IE <<call-information>> specifying (call id b) =<(1, 0, value b)> from TS_1</call-information></multi-keypad></call-information>
	6. Send a {CC-RELEASE} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-CALL-PROC} message
i ass Ulicha.	 1a. Verify that the IUT sends to TS_1 a <start 1,="" confirm,="" discriminator="" field="" fields="1,sorting" id="n," id1="2" nb="" of="" or="" session="" sorting="" total="" type="0"></start>
	1b. Verify that the IUT sends to TS_1 a < Read entries confirm, session id=n> followed by <data data="" last="" packet=""> with entry content (at least for line 0)</data>
	 1c. Verify that the IUT sends to TS_1 a <end confirm,="" id="n" session=""></end> 2. Verify that the IUT sends a {CC-CONNECT} message, followed by a {CC-INFO} message with IE <<call-information>> specifying at least (line 0, line type</call-information>
	information, call id a) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value a)> Verify that IUT sends to TS_1 a {CC-INFO} message with IE < <call-information>> specifying (call id a, CS call alerting) =<(1, 0, value a),</call-information>
	(2, 1, 4)>, or, if it is not the case, that Phone A rings.
	3. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
	4. Verify that the IUT sends to TS_1 a {CC-CONNECT} message with IE
	< <call-information>> specifying (call id b) =<(1, 0, value b)> followed by a {CC-INFO} message with IE <<call-information>> specifying (call id b, CS call</call-information></call-information>
	setup ack) =<(1, 0, value b), (2, 1, 2)> 5. Verify that the IUT sends a {CC-INFO} message with IE < <call-information>> specifying (line 0, line type information, call id b) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value</call-information>
	b)> Verify that IUT sends to TS_1 a {CC- INFO} message with IE
	< <call-information>> specifying (call id b, CS call alerting) =<(1, 0, value b), (2, 1, 4)>, or, if it is not the case, that Phone A rings.</call-information>
	6. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
Comments:	Steps 1-3 simulate a call by call line selection using the line settings list.
	The FP call identifier assignment method is left free to implementation; 'call id a' will be equal to 'call b' if IUT implements the "no re-use method"

TC_FT_NG1.N.12_GC_401	Backward-compatible line identification for a first external outgoing call using
	< <multi-keypad>> IE (non early CC-CONNECT implementation)</multi-keypad>
Reference:	TS 102 527-3 [14], Clause 7.4.5.2.3
Initial condition:	TS_1 is a GAP PP1
	F-00
Stimulus:	Send a {CC-SETUP} message with IE < <basic-service>> 'Normal call setup' from TS_1</basic-service>
	 Send a (CC-INFO) message with IE <<multi-keypad>> set to ("#lid0" + Phone A number) digits from TS_1</multi-keypad>
	3. Send a {CC-RELEASE} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-SETUP-ACK} message
	 Verify that IUT sends to TS_1 a {CC-ALERTING} message, or, if it is not the case, that Phone A rings.
	3. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
Comments:	In stimulus 2, "#lid0" stands for 2 octets: (23H, 30H+ lid0). Where lid0 is the value
	declared in FT_IXIT_20

TC_FT_NG1.N.12_GC_402	Backward-compatible line identification for a first external outgoing call using
	< <multi-keypad>> IE (early CC-CONNECT implementation)</multi-keypad>
Reference:	TS 102 527-3 [14], Clause 7.4.5.2.3
Initial condition:	TS_1 is a GAP PP1
	F-00
Stimulus:	 Send a {CC-SETUP} message with IE <<basic-service>> 'Normal call setup' from TS_1</basic-service>
	 Use the piece-wise method to send ("#lid0"+Phone A number) digits in several {CC-INFO} messages with IE <<keypad>> from TS_1</keypad> Send a {CC-RELEASE} message from TS_1
Pass criteria:	 Verify that the IUT sends to TS_1 a {CC-CONNECT} message Verify that Phone A rings Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
Comments:	 In stimulus 2, "#lid0" stands for 2 octets: (23H, 30H+ lid0). Where lid0 is the value for line 0 declared in FT_IXIT_20 In stimulus 2, TS_1 shall send: "#lid0" in a first CC-INFO then each digit of the phone A number in a separate CC-INFO

TC_FT_NG1.N.12_BV_501	FP managed line selection for a first external outgoing call (non early CC-CONNECT
	implementation)
Reference:	TS 102 527-3 [14], Clause 7.4.5.2.4
Initial condition:	F-00
Stimulus:	 Send a {CC-SETUP} message with IE <<basic-service>> 'Normal call setup' and IE <<call-information>> specifying (line None) =<(0, 0, 127)> from TS_1</call-information></basic-service> Send a {CC-INFO} message with IE <<multi-keypad>> set to Phone A number</multi-keypad>
	and IE < <call-information>> specifying (call id a) =<(1, 0, value a)> from TS_1 3. Send a {CC-RELEASE} message from TS_1</call-information>
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-SETUP-ACK} message with IE
rass ciliena.	<call-information>> specifying at the minimum (call id a, CS call setup ack) =<(1, 0, value a), (2, 1, 2)> and possibly (line u, line type information u) =<(0, 0, value u), (0, 5, tu)></call-information>
	 If line id was not received in step 1 then verify that the IUT sends to TS_1 either: a {CC-INFO} message with IE <<call-information>> specifying (line u, line type information, call id a) =<(0, 0, line u), (0, 5, ltu), (1, 0, value a) ></call-information>
	or
	 a {CC-CALL-PROC} message with IE <<call-information>> specifying (line u, line type information, call id a, CS call proc) =<(0, 0, line u), (0, 5, ltu), (1, 0, value a), (2, 1, 3)></call-information>
	Verify that IUT sends to TS_1 a {CC-ALERTING} message with IE
	< <call-information>> specifying (call id a, CS call alerting) =<(1, 0, value a), (2, 1, 4)>, or, if it is not the case, that Phone A rings.</call-information>
	3. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
Comments:	The FP call identifier assignment method is left free to implementation; 'call id a' will be
	equal to 'call b' if IUT implements the "no re-use method"
	Any line can be selected by the IUT

E>> 'Normal call setup' and), 0, 127)> from TS_1 > set to Phone A number
<(1, 0, value a)> from TS_1
MATION>> specifying at
NFORMATION>> specifying , (2, 1, 2)>
or {CC-INFO} possibly ue u), (0, 5, lt u)> in the
nds to TS_1 a {CC-INFO} t least (line u, line type value a)> IE lerting) =<(1, 0, value a), } message
entation; 'call id a' will be
, ,

7.13 TC_FT_NG1.N.13 Call identification tests cases

Test subgroup objectives: to check the IUT's behaviours regarding call identification with the following consideration:

- NG1.N.13_1 "Call identification general requirements" and NG1.N.13_4 "Call status indication to the handset (FP to PP)" procedures are tested with NG1.N.13_2 "Call identifier assignment on outgoing call (FP to PP)" and NG1.N.13_3 "Call identifier assignment on incoming call (FP to PP)" procedures.
- No backward compatibility tests in front of a GAP PP are foreseen as these tests will be done when running EN 300 444 [12] tests.
- No backward compatibility tests in front of a NG-DECT PART1 PP are foreseen as these tests will be done when running NG-DECT PART1 backward compatibility tests (see TC_FT_NG1.N.1_WC_* TCs).

Declarations (see Annex A):

Following behaviours and corresponding test cases are exclusive:

- FP implements 'non early CC-CONNECT': TC_FT_NG1.N.13_BV_201.
- FP implements 'early CC-CONNECT':TC_FT_NG1.N.13_BV_202.

TC_FT_NG1.N.13_BV_201	Call identifier assignment on outgoing call (FP to PP) - Normal call (non early
	CC-CONNECT implementation) - Call status indication
Reference:	TS 102 527-3 [14], Clauses 7.4.6.1, 7.4.6.2 and 7.4.6.4
Initial condition:	F-00
Stimulus:	1. Send a {CC-SETUP} message with IE < <basic-service>> 'Normal call setup' and IE <<call-information>> specifying (line 0) =<(0, 0, lid0)> from TS_1</call-information></basic-service>
	2. Send a {CC-INFO} message with IE < <multi-keypad>> set to Phone A number and IE <<call-information>> specifying (call id a) =<(1, 0, value a)> from TS_1</call-information></multi-keypad>
	3. Call pick up on Phone A
Dana aritaria.	4. Send a {CC-RELEASE} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-SETUP-ACK} message with IE < <call-information>> specifying (line 0, line type information, call id a, CS call setup ack) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value a), (2, 1, 2)></call-information>
	2. Verify that IUT sends to TS_1 a {CC-ALERTING} message with IE
	<call-information>> specifying (call id a, CS call alerting) =<(1, 0, value a), (2, 1, 4)>, or, if it is not the case, that Phone A rings.</call-information>
	3. Verify that the IUT sends to TS_1 a {CC-CONNECT} message with IE
	< <call-information>> specifying (call id a, CS call connect) =<(1, 0, value a), (2, 1, 5)></call-information>
	Verify end-to-end U-plane connection between TS_1 and Phone A
	4. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
Comments:	FP can send {CC-CALL-PROC} with 'CS call proc' call status before {CC-ALERTING} in
	step 2

TC_FT_NG1.N.13_BV_202	Call identifier assignment on outgoing call (FP to PP) - Normal call (early CC-CONNECT
	implementation) - Call status indication
Reference:	TS 102 527-3 [14], Clauses 7.4.6.1 and 7.4.6.2
Initial condition:	F-00
Stimulus:	1. Send a {CC-SETUP} message with IE < <basic-service>> 'Normal call setup' and IE <<call-information>> specifying (line 0) =<(0, 0, lid0)> from TS_1</call-information></basic-service>
	 Send a {CC-INFO} message with IE <<multi-keypad>> set to Phone A number and IE <<call-information>> specifying (call id a) =<(1, 0, value a)> from TS_1</call-information></multi-keypad>
	3. Call pick up on Phone A
	4. Send a {CC-RELEASE} message from TS_1
Pass criteria:	 Verify that the IUT sends to TS_1 in the first {CC-INFO} or {CC-CONNECT} message received an IE <<call-information>> specifying at least (call id a) =<(1, 0, value a)></call-information>
	Verify that all subsequent received messages (i.e. {CC-CONNECT} if not already received, and {CC-INFO} for 'CS call setup ack', 'CS call proc' if any) specify the same value call id a.
	2. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE < <call-information>> specifying (CS call alerting) =< (2, 1, 4)>, or, if it is not the case, that Phone A rings</call-information>
	the case, that Phone A rings. 3. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
	< <call-information>> specifying (call id a, CS call connect) =<(1, 0, value a),</call-information>
	(2, 1, 5)>Verify end-to-end U-plane connection between TS_1 and Phone A
	4. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
Comments:	FP can send also 'CS call proc' with the call identifier before 'CS call alerting' in step 2

Initial condition: 2 PP Stimulus: 1.	02 527-3 [14], Clauses 7.4.6.1 and 7.4.6.2 s registered (TS_1 is NG PP1, TS_2 is NG PP2), F-00 Send a {CC-SETUP} message with IE < <basic-service>> 'Internal call setup'</basic-service>
Stimulus: 1.	
	Send a {CC-SETUP} message with IE < <basic-service>> 'Internal call setup'</basic-service>
	from TS_1
	Send a {CC-INFO} message with IE < <multi-keypad>> set to terminal Id of PP2</multi-keypad>
	and IE < <call-information>> specifying (call id a) =<(1, 0, value a)> from TS_1</call-information>
	Send a {CC-ALERTING} message from TS_2
	Send a {CC-CONNECT} message from TS_2
	Send a {CC-RELEASE} message from TS_1
	Send a {CC-RELEASE-COM} message from TS_2
Pass criteria: 1.	Verify that the IUT sends to TS_1:
-	(for non-early CC-CONNECT implementations) a {CC-SETUP-ACK} message
	with IE < <call-information>> specifying (call id a, CS call setup ack) =<(1,</call-information>
	0, value a), (2, 1, 2)>
-	(for early CC-CONNECT implementations) a {CC-CONNECT} message with IE
	< <call-information>> specifying (call id a) =<(1, 0, value a)> followed by a</call-information>
	(CC-INFO) message with IE < <call-information>> specifying (call id a, CS</call-information>
	call setup ack) =<(1, 0, value a), (2, 1, 2)>
	Verify that the IUT sends to TS_2 a {CC-SETUP} message with IE < <basic-service>> 'Internal call setup' and IE <<call-information>></call-information></basic-service>
	specifying (call id a, CS call setup) =<(1, 0, value a), (2, 1, 1)>
	Verify that the IUT sends to TS_2 a {CC-CONNECT-ACK} message, followed by a
	{CC-INFO} message with IE < <call-information>> specifying (call id a, CS call</call-information>
	connect) =<(1, 0, value a), (2, 1, 5)>
	Verify that the IUT sends to TS_1:
_	(for non-early CC-CONNECT implementations) a {CC-CONNECT} message with
	IE < <call-information>> specifying (call id a, CS call connect) =<(1, 0,</call-information>
	value a), (2, 1, 5)>
_	(for early CC-CONNECT implementations) a {CC-INFO} message with IE
	< <call-information>> specifying (call id a, CS call connect) =<(1, 0,</call-information>
	value a), (2, 1, 5)>
	Verify end-to-end U-plane connection between TS_1 and TS_2
4.	Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
	Verify that the IUT sends to TS_2 a {CC-RELEASE} message
	None
	nay send to TS_1 the "CS call proc" and/or "CS call alerting" call statuses with the call
ident	ifier before 'CS call connect' in step 3

TC_FT_NG1.N.13_BV_204	Call identifier assignment on outgoing call (FP to PP) - LiA service setup - Call status
	indication for outgoing external call
Reference:	TS 102 527-3 [14], Clause 7.4.10.6.2
Initial condition:	F-00
Stimulus:	 Send a {CC-SETUP} message from TS_1 with IE <<basic-service <lia="" =="" service<br="">setup, Wideband speech default setup attributes> >></basic-service>
	1a. Send a <start fields="0" identifier="01H," list="" nb="" of="" session,="" sorting=""> from TS_1</start>
	 Send a {CC-INFO} message from TS_1 with IE <<multi-keypad>> set to 1CH 15H digits together with Phone A number and IE <<call-information>></call-information></multi-keypad>
	specifying (line 0) = $<$ (0, 0, lid0) >
	3. Call pick up on Phone A
	4. Send a {CC-RELEASE} message from TS_1
Pass criteria:	 Verify that the IUT sends to TS_1 a {CC-CALL-PROC} message with possibly an IE <<codec-list>> selecting one codec</codec-list>
	1a. Verify that the IUT sends to TS_1 a <start confirm,="" id="n," nb="t" session="" total=""></start>
	2. Verify that the IUT sends to TS_1 a {CC-CONNECT} message with an IE
	< <codec-list>> selecting one codec (if the codec was not already selected in step 1), followed by a {CC-INFO} message to TS_1 with IE</codec-list>
	< <call-information>> specifying at least (line 0, line type information, call id a) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value a)></call-information>
	Verify that IUT sends to TS_1 a {CC-INFO} message with IE
	< <call-information>> specifying (call id a, CS call alerting) =<(1, 0, value a),</call-information>
	(2, 1, 4)>, or, if it is not the case, that Phone A rings.
	3. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE < <call-information>> specifying (call id a, CS call connect) =<(1, 0, value a),</call-information>
	(2, 1, 5)>
	Verify end-to-end U-plane connection between TS_1 and Phone A
	4. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
Comments:	FP can send {CC-INFO} with 'CS call proc' call status before {CC-INFO} with 'CS call
	alerting' call status in step 2

TC_FT_NG1.N.13_BV_205	Call identifier assignment on outgoing call (FP to PP) - LiA service setup - Call status
	indication for internal call
Reference:	TS 102 527-3 [14], Clause 7.4.10.6.2
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2), F-00
Stimulus:	1. Send a {CC-SETUP} message from TS_1 with IE < <basic-service <lia="" =="" service<="" td=""></basic-service>
	setup, Wideband speech default setup attributes> >>
	2. Send a {CC-INFO} message from TS_1 with IE < <multi-keypad>> set to (17H, terminal Id of PP2) digits</multi-keypad>
	3. Send a {CC-ALERTING} message from TS_2
	Send a {CC-CONNECT} message from TS_2
	4. Send a (CC-RELEASE) message from TS_2
	5. Send a (CC-RELEASE) message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-CALL-PROC} message
	2. Verify that the IUT sends to TS_1 a {CC-CONNECT} message followed by a
	{CC-INFO} message to TS_1 with IE < <call-information>> specifying at least (call id a) =<(1, 0, value a)></call-information>
	Verify that the IUT sends to TS_2 a {CC-SETUP} message with IE
	< <básic-service>> 'Internal call setup' and IÉ <<call-information>></call-information></básic-service>
	specifying (call id a, CS call setup) =<(1, 0, value a), (2, 1, 1)>
	3. Verify that the IUT sends to TS_2 a {CC-CONNECT-ACK} message, followed by a
	{CC-INFO} message with IE < <call-information>> specifying (call id a, CS call</call-information>
	connect) =<(1, 0, value a), (2, 1, 5)>
	Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
	< <call-information>> specifying (call id a, CS call connect) =<(1, 0, value a),</call-information>
	(2, 1, 5)>Verify end-to-end U-plane connection between TS_1 and TS_2
	4. Verify that the IUT sends to TS_2 a {CC-RELEASE-COM} message
	5. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
Comments:	FP may send "CS call proc" and "CS call alerting" with the call identifier before 'CS call
	connect' in step 3

TC_FT_NG1.N.13_BV_301	Call identifier assignment on incoming call (FP to PP) - Normal call setup
Reference:	TS 102 527-3 [14], Clauses 7.4.6.3, 7.4.6.4 and 7.4.5.3
Initial condition:	F-00
Stimulus:	Perform an incoming call on line 0 towards IUT from Phone A
	Send a {CC-ALERTING} message from TS_1, followed by a {CC-CONNECT} message 1 second later
	3. Send a {CC-RELEASE} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <call-information>> specifying (line 0, line type information, call id a, CS call setup) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value a), (2, 1, 1)></call-information>
	2. Verify that the IUT sends to TS_1 a {CC-CONNECT-ACK} message followed by a
	(CC-INFO) message with IE < <call-information>> specifying (call id a, CS call</call-information>
	connect) =<(1, 0, value a), (2, 1, 5)>
	3. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message

TC_FT_NG1.N.13_BV_302	Call identifier assignment on incoming call (FP to PP) - LiA service setup - Call status
	indication for incoming external call
Reference:	TS 102 527-3 [14], Clause 7.4.10.6.3
Initial condition:	F-00
Stimulus:	 Send a {CC-SETUP} message from TS_1 with IE <<basic-service <lia="" =="" service<br="">setup, Wideband speech default setup attributes> >></basic-service>
	1a. Send a <start fields="0" identifier="01H," list="" nb="" of="" session,="" sorting=""> from TS_1</start>
	Perform an incoming call on line 0 towards IUT from Phone A
	3. Send a {CC-INFO} message from TS_1 with IE << MULTI-KEYPAD >> set to (1CH,
	35H) digits and with IE < <call-information>> specifying (call id a) =<(1, 0, value a)></call-information>
	4. Send a (CC-RELEASE) message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-CALL-PROC} message
	1a. Verify that the IUT sends to TS_1 a <start confirm,="" id="n," nb="t" session="" total=""></start>
	2. Verify that the IUT sends to TS_1 a {CC-CONNECT} message followed by in the
	same or different {CC-INFO} messages:
	 an IE <<signal>> with the value 07H indicating 'call waiting tone on' when declared (see Annex A, Table A.26)</signal>
	an IE < <calling number="" party="">> with <calling a<="" address="Phone" party="" th=""></calling></calling>
	number>
	 an IE <<call-information>> specifying (line 0, line type information, call id a, CS call setup) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value a), (2, 1, 1)></call-information>
	when sent in different messages, call status indication shall always be sent in the first used {CC-INFO} message, and call identifier shall be sent within all messages
	3. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
	<call-information>> specifying (call id a, CS call connect) =<(1, 0, value a),</call-information>
	(2, 1, 5)>
	Verify end-to-end U-plane connection between TS_1 and Phone A
	4. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message

7.14 TC_FT_NG1.N.14 Multiple lines tests cases

Test subgroup objectives: to check the IUT's behaviours regarding multiple lines with the following considerations:

- NG1.N.14_1 "Multiple lines general requirements" procedure requires that FP implements NG1.N.7 "Common parallel call procedures (external or internal)" feature. So there is no test case defined for this procedure which is tested implicitly when testing "NG1.N.7 Common parallel call procedures (external or internal)" feature.
- NG1.N.14_2 "Terminal attachment and line settings" procedure is tested when testing NG1.N.16_25 "Line settings list" procedure and NG1.N.16_40 "Attached handsets" procedure.
- NG1.N.14_5 "compatibility with non multiple line PP or FP" procedure is not tested as is this procedure is tested when testing the NG1.N.12 "Line identification" feature and when running EN 300 444 [12] tests.

Declarations (see Annex A):

- NG1.N.14 "Multiple lines" feature is optional on FP side, so the manufacturer shall declare if it is supported.
- When NG1.N.22 "Handling of lines where second calls are signalled in-band" feature is supported on a line, the manufacturer shall declare if the following procedure is supported within this line: call release and call release rejection.

Following behaviours and corresponding test cases are exclusive:

- FP implements 'non early CC-CONNECT': TC_FT_NG1.N.14_BV_305.
- FP implements 'early CC-CONNECT':TC_FT_NG1.N.14_BV_306.

TC_FT_NG1.N.14_BV_301	Incoming external calls on a multiple line system - Incoming calls on two lines with no active PPs
Reference:	TS 102 527-3 [14], Clause 7.4.7.3
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2),
	PP1 is attached to line 0, PP2 is attached to line 1,
	F-00
Stimulus:	Perform an incoming call on line 0 towards IUT from Phone A
	2. Send a {CC-ALERTING} message from TS_1
	Perform an incoming call on line 1 towards IUT from Phone B
	3. Send a {CC-ALERTING} message from TS_2
	Send a {CC-CONNECT} message from TS_1
	4. Send a {CC-CONNECT} message from TS_2
	5. Send a {CC-RELEASE} message from TS_1
	6. Send a {CC-RELEASE} message from TS_2
Pass criteria:	Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <call-information>> specifying (line 0, line type information, call id a, CS call</call-information>
	setup) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value a), (2, 1, 1)>
	Verify that the IUT does not send to TS_2 a {CC-SETUP} message
	2. Verify that the IUT does not send to TS_1 a {CC-SETUP} message
	Verify that the IUT sends to TS_2 a {CC-SETUP} message with IE
	< <call-information>> specifying (line 1, line type information, call id b, CS call</call-information>
	setup) =<(0, 0, lid1), (0, 5, lt1), (1, 0, value b), (2, 1, 1)>
	3 Verify that the IUT sends to TS_1 a {CC-CONNECT-ACK} message followed by a
	{CC-INFO} message with IE < <call-information>> specifying (call id a, CS call</call-information>
	connect) =<(1, 0, value a), (2, 1, 5)>
	Verify end-to-end U-plane connection between TS_1 and Phone A
	4 Verify that the IUT sends to TS_2 a {CC-CONNECT-ACK} message followed by a
	{CC-INFO} message with IE < <call-information>> specifying (call id b, CS call</call-information>
	connect) =<(1, 0, value b), (2, 1, 5)> Verify end-to-end U-plane connection between TS_2 and Phone B
	5. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message6. Verify that the IUT sends to TS_2 a {CC-RELEASE-COM} message

TC_FT_NG1.N.14_BV_302	Incoming external calls on a multiple line system - Incoming call with one active PP -
	Accept second call on idle PP and release it
Reference:	TS 102 527-3 [14], Clause 7.4.7.3
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2),
	PP1 is attached to line 0 and line 1, PP2 is attached to line 1,
	External call in F-10 (TS_1+IUT) initiated by PP1 on line 0 (call id a) with Phone A
Stimulus:	1. Perform an incoming call on line 1 towards IUT from Phone B
	2. Send a {CC-ALERTING} message followed by a {CC-CONNECT} from TS_2
	3. Send a (CC-RELEASE) message from TS_2
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
	< <call-information>> specifying (line 1, line type information, call id b, CS call</call-information>
	setup) =<(0, 0, lid1), (0, 5, lt0), (1, 0, value b), (2, 1, 1)>
	Verify that the IUT sends to TS_2 a {CC-SETUP} message with IE
	< <call-information>> specifying (line 1, line type information, call id c, CS call</call-information>
	setup) =<(0, 0, lid1), (0, 5, lt1), (1, 0, value c), (2, 1, 1)>
	2. Verify that the IUT sends to TS_2 a {CC-CONNECT-ACK} message followed by a
	{CC-INFO} message with IE < <call-information>> specifying (call id b, CS call</call-information>
	connect) =<(1, 0, value c), (2, 1, 5)>
	Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
	< <call-information>> specifying (call id b, CS idle) =<(1, 0, value c), (2, 1, 0)></call-information>
	Verify end-to-end U-plane connection between TS_2 and Phone B
	3. Verify that the IUT sends to TS_2 a {CC-RELEASE-COM} message
Comments:	 IE <<signal>> with the value 07H indicating 'call waiting' tone is also</signal>
	received by TS_1 in pass criteria 1 if this procedure is supported
	(see Annex A, Table A.26)
	- Call id b and call id c may be equal or different (per-PP call ids on external
	incoming call)

TC_FT_NG1.N.14_BV_303	Incoming external calls on a multiple line system - Incoming call with one active PP -
	Accept second call on active PP and release it - Resume active call
Reference:	TS 102 527-3 [14], Clause 7.4.7.3
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2),
	PP1 is attached to line 0 and line 1, PP2 is attached to line 1,
	External call in F-10 (TS_1+IUT) initiated by PP1 on line 0 (call id a) with Phone A
Stimulus:	1. Perform an incoming call on line 1 towards IUT from Phone B
	2. Send a {CC-ALERTING} message from TS_2
	Send a (CC-INFO) message with 1CH 35H in IE < <multi-keypad>> and IE</multi-keypad>
	< <call-information>> specifying (call id b) =<(1, 0, value b)> from TS_1</call-information>
	3. Send a {CC-RELEASE-COM} message from TS_2
	Send a {CC-INFO} message with 1CH 33H in IE < <multi-keypad>> and IE</multi-keypad>
	< <call-information>> specifying (call id b) =<(1, 0, value b)>from TS_1</call-information>
	4. Send a {CC-INFO} message with 1CH 42H in IE < <multi-keypad>> and IE</multi-keypad>
	< <call-information>> specifying (call id a) =<(1, 0, value a)>from TS_1</call-information>
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
	< <call-information>> specifying (line 1, line type information, call id b, CS call</call-information>
	setup) =<(0, 0, lid1), (0, 5, lt1), (1, 0, value b), (2, 1, 1)>
	Verify that the IUT sends to TS_2 a {CC-SETUP} message with IE
	< <call-information>> specifying (line 1, line type information, call id c, CS call</call-information>
	setup) =<(0, 0, lid1), (0, 5, lt1), (1, 0, value c), (2, 1, 1)>
	2. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
	< <call-information>> specifying (call id a, CS call hold) =<(1, 0, value a), (2, 1,</call-information>
	9)> followed by a {CC-INFO} message with IE < <call-information>> specifying</call-information>
	(call id b, CS call connect) =<(1, 0, value b), (2, 1, 5)>
	Verify that the IUT optionally sends to TS_2 a {CC-INFO} message with IE
	< <call-information>> specifying (call id c, CS idle) =<(1, 0, value c), (2, 1, 0)></call-information>
	and then mandatorily sends to TS_2 a {CC-RELEASE} message
	Verify end-to-end U-plane connection between TS_1 and Phone B
	Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
	< <call-information>> specifying (call id b, CS idle) =<(1, 0, value b), (2, 1, 0)></call-information>
	4. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
	< <call-information>> specifying (call id a, CS call connect) =<(1, 0, value a),</call-information>
	(2, 1, 5)>
Common on to	Verify end-to-end U-plane connection between TS_1 and Phone A
Comments:	- IE < <signal>> with the value 07H indicating 'call waiting' tone is also</signal>
	received by TS_1 in pass criteria 1 if this procedure is supported
	(see Annex A, Table A.26)
	- Call id b and call id c may be equal or different (per-PP call ids on external
	incoming call)

TC_FT_NG1.N.14_BV_304	Incoming external calls on a multiple line system - Two simultaneous incoming calls
Reference:	TS 102 527-3 [14], Clause 7.4.7.3
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2),
	PP1 is attached to line 0 and line 1, PP2 is attached to line 1,
	F-00
Stimulus:	Perform an incoming call on line 0 towards IUT from Phone A
	2. Send a {CC-ALERTING} message from TS_1
	Perform an incoming call on line 1 towards IUT from Phone B
	3. Send a {CC-ALERTING} message from TS_2
	Hang up on Phone A
	4. Send a {CC-RELEASE-COM} message from TS_1
	5. Send a {CC-ALERTING} message from TS_1
	Hang up on Phone B
	6. Send a {CC-RELEASE-COM} message from TS_1
	Send a {CC-RELEASE-COM} message from TS_2
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <call-information>> specifying (line 0, line type information, call id a, CS call</call-information>
	setup) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value a), (2, 1, 1)>
	Verify that the IUT does not send to TS_2 a {CC-SETUP} message
	2. Verify that the IUT does not send to TS_1 a {CC-INFO} message with IE
	< <call-information>> specifying at least (CS call setup) =< (2, 1, 1)></call-information>
	Verify that the IUT sends to TS_2 a {CC-SETUP} message with IE
	< <call-information>> specifying (line 1, line type information, call id b, CS call</call-information>
	setup) =<(0, 0, lid1), (0, 5, lt1), (1, 0, value b), (2, 1, 1)>
	3 Verify that the IUT optionally sends to TS_1 a {CC-INFO} message with IE
	< <call-information>> specifying (call id a, CS idle) =<(1, 0, value a), (2, 1, 0)></call-information>
	and then mandatorily sends to TS_1 a {CC-RELEASE} message
	4. Verify that the IUT send to TS_1 a {CC-SETUP} message with IE
	< <call-information>> specifying (line 1, line type information, call id c, CS call</call-information>
	setup) =<(0, 0, lid1), (0, 5, lt1), (1, 0, value c), (2, 1, 1)>
	5 Verify that the IUT optionally sends to TS_1 a {CC-INFO} message with IE
	< <call-information>> specifying (call id c, CS idle) =<(1, 0, value c), (2, 1, 0)></call-information>
	and then mandatorily sends to TS_1 a {CC-RELEASE} message
	Verify that the IUT optionally sends to TS_2 a {CC-INFO} message with IE
	< <call-information>> specifying (call id b, CS idle) =<(1, 0, value b), (2, 1, 0)></call-information>
	and then mandatorily sends to TS_2 a {CC-RELEASE} message
Comments:	 In pass criterion 2, external incoming call on line 1 is not presented to TS_1
	because call with call with call id a is not yet established. Call is presented
	again in pass criterion 4
	- Call id b and call id c may be equal or different (per-PP call ids on external
	incoming call)

TC_FT_NG1.N.14_BV_305	Outgoing external calls on a multiple line system - Initiate outgoing calls on two lines (non
	early CC-CONNECT implementation)
Reference:	TS 102 527-3 [14], Clause 7.4.7.3
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2),
	PP1 is attached to line 0, PP2 is attached to line 1,
	F-00
Stimulus:	 Send a {CC-SETUP} message with IE <<basic-service>> 'Normal call setup' and IE <<call-information>> specifying (line 0) =<(0, 0, lid0)> from TS_1 Send a {CC-SETUP} message with IE <<basic-service>> 'Normal call setup' and IE <<call-information>> specifying (line 1) =<(0, 0, lid1)> from TS_2</call-information></basic-service></call-information></basic-service> Send a {CC-INFO} message with IE <<multi-keypad>> set to Phone A number and IE <<call-information>> specifying (call id a) =<(1, 0, value a)> from TS_1 Send a {CC-INFO} message with IE <<multi-keypad>> set to Phone B number and IE <<call-information>> specifying (call id b) =<(1, 0, value b)> from TS_2</call-information></multi-keypad></call-information></multi-keypad> Call pick up on Phone A Call pick up on Phone B Send a {CC-RELEASE} message from TS_1
	Send a {CC-RELEASE} message from TS_2
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-SETUP-ACK} message with IE < <call-information>> specifying (line 0, line type information, call id a, CS call setup ack) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value a), (2, 1, 2)> Verify that the IUT sends to TS_2 a {CC-SETUP-ACK} message with IE <<call-information>> specifying (line 1, line type information, call id b, CS call setup ack) =<(0, 0, lid1), (0, 5, lt1), (1, 0, value b), (2, 1, 2)></call-information></call-information>
	2. Verify that IUT sends to TS_1 a {CC-ALERTING} message with IE < <call-information>> specifying (call id a, CS call alerting) =<(1, 0, value a), (2, 1, 4)>, or, if it is not the case, that Phone A rings. Verify that IUT sends to TS_2 a {CC-ALERTING} message with IE <<call-information>> specifying (call id b, CS call alerting) =<(1, 0, value b), (2, 1, 4)>, or, if it is not the case, that Phone B rings.</call-information></call-information>
	 Verify that the IUT sends to TS_1 a {CC-CONNECT} message with IE <<call-information>> specifying (call id a, CS call connect) =<(1, 0, value a), (2, 1, 5)> Verify that the IUT sends to TS_2 a {CC-CONNECT} message with IE <<call-information>> specifying (call id b, CS call connect) =<(1, 0, value b), (2, 1, 5)></call-information></call-information> Verify end-to-end U-plane connection between TS_1 and Phone A Verify end-to-end U-plane connection between TS_2 and Phone B Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message Verify that the IUT sends to TS_2 a {CC-RELEASE-COM} message
Comments:	FP can send {CC-CALL-PROC} with 'CS call proc' call status before {CC-ALERTING} in step 2

TC_FT_NG1.N.14_BV_306	Outgoing external calls on a multiple line system - Initiate outgoing calls on two lines (early CC-CONNECT implementation)
Reference:	TS 102 527-3 [14], Clause 7.4.7.3
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2),
	PP1 is attached to line 0, PP2 is attached to line 1,
	F-00
Stimulus:	1. Send a {CC-SETUP} message with IE < <basic-service>> 'Normal call setup' and IE <<call-information>> specifying (line 0) =<(0, 0, lid0)> from TS_1 Send a {CC-SETUP} message with IE <<basic-service>> 'Normal call setup' and IE <<call-information>> specifying (line 1) =<(0, 0, lid1)> from TS_2</call-information></basic-service></call-information></basic-service>
	2. Send a {CC-INFO} message with IE < <multi-keypad>> set to Phone A number and IE <<call-information>> specifying (call id a) =<(1, 0, value a)> from TS_1 Send a {CC-INFO} message with IE <<multi-keypad>> set to Phone B number and IE <<call-information>> specifying (call id b) =<(1, 0, value b)> from TS_2</call-information></multi-keypad></call-information></multi-keypad>
	3. Call pick up on Phone A Call pick up on Phone B
	4. Send a {CC-RELEASE} message from TS_1
	Send a {CC-RELEASE} message from TS_2
Pass criteria:	1. Verify that the IUT sends to TS_1:
	 a {CC-CONNECT} message with IE <<call-information>> specifying at least (call id a) =<(1, 0, value a)></call-information>
	followed by a {CC-INFO} message with IE < <call-information>> specifying</call-information>
	at least (call id a, CS call setup ack) =<(1, 0, value a), (2, 1, 2)>
	 one of the two previous messages {CC-CONNECT} or {CC-INFO} specifying at
	least (line 0, line type information) = $<(0, 0, \text{lid0}), (0, 5, \text{lt0})>$ in the
	< <call-information>> IE</call-information>
	Verify that the IUT sends to TS_2:
	 a {CC-CONNECT} message with IE <<call-information>> specifying at</call-information>
	least (call id b) =<(1, 0, value b)>
	 followed by a {CC-INFO} message with IE <<call-information>> specifying at least (call id b, CS call setup ack) =<(1, 0, value b), (2, 1, 2)></call-information>
	 one of the two previous messages {CC-CONNECT} or {CC-INFO} specifying at least (line 1, line type information) =<(0, 0, lid1), (0, 5, lt1)> in the <<call-information>> IE</call-information>
	2. Verify that IUT sends to TS_1 a {CC-INFO} message with IE
	< <call-information>> specifying (call id a, CS call alerting) =<(1, 0, value a),</call-information>
	(2, 1, 4)>, or, if it is not the case, that Phone A rings.
	Verify that IUT sends to TS_2 a {CC-INFO} message with IE
	< <call-information>> specifying (call id b, CS call alerting) =<(1, 0, value b),</call-information>
	(2, 1, 4)>, or, if it is not the case, that Phone B rings.
	3. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
	< <call-information>> specifying (call id a, CS call connect) =<(1, 0, value a),</call-information>
	(2, 1, 5)> Verify that the IUT sends to TS_2 a {CC-INFO} message with IE
	< <call-information>> specifying (call id b, CS call connect) =<(1, 0, value b),</call-information>
	(2, 1, 5)>
	4. Verify end-to-end U-plane connection between TS_1 and Phone A
	Verify end-to-end U-plane connection between TS_2 and Phone B
	5. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
	Verify that the IUT sends to TS_2 a {CC-RELEASE-COM} message
Comments:	FP can send also 'CS call proc' with the call identifier before 'CS call alerting' in step 2

TC_FT_NG1.N.14_BV_401	Internal calls in multiple line context
Reference:	TS 102 527-3 [14], Clause 7.4.7.4
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2),
	PP1 is attached to line 0, PP2 is attached to line 1,
	F-00
Stimulus:	1 Send a {CC-SETUP} message with IE < <basic-service>> 'Internal call setup'</basic-service>
	2 Send a {CC-INFO} message with IE < <multi-keypad>> set to (IA5 coding of</multi-keypad>
	terminal identity number in decimal of TS_2) digit from TS_1
Pass criteria:	1 Verify that IUT sends to TS_1 a {CC-SETUP-ACK} with IE < <call-< th=""></call-<>
	INFORMATION>> specifying (call id a, CS call setup ack) =<(1, 0, value a), (2, 1,
	2)>, or (for an early {CC-CONNECT} implementation) a {CC-CONNECT} with no call
	status specifying (call id a) =<(1, 0, value a)>
	2 Verify that the IUT sends to TS_2 a {CC-SETUP} message with IE
	< <basic-service>> 'Internal call setup'</basic-service>
Comments:	Early {CC-CONNECT} and non-early {CC-CONNECT} cases are handled in the same
	test case (pass criterion 1). Test equipment shall allow both implementations

7.15 TC_FT_NG1.N.15 Multiple calls tests cases

Test subgroup objectives: to check the IUT's behaviours regarding multiple calls procedure.

Declarations (see Annex A):

Following behaviours and corresponding test cases are exclusive:

- FP implements 'non early CC-CONNECT': TC_FT_NG1.N.15_BV_205.
- FP implements 'early CC-CONNECT':TC_FT_NG1.N.15_BV_206.

TC_FT_NG1.N.15_BV_201	Incoming external calls on a multiple call line - Accept incoming second call on idle PP
Reference:	TS 102 527-3 [14], Clause 7.4.8.2
Initial condition:	"Multiple calls mode" set to 31H ("multiple call mode") on line 0,
	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2),
	External call in F-10 (TS_2+IUT) initiated by PP2 on line 0 (call id b) with Phone B
Stimulus:	Perform an incoming call on line 0 towards IUT from Phone A
	2. Send a {CC-ALERTING} message followed by a {CC-CONNECT} from TS_1
	3. Send a {CC-RELEASE} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <call-information>> specifying (line 0, line type information, call id a, CS call</call-information>
	setup) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value a), (2, 1, 1)>
	Verify that the IUT sends to TS_2 a {CC-INFO} message with IE
	< <call-information>> specifying (line 0, line type information, call id c, CS call</call-information>
	setup) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value c), (2, 1, 1)>
	2 Verify that the IUT sends to TS_1 a {CC-CONNECT-ACK} message followed by a
	{CC-INFO} message with IE < <call-information>> specifying (call id a, CS call</call-information>
	connect) =<(1, 0, value a), (2, 1, 5)>
	Verify that the IUT sends to TS_2 a {CC-INFO} message with IE
	< <call-information>> specifying (call id c, CS idle) =<(1, 0, value c), (2, 1, 0)></call-information>
	Verify end-to-end U-plane connection between TS_1 and Phone A
	3. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
Comments:	Call id a and call id c may be equal or different (per-PP call ids on external incoming call)

TC_FT_NG1.N.15_BV_202	Incoming external calls on a multiple call line - Accept incoming second call on active PP
Reference:	TS 102 527-3 [14], Clause 7.4.8.2
Initial condition:	"Multiple calls mode" set to 31H ("multiple call mode") on line 0,
	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2),
	External call in F-10 (TS_2+IUT) initiated by PP2 on line 0 (call id b) with Phone B
Stimulus:	Perform an incoming call on line 0 towards IUT from Phone A
Carraido.	2. Send a {CC-ALERTING} message from TS_1
	Send a {CC-INFO} message with 1CH 35H in IE < <multi-keypad>> and IE</multi-keypad>
	<call-information>> specifying (call id c) =<(1, 0, value c)> from TS_2</call-information>
	3. If FT_IXIT_24 (Line 0 parallel call release) = SUPPORTED, then
	- send a {CC-INFO} message with 1CH 33H in IE < <multi-keypad>> and IE</multi-keypad>
	< <call-information>> specifying (call id c) =<(1, 0, value c)>from TS_2</call-information>
	Else (not supported)
	- send a {CC-INFO} message with IE << MULTI-KEYPAD >> set to (1CH, 38H) digits
	and with IE < <call-information>> specifying (call id b) =<(1, 0, value b)> from</call-information>
	TS_2
	4. If FT_IXIT_24 (Line 0 parallel call release) = SUPPORTED and FT_IXIT_27 (Line 0
	resuming parallel call on hold) = SUPPORTED, then send a {CC-INFO} message
	with 1CH 42H in IE < <multi-keypad>> and IE <<call-information>></call-information></multi-keypad>
	specifying (call id b) =<(1, 0, value b)>from TS_2
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <call-information>> specifying (line 0, line type information, call id a, CS call</call-information>
	setup) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value a), (2, 1, 1)>
	Verify that the IUT sends to TS_2 a {CC-INFO} message with IE
	< <call-information>> specifying (line 0, line type information, call id c, CS call</call-information>
	setup) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value c), (2, 1, 1)>
	2 Verify that the IUT sends to TS_1 a {CC-RELEASE} message
	Verify that the IUT sends to TS_2 a {CC-INFO} message with IE
	< <call-information>> specifying (call id b, CS call hold) =<(1, 0, value b), (2, 1,</call-information>
	9)> followed by a {CC-INFO} message with IE < <call-information>> specifying</call-information>
	(call id c, CS call connect) =<(1, 0, value c), (2, 1, 5)>
	Verify end-to-end U-plane connection between TS_2 and Phone A
	3. If FT_IXIT_24 (Line 0 parallel call release) = SUPPORTED, then
	- verify that the IUT sends to TS_2 a {CC-INFO} message with IE
	< <call-information>> specifying (call id c, CS idle) =<(1, 0, value c), (2, 1, 0)></call-information>
	Else (not supported)
	- verify that the IUT sends to TS_2 a {CC-INFO} message with IE
	< <call-information>> specifying (call id c, CS idle) =<(1, 0, value c), (2, 1, 0)></call-information>
	followed by a {CC-INFO} message with IE < <call-information>> specifying</call-information>
	(call id b, CS call connect) =<(1, 0, value b), (2, 1, 5)>
	4. If FT_IXIT_24 (Line 0 parallel call release) = SUPPORTED and FT_IXIT_27 (Line 0
	resuming parallel call on hold) = SUPPORTED, then verify that the IUT sends to
	TS_2 a {CC-INFO} message with IE < <call-information>> specifying (call id b,</call-information>
	CS call connect) =<(1, 0, value b), (2, 1, 5)>
	In all cases verify end-to-end U-plane connection between TS_2 and Phone B
Comments:	- Call id a and call id c may be equal or different (per-PP call ids on external incoming call)
	- In steps 3 and 4, in case the IUT does not support parallel call release on line 0,
	(FT_IXIT_24 = NOT SUPPORTED), then the test equipment uses 1CH 38H instead of
	1CH 33H. This sub case may be needed if NG1.N.22 " Handling of lines where second
	calls are signalled in-band " is supported on this line, i.e. FT_IXIT_31 declared to ' Double
	calls with in-band', and when running this test individually.

TC_FT_NG1.N.15_BV_205	Outgoing external calls on a multiple call line - Initiate outgoing second call on idle PP
	(non early CC-CONNECT implementation)
Reference:	TS 102 527-3 [14], Clause 7.4.8.2
Initial condition:	"Multiple calls mode" set to 31H ("multiple call mode") on line 0,
	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2),
	External call in F-10 (TS_2+IUT) initiated by PP2 on line 0 (call id b) with Phone B
Stimulus:	1. Send a {CC-SETUP} message with IE < <basic-service>> 'Normal call setup' and</basic-service>
	IE < <call-information>> specifying (line 0) =<(0, 0, lid0)> from TS_1</call-information>
	2. Send a {CC-INFO} message with IE < <multi-keypad>> set to Phone A number</multi-keypad>
	and IE < <call-information>> specifying (call id a) =<(1, 0, value a)> from TS_1</call-information>
	3. Call pick up on Phone A
	4. Send a {CC-RELEASE} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-SETUP-ACK} message with IE
	< <call-information>> specifying (line 0, line type information, call id a, CS call</call-information>
	setup ack) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value a), (2, 1, 2)>
	2. Verify that IUT sends to TS_1 a {CC-ALERTING} message with IE
	< <call-information>> specifying (call id a, CS call alerting) =<(1, 0, value a),</call-information>
	(2, 1, 4)>, or, if it is not the case, that Phone A rings.
	3. Verify that the IUT sends to TS_1 a {CC-CONNECT} message with IE
	< <call-information>> specifying (call id a, CS call connect) =<(1, 0, value a),</call-information>
	(2, 1, 5)>Verify end-to-end U-plane connection between TS_1 and Phone A
	4. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
Comments:	FP can send {CC-CALL-PROC} with 'CS call proc' call status before {CC-ALERTING} in
	step 2

TC_FT_NG1.N.15_BV_206	Outgoing external calls on a multiple call line - Initiate outgoing second call on idle PP
	(early CC-CONNECT implementation)
Reference:	TS 102 527-3 [14], Clause 7.4.8.2
Initial condition:	"Multiple calls mode" set to 31H ("multiple call mode") on line 0,
	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2),
	External call in F-10 (TS_2+IUT) initiated by PP2 on line 0 (call id b) with Phone B
Stimulus:	1. Send a {CC-SETUP} message with IE < <basic-service>> 'Normal call setup' and</basic-service>
	IE < <call-information>> specifying (line 0) =<(0, 0, lid0)> from TS_1</call-information>
	2. Send a {CC-INFO} message with IE < <multi-keypad>> set to Phone A number</multi-keypad>
	and IE < <call-information>> specifying (call id a) =<(1, 0, value a)> from TS_1</call-information>
	3. Call pick up on Phone A
	4. Send a {CC-RELEASE} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1:
	 a {CC-CONNECT} message with IE <<call-information>> specifying at least (call id a) =<(1, 0, value a)></call-information>
	 followed by a {CC-INFO} message with IE <<call-information>> specifying at least (call id a, CS call setup ack) =<(1, 0, value a), (2, 1, 2)></call-information>
	 one of the two previous messages {CC-CONNECT} or {CC-INFO} specifying at least (line 0, line type information) =<(0, 0, lid0), (0, 5, lt0)> in the <<call-information>> IE</call-information>
	2. Verify that IUT sends to TS_1 a {CC-INFO} message with IE
	< <call-information>> specifying (call id a, CS call alerting) =<(1, 0, value a),</call-information>
	(2, 1, 4)>, or, if it is not the case, that Phone A rings.
	3. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
	< <call-information>> specifying (call id a, CS call connect) =<(1, 0, value a),</call-information>
	(2, 1, 5)>Verify end-to-end U-plane connection between TS_1 and Phone A
	4. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
Comments:	FP can send also 'CS call proc' with the call identifier before 'CS call alerting' in step 2

TC_FT_NG1.N.15_BV_207	Outgoing external calls on a multiple call line - Initiate outgoing second call on active PP
5.	using < <call-information>> line selection</call-information>
Reference:	TS 102 527-3 [14], Clause 7.4.8.2
Initial condition:	"Multiple calls mode" set to 31H ("multiple call mode") on line 0, 2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2), External call in F-10 (TS_2+IUT) initiated by PP2 on line 0 (call id b) with Phone B
Stimulus:	Send a {CC-INFO} message with IE < <multi-keypad>> set to 1CH 15H digits from TS_2</multi-keypad>
	 Send a {CC-INFO} message with IE <<multi-keypad>> set to Phone A number and IE <<call-information>> specifying (line0, call id a) =<(0, 0, lid0), (1, 0, value a)> from TS_2</call-information></multi-keypad> Call pick up on Phone A If FT_IXIT_24 (Line 0 parallel call release) = SUPPORTED, then - send a {CC-INFO} message with 1CH 33H in IE <<multi-keypad>> and IE <<call-information>> specifying (call id a) =<(1, 0, value a)>from TS_2 Else (not supported)</call-information></multi-keypad>
	- send a {CC-INFO} message with IE << MULTI-KEYPAD >> set to (1CH, 38H) digits and with IE < <call-information>> specifying (call id b) =<(1, 0, value b)> from TS_2</call-information>
	 If FT_IXIT_24 (Line 0 parallel call release) = SUPPORTED and FT_IXIT_27 (Line 0 resuming parallel call on hold) = SUPPORTED, then send a {CC-INFO} message with 1CH 42H in IE <<multi-keypad>> and IE <<call-information>> specifying (call id b) =<(1, 0, value b)>from TS_2</call-information></multi-keypad>
Pass criteria:	1. Verify that the IUT sends to TS_2 a {CC-INFO} message with IE < <call-information>> specifying (call id b, CS call hold) =<(1, 0, value b), (2, 1, 9)> followed by a {CC-INFO} message with IE <<call-information>> specifying (call id a, CS call setup ack) =<(1, 0, value a), (2, 1, 2)></call-information></call-information>
	2. Verify that the IUT sends a {CC-INFO} message with IE < <call-information>> specifying (line 0, line type information, call id a) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value a)> Verify that IUT sends to TS_2 a {CC-INFO} message with IE <<call-information>> specifying (call id a, CS call alerting) =<(1, 0, value a), (2, 1, 4)>, or, if it is not the case, that Phone A rings.</call-information></call-information>
	3. Verify that the IUT sends to TS_2 a {CC-INFO} message with IE < <call-information>> specifying (call id a, CS call connect) =<(1, 0, value a), (2, 1, 5)> Verify end-to-end U-plane connection between TS_2 and Phone A</call-information>
	4. If FT_IXIT_24 (Line 0 parallel call release) = SUPPORTED, then - verify that the IUT sends to TS_2 a {CC-INFO} message with IE < <call-information>> specifying (call id a, CS idle) =<(1, 0, value a), (2, 1, 0)> Else (not supported) - verify that the IUT sends to TS_2 a {CC-INFO} message with IE</call-information>
	<call-information>> specifying (call id a, CS idle) =<(1, 0, value a), (2, 1, 0)> followed by a {CC-INFO} message with IE <<call-information>> specifying (call id b, CS call connect) =<(1, 0, value b), (2, 1, 5)> 5. If FT_IXIT_24 (Line 0 parallel call release) = SUPPORTED and FT_IXIT_27 (Line 0</call-information></call-information>
	resuming parallel call on hold) = SUPPORTED, then verify that the IUT sends to TS_2 a {CC-INFO} message with IE < <call-information>> specifying (call id b, CS call connect) =<(1, 0, value b), (2, 1, 5)> In all cases verify end-to-end U-plane connection between TS_2 and Phone B</call-information>
Comments:	- FP can send also 'CS call proc' with the call identifier before 'CS alerting' in step 2 - In steps 4 and 5, in case the IUT does not support parallel call release on line 0, (FT_IXIT_24 = NOT SUPPORTED), then the test equipment uses 1CH 38H instead of 1CH 33H. This sub case may be needed if NG1.N.22 " Handling of lines where second calls are signalled in-band " is supported on this line, i.e. FT_IXIT_31 declared to ' Double calls with in-band, and when running this test individually.

TC_FT_NG1.N.15_BV_301	Busy line notification
Reference:	TS 102 527-3 [14], Clause 7.4.8.3
Initial condition:	"Multiple calls mode" set to 30H ("single call mode") and "Intrusion call" set to 30H ("not
	allowed") on line 0
	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2),
	external call in F-10 (TS_2+IUT) initiated by TS_2 on line 0 (call id b) with Phone B
Stimulus:	1. Send a {CC-SETUP} with IE < <basic-service>> 'Normal call setup' and IE</basic-service>
	< <call-information>> specifying (line 0) =<(0, 0, lid0)> from TS_1</call-information>
	2. Send a {CC-RELEASE-COM} from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 in the same or different {CC-INFO} messages
	 an IE <<signal>> set to the value 04H indicating 'Busy tone on' when declared</signal>
	(see Annex A, Table A.26)
	 an IE <<call-information>> specifying (call id a, CS call disconnecting, line</call-information>
	in use) =<(1, 0, value a), (2, 1, 6), (2, 2, 1)>
	when sent in different messages, call status indication shall always be sent in the
	first used {CC-INFO} message, and call identifier shall be sent within all
	messages
	After some time-out, verify that the IUT sends to TS_1 in the same or different
	{CC-INFO} messages:
	 an IE <<signal>> with the value 3FH indicating 'Tones off' when declared (see Annex A, Table A.26)</signal>
	 optionally an IE <<call-information>> specifying (call id a, CS idle) =<(1, 0, value a), (2, 1, 0)></call-information>
	Verify that the IUT sends to TS_1 a {CC-RELEASE} message
Comments:	In stimulus 1, TS_1 tries to place an external call on a line where a call is already going on
	(line 0)

7.16 TC_FT_NG1.N.16 List access service tests cases

Test subgroup objectives: to check the IUT's behaviours regarding list access service procedures with the following considerations:

- Some test cases shall be run in a given order. In that case, the test case reference to be run before is indicated
 in the initial condition.
- NG1.N.6_2 "List change notification" procedure is tested with NG1.N.6_22 "Internal names list" procedure and NG1.N.6_25 "Line settings list" procedure.
- As NG1.N.16_26 "Virtual contact list and call list per line" is conditional on support of NG1.N.14 "Multiple lines" feature, and there are no more requirements on FP side that the implementation of line identifier field, there is no test case defined for this procedure.

Test equipment implementation requirements for PIN protected lists (DECT system setting, Line setting, or Internal names)

• When testing the FP, some field of the 'DECT system setting', 'Line setting', or 'Internal names' lists can be 'PIN protected'. When reading a 'PIN protected' field, the 'PIN protected' property bit will be set to 1. As a result, the test equipment shall automatically edit and save the 'Current PIN code' field of 'DECT system settings' list before editing this field (see TS 102 527-3 [14], Clause 7.4.11.1).

NOTE: In order to simplify the implementation, it is also possible to systematically edit and save the 'Current PIN code' field before opening the possible protected lists as the authentication is valid for the whole List access service call.

Test equipment implementation requirements for "DECT system settings list" and "list of supported lists"

- For the "DECT system settings list" and the "list of supported lists", the test equipment shall use a 'Number of sorting fields' value of '0' in the 'start session' command, and shall check that IUT answers with a 'Number of sorting fields' value of '0' in the 'start session confirm'.
 - This includes test cases where the "DECT system settings list" or the "list of supported lists" is already open at test case starting time. Concerned test cases are the following:
 - "DECT system settings" list test cases: TC_PT_NG1.N.16_BV_2401, 2402, 2701, 2801, 2901, 3001, 3501, 5101.
 - List of supported lists" list test cases: TC PT NG1.N.16 BV 302, 1601.
 - This includes test cases where the "DECT system settings list" is accessed before a PIN protected field is edited on any list. Concerned test cases depend on IUT implementation.

Test equipment implementation requirements for call lists and contact lists

Multiple instances of the 'contact number' field in the contact list (see also TS 102 527-3 [14], Clause 7.4.10.1, 'Field instances management' entry)

- In TC_FT_NG1.N.16_BV_2101 to TC_FT_NG1.N.16_BV_2111, when reading or editing a contact list entry
 - The test equipment shall systematically include the 'Contact number' field id *twice* in the request. The IUT shall answer with up to two available instances; if there is no available instance, the IUT shall answer with an empty instance.
 - If a further save is done by the test equipment (i.e. the previous request was en 'edit'),
 - The test equipment shall include at least all contact numbers instances that were received during the previous edit.
 - The test equipment may include additional contact numbers, provided that the total number of contact numbers included (received + additional) does not exceed the number of contact numbers requested during the previous edit.
 - The test equipment may replace a received contact number with an empty instance (instance with length = 1) thus indicating to the IUT that the contact number is to be removed. The IUT shall not keep the empty instance, but discard the corresponding contact number instead.

Handling of the line name and line id fields in list access test cases

Although not mentioned in all test cases, the line name and line id fields shall be handled correctly:

- IUT behaviour:
 - The IUT shall handle line name and line id fields in the call lists, contact lists and line settings list.
 - For the contact list, if the test equipment does not save the "line id" field when an entry is created, IUT shall set a default value "All lines" or one line for the line id.
- Test equipment requirements:
 - The test equipment shall use or check the following codings of the "line id" field:
 - For calls lists: the line identifier field sub type shall be "line identifier for external calls". Additionally the value "None" is not allowed.
 - For Line settings list, the list identifier sub type shall be "relating to".
 - For Contact list, the list identifier sub type shall be "relating to" or "All lines" values a specified in TS 102 527-3 [14], Clause 7.4.10.5.1.7.

Declarations (see Annex A):

- Following procedures are optional or conditional so the manufacturer shall declare if they are supported:
 - NG1.N.16_18 "Outgoing calls list".
 - NG1.N.16_20 "All calls list".
 - NG1.N.16_23 "All incoming calls list".
 - NG1.N.16_26 "Virtual contact list and call list per line".
 - NG1.N.16_30 "FP IP address/type".
 - NG1.N.16_31 "FP IP address/value".
 - NG1.N.16_32 "FP IP address/subnet mask".
 - NG1.N.16_33 "FP IP address/gateway".
 - NG1.N.16_34 "FP IP address/DNS server".
 - NG1.N.16_37 "FP version/Hardware version".
 - NG1.N.16_41 "Dialling prefix".
 - NG1.N.16_42 "FP melody".
 - NG1.N.16_43 "FP volume".
 - NG1.N.16_44 "Blocked number".
 - NG1.N.16_46 "Intrusion call".
 - NG1.N.16_47 "Permanent CLIR".
 - NG1.N.16_51 "Emission mode".
- Following behaviours and corresponding test cases are exclusive:
 - TC_FT_NG1.N.16_BV_303: FP does not accept simultaneous access to the same list from 2 different PPs.
 - TC_FT_NG1.N.16_BV_304: FP accepts simultaneous accesses to the same list from 2 PPs.
- When implementing multiple lines, the manufacturer shall declare whether PP default attachment to at least one line after registration is supported or not. See Annex A, Table A.15.

TC_FT_NG1.N.16_BV_301	Start / end session sequencing and parameters - list of supported lists
Reference:	TS 102 527-3 [14], Clause 7.4.10.4.1
Initial condition:	F-00
Stimulus:	1. Send a {CC-SETUP} message from TS_1 with IE < <basic-service <lia="" =="" attributes="" default="" service="" setup="" setup,="" speech="" wideband=""> >></basic-service>
	 Send a <start fields="0" identifier="00H," list="" nb="" of="" session,="" sorting=""> from TS_1</start> Send a <end id="n" session="" session,=""> from TS_1</end> Send a {CC-RELEASE} from TS_1
Pass criteria:	 Verify that the IUT sends back to TS_1: 1. a {CC-CALL-PROC} 2. a <start 1,="" confirm,="" discriminator="" fields="0" id="n," nb="" of="" or="" session="" sorting="" total="" type="0"></start> 3. a <end confirm,="" id="n" session=""></end> 4. a {CC-RELEASE-COM} message
Comments:	Session identifier shall be different from "0" value

TC_FT_NG1.N.16_BV_302	CC-RELEASE without end session - list of supported lists
Reference:	TS 102 527-3 [14], Clause 7.4.10.4.1
Initial condition:	List of supported lists open (session id=n). Re-use first 2 steps as
	TC_FT_NG1.N.16_BV_301 test.
Stimulus:	1. Send a {CC-RELEASE} from TS_1
	2. Send a {CC-SETUP} message from TS_1 with IE < <basic-service <lia="" =="" service<="" td=""></basic-service>
	setup, Wideband speech default setup attributes> >>
	3. Send a <start fields="0" identifier="00H," list="" nb="" of="" session,="" sorting=""> from TS_1</start>
	4. Send a <read counter="1," direction="0," entries,="" id="n," index="0," mark<="" session="" start="" td=""></read>
	entries request= 00H, list entry field identifier 1=01H> from TS_1
	5. Send a {CC-RELEASE} from TS_1
Pass criteria:	After start session confirm received, Verify that the IUT sends back to TS_1:
	a {CC-RELEASE-COM} message
	2. a {CC-CALL-PROC} message
	 a <start 1,="" confirm,="" discriminator="" id="n," nb="" of<br="" or="" session="" total="" type="0">sorting fields =0></start>
	4. a <read confirm,="" counter="1" entries="" id="n," index="1," session="" start=""> followed by one <data last="" packet=""></data></read>
	5. a {CC-RELEASE-COM} message
Comments:	Make sure that the second start session is successful (no error returned by the FP)
	Between step 2 and step 3, no specific delay is required

TC_FT_NG1.N.16_BV_303	No simultaneous access to the same list from 2 different PPs - internal names list
Reference:	TS 102 527-3 [14], Clause 7.4.10.4.1
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2)
Stimulus:	1. Send a {CC-SETUP} message from TS_1 with IE < <basic-service <lia="" =="" service<="" td=""></basic-service>
	setup, Wideband speech default setup attributes> >>
	2. Send a <start fields="0" identifier="06H," list="" nb="" of="" session,="" sorting=""> from TS_1</start>
	3. Send a {CC-SETUP} message from TS_2 with IE < <basic-service <lia="" =="" service<="" td=""></basic-service>
	setup, Wideband speech default setup attributes> >>
	4. Send a <start fields="0" identifier="06H," list="" nb="" of="" session,="" sorting=""> from TS_2</start>
	5. Send a <end id="n" session="" session,=""> from TS_1</end>
	6. Send a {CC-RELEASE} from TS_2
	7. Send a {CC-RELEASE} from TS_1
Pass criteria:	Verify that the IUT sends back to TS_1:
	1. a {CC-CALL-PROC} message
	2. a <start 1,="" confirm,="" discriminator="" id="n," nb="" of<="" or="" session="" td="" total="" type="0"></start>
	sorting fields =1,sorting field id1 =1>
	Verify that the IUT sends back to TS_2:
	3. a {CC-CALL-PROC} message
	4. a <start already="" confirm,="" id="0," in<="" reason="list" reject="" session="" start="" td=""></start>
	use by another session >
	5. Verify that the IUT sends back to TS_1 a <end confirm,="" id="n" session=""></end>
	6. Verify that the IUT sends back to TS_2 a {CC-RELEASE-COM} message
	7. Verify that the IUT sends back to TS_1 a {CC-RELEASE-COM} message
Comments:	Here we only check that FP rejects with proper error code the start session from the
	second PP
	This TC is exclusive with TC_FT_NG1.N.16_BV_304

TC_FT_NG1.N.16_BV_304	Simultaneous access to the same list from 2 different PPs (check edit locks an entry) -
	internal names list
Reference:	TS 102 527-3 [14], Clause 7.4.10.4.1
Initial condition: Stimulus:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2) 1. Send a {CC-SETUP} message from TS_1 with IE < <basic-service <lia="" =="" service<="" td=""></basic-service>
Camarae.	setup, Wideband speech default setup attributes> >>
	2. Send a <start fields="0" identifier="06H," list="" nb="" of="" session,="" sorting=""> from TS_1</start>
	3. Send a <read counter="1," direction="0," entries,="" id="n," index="1," mark<="" session="" start="" td=""></read>
	entries request= 00H, list entry field identifier 1n =01H, 02H, 03H> from TS_1
	4. Send a <edit 02h,="" 03h="" 1n="01H," entry="" entry,="" field="" id="n," identifier="" list="" session=""> from TS_1</edit>
	5. Send a {CC-SETUP} message from TS_2 with IE < <basic-service <lia="" =="" service<="" td=""></basic-service>
	setup, Wideband speech default setup attributes>>>
	6. Send a <start fields="0" identifier="06H," list="" nb="" of="" session,="" sorting=""> from TS_2</start>
	7. Send a <read counter="1," direction="0," entries,="" id="m," index="1," mark<="" session="" start="" td=""></read>
	entries request= 00H, list entry field identifier 1n =01H, 02H, 03H> from TS_2
	8. Send a <edit 1n<="" entry="" entry,="" field="" id="m," identifier="" list="" session="" td=""></edit>
	=01H, 02H, 03H > from TS_2
	9. Send a <save entry="" entry,="" id="m," identifier="u" session=""> from TS_2 followed by <data< td=""></data<></save>
	packet/data packet last> modifying "Name" field to "TESTER 2"
	10. Send a <delete entry="" entry,="" id="m," identifier="u" session=""> from TS_2.</delete>
	11. Send a < Delete list, session id=m> from TS_2
	12. Send a <end id="m" session="" session,=""> from TS_2</end>
	13. Send a <end id="n" session="" session,=""> from TS_1</end>
	14. Send a {CC-RELEASE} message from TS_2
	15. Send a {CC-RELEASE} message from TS_1
Pass criteria:	Verify that the IUT sends back to TS_1:
	1. a {CC-CALL-PROC} message
	2. a <start 1,="" confirm,="" discriminator="" id="n," nb="" of<="" or="" session="" td="" total="" type="0"></start>
	sorting fields =1,sorting field id1 =1>
	3. a < Read entries confirm, session id=n> followed by <data data="" last="" packet=""></data>
	with 1 st entry content (entry identifier = u)
	4. a <edit 1,="" confirm,="" discriminator="" entry="" id="n," nb="" of<="" or="" session="" td="" total="" type="0"></edit>
	sorting fields =1, sorting field id1 =1>
	Verify that the IUT sends back to TS_2:
	5. a {CC-CALL-PROC} message
	6. a <start 1,="" confirm,="" discriminator="" id="m," nb="" of<="" or="" session="" td="" total="" type="0"></start>
	sorting fields =1,sorting field id1 =1>
	7. a < Read entries confirm, session id=m> followed by <data data="" last="" packet=""></data>
	with 1 st entry content (entry identifier = u)
	8. a <negative acknowledgement,="" id="m," not="" possible="" reason="temporarily" reject="" session=""></negative>
	9. a <negative acknowledgement,="" allowed="" id="m," not="" reason="procedure" reject="" session=""></negative>
	a <negative acknowledgement,="" id="m," not="" possible="" reason="temporarily" reject="" session=""></negative>
	11. a <negative acknowledgement,="" allowed="" id="m," not="" reason="procedure" reject="" session=""></negative>
	12. a <end confirm,="" id="m" session=""></end>
Comments:	13. Verify that the IUT sends back to TS_1 a <end confirm,="" id="n" session=""></end>
	14. Verify that the IUT sends back to TS_1 a <end confirm,="" d="n" session=""></end>
	15. Verify that the IUT sends back to TS_1 a {CC-RELEASE-COM} message
	Aim of the test is to make sure save/edit/delete entry/delete list from a second handset (on
	the same entry) is not possible if a first handset is editing this entry
	This TC is exclusive with TC_FT_NG1.N.16_BV_303
	In pass criteria 8,9,10,11 IUT shall send the negative acknowledgements only after the
	whole command was received from TS_2. Especially in pass criterion 9, IUT shall wait
	until data packet and data packet last are received, before sending a negative
	acknowledgement
	auniowicuyciiiciil

identifier=v, position index=1, total number of available entries=1> Verify that the IUT sends to TS_1 a <End session confirm, session id=m>

identifier=u, position index=1, total number of available entries=t> Verify that the IUT sends to TS_1 a <End session confirm, session id=n> Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message

9.

packet/data packet last>

Verify the IUT sends to TS_1 a <Edit entry confirm, session id=n> followed by <data

Verify that the IUT sends to TS_1 a <Save entry confirm, session id=n, entry

ETSI

TC_FT_NG1.N.16_BV_1601	List of supported lists - read entries
Reference:	TS 102 527-3 [14], Clauses 7.4.10.5.1.1 and 7.4.10.5.2
Initial condition:	List of supported lists open (session id=n)
Stimulus:	1 Send a <read counter="1," direction="0," entries,="" id="n," index="0," mark<="" session="" start="" td=""></read>
	entries request= 00H, list entry field identifier 1=01H> from TS_1
	2. Send a {CC-RELEASE} message from TS_1
Pass criteria:	1 Verify that the IUT sends back to TS_1 a <read confirm,="" entries="" id="n," session="" start<="" td=""></read>
	index=1, counter=1> followed by one <data last="" packet=""></data>
	In data packet:
	- Verify that there is one entry in packet
	Verify that there is one field 'List identifiers' in this entry
	 Verify that the list identifiers are ordered in ascending numerical order in 'List identifiers' field
	Verify that 'List identifiers' field includes at the minimum and ordered in
	ascending numerical order:
	00H List of supported lists
	01H Missed calls list
	03H Incoming accepted calls list
	05H Contact list
	06H Internal names list
	07H DECT system settings list
	08H Line settings list
	 Verify that 'List identifiers' field include optional lists declared (see Annex A,
	Table A.25)
	2. Verify that the IUT sends back to TS_1 a {CC-RELEASE-COM} message
Comments:	Session identifier shall be different from "0" value

	T
TC_FT_NG1.N.16_BV_1701	Missed calls list - Delete list - Read entries when empty
Reference:	TS 102 527-3 [14], Clause 7.4.10.5.3
Initial condition:	Service call in F-03
Stimulus:	1. Send a <start fields="0" identifier="01H," list="" nb="" of="" session,="" sorting=""> from TS_1</start>
	2. Send a <delete id="n" list,="" session=""> from TS_1</delete>
	3. Send a {CC-RELEASE} from TS_1
	4. Send a {CC-SETUP} message from TS_1 with IE < <basic-service <lia="" =="" service<="" td=""></basic-service>
	setup, Wideband speech default setup attributes> >>
	5. Send a <start fields="0" identifier="01H," list="" nb="" of="" session,="" sorting=""> from TS_1</start>
	6. Send a <read counter="1," direction="0," entries,="" id="m," index="1," mark<="" session="" start="" td=""></read>
	entries request= 7FH, list entry field identifier 1n =01H, 02H, 03H, 04H, 05H, 06H,
	07H> from TS_1
	7. Send a <end id="n" session="" session,=""> from TS_1</end>
	8. Send a {CC-RELEASE} from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a <start confirm,="" id="n," nb="t,</td" session="" total=""></start>
	discriminator type=0 or 1, nb of sorting fields =1,sorting field id1 =3>
	2. Verify that the IUT sends to TS_1 a <delete confirm,="" id="n" list="" session=""></delete>
	3. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
	4. Verify that the IUT sends to TS_1 a {CC-CALL-PROC} message
	5. Verify that the IUT sends to TS_1 a <start confirm,="" id="m," nb="0,</td" session="" total=""></start>
	discriminator type=0 or 1, nb of sorting fields =1,sorting field id1 =3>
	6. Verify that the IUT sends to TS_1 a <negative acknowledgement,="" id="m,</td" session=""></negative>
	reject reason= invalid start index >
	7. Verify that the IUT sends to TS_1 a <end confirm,="" id="m" session=""></end>
	8. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
Comments:	Session identifier shall be different from "0" value

TC_FT_NG1.N.16_BV_1702 | Missed calls list - List change notification - Read entries when new entries TS 102 527-3 [14], Clauses 7.4.1.3, 7.4.10.4.1 and 7.4.10.5.3 Reference: Date and time of the system set, 2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2), Initial condition: Missed calls list empty (see TC_FT_NG1.N.16_BV_1701), F-00 Perform an incoming call on line 0 towards IUT from Phone A (CLIP A / CNIP A) to Stimulus: make the IUT ring 1a. Send a {CC-ALERTING} message from TS_1 and from TS_2 Hang up on Phone A Perform an incoming call on line 0 towards IUT from Phone B (CLIP B / CNIP B) to make the IUT ring 2a. Send a {CC-ALERTING} message from TS_1 and from TS_2 Hang up on Phone B Perform an incoming call on line 0 towards IUT from Phone A (CLIP A / CNIP A) to make the IUT ring 3a. Send a {CC-ALERTING} message from TS_1 and from TS_2 Hang up on Phone A Send a {CC-SETUP} message from TS_1 with IE <<BASIC-SERVICE = <LiA service setup, Wideband speech default setup attributes>>> Send a <Start session, List identifier = 01H, nb of sorting fields =0> from TS_1 Send a <Read entries, session id=m, start index=1, direction=0, counter=3, mark entries request= 7FH, list entry field identifier 1..n =01H, 02H, 03H, 04H, 05H, 06H, 07H> from TS_1 Send a {CC-RELEASE} from TS_1 Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE Pass criteria: <<CALL-INFORMATION>> specifying (line 0, line type information, call id a, CS call setup) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value a), (2, 1, 1)> 1a. Verify that the IUT sends in any order: to TS_1 a {CC-RELEASE} message to TS_1 and TS_2, a {FACILITY} message with IE <<EVENTS NOTIFICATION= <Missed call, A new external missed voice call just arrived, 1> (=<01H,81H,81H>) < List change indication, Missed calls list, 1> (=<03H,81H,81H>) >> and IE<<CALL-INFORMATION>> specifying (line 0) =<(0, 0, lid0)> Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE <<CALL-INFORMATION>> specifying (line 0, line type information, call id b, CS call setup) = <(0, 0, lid0), (0, 5, lt0), (1, 0, value b), (2, 1, 1) >2a. Verify that the IUT sends in any order: to TS_1 a {CC-RELEASE} message to TS_1 and TS_2, a {FACILITY} message with IE <<EVENTS NOTIFICATION= <Missed call, A new external missed voice call just arrived, 2> (=<01H,81H,82H>) < List change indication, Missed calls list, 2> (=<03H,81H,82H>)>> and IE<<CALL-INFORMATION>> specifying (line 0) =<(0, 0. lid0)> Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE <<CALL-INFORMATION>> specifying (line 0, line type information, call id c, CS call setup) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value c), (2, 1, 1)> 3a. Verify that the IUT sends in any order: to TS_1 a {CC-RELEASE} message to TS_1 and TS_2, a {FACILITY} message with IE <<EVENTS NOTIFICATION= <Missed call, A new external missed voice call just arrived, 3> (=<01H.81H.83H>)< List change indication. Missed calls list, 2 or 3> (=<03H,81H,82H or 83H>)>> and IE<<CALL-INFORMATION>> specifying (line 0) = <(0, 0, lid0)>Verify that the IUT sends to TS_1 a {CC-CALL-PROC} message Verify that the IUT sends to TS_1 a <Start session confirm, session id=n, total nb=2 or 3, discriminator type=0 or 1, nb of sorting fields =1,sorting field id1 =3> Verify that the IUT sends to TS_1 a < Read entries confirm, session id=m> followed by <data packet/data packet last> with 1st entry: "Number" field set to CLIP A, "Name" field set to CNIP A, "Read status" field with 'unread' property bit set to 'unread' (unread =1B), and 'Number of calls' field set to 1 or 2 2nd entry: "Number" field set to CLIP B, "Name" field set to CNIP B, "Read status" field with 'unread' property bit set to 'unread' (unread =1B), and 'Number of calls' field set to 1 "Date and Time" field value of 1st entry shall be more recent than "Date and Time" field value of 2nd entry "Line id" field of both entries set to 'Line identifier for external call' and line 0 value

(0, lid0)

	 "Line name" field of both entries set to line name of line 0 (see Clause A.2.2 FT IXIT 28)
	7. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
	8. Verify that the IUT sends to TS_1 and TS_2, a {FACILITY} message with IE
	< <events 0="" arrived,="" call="" call,="" missed="" new="" no="" notification="<Missed"></events>
	(=<01H,82H,80H>) < List change indication, Missed calls list, 2 or 3>
	(=<03H,81H,82H or 83H>) >> and IE< <call-information>> specifying (line 0)</call-information>
	=<(0, 0, lid0)>
Comments:	- Both TS_1 and TS_2 are attached to line 0. However, in pass criteria 1 and 1a,
	2 and 2a, 3 and 3a, call establishment and release are only verified for TS_1
	- "Event multiplicity" field is tested and not full octet value (i.e. 03H instead of
	83H)
	- "Total number of available entries" field can be set to 2, or 3, as some FPs may
	either handle only one entry for the last missed call from a remote party, or one
	entry per incoming missed call
	- CLIP and CNIP in step 6 of pass criteria shall be the same than ones
	previously received during steps 2 and 3 of stimulus
	- In step 1a, 2a and 3a, TS_1 should send CC-ALERTING and then invite
	the user to hangup on Phone A/Phone B via a display on the test equipment
	- In Pass criteria 6, the entries are still marked as 'unread' in the 'Read
	entries confirm'. However these entries will later be marked as 'read' in any
	further 'Read entries confirm' of next test cases) due to mark entries
	request=7FH in step 6

TC_FT_NG1.N.16_BV_1703	Missed calls list - Delete entry - Negative acknowledgement
Reference:	TS 102 527-3 [14], Clause 7.4.10.5.3
Initial condition:	Run TC_FT_NG1.N.16_BV_1702 - Missed calls list open (session id=n)
Stimulus:	1. Send a <read 02h,="" 03h,="" 04h,="" 05h,="" 06h,<="" 1n="01H," counter="1," direction="0," entries="" entries,="" entry="" field="" id="n," identifier="" index="1," list="" mark="" request="7FH," session="" start="" td=""></read>
	07H> from TS_1 2. Send a <delete entry="" entry,="" id="n+1," identifier="u" session=""> from TS_1</delete>
	3. Send a <delete entry="" entry,="" id="n," identifier="u" session=""> from TS_1</delete>
	4. Send a <delete entry="" entry,="" id="n," identifier="u+3" session=""> from TS_1</delete>
	5. Send a <end id="n" session="" session,=""> from TS_1</end>
	6. Send a {CC-RELEASE} from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a < Read entries confirm, session id=n> followed by <data data="" last="" packet=""> with 1st entry content (entry identifier = u)</data>
	2. Verify that the IUT sends to TS_1 a <negative acknowledgement,="" id="n+1," number="" reason="invalid" reject="" session=""></negative>
	Verify that the IUT sends to TS_1 < Delete entry confirm, session id=n, total nb of available entries = 1 or 2>
	4. Verify that the IUT sends to TS_1 a <negative acknowledgement,="" available="" id="n," not="" reason="entry" reject="" session=""></negative>
	, ,
	· · · · · · · · · · · · · · · · · · ·
Commentar	
Comments:	In step 4, 'u+3' identifier is invalid on IUT side

TC_FT_NG1.N.16_BV_1704	Missed calls list - Transfer number from missed calls list to contact list
Reference:	TS 102 527-3 [14], Clauses 7.4.10.5.3 and 7.4.10.5.7
Initial condition:	Run TC_FT_NG1.N.16_BV_1703 - Missed calls list open (session id=n)
Stimulus:	1. Send a <read counter="1," direction="0," entries,="" id="n," index="1," mark<="" session="" start="" td=""></read>
	entries request= 7FH, list entry field identifier 1n =01H, 02H, 03H, 04H, 05H, 06H,
	07H> from TS_1
	 Send a <start fields="0" identifier="05H," list="" nb="" of="" session,="" sorting=""> from TS_1</start> Send to TS_1 a <save entry="" entry,="" id="m," identifier="00H" session=""> followed by <data< li=""> </data<></save>
	packet/data packet last> set to (Name= CNIP B, First name="Forename B", Contact number1 = CLIP B, Line id=(3, lid0)) and (Associated melody= 0) when declared (see Annex A, Table A.15)
	 Send a <read counter="1," direction="0," entries,="" id="m," index="p," mark<br="" session="" start="">entries request= 00H, list entry field identifier 1n =01H, 02H, 03H, 04H, 05H> from TS_1</read>
	5. Send a <end id="m" session="" session,=""> from TS_1</end>
	6. Send a <end id="n" session="" session,=""> from TS_1</end>
	7. Send a {CC-RELEASE} from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a < Read entries confirm, session id=n> followed by <data data="" last="" packet=""> with 1st entry content (entry identifier = u): "Number" field set to CLIP B, "Name" field set to CNIP B, "Read status" field with</data>
	'unread' property bit set to 'read' (read=0B), and 'Number of calls' field set to 1
	 Verify that the IUT sends to TS_1 a <start 1,="" 2="" 2,="" case="" confirm,="" discriminator="" field="" fields="" id="m," id1="1," id2="2" in="" nb="" of="" or="" session="" sorting="" total="" type="0"></start>
	3. Verify that the IUT sends to TS_1 a <save available="" confirm,="" entries="t+1" entry="" id="m," identifier="v," index="p," nb="" of="" position="" session="" total=""></save>
	4. Verify that the IUT sends to TS_1 a <read confirm,="" counter="1" entries="" id="m," index="p," session="" start=""> followed by <data data="" last="" packet=""> with entries created</data></read>
	in step 3
	5. Verify that the IUT sends to TS_1 a <end confirm,="" id="m" session=""></end>
	6. Verify that the IUT sends to TS_1 a <end confirm,="" id="n" session=""></end>
	7. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
Comments:	'v' entry identifier in pass criteria 3 shall be a new identifier different from 'u' entry identifier
	Total number of available entries in pass criteria 3 shall be Total number of available
	entries in pass criteria 2 + 1
	'position index=p' received from IUT in pass criteria 3 shall be used in stimulus 4 'Start
	index=p'
	In Pass criteria 1, the entries were marked as 'read' during TC_FT_NG1.N.16_BV_1702

TC_FT_NG1.N.16_BV_1705	Missed calls list - Initiate a voice call during a list access session
Reference:	TS 102 527-3 [14], Clauses 7.4.10.5.3 and 7.4.10.6.2
Initial condition:	Run TC_FT_NG1.N.16_BV_1704,
	F-00
Stimulus:	1. Send a {CC-SETUP} message from TS_1 with IE < <basic-service <lia="" =="" service<="" td=""></basic-service>
	setup, Wideband speech default setup attributes> >>
	2. Send a <start fields="0" identifier="01H," list="" nb="" of="" session,="" sorting=""> from TS_1</start>
	3. Send a <read counter="1," direction="0," entries,="" id="n," index="1," mark<="" session="" start="" td=""></read>
	entries request= 7FH, list entry field identifier 1n =01H, 02H, 03H, 04H, 05H, 06H,
	07H> from TS_1
	4. Send a {CC-INFO} message from TS_1 with IE < <multi-keypad>> set to 1CH,</multi-keypad>
	15H digits together with Phone B number and IE < <call-information>></call-information>
	specifying (line 0) = $<$ (0, 0, lid0)>
	5. Send a <end id="n" session="" session,=""> from TS_1</end>
	6. Call pick up on Phone B
	7. Send a {CC-RELEASE} from TS_1
Pass criteria:	Verify that the IUT sends to TS_1 a {CC-CALL-PROC} message
	2. Verify that the IUT sends to TS_1 a <start confirm,="" id="n," nb="2,</td" session="" total=""></start>
	discriminator type=0 or 1, nb of sorting fields =1,sorting field id1 =3>
	3. Verify that the IUT sends to TS_1 a < Read entries confirm, session id=n> followed
	by <data data="" last="" packet=""> with 1st entry content (entry identifier = u):</data>
	"Number" field set to CLIP B, "Name" field set to CNIP B, "Read status" field with
	'unread' property bit set to 'read' (read=0B), and 'Number of calls' field set to 1
	4. Verify that the IUT sends to TS_1 a {CC-CONNECT} message, followed by a
	{CC-INFO} message with IE < <call-information>> specifying at least (line 0,</call-information>
	line type information, call id a) = $<(0, 0, \text{lid0}), (0, 5, \text{lt0}), (1, 0, \text{value a})>$
	5. Verify that the IUT sends to TS_1 a <end confirm,="" id="n" session=""></end>
	Verify that IUT sends to TS_1 a {CC-INFO} message with IE
	< <call-information>> specifying (call id a, CS call alerting) =<(1, 0, value a),</call-information>
	(2, 1, 4)>, or, if it is not the case, that Phone B rings.
	6. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
	< <call-information>> specifying (call id a, CS call connect) =<(1, 0, value a),</call-information>
	(2, 1, 5)>
	Verify end-to-end U-plane connection between TS_1 and Phone B
	7. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message

TO ET NO.1 11 10 511 15-	Tanana and a sanata
TC_FT_NG1.N.16_BV_1706	Missed calls list - List access during existing voice call with second call initiation -
	Switching between LA session and voice call - Returning to LA session after voice call
	termination
Reference:	TS 102 527-3 [14], Clauses 7.4.10.5.3, 7.4.10.6.4 and 7.4.10.6.5
Initial condition:	Run TC_FT_NG1.N.16_BV_1704,
	F-00
Stimulus:	 Send a {CC-SETUP} message from TS_1 with IE <<basic-service <normal="" =="" call<br="">setup, Wideband speech default setup attributes> >> and IE</basic-service>
	< <call-information>> specifying (line 0) =<(0, 0, lid0)> 1a. Send a {CC-INFO} with IE <<multi keypad="">> set to Phone A number.</multi></call-information>
	 Pick up the call on Phone A Send a <start fields="0" identifier="01H," list="" nb="" of="" session,="" sorting=""> from TS_1</start>
	 Send a <read 02h,="" 03h,="" 04h,="" 05h,="" 06h,="" 07h="" 1n="01H," counter="1," direction="0," entries="" entries,="" entry="" field="" id="n," identifier="" index="1," list="" mark="" request="7FH," session="" start=""> from TS_1</read>
	5. Send a {CC-INFO} message from TS_1 with IE < <multi-keypad>> set to 1CH, 15H digits together with Phone B number and IE <<call-information>> specifying (line 0) =<(0, 0, lid0)></call-information></multi-keypad>
	6. Call pick up on Phone B
	7. If FT_IXIT_24 (Line 0 parallel call release) = SUPPORTED, then - send a {CC-INFO} message with IE << MULTI-KEYPAD >> set to (1CH, 33H) digits and with IE < <call-information>> specifying (call id a) =<(1, 0, value a)> from TS_1</call-information>
	Else (not supported) - send a {CC-INFO} message with IE << MULTI-KEYPAD >> set to (1CH, 38H) digits and with IE < <call-information>> specifying (call id a) =<(1, 0, value a)></call-information>
	from TS_1 8. If FT_IXIT_24 (Line 0 parallel call release) = SUPPORTED, then - send a {CC-INFO} message with IE << MULTI-KEYPAD >> set to (1CH, 33H) digits and with IE < <call-information>> specifying (call id b) =<(1, 0, value b)> from TS_1</call-information>
	Else (not supported) - send a {CC-INFO} message with IE << MULTI-KEYPAD >> set to (1CH, 33H) digits and with IE < <call-information>> specifying (call id a) =<(1, 0, value a)> from TS_1 9. Send a <read counter="1," direction="0," entries,="" id="n," index="1," mark<="" session="" start="" td=""></read></call-information>
	entries request= 7FH, list entry field identifier 1n =01H, 02H, 03H, 04H, 05H, 06H, 07H> from TS_1
	10. Send a {CC-RELEASE} from TS_1
Pass criteria:	1. Verify that IUT sends to TS_1 a {CC-SETUP-ACK} with IE < <call-information>> specifying at least (call id a, CS call setup ack) =<(1, 0, value a), (2, 1, 2)>, or (for an early {CC-CONNECT} implementation) a {CC-CONNECT} with no call status specifying (call id a) =<(1, 0, value a)></call-information>
	1a. Verify that the IUT sends to TS_1 in a {CC-CONNECT} or (for an early CC-CONNECT implementation) in a {CC-INFO} message, an IE <call-information>> specifying at least (call id a, CS call connect) =<(1, 0,</call-information>
	value a), (2, 1, 5)>
	 Verify end-to-end U-plane connection between TS_1 and Phone A Verify that the IUT sends to TS_1 a <start 1,="" confirm,="" discriminator="" field="" fields="1,sorting" id="n," id1="3" nb="" of="" or="" session="" sorting="" total="" type="0"></start>
	 Verify that the IUT sends to TS_1 a < Read entries confirm, session id=n> followed by <data data="" last="" packet=""> with 1st entry content (entry identifier = u): "Number" field set to CLIP B, "Name" field set to CNIP B, "Read status" field with </data>
	'unread' property bit set to 'read' (read=0B), and 'Number of calls' field set to 1 Verify end-to-end U-plane connection between TS_1 and Phone A 5. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
	< <call-information>> specifying (call id a, CS call hold) =<(1, 0, value a), (2, 1, 9)> followed by a {CC-INFO} message with IE <<call-information>> specifying at least (line 0, line type information, call id b) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value b)> Verify that IUT sends to TS_1 a {CC-INFO} message with IE <<call-information>> specifying (call id b, CS call alerting) =<(1, 0, value b),</call-information></call-information></call-information>
	 (2, 1, 4)>, or, if it is not the case, that Phone B rings. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE <<call-information>> specifying (call id b, CS call connect) =<(1, 0, value b), (2, 1, 5)></call-information>
	Verify end-to-end U-plane connection between TS_1 and Phone B 7. If FT_IXIT_24 (Line 0 parallel call release) = SUPPORTED, then - verify that the IUT sends to TS_1 a {CC-INFO} message with IE

1	-
	<ccall-information>> specifying (call id a, CS idle) =<(1, 0, value a), (2, 1, 0)> Else (not supported) - verify that the IUT sends to TS_1 a {CC-INFO} message with IE <<call-information>> specifying (call id b, CS idle) =<(1, 0, value b), (2, 1, 0)> followed by a {CC-INFO} message with IE <<call-information>> specifying (call id a, CS call connect) =<(1, 0, value a), (2, 1, 5)> 8. If FT_IXIT_24 (Line 0 parallel call release) = SUPPORTED, then - verify that the IUT sends to TS_1 a {CC-INFO} message with IE <<call-information>> specifying (call id b, CS idle) =<(1, 0, value b), (2, 1, 0)> Else (not supported) - verify that the IUT sends to TS_1 a {CC-INFO} message with IE <<call-information>> specifying (call id a, CS idle) =<(1, 0, value a), (2, 1, 0)> 9. Verify that the IUT sends to TS_1 a < Read entries confirm, session id=n> followed by <data data="" last="" packet=""> with 1st entry content (entry identifier = u):</data></call-information></call-information></call-information></call-information></ccall-information>
	"Number" field set to CLIP B, "Name" field set to CNIP B, "Read status" field with 'unread' property bit set to 'read' (read=0B), and 'Number of calls' field set to 1 10. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
Comments:	- The minimum necessary call statuses are tested here
	 Early {CC-CONNECT} and non-early {CC-CONNECT} cases are handled in the same test case (pass criteria 1 and 1a). Test equipment shall allow both implementations. Test equipment may rely on supplier declaration FT_IXIT_22 to know which implementation is used by the IUT In stimulus 7 and pass criterion 7, in case the IUT does not support parallel call release on line 0, (FT_IXIT_24 = NOT SUPPORTED), then the test equipment uses 1C38H instead of 1C 33H, and releases the calls in the reverse order

TC_FT_NG1.N.16_BV_1801	Outgoing calls list - Delete list - Read entries when empty
Reference:	TS 102 527-3 [14], Clause 7.4.10.5.4
Initial condition:	Service call in F-03
Stimulus:	 Send a <start fields="0" identifier="02H," list="" nb="" of="" session,="" sorting=""> from TS_1</start> Send a <delete id="n" list,="" session=""> from TS_1</delete> Send a {CC-RELEASE} from TS_1
	 Send a {CC-SETUP} message from TS_1 with IE <<basic-service <lia="" =="" attributes="" default="" service="" setup="" setup,="" speech="" wideband=""> >></basic-service>
	Send a <start fields="0" identifier="02H," list="" nb="" of="" session,="" sorting=""> from TS_1</start>
	 Send a <read counter="1," direction="0," entries,="" id="m," index="0," mark<br="" session="" start="">entries request= 00H, list entry field identifier 1n =01H, 02H, 03H, 04H, 05H > from TS_1</read>
	7. Send a <end id="n" session="" session,=""> from TS_1</end>
	8. Send a {CC-RELEASE} from TS_1
Pass criteria:	 Verify that the IUT sends to TS_1 a <start confirm,="" id="n," nb="t,<br" session="" total="">discriminator type=0 or 1, nb of sorting fields =1,sorting field id1 =3></start>
	2. Verify that the IUT sends to TS_1 a <delete confirm,="" id="n" list="" session=""></delete>
	3. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
	4. Verify that the IUT sends to TS_1 a {CC-CALL-PROC} message
	5. Verify that the IUT sends to TS_1 a <start confirm,="" id="m," nb="0,</td" session="" total=""></start>
	discriminator type=0 or 1, nb of sorting fields =1,sorting field id1 =3>
	6. Verify that the IUT sends to TS_1 a <negative acknowledgement,="" id="m,</td" session=""></negative>
	reject reason= invalid start index >
	7. Verify that the IUT sends to TS_1 a <end confirm,="" id="m" session=""></end>
	8. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message

TC_FT_NG1.N.16_BV_1802	Outgoing calls list - Read entries when new entries
Reference:	TS 102 527-3 [14], Clause 7.4.10.5.4
Initial condition:	Date and time of the system set, Outgoing calls list empty
	(see TC_FT_NG1.N.16_BV_1801), F-00
Stimulus:	1. Perform an outgoing call on line 0 to Phone A (Number A) from TS_1
	Perform an outgoing call on line 0 to Phone B (Number B) from TS_1
	Perform an outgoing call on line 0 to Phone A (Number A) from TS_1
	Send a {CC-SETUP} message from TS_1 with IE < <basic-service <lia="" =="" service<="" td=""></basic-service>
	setup, Wideband speech default setup attributes> >>
	2. Send a <start fields="0" identifier="02H," list="" nb="" of="" session,="" sorting=""> from TS_1</start>
	3. Send a <read counter="2," direction="0," entries,="" id="n," index="1," mark<="" session="" start="" td=""></read>
	entries request= 00H, list entry field identifier 1n =01H, 02H, 03H, 04H, 05H> from
	TS_1
	4. Send a <end id="n" session="" session,=""> from TS_1</end>
<u> </u>	5. Send a {CC-RELEASE} from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-CALL-PROC} message
	2. Verify that the IUT sends to TS_1 a <start confirm,="" id="n," nb="2</td" session="" total=""></start>
	or 3, discriminator type=0 or 1, nb of sorting fields =1,sorting field id1 =3>
	3. Verify that the IUT sends to TS_1 a < Read entries confirm, session id=n> followed
	by <data data="" last="" packet=""> with</data>
	1st entry: "Number" field set to Number A 2st dearth a "Number" field set to Number B
	2nd entry: "Number" field set to Number B "Determined Time!" field set to a transfer bell to a second them "Determined." "The second Time!" field set to a transfer bell to a second them "Determined."
	"Date and Time" field value of 1st entry shall be more recent than "Date and Time" field value of 2nd entry
	"Line id" field of both entries set to 'Line identifier for external call' and line 0
	value (0, lid0)
	 "Line name" field of both entries set to line name of line 0 (see Clause A.2.2 FT_IXIT_28)
	4. Verify that the IUT sends to TS_1 a <end confirm,="" id="n" session=""></end>
	5. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
Comments:	"Total number of available entries" field can be set to 2, or 3, as some FPs may either
	handle only one entry for the last call towards a remote party, or one entry per outgoing call
	Numbers in step 3 of pass criteria shall be the same than ones previously used during
	step 1 of stimulus
	Step 1 of stillidies

TC_FT_NG1.N.16_BV_1803	Outgoing calls list - Delete entry - Negative acknowledgement
1	
Reference:	TS 102 527-3 [14], Clause 7.4.10.5.4
Initial condition:	Run TC_FT_NG1.N.16_BV_1802 - Outgoing calls list open (session id=n)
Stimulus:	1. Send a <read counter="1," direction="0," entries,="" id="n," index="1," mark<="" session="" start="" td=""></read>
	entries request= 00H, list entry field identifier 1n =01H, 02H, 03H, 04H, 05H > from TS_1
	2. Send a <delete entry="" entry,="" id="n+1," identifier="u" session=""> from TS_1</delete>
	3. Send a <delete entry="" entry,="" id="n," identifier="u" session=""> from TS_1</delete>
	4. Send a <delete entry="" entry,="" id="n," identifier="u+3" session=""> from TS_1</delete>
	5. Send a <end id="n" session="" session,=""> from TS_1</end>
	6. Send a {CC-RELEASE} from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a < Read entries confirm, session id=n> followed by <data data="" last="" packet=""> with 1st entry content (entry identifier = u)</data>
	2. Verify that the IUT sends to TS_1 a <negative acknowledgement,="" id="n+1," number="" reason="invalid" reject="" session=""></negative>
	3. Verify that the IUT sends to TS_1 < Delete entry confirm, session id=n, total nb of available entries = 1 or 2>
	4. Verify that the IUT sends to TS_1 a <negative acknowledgement,="" available="" id="n," not="" reason="entry" reject="" session=""></negative>
	5. Verify that the IUT sends to TS_1 a <end confirm,="" id="n" session=""></end>
	6. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
Comments:	In step 4, 'u+3' identifier is invalid on IUT side

TC_FT_NG1.N.16_BV_1901	Incoming accepted calls list - Delete list - Read entries when empty
Reference:	TS 102 527-3 [14], Clause 7.4.10.5.5
Initial condition:	Service call in F-03
Stimulus:	1. Send a <start fields="0" identifier="03H," list="" nb="" of="" session,="" sorting=""> from TS_1</start>
	2. Send a <delete id="n" list,="" session=""> from TS_1</delete>
	3. Send a {CC-RELEASE} from TS_1
	 Send a {CC-SETUP} message from TS_1 with IE <<basic-service <lia="" =="" service<br="">setup, Wideband speech default setup attributes> >></basic-service>
	5. Send a <start fields="0" identifier="03H," list="" nb="" of="" session,="" sorting=""> from TS_1</start>
	6. Send a <read counter="1," direction="0," entries,="" id="m," index="0," mark<="" session="" start="" td=""></read>
	entries request= 00H, list entry field identifier 1n =01H, 02H, 03H, 04H, 05H > from
	TS_1
	Send a <end id="n" session="" session,=""> from TS_1</end>
	8. Send a {CC-RELEASE} from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a <start confirm,="" id="n," nb="t,</td" session="" total=""></start>
	discriminator type=0 or 1, nb of sorting fields =1,sorting field id1 =3>
	Verify that the IUT sends to TS_1 a <delete confirm,="" id="n" list="" session=""></delete>
	Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
	Verify that the IUT sends to TS_1 a {CC-CALL-PROC} message
	5. Verify that the IUT sends to TS_1 a <start confirm,="" id="m," nb="0,</td" session="" total=""></start>
	discriminator type=0 or 1, nb of sorting fields =1,sorting field id1 =3>
	6. Verify that the IUT sends to TS_1 a <negative acknowledgement,="" id="m,</td" session=""></negative>
	reject reason= invalid start index >
	7. Verify that the IUT sends to TS_1 a <end confirm,="" id="m" session=""></end>
	8. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message

TC FT NG1.N.16 BV 1902 Incoming accepted calls list - Read entries when new entries TS 102 527-3 [14], Clause 7.4.10.5.5 Reference: Initial condition: Date and time of the system set, Incoming accepted calls list empty (see TC_FT_NG1.N.16_BV_1901), F-00 Stimulus: Perform an incoming call on line 0 towards IUT from Phone B (CLIP B / CNIP B) to make the IUT ring 1a. Send a {CC-ALERTING} message from TS_1 Hang up on Phone A 1b. Perform an incoming call on line 0 towards IUT from Phone A (CLIP A / CNIP A) with answering Perform an incoming call on line 0 towards IUT from Phone B (CLIP B / CNIP B) with answering Perform an incoming call on line 0 towards IUT from Phone A (CLIP A / CNIP A) with answering 1c. Send a {CC-SETUP} message from TS 1 with IE <<BASIC-SERVICE = <LiA service setup, Wideband speech default setup attributes>>> Send a <Start session, List identifier = 03H, nb of sorting fields =0> from TS_1 Send a <Read entries, session id=n, start index=1, direction=0, counter=2, mark 3. entries request= 00H, list entry field identifier 1..n =01H, 02H, 03H, 04H, 05H > from TS 1 4. Send a <End session, session id=n> from TS 1 5. Send a {CC-RELEASE} from TS_1 Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE Pass criteria: <<CALL-INFORMATION>> specifying (line 0, line type information, call id a, CS call setup) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value a), (2, 1, 1)> 1a. Verify that the IUT sends to TS_1a {CC-RELEASE} message 1b. None 1c. Verify that the IUT sends to TS_1 a {CC-CALL-PROC} message Verify that the IUT sends to TS_1 a <Start session confirm, session id=n, total nb=2 2. or 3, discriminator type=0 or 1, nb of sorting fields =1,sorting field id1 =3> Verify that the IUT sends to TS_1 a < Read entries confirm, session id=n> followed by <data packet/data packet last> with 1st entry: "Number" field set to CLIP A, "Name" field set to CNIP A 2nd entry: "Number" field set to CLIP B, "Name" field set to CNIP B "Date and Time" field value of 1st entry shall be more recent than "Date and Time" field value of 2nd entry "Line id" field of both entries set to 'Line identifier for external call' and line 0 value (0, lid0) "Line name" field of both entries set to line name of line 0 (see Clause A.2.2 FT IXIT 28) 4. Verify that the IUT sends to TS_1 a <End session confirm, session id=n> Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message "Total number of available entries" field can be set to 2, or 3, as some FPs may either Comments: handle only one entry for the last call from a remote party, or one entry per incoming call. CLIP and CNIP in step 3 of pass criteria shall be the same than ones previously received during step 1 of stimulus In step 1a. TS 1 should wait for CC-ALERTING and then invite the user to hangup on Phone A via a display on the test equipment In pass criteria 1, the IUT will send some <<EVENT NOTIFICATIONS>> for the missed call, however this is not the purpose of the test case to check this In pass criteria 1b, the IUT may send some <<EVENT NOTIFICATIONS>> for the

incoming call list, however this is not the purpose of the test case to check this

TC_FT_NG1.N.16_BV_1903	Incoming accepted calls list - Delete entry - Negative acknowledgement
Reference:	TS 102 527-3 [14], Clause 7.4.10.5.5
Initial condition:	Run TC_FT_NG1.N.16_BV_1902 - Incoming accepted calls list open (session id=n)
Stimulus:	1. Send a <read counter="1," direction="0," entries,="" id="n," index="1," mark<="" session="" start="" td=""></read>
	entries request= 00H, list entry field identifier 1n =01H, 02H, 03H, 04H, 05H> from TS_1
	2. Send a <delete entry="" entry,="" id="n+1," identifier="u" session=""> from TS_1</delete>
	3. Send a <delete entry="" entry,="" id="n," identifier="u" session=""> from TS_1</delete>
	4. Send a <delete entry="" entry,="" id="n," identifier="u+3" session=""> from TS_1</delete>
	5. Send a <end id="n" session="" session,=""> from TS_1</end>
	6. Send a {CC-RELEASE} from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a < Read entries confirm, session id=n> followed by <data data="" last="" packet=""> with 1st entry content (entry identifier = u)</data>
	2. Verify that the IUT sends to TS_1 a <negative acknowledgement,="" id="n+1," number="" reason="invalid" reject="" session=""></negative>
	3. Verify that the IUT sends to TS_1 <delete 2="" available="" confirm,="" entries="1" entry="" id="n," nb="" of="" or="" session="" total=""></delete>
	4. Verify that the IUT sends to TS_1 a <negative acknowledgement,="" available="" id="n," not="" reason="entry" reject="" session=""></negative>
	5. Verify that the IUT sends to TS_1 a <end confirm,="" id="n" session=""></end>
	6. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
Comments:	In step 4, 'u+3' identifier is invalid on IUT side

TC_FT_NG1.N.16_BV_2001	All calls list - Delete list - Read entries when empty
Reference:	TS 102 527-3 [14], Clause 7.4.10.5.6
Initial condition:	Service call in F-03
Stimulus:	1. Send a <start fields="0" identifier="04H," list="" nb="" of="" session,="" sorting=""> from TS_1</start>
	2. Send a <delete id="n" list,="" session=""> from TS_1</delete>
	3. Send a {CC-RELEASE} from TS_1
	 Send a {CC-SETUP} message from TS_1 with IE <<basic-service <lia="" =="" attributes="" default="" service="" setup="" setup,="" speech="" wideband=""> >></basic-service>
	5. Send a <start fields="0" identifier="04H," list="" nb="" of="" session,="" sorting=""> from TS_1</start>
	6. Send a <read 02h,="" 03h,="" 04h,="" 05h,="" 06h="" 1n="01H," counter="1," direction="0," entries="" entries,="" entry="" field="" id="m," identifier="" index="0," list="" mark="" request="00H," session="" start=""> from TS 1</read>
	7. Send a <end id="n" session="" session,=""> from TS_1</end>
	8. Send a {CC-RELEASE} from TS_1
Pass criteria:	 Verify that the IUT sends to TS_1 a <start 1,="" confirm,="" discriminator="" field="" fields="1,sorting" id="n," id1="3" nb="" of="" or="" session="" sorting="" total="" type="0"></start>
	2. Verify that the IUT sends to TS_1 a <delete confirm,="" id="n" list="" session=""></delete>
	3. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
	4. Verify that the IUT sends to TS_1 a {CC-CALL-PROC} message
	5. Verify that the IUT sends to TS_1 a <start confirm,="" id="m," nb="0,</td" session="" total=""></start>
	discriminator type=0 or 1, nb of sorting fields =1,sorting field id1 =3>
	6. Verify that the IUT sends to TS_1 a <negative acknowledgement,="" id="m,</td" session=""></negative>
	reject reason= invalid start index >
	7. Verify that the IUT sends to TS_1 a <end confirm,="" id="m" session=""></end>
	8. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message

TC FT NG1 N 16 RV 2002	All calls list - Read entries when new entries
Reference:	TS 102 527-3 [14], Clause 7.4.10.5.6
Initial condition:	Date and time of the system set, 2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2), All
initial condition.	calls list empty (see TC_FT_NG1.N.16_BV_2001), F-00
Stimulus:	1. Perform an outgoing call on line 0 to Phone B (Number B=CLIP B) from TS_1
Ctimalas.	Perform an incoming call on line 0 towards IUT from Phone A (CLIP A / CNIP A) with
	answering on TS_1
	Perform an outgoing call on line 0 to Phone A (Number A) from TS_2
	1a. Perform an incoming call on line 0 towards IUT from Phone B (CLIP B / CNIP B) to
	make the IUT ring
	1b. Send a {CC-ALERTING} message from TS_1 and from TS_2
	Hang up on Phone B
	1c. Send a {CC-SETUP} message from TS_1 with IE < <basic-service <lia="" =="" service<="" td=""></basic-service>
	setup, Wideband speech default setup attributes> >>
	2. Send a <start fields="0" identifier="04H," list="" nb="" of="" session,="" sorting=""> from TS_1</start>
	3. Send a <read counter="4," direction="0," entries,="" id="n," index="1," mark<="" session="" start="" td=""></read>
	entries request= 00H, list entry field identifier 1n =01H, 02H, 03H, 04H, 05H, 06H>
	from TS_1
	4. Send a <end id="n" session="" session,=""> from TS_1</end>
	5. Send a {CC-RELEASE} from TS_1
Pass criteria:	1. None
	1a. Verify that the IUT sends to TS_1 a {CC-SETUP} message with IE
	< <call-information>> specifying (line 0, line type information, call id a, CS call</call-information>
	setup) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value a), (2, 1, 1)>
	1b. Verify that the IUT sends to TS_1a {CC-RELEASE} message
	1c. Verify that the IUT sends to TS_1 a {CC-CALL-PROC} message
	2. Verify that the IUT sends to TS_1 a <start confirm,="" id="n," nb="4,</td" session="" total=""></start>
	discriminator type=0 or 1, nb of sorting fields =1,sorting field id1 =4>
	3. Verify that the IUT sends to TS_1 a < Read entries confirm, session id=n> followed by <data data="" last="" packet=""> with:</data>
	1st entry: "Call type" field set to "Missed call", "Number" field set to CLIP B,
	"Name" field set to CNIP B
	2 nd entry: "Call type" field set to "Outgoing call", "Number" field set to Number A
	3 rd entry: "Call type" field set to "Accepted call", "Number" field set to CLIP A,
	"Name" field set to CNIP A
	4 th entry: "Call type" field set to "Outgoing call", "Number" field set to Number B
	 "Date and Time" field value of lowest index entry shall be more recent than "Date
	and Time" field value of highest index entry
	"Line id" field of all entries set to 'Line identifier for external call' and line 0 value
	(0, lid0
	 "Line name" field of all entries set to line name of line 0 (see Clause A.2.2
	FT_IXIT_28)
	4. Verify that the IUT sends to TS_1 a <end confirm,="" id="n" session=""></end>
	5. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
Comments:	- In stimulus 1, the outgoing and incoming calls are initiated and terminated
	sequentially within the stimulus. Purpose is only to create new entries in the 'All
	calls' list
	- Both TS_1 and TS_2 are attached to line 0. However, in pass criteria 1a and
	1b, call establishment and release are only verified for TS_1
	 Number, CLIP and CNIP in step 3 of pass criteria shall be the same than ones
	previously used and during step 1 of stimulus. Same remark for Number
	composed
	- In step 1b, TS_1 should send CC-ALERTING and then invite the user to
	hangup on Phone B via a display on the test equipment

ETSI

TC_FT_NG1.N.16_BV_2003	All calls list - Delete entry - Negative acknowledgement
Reference:	TS 102 527-3 [14], Clause 7.4.10.5.6
Initial condition:	Run TC_FT_NG1.N.16_BV_2002 - All calls list open (session id=n)
Stimulus:	1. Send a <read 02h,="" 03h,="" 04h,="" 05h,="" 06h,="" 1n="01H," counter="1," direction="0," entries="" entries,="" entry="" field="" id="n," identifier="" index="1," list="" mark="" request="00H," session="" start=""> from TS_1</read>
	2. Send a <delete entry="" entry,="" id="n+1," identifier="u" session=""> from TS_1</delete>
	3. Send a <delete entry="" entry,="" id="n," identifier="u" session=""> from TS_1</delete>
	4. Send a <delete entry="" entry,="" id="n," identifier="u+3" session=""> from TS_1</delete>
	5. Send a <end id="n" session="" session,=""> from TS_1</end>
	6. Send a {CC-RELEASE} from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a < Read entries confirm, session id=n> followed by <data data="" last="" packet=""> with 1st entry content (entry identifier = u)</data>
	2. Verify that the IUT sends to TS_1 a <negative acknowledgement,="" id="n+1," number="" reason="invalid" reject="" session=""></negative>
	3. Verify that the IUT sends to TS_1 <delete available="" confirm,="" entries="3" entry="" id="n," nb="" of="" session="" total=""></delete>
	4. Verify that the IUT sends to TS_1 a <negative acknowledgement,="" available="" id="n," not="" reason="entry" reject="" session=""></negative>
	5. Verify that the IUT sends to TS_1 a <end confirm,="" id="n" session=""></end>
	6. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
Comments:	In step 4, 'u+3' identifier is invalid on IUT side

TC_FT_NG1.N.16_BV_2101	Contact list - Delete list - Read entries when empty
Reference:	TS 102 527-3 [14], Clauses 7.4.10.5.6 and 7.4.10.1, 'Field instances management' entry
Initial condition:	Service call in F-03
Stimulus:	 Send a <start fields="0" identifier="05H," list="" nb="" of="" session,="" sorting=""> from TS_1</start> Send a <delete id="n" list,="" session=""> from TS_1</delete>
	3. Send a {CC-RELEASE} from TS_1
	 Send a {CC-SETUP} message from TS_1 with IE <<basic-service <lia="" =="" attributes="" default="" service="" setup="" setup,="" speech="" wideband=""> >></basic-service>
	5. Send a <start fields="0" identifier="05H," list="" nb="" of="" session,="" sorting=""> from TS_1</start>
	 Send a <read counter="1," direction="0," entries,="" id="m," index="0," mark<br="" session="" start="">entries request= 00H, list entry field identifier 1n =01H, 02H, 03H, 03H, 04H, 05H > from TS 1</read>
	7. Send a <end id="n" session="" session,=""> from TS_1</end>
	8. Send a {CC-RELEASE} from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a <start 1,="" 2="" 2,="" case="" confirm,="" discriminator="" field="" fields="" id="n," id1="1," id2="2" in="" nb="" of="" or="" session="" sorting="" total="" type="0"></start>
	2. Verify that the IUT sends to TS_1 a <delete confirm,="" id="n" list="" session=""></delete>
	3. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
	4. Verify that the IUT sends to TS_1 a {CC-CALL-PROC} message
	 Verify that the IUT sends to TS_1 a <start confirm,="" id="m," nb="0,<br" session="" total="">discriminator type=0 or 1, nb of sorting fields =1,sorting field id1 =1></start>
	 Verify that the IUT sends to TS_1 a <negative acknowledgement,="" id="m,<br" session="">reject reason= invalid start index ></negative>
	7. Verify that the IUT sends to TS_1 a <end confirm,="" id="m" session=""></end>
	8. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
Comments:	In stimulus 6, presence of field id '03'H twice is explained at the beginning of Clause 7.16, 'Multiple instances of the 'contact number' field in the contact list' clause

TC_FT_NG1.N.16_BV_2102 | Contact list - Save entry - Read entries in ascending order Reference: TS 102 527-3 [14], Clauses 7.4.10.5.7 and 7.4.10.1, 'Field instances management' entry Initial condition: Contact list empty (see TC_FT_NG1.N.16_BV_2101), Service call in F-03 Stimulus: Send a <Start session, List identifier = 05H, nb of sorting fields =0> from TS_1 Send a <Save entry, session id=n, entry identifier = 00H > from TS 1 followed by <data packet/data packet last> set to (Name= Fenjiro, First name= Carlos, Contact number1= 0490413002) and (Associated melody= 1) when declared (see Annex A, Send a <Save entry, session id=n, entry identifier = 00H > from TS 1 followed by <data packet/data packet last> set to (Name= Alexander, First name= Christina, Contact number1= 00441324778812) and (Associated melody= 1) when declared (see Annex A, Table A.15) Send a <Save entry, session id=n, entry identifier = 00H > from TS_1 followed by <data packet/data packet last> set to (Name= Uwe, First name= Marcus, Contact number1= 008989945270, Contact number2= 00491603794505, Line id=(3, lid0)) and (Associated melody= 2) when declared (see Annex A, Table A.15) Send a <Save entry, session id=n, entry identifier = 00H > from TS_1 followed by <data packet/data packet last> set to (Name= ALOUSSI, First name= Ramin, Contact number1= 0156891247, Contact number2= 0675000209) and (Associated melody= 1) when declared (see Annex A, Table A.15) Send a <Save entry, session id=n, entry identifier = 00H > from TS_1 followed by <data packet/data packet last> set to (Name= Alexander, First name= Christian, Contact number1= 00441324778824) and (Associated melody= 1) when declared (see Annex A, Table A.15) Send a <Save entry, session id=n, entry identifier = 00H > from TS 1 followed by <data packet/data packet last> set to (Name= Lagadec, First name= Jérôme, Contact number1= 02298951214, Line id=(4) "All lines") and (Associated melody= 3) when declared (see Annex A, Table A.15) Send a <Read entries, session id=n, start index=1, direction=0, counter=2, mark entries request= 00H, list entry field identifier 1..n =01H, 02H, 03H, 03H, 04H, 05H> from TS_1 Send a <Read entries, session id=n, start index=3, direction=0, counter=2, mark entries request= 00H, list entry field identifier 1..n =01H, 02H, 03H, 03H, 04H, 05H> 10. Send a <Read entries, session id=n, start index=5, direction=0, counter=2, mark entries request= 00H, list entry field identifier 1..n =01H, 02H, 03H, 03H, 04H, 05H> from TS 1 11. Send a <End session, session id=n> from TS_1 Send a {CC-RELEASE} from TS_1 1. Verify that the IUT sends to TS_1 a <Start session confirm, session id=n, total nb=0, Pass criteria: discriminator type = 0 or 1, nb of sorting fields = 1 or 2, sorting field id1 = 1, sorting field id2 =2 in case of 2 sorting fields > Verify that the IUT sends to TS_1 a <Save entry confirm, session id=n, entry identifier= u, position index=1, total nb of available entries= 1> Verify that the IUT sends to TS_1 a <Save entry confirm, session id=n, entry identifier= v, position index=1, total nb of available entries= 2> Verify that the IUT sends to TS_1 a <Save entry confirm, session id=n, entry identifier= w, position index=3, total nb of available entries= 3> Verify that the IUT sends to TS_1 a <Save entry confirm, session id=n, entry identifier= x, position index=2, total nb of available entries= 4> Verify that the IUT sends to TS_1 a <Save entry confirm, session id=n, entry identifier= y, position index=1, total nb of available entries= 5> Verify that the IUT sends to TS_1 a <Save entry confirm, session id=n, entry identifier= z, position index=5, total nb of available entries= 6> Verify that the IUT sends to TS_1 a <Read entries confirm, session id=n, start index=1, counter=2> followed by <data packet/data packet last> with entries created in steps 6 and 3 (Alexander Christian / Alexander Christina) with Line id field set by default by IUT to "Relating to" one line =(3, i) or "All lines" =(4) Verify that the IUT sends to TS_1 a <Read entries confirm, session id=n, start index=3, counter=2> followed by <data packet/data packet last> with entries created in steps 5 and 2 (ALOUSSI Ramin / Fenjiro Carlos) 10. Verify that the IUT sends to TS_1 a <Read entries confirm, session id=n, start index=5, counter=2> followed by <data packet/data packet last> with entries created in steps 7 and 4 (Lagadec Jérôme with Line id field set to "All lines" =(4), and Uwe Marcus-with Line id field set "Relating to" line 0 =(3, lid0)) 11. Verify that the IUT sends to TS_1 a <End session confirm, session id=m> 12. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message

- UTF-8 characters encoding:

Comments:

 "é": LATIN SMALL LETTER E WITH ACUTE 'c3a9'H
 "ô": LATIN SMALL LETTER O WITH CIRCUMFLEX 'c3b4'H
 In pass criterion 8, and in case the FP uses a single sorting field (sorting by
Name only), the two contacts received may be in any order
 In stimuli 8, 9, and 10, presence of field id '03'H twice is explained at the
beginning of Clause 7.16, 'Multiple instances of the 'contact number' field in
the contact list' clause

TC_FT_NG1.N.16_BV_2103	Contact list - Query supported entry fields - Read entries in descending order
Reference:	TS 102 527-3 [14], Clauses 7.4.10.5.7 and 7.4.10.1, 'Field instances management' entry
Initial condition:	Contact list filled for test (see TC_FT_NG1.N.16_BV_2102), Service call in F-03
Stimulus:	1. Send a <start fields="0" identifier="05H," list="" nb="" of="" session,="" sorting=""> from TS_1</start>
	2. Send a <query entry="" fields="" supported=""> from TS_1</query>
	3. Send a <read counter="02H," direction="1," entries,="" id="n," index="0," mark<="" session="" start="" td=""></read>
	entries request= 00H, list entry field identifier 1n =01H, 02H, 03H, 03H, 04H, 05H>
	from TS_1
	4. Send a <read counter="02H," direction="1," entries,="" id="n," index="4," mark<="" session="" start="" td=""></read>
	entries request= 00H, list entry field identifier 1n =01H, 02H, 03H, 03H, 04H, 05H> from TS_1
	5. Send a <read counter="02H," direction="1," entries,="" id="n," index="2," mark<="" session="" start="" td=""></read>
	entries request= 00H, list entry field identifier 1n =01H, 02H, 03H, 03H, 04H, 05H>
	from TS_1
	6. Send a <end id="n" session="" session,=""> from TS_1</end>
	7. Send a {CC-RELEASE} from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a <start confirm,="" id="n," nb="6,</td" session="" total=""></start>
	discriminator type = 0 or 1, nb of sorting fields = 1 or 2, sorting field id1 =1, sorting
	field id2 =2 in case of 2 sorting fields >
	2. Verify that the IUT sends to TS_1 a < Query supported entry fields confirm, session
	id=n>. with editable entry field including at the minimum
	01H Name
	02H First Name
	03H Contact number (for contact number1)
	03H Contact number (for contact number2)
	04H Associated melody when declared (see Annex A, Table A.15)
	05H Line id
	3. Verify that the IUT sends to TS_1 a <read confirm,="" entries="" id="n," session="" start<="" td=""></read>
	index=5, counter=2> followed by <data data="" last="" packet=""> with entries created</data>
	in TC_FT_NG1.N.16_BV_2102 steps 7 and 4 (Lagadec Jérôme / Uwe Marcus)
	4. Verify that the IUT sends to TS_1 a <read confirm,="" entries="" id="n," session="" start<="" td=""></read>
	index=3, counter=2> followed by <data data="" last="" packet=""> with entries created</data>
	in TC_FT_NG1.N.16_BV_2102 steps 5 and 2 (ALOUSSI Ramin / Fenjiro Carlos)
	5. Verify that the IUT sends to TS_1 a <read confirm,="" entries="" id="n," session="" start<="" td=""></read>
	index=1, counter=2> followed by <data data="" last="" packet=""> with entries created</data>
	in TC_FT_NG1.N.16_BV_2102 steps 6 and 3 (Alexander Christian / Alexander
	Christina)
	6. Verify that the IUT sends to TS_1 a <end confirm,="" id="n" session=""></end>
	7. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
Comments:	- The entry with the lowest index shall be transmitted first in the data packets
	- In pass criterion 5, and in case the FP uses a single sorting field (sorting by
	Name only), the two contacts received may be in any order
	- In stimuli 3, 4, and 5, presence of field id '03'H twice is explained at the
	beginning of Clause 7.16, 'Multiple instances of the 'contact number' field in the
	contact list' clause

TC_FT_NG1.N.16_BV_2104	Contact list - Edit entry - add a second contact number field to an entry
Reference:	TS 102 527-3 [14], Clauses 7.4.10.5.7 and 7.4.10.1, 'Field instances management' entry
Initial condition:	Contact list filled for test (see TC_FT_NG1.N.16_BV_2102), Service call in F-03
Stimulus:	1. Send a <start fields="0" identifier="05H," list="" nb="" of="" session,="" sorting=""> from TS_1</start>
	 Send a <read counter="01H," direction="0," entries,="" id="n," index="5," mark<br="" session="" start="">entries request= 00H, list entry field identifier 1m =01H, 02H, 03H, 03H, 04H, 05H> from TS 1</read>
	3. Send a <edit 03h="" 12="03H," entry="" entry,="" field="" id="n," identifier="" list="" session=""> from TS_1</edit>
	 Send a <save entry="" entry,="" id="n," identifier="u" session=""> from TS_1 followed by <data packet/data packet last> set to (Contact number1= 02298951214, Contact number2= 0611223344)</data </save>
	 Send a <read counter="01H," direction="0," entries,="" id="n," index="5," mark<br="" session="" start="">entries request= 00H, list entry field identifier 1n =01H, 02H, 03H, 03H, 04H, 05H> from TS_1</read>
	6. Send a <end id="n" session="" session,=""> from TS_1</end>
	7. Send a {CC-RELEASE} from TS_1
Pass criteria:	 Verify that the IUT sends to TS_1 a <start confirm,="" id="n," nb="6,<br" session="" total="">discriminator type = 0 or 1, nb of sorting fields = 1 or 2, sorting field id1 =1, sorting field id2 =2 in case of 2 sorting fields ></start>
	2. Verify that the IUT sends to TŠ_1 a <read confirm,="" counter="1" entries="" id="n," index="5," session="" start=""> followed by <data data="" last="" packet=""> with entry (entry</data></read>
	3. Verify that the IUT sends to TS_1 a < Edit entry confirm, session id=n> followed by
	4. Verify that the IUT sends to TS_1 a <save available="" confirm,="" entries="6" entry="" id="n," identifier="u," index="5," nb="" of="" position="" session="" total=""></save>
	 Verify that the IUT sends to TS_1 a <read confirm,="" entries="" id="n," session="" start<br="">index=5, counter=1> followed by <data data="" last="" packet=""> set to (Name=</data></read>
	0611223344, Line id=(4)) and (Associated melody= 3) when declared (see Annex A,
	,
Commonts:	
Comments.	beginning of Clause 7.16, 'Multiple instances of the 'contact number' field in the
Comments:	 Verify that the IUT sends to TŠ_1 a <read confirm,="" counter="1" entries="" id="n," index="5," session="" start=""> followed by <data data="" last="" packet=""> with entry (entry identifier=u) created in TC_FT_NG1.N.16_BV_2102 step 7 (Lagadec Jérôme)</data></read> Verify that the IUT sends to TS_1 a < Edit entry confirm, session id=n> followed by <data data="" last="" packet=""> with only one field (Contact number1=02298951214</data> Verify that the IUT sends to TS_1 a <save available="" confirm,="" entries="6" entry="" id="n," identifier="u," index="5," nb="" of="" position="" session="" total=""></save> Verify that the IUT sends to TS_1 a <read confirm,="" counter="1" entries="" id="n," index="5," session="" start=""> followed by <data data="" last="" packet=""> set to (Name= Lagadec, First name= Jérôme, Contact number1= 02298951214, Contact number2 0611223344, Line id=(4)) and (Associated melody= 3) when declared (see Annex a Table A.15)</data></read> Verify that the IUT sends to TS_1 a <end confirm,="" id="n" session=""></end> Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message In stimuli 2, 3 and 5, presence of field id '03'H twice is explained at the

TC_FT_NG1.N.16_BV_2105	Contact list - Edit entry - Save entry without changing the entry
Reference: Initial condition:	TS 102 527-3 [14], Clauses 7.4.10.5.7 and 7.4.10.1, 'Field instances management' entry Contact list filled for test (see TC_FT_NG1.N.16_BV_2102), Service call in F-03
Stimulus:	 Send a <start fields="0" identifier="05H," list="" nb="" of="" session,="" sorting=""> from TS_1</start> Send a <read 02h,="" 03h,="" 04h,="" 05h="" 1m="01H," counter="01H," direction="0," entries="" entries,="" entry="" field="" id="n," identifier="" index="0," list="" mark="" request="00H," session="" start=""> from TS_1</read>
	3. Send a <edit 03h="" 1="03H," entry="" entry,="" field="" id="n," identifier="" list="" session=""> from TS_1</edit>
	4. Send a <save entry="" entry,="" id="n," identifier="u" session=""> from TS_1 followed by an empty <data last="" packet=""></data></save>
	5. Send a <read 02h,="" 03h,="" 04h,="" 05h="" 1n="01H," counter="01H," direction="0," entries="" entries,="" entry="" field="" id="n," identifier="" index="6," list="" mark="" request="00H," session="" start=""> from TS_1</read>
	6. Send a <end id="n" session="" session,=""> from TS_1</end>
Pass criteria:	 7. Send a {CC-RELEASE} from TS_1 1. Verify that the IUT sends to TS_1 a <start 1,="" 2="" 2,="" case="" confirm,="" discriminator="" field="" fields="" id="n," id1="1," id2="2" in="" nb="" of="" or="" session="" sorting="" total="" type="0"></start>
	2. Verify that the IUT sends to TS_1 a <read confirm,="" counter="1" entries="" id="n," index="6," session="" start=""> followed by <data data="" last="" packet=""> with entry (entry identifier=u) created in TC_FT_NG1.N.16_BV_2102 step 4 (Uwe Marcus)</data></read>
	3. Verify that the IUT sends to TS_1 a < Edit entry confirm, session id=n> followed by <data data="" last="" packet=""> with only one field (Contact Number1=008989945270, Contact Number2=00491603794505)</data>
	4. Verify that the IUT sends to TS_1 a <save available="" confirm,="" entries="6" entry="" id="n," identifier="u," index="6," nb="" of="" position="" session="" total=""></save>
	 5. Verify that the IUT sends to TS_1 a <read confirm,="" counter="1" entries="" id="n," index="6," session="" start=""> followed by <data data="" last="" packet=""> set to (Name= Uwe, First name= Marcus, Contact number1= 008989945270, Line id=(3, lid0)) and (Associated melody= 2) when declared (see Annex A, Table A.15)</data></read> 6. Verify that the IUT sends to TS_1 a <end confirm,="" id="n" session=""></end>
Comments:	7. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message In stimuli 2, 3, and 5, presence of field id '03'H twice is explained at the beginning of Clause 7.16, 'Multiple instances of the 'contact number' field in the contact list' clause

TC_FT_NG1.N.16_BV_2106	Contact list - Search entries using matching options
Reference:	TS 102 527-3 [14], Clauses 7.4.10.5.7 and 7.4.10.4.8 and 7.4.10.1, 'Field instances
	management' entry
Initial condition:	Contact list filled for test (see TC_FT_NG1.N.16_BV_2102), Service call in F-03
Stimulus:	 Send a <start fields="0" identifier="05H," list="" nb="" of="" session,="" sorting=""> from TS_1</start> None
	 Send a <search ,="" 02h,="" 03h,="" 04h,="" 05h="" 1n="01H," counter="01H," direction="0," entries="" entries,="" entry="" field="" id="n," identifier="" list="" mark="" matching="" option="00H," request="00H," searched="" session="" value="FENJIRO"> from TS_1</search>
	4. None
	 Send a <search ,<br="" entries,="" id="n," matching="" option="01H," searched="" session="" value="AL">direction=0, counter=01H, mark entries request= 00H, list entry field identifier 1n =01H, 02H, 03H, 03H, 04H, 05H> from TS_1</search>
	6. None
	 Send a <search ,<br="" entries,="" id="n," matching="" option="02H," searched="" session="" value="AL">direction=0, counter=01H, mark entries request= 00H, list entry field identifier 1n =01H, 02H, 03H, 03H, 04H, 05H> from TS_1</search>
	8. Send a <end id="n" session="" session,=""> from TS_1</end>
	9. Send a {CC-RELEASE} from TS_1
Pass criteria:	 Verify that the IUT sends to TS_1 a <start 1,="" 2="" 2,="" case="" confirm,="" discriminator="" field="" fields="" id="n," id1="1," id2="2" in="" nb="" of="" or="" session="" sorting="" total="" type="0"></start>
	2. None
	 Verify that the IUT sends to TS_1 a < Search entries confirm, session id=n, start index=4, direction=0, counter=1> followed by <data data="" last="" packet=""> with entry created in TC_FT_NG1.N.16_BV_2102 step 2 (Fenjiro Carlos)</data>
	4. None
	 Verify that the IUT sends to TS_1 a < Search entries confirm, session id=n, start index=1, direction=0, counter=1> followed by <data data="" last="" packet=""> with entry created in TC_FT_NG1.N.16_BV_2102 step 6 (Alexander Christian)</data>
	6. None
	7. Verify that the IUT sends to TS_1 a < Search entries confirm, session id=n, start
	index=0, direction=0, counter=0> without <data data="" last="" packet=""></data>
	8. Verify that the IUT sends to TS_1 a <end confirm,="" id="n" session=""></end>
	9. Verify that the IUT sends to TS_1 a <cc-release-com} message<="" td=""></cc-release-com}>
Comments:	In stimuli 2 to 7, presence of field id '03'H twice is explained at the beginning of
Comments.	Clause 7.16, 'Multiple instances of the 'contact number' field in the contact list' clause

TC ET NC4 N 46 DV 2407	Contest list. Course estrice in consending order and decounting order
TC_FT_NG1.N.16_BV_2107	Contact list - Search entries in ascending order and descending order
Reference:	TS 102 527-3 [14], Clauses 7.4.10.5.7 and 7.4.10.4.8 and 7.4.10.1, 'Field instances
	management' entry
Initial condition:	Contact list filled for test (see TC_FT_NG1.N.16_BV_2102), Service call in F-03
Stimulus:	1. Send a <start fields="0" identifier="05H," list="" nb="" of="" session,="" sorting=""> from TS_1</start>
	2. Send a <search ,<="" entries,="" id="n," matching="" option="01H," searched="" session="" td="" value="L"></search>
	direction=0, counter=02H, mark entries request= 00H, list entry field identifier 1n
	=01H, 02H, 03H, 03H, 04H, 05H> from TS_1
	3. Send a <search ,<="" entries,="" id="n," matching="" option="01H," searched="" session="" td="" value="L"></search>
	direction=1, counter=02H, mark entries request= 00H, list entry field identifier 1n
	=01H, 02H, 03H, 03H, 04H, 05H> from TS_1
	4. Send a <end id="n" session="" session,=""> from TS_1</end>
	5. Send a {CC-RELEASE} from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a <start confirm,="" id="n," nb="6,</td" session="" total=""></start>
	discriminator type = 0 or 1, nb of sorting fields = 1 or 2, sorting field id1 =1, sorting
	field id2 =2 in case of 2 sorting fields >
	2. Verify that the IUT sends to TS_1 a < Search entries confirm, session id=n, start
	index=5, direction=0, counter=2> followed by <data data="" last="" packet=""> with</data>
	entries created in TC_FT_NG1.N.16_BV_2102 steps 7 and 4 (Lagadec Jérôme /
	Uwe Marcus)
	3. Verify that the IUT sends to TS_1 a < Search entries confirm, session id=n, start
	index=4, direction=0, counter=2> followed by <data data="" last="" packet=""> with</data>
	entries created in TC_FT_NG1.N.16_BV_2102 steps 2 and 7 (Fenjiro Carlos /
	Lagadec Jérôme), entry with index 4 transmitted first in the data packets
	4. Verify that the IUT sends to TS_1 a <end confirm,="" id="n" session=""></end>
	5. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
Comments:	In stimuli 2 and 3, presence of field id '03'H twice is explained at the beginning of
Commonto.	Clause 7.16, 'Multiple instances of the 'contact number' field in the contact list' clause
	Clause 1.10, Manaple instances of the contact number field in the contact list clause

TC_FT_NG1.N.16_BV_2108	Contact list - Initiate a voice call during a list access session
Reference:	TS 102 527-3 [14], Clauses 7.4.10.5.7 and 7.4.10.5.4 and 7.4.10.1, 'Field instances
	management' entry
Initial condition:	Contact list filled for test (see TC_FT_NG1.N.16_BV_2102),
	F-00
Stimulus:	 Send a {CC-SETUP} message from TS_1 with IE <<basic-service <lia="" =="" attributes="" default="" service="" setup="" setup,="" speech="" wideband=""> >></basic-service>
	2. Send a <start fields="0" identifier="05H," list="" nb="" of="" session,="" sorting=""> from TS_1</start>
	3. Send a <read 02h,="" 03h,="" 04h,="" 05h="" 1n="01H," counter="01H," direction="0," entries="" entries,="" entry="" field="" id="n," identifier="" index="6," list="" mark="" request="00H," session="" start=""> from TS_1</read>
	4. Send a {CC-INFO} message with IE < <multi-keypad>> set to 1CH, 15H digits together with "008989945270" digits and IE <<call-information>> specifying (line 0) =<(0, 0, lid0)> from TS_1</call-information></multi-keypad>
	5. Send a <end id="n" session="" session,=""> from TS_1</end>
	6. Send a {CC-RELEASE} from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-CALL-PROC} message
	2. Verify that the IUT sends to TS_1 a <start 1,="" 2="" 2,="" case="" confirm,="" discriminator="" field="" fields="" id="n," id1="1," id2="2" in="" nb="" of="" or="" session="" sorting="" total="" type="0"></start>
	3. Verify that the IUT sends to TS_1 a <read confirm,="" counter="1" entries="" id="n," index="6," session="" start=""> followed by <data data="" last="" packet=""> set to (Name= Uwe, First name= Marcus, Contact number1= 008989945270, Line id=(3, lid0)) and (Associated melody= 2) when declared (see Annex A, Table A.15)</data></read>
	 4. Verify that the IUT sends to TS_1 a {CC-CONNECT} message, followed by a {CC-INFO} message with IE <<call-information>> specifying at least (line 0, line type information, call id a) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value a)></call-information> 5. Verify that the IUT sends to TS_1 a <end confirm,="" id="n" session=""></end> 6. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
Comments:	In stimulus 3, presence of field id '03'H twice is explained at the beginning of Clause 7.16, 'Multiple instances of the 'contact number' field in the contact list' clause

TC_FT_NG1.N.16_BV_2109	Contact list - Entry used to update Outgoing call list
Reference:	TS 102 527-3 [14], Clauses 7.4.10.5.7 and 7.4.10.5.4 and 7.4.10.1, 'Field instances management' entry
Initial condition:	Run TC_FT_NG1.N.16_BV_2108 (outgoing call during contact list session using 'Marcus
initial condition.	, o o
	Uwe' entry), F-00
Chimanulum	
Stimulus:	1. Send a {CC-SETUP} message from TS_1 with IE < <basic-service <lia="" =="" service<="" td=""></basic-service>
	setup, Wideband speech default setup attributes>>>
	1a. Send a <start fields="0" identifier="05H," list="" nb="" of="" session,="" sorting=""> from TS_1</start>
	1b. Send a <read counter="03H," direction="0," entries,="" id="n," index="1," mark<="" session="" start="" td=""></read>
	entries request= 00H, list entry field identifier 1n =01H, 02H, 03H, 03H, 04H, 05H>
	from TS_1
	2. Send a {CC-INFO} message with IE < <multi-keypad>> set to 1CH 15H digits</multi-keypad>
	together with "00445678901234567890" digits and IE < <call-information>></call-information>
	specifying (line 0) =<(0, 0, lid0)> from TS_1
	 3. Send a {CC-RELEASE} from TS_1 4. Send a {CC-SETUP} message from TS_1 with IE <<basic-service <lia="" =="" li="" service<=""> </basic-service>
	setup, Wideband speech default setup attributes>>>
	 5. Send a <start fields="0" identifier="02H," list="" nb="" of="" session,="" sorting=""> from TS_1</start> 6. Send a <read counter="2," direction="0," entries,="" id="n," index="1," li="" mark<="" session="" start=""> </read>
	entries request= 00H, list entry field identifier 1n =01H, 02H, 03H, 04H, 05H> from
	TS_1
	7. Send a <end id="n" session="" session,=""> from TS_1</end>
	8. Send a {CC-RELEASE} from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-CALL-PROC} message
rass citiena.	1a. Verify that the IUT sends to TS_1 a {CC-CALL*PROC} message 1a. Verify that the IUT sends to TS_1 a <start confirm,="" id="n," nb="6,</td" session="" total=""></start>
	discriminator type = 0 or 1, nb of sorting fields = 1 or 2, sorting field id1 =1, sorting
	field id2 =2 in case of 2 sorting fields >
	1b. Verify that the IUT sends to TS_1 a <read confirm,="" entries="" id="n," session="" start<="" td=""></read>
	index=0, counter=3> followed by <data data="" last="" packet=""></data>
	2. Verify that the IUT sends to TS_1 a {CC-CONNECT} message, followed by a
	{CC-INFO} message with IE < <call-information>> specifying at least (line 0,</call-information>
	line type information, call id a) = $<(0, 0, \text{lid0}), (0, 5, \text{lt0}), (1, 0, \text{value a})>$
	3. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
	4. Verify that the IUT sends to TS_1 a {CC-CALL-PROC} message
	5. Verify that the IUT sends to TS_1 a <start confirm,="" id="n," nb="x,</td" session="" total=""></start>
	discriminator type=0 or 1, nb of sorting fields =1,sorting field id1 =3>
	6. Verify that the IUT sends to TS_1 a < Read entries confirm, session id=n> followed
	by <data data="" last="" packet=""> with</data>
	1 st entry: "Number" field set to "00445678901234567890" and empty "Name" field
	2 nd entry: "Number" field set to "008989945270" and "Name" field containing
	"Uwe"
	 "Date and Time" field value of 1st entry shall be more recent than "Date and Time"
	field value of 2 nd entry
	 "Line id" field of both entries set to 'Line identifier for external call' and line 0 value
	(0, lid0)
	 "Line name" field of both entries set to line name of line 0 (see Clause A.2.2
	FT_IXIT_28)
	7. Verify that the IUT sends to TS_1 a <end confirm,="" id="n" session=""></end>
	8. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
Comments:	- The purpose of the test case is to make sure that when placing an outgoing
Commond.	call, if the dialled number matches one of the contact list entry, the
	corresponding contact list entry name shall be used in the outgoing call log
	- In stimulus 2, a phone number which does not exist in contact list is dialed on
	purpose (to see empty name)
	- In stimulus 1b, presence of field id '03'H twice is explained at the beginning of
	Clause 7.16, 'Multiple instances of the 'contact number' field in the contact list'
	clause
	- In Pass criteria 6, the name field of the outgoing call list shall contain at least
	the name of "Uwe" contained in the contact list (but it may also additionally
	contain the first name of the contact list before or after the name)
	contain the first name of the contact list before or after the name)

TC_FT_NG1.N.16_BV_2110	Contact list - Delete entry - Negative acknowledgement
Reference:	TS 102 527-3 [14], Clauses 7.4.10.5.7 and 7.4.10.1, 'Field instances management' entry
Initial condition:	Contact list filled for test (see TC_FT_NG1.N.16_BV_2102), contact list open (session
	id=n)
Stimulus:	1. Send a <read 02h,="" 03h,="" 04h,="" 05h="" 1n="01H," counter="1," direction="0," entries="" entries,="" entry="" field="" id="n," identifier="" index="1," list="" mark="" request="00H," session="" start=""> from TS_1</read>
	2. Send a <delete entry="" entry,="" id="n+1," identifier="u" session=""> from TS_1</delete>
	3. Send a <delete entry="" entry,="" id="n," identifier="u" session=""> from TS_1</delete>
	4. Send a <delete entry="" entry,="" id="n," identifier="u+3" session=""> from TS_1</delete>
	5. Send a <end id="n" session="" session,=""> from TS_1</end>
	6. Send a {CC-RELEASE} from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a < Read entries confirm, session id=n> followed by <data data="" last="" packet=""> with 1st entry content (entry identifier = u)</data>
	2. Verify that the IUT sends to TS_1 a <negative acknowledgement,="" id="n+1," number="" reason="invalid" reject="" session=""></negative>
	3. Verify that the IUT sends to TS_1 < Delete entry confirm, session id=n, total nb of available entries = 5>
	4. Verify that the IUT sends to TS_1 a <negative acknowledgement,="" available="" id="n," not="" reason="entry" reject="" session=""></negative>
	5. Verify that the IUT sends to TS_1 a <end confirm,="" id="n" session=""></end>
	6. Verify that the IUT sends to TS_1 a <eiid confirm,="" d="II" session=""></eiid>
Comments:	- In stimulus 1, presence of field id '03'H twice is explained at the beginning of
Comments.	Clause 7.16, 'Multiple instances of the 'contact number' field in the contact list'
	clause
	- In step 4, 'u+3' identifier is invalid on IUT side

TC_FT_NG1.N.16_BV_2111	Contact list - Incoming first voice call during existing list access session
Reference:	TS 102 527-3 [14], Clauses 7.4.10.6.3 and 7.4.10.1, 'Field instances management' entry
Initial condition:	Contact list filled for test with 5 entries (initialized with 6 entries in
	TC_FT_NG1.N.16_BV_2102 but one entry removed in TC_FT_NG1.N.16_BV_2110),
	F-00
Stimulus:	1. Send a {CC-SETUP} message from TS_1 with IE < <basic-service <lia="" =="" service<="" td=""></basic-service>
	setup, Wideband speech default setup attributes> >>
	2. Send a <start fields="0" identifier="05H," list="" nb="" of="" session,="" sorting=""> from TS_1</start>
	3. Send a <read counter="01H," direction="0," entries,="" id="n," index="5," mark<="" session="" start="" td=""></read>
	entries request= 00H, list entry field identifier 1n =01H, 02H, 03H, 03H, 04H, 05H>
	from TS_1
	4. Perform an incoming call on line 0 towards IUT from Phone A
	5. Send a {CC-INFO} message from TS_1 with IE << MULTI-KEYPAD >> set to (1CH,
	35H) digits and with IE < <call-information>> specifying (call id a) =<(1, 0,</call-information>
	value a)>
	6. Send a <end id="n" session="" session,=""> from TS_1</end>
	7. Send a {CC-RELEASE} from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-CALL-PROC} message
	2. Verify that the IUT sends to TS_1 a <start confirm,="" id="n," nb="5,</td" session="" total=""></start>
	discriminator type = 0 or 1, nb of sorting fields = 1 or 2, sorting field id1 =1, sorting
	field id2 =2 in case of 2 sorting fields >
	3. Verify that the IUT sends to TS_1 a <read confirm,="" entries="" id="n," session="" start<="" td=""></read>
	index=5, counter=1> followed by <data data="" last="" packet=""> set to (Name= Uwe,</data>
	First name= Marcus, Contact number1= 008989945270) and (Associated melody= 2)
	when declared (see Annex A, Table A.15)
	4. Verify that the IUT sends to TS_1 a {CC-CONNECT} message, followed, in the same
	or different (CC-INFO) messages, by:
	an IE < <signal>> with the value 07H indicating 'call waiting tone on' when dealered (see Arrest A. Table A.22)</signal>
	declared (see Annex A, Table A.26)
	an IE < <calling number="" party="">> with <calling a<="" address="Phone" party="" td=""></calling></calling>
	number>
	an IE < <call-information>> specifying (line 0, line type information, call id</call-information>
	a, CS call setup) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value a), (2, 1, 1)>
	when sent in different messages, call status indication shall always be sent in the
	first used {CC-INFO} message, and call identifier shall be sent within all
	messages
	5. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
	< <call-information>> specifying (call id a, CS call connect) =<(1, 0, value a),</call-information>
	(2, 1, 5)>
	Verify end-to-end U-plane connection between TS_1 and Phone A
	6. Verify that the IUT sends to TS_1 a <end confirm,="" id="n" session=""></end>
0	7. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
Comments:	In stimulus 3, presence of field id '03'H twice is explained at the beginning of Clause 7.16,
	'Multiple instances of the 'contact number' field in the contact list' clause

TC_FT_NG1.N.16_BV_2201	Internal names list - Edit entry - Save entry
Reference:	TS 102 527-3 [14], Clauses 7.4.10.5.8 and 7.4.10.5.1.2
Initial condition:	One PP registered (TS_1 is NG PP1), service call in F-03
Stimulus:	1. Send a <start fields="0" identifier="06H," list="" nb="" of="" session,="" sorting=""> from TS_1</start>
	2. Send a <read 02h,="" 03h="" 1n="01H," counter="1," direction="0," entries="" entries,="" entry="" field="" id="n," identifier="" index="1," list="" mark="" request="00H," session="" start=""> from TS_1</read>
	3. Send a <edit 02h,="" 03h="" 1n="01H," entry="" entry,="" field="" id="n," identifier="" list="" session=""> from TS_1</edit>
	4. Send a <save entry="" entry,="" id="n," identifier="u" session=""> from TS_1 followed by <data data="" last="" packet=""> modifying "Name" field to "TESTER 1" and close the list session</data></save>
	5. Send a {CC-RELEASE} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a <start 1,="" confirm,="" discriminator="" field="" fields="1,sorting" id="n," id1="1" nb="" of="" or="" session="" sorting="" total="" type="0"></start>
	2. Verify that the IUT sends to TS_1 a < Read entries confirm, session id=n> followed by <data data="" last="" packet=""> with 1st entry content (entry identifier = u)</data>
	3. Verify that the IUT sends to TS_1 a < Edit entry confirm, session id=n> followed by <data data="" last="" packet=""> with entry identifier = u, a "Number" field set to (internal=1B, own=1B, digit=terminal Id of PP1), a "Name" field and a "Call interception" field</data>
	4. Verify that the IUT sends to TS_1 a <save confirm,="" entry="" entry<="" id="n," session="" td=""></save>
	identifier=u, position index=1, total number of available entries=1>
Comments:	5. Verify that the IUT sends back to TS_1 a {CC-RELEASE-COM} message Session identifier shall be different from "0" value
Comments.	Dession identifier shall be different from 0 value

Reference: Initial condition: TS 102 527-3 [14], Clauses 7.4.10.5.8 and 7.4.10.5.1.2 One PP registered (TS_1 is NG PP1), PP1 name configured as "TESTER 1" (sTC_FT_NG1.N.16_BV_2201), F-00 Stimulus: 1. Start the access rights procedure on the IUT Register TS_2 as a new PP (PP2) 2. Send a {CC-SETUP} message from TS_1 with IE < <basic-service 2<="" <a="" =="" field="" href="https://doi.org/10.1016/j.jps.10.1016/j.jps.10.1016/j.jps.10.1016/j.jps.10.1016/j.jps.10.1016/j.jps.10.1016/j.jps.10.1016/j.jps.10.1016/j.jps.10.1016/j.jps.10.1016/j.jps.10.1016/j.jps.10.1016/j.jps.10.1016/j.jps.10.1016/j.jps.10.1016/j.jps.10.1016/j.jps.10.1016/j.jps.10.1016/j.jps.</th><th></th></tr><tr><td>TC_FT_NG1.N.16_BV_2201), F-00 Stimulus: 1. Start the access rights procedure on the IUT Register TS_2 as a new PP (PP2) 2. Send a {CC-SETUP} message from TS_1 with IE <<BASIC-SERVICE = <</td><td></td></tr><tr><td>Stimulus: 1. Start the access rights procedure on the IUT Register TS_2 as a new PP (PP2) 2. Send a {CC-SETUP} message from TS_1 with IE <<BASIC-SERVICE = <</td><td>d i∧ service</td></tr><tr><td>Register TS_2 as a new PP (PP2) 2. Send a {CC-SETUP} message from TS_1 with IE <<BASIC-SERVICE = <</td><td>√li∧ service</td></tr><tr><td>2. Send a {CC-SETUP} message from TS_1 with IE <<BASIC-SERVICE = <</td><td>-Li∆ service</td></tr><tr><td></td><td>∠Li∆ corvico</td></tr><tr><td>actus Wideband anach default actus attributes.</td><td>CIV SELVICE</td></tr><tr><td>setup, Wideband speech default setup attributes> >></td><td></td></tr><tr><td>3. Send a <Start session, list identifier = 06H, nb of sorting fields =0> from T</td><td></td></tr><tr><td>4. Send a <Read entries, session id=m, start index=0, direction=0, counter=</td><td></td></tr><tr><td>entries request= 00H, list entry field identifier 1n =01H, 02H, 03H> from</td><td>18_1</td></tr><tr><td>5. Send a {CC-RELEASE} message from TS_1</td><td>(EAOU IT) ()</td></tr><tr><td>Pass criteria: 1. Verify that the IUT accepts registration and that the IUT sends to TS_1, a</td><td></td></tr><tr><td>message with IE <<EVENTS NOTIFICATION= < List change indication, I</td><td>nternai</td></tr><tr><td>names list, 2 entries > (=<03H,86H,82H>) >> 2. Verify that the IUT sends to TS_1 a {CC-CALL-PROC}</td><td></td></tr><tr><td>3. Verify that the IUT sends to TS_1 a {CC-CALL-PROC}</td><td>umber of</td></tr><tr><td>available entries" set="" td="" to=""><td>JIIIDEI OI</td></basic-service>	JIIIDEI OI
4. Verify that the IUT sends to TS_1 a < Read entries confirm, session id=m	> followed
by <data data="" last="" packet=""> with</data>	> TOHOWOO
1st entry: "Number" field set to (internal=1B, own=1B, digit=terminal to	d of PP1) a
"Name" field set to "TESTER 1" and a "Call interception" field	2 0 ,, u
2 nd entry: "Number" field set to (internal=1B, own=0B, digit=terminal in	d of PP2) a
"Name" field set to a non null default string value, and a "Call intercept	
set to 31H indicating 'allowed' value.	Mora nora
5. Verify that the IUT sends back to TS_1 a {CC-RELEASE-COM} message	
Comments: - Session identifier shall be different from "0" value	
- Digit format is not tested here as it was already tested in Terminal Id	d number
assignment procedure	
- After a successful access rights procedure, the location registration	
and the list change notification on FP side might come simultaneous	
words, in pass criteria 1, the test equipment shall allow the following	g behaviours
of the IUT:	
 list change notification (FACILITY message) sent by the IUT to 	pefore
locate request is sent by TS_2	
 list change notification (FACILITY message) sent by the IUT a 	after locate
request is sent by TS_2	_

TC_FT_NG1.N.16_BV_2203	Internal names list - Initiate and check internal call from internal names list
Reference:	TS 102 527-3 [14], Clause 7.4.10.6.2
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2), Internal names list session open
	(session id=n)
Stimulus:	1. Send a <read 02h,="" 03h="" 1n="01H," counter="2," direction="0," entries="" entries,="" entry="" field="" id="n," identifier="" index="1," list="" mark="" request="00H," session="" start=""> from TS_1</read>
	2. Perform an internal call from TS_1 towards TS_2 by sending a {CC-INFO} message with IE < <multi-keypad>> set to (17H,terminal Id of PP2) digits</multi-keypad>
	3. Pick up call on TS_2 by sending a {CC-CONNECT} message from TS_2
	4. Send a {CC-RELEASE} message from TS_1
	5. Send a {CC-RELEASE-COM} from TS_2.
Pass criteria:	1. Verify that the IUT sends to TS_1 a < Read entries confirm, session id=n> followed
	by <data data="" last="" packet=""> with 2 entries</data>
	2. Verify that IUT sends to TS_1 a {CC-CONNECT} message immediately;
	Verify that the IUT performs an internal call setup towards TS_2 with <call call="" class="internal"></call>
	3. Verify end-to-end U-plane connection between TS_1 and TS_2 (WB call)
	4. Verify that the IUT sends back to TS_1 a {CC-RELEASE-COM} message Verify that the IUT sends to TS_2 a {CC-RELEASE} message.

TC_FT_NG1.N.16_BV_2210	Internal names list - Delete entry
Reference:	TS 102 527-3 [14], Clause 7.4.11.2
	EN 300 444 [12], Clause 8.31
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2), internal names list open (session
	id=n)
Stimulus:	1. Send a <read counter="2," direction="0," entries,="" id="n," index="1," mark<="" session="" start="" td=""></read>
	entries request= 00H, list entry field identifier 1n =01H, 02H, 03H> from TS_1
	2. Delete the PP2 entry in the "Internal names" list by sending a < Delete entry, session
	id=n, entry identifier=v> from TS_1
	Close the list access session and re-start a new internal names list session from TS_1
	Wait for receiving a {ACCESS-RIGHTS-TERMINATE-REQUEST} message, before sending a {ACCESS-RIGHTS-TERMINATE-ACCEPT} message from TS_2
	4. Send a <read counter="1," direction="0," entries,="" id="m," index="1," mark<="" session="" start="" td=""></read>
	entries request= 00H, list entry field identifier 1=01H> from TS_1
	5. Send a <end id="m" session="" session,=""> from TS_1</end>
	6. Send a {CC-RELEASE} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a < Read entries confirm, session id=n> followed by <data data="" last="" packet=""> with PP1 entry content (entry identifier = u) and PP2 entry content (Entry identifier = v)</data>
	 Verify that the IUT sends to TS_1 < Delete entry confirm, session id=n, total nb of available entries = 1>
	3. Verify that the IUT sends to TS_1 a <start confirm="" session=""> with "Total number of available entries" field set to 1</start>
	Verify that the IUT sends to TS_2 an {ACCESS-RIGHTS-TERMINATE-REQUEST}
	4. Verify that the IUT sends to TS_1 a < Read entries confirm, session id=m> followed by <data data="" last="" packet=""> with one entry whose "Number" field is set to (internal=1B, own=1B, digit=terminal Id of PP1)</data>
	5. Verify that the IUT sends to TS_1 a <end confirm,="" id="m" session=""></end>
	6. Verify that the IUT sends to TS_1 a <cc-release-com} message<="" td=""></cc-release-com}>
Comments:	{ACCESS-RIGHTS-TERMINATE-REQUEST} message can be sent just after <delete< td=""></delete<>
Commonto.	entry confirm> or later after <end session=""></end>
	If the Internal names list contains PIN protected field(s), TS_1 will have—in pass criterion
	2 at the latest—to access the DECT system settings list for PIN checking before the entry
	can be actually deleted

TC_FT_NG1.N.16_BV_2301	All incoming calls list - Delete list - Read entries when empty
Reference:	TS 102 527-3 [14], Clause 7.4.10.5.11
Initial condition:	Service call in F-03
Stimulus:	1. Send a <start fields="0" identifier="09H," list="" nb="" of="" session,="" sorting=""> from TS_1</start>
	2. Send a <delete id="n" list,="" session=""> from TS_1</delete>
	3. Send a {CC-RELEASE} from TS_1
	4. Send a {CC-SETUP} message from TS_1 with IE < <basic-service <lia="" =="" attributes="" default="" service="" setup="" setup,="" speech="" wideband=""> >></basic-service>
	5. Send a <start fields="0" identifier="09H," list="" nb="" of="" session,="" sorting=""> from TS_1</start>
	6. Send a <read counter="1," direction="0," entries,="" id="m," index="0," mark<="" session="" start="" td=""></read>
	entries request= 7FH, list entry field identifier 1n =01H, 02H, 03H, 04H, 05H, 06H,
	07H > from TS_1
	7. Send a <end id="n" session="" session,=""> from TS_1</end>
	8. Send a {CC-RELEASE} from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a <start confirm,="" id="n," nb="t,</td" session="" total=""></start>
	discriminator type=0 or 1, nb of sorting fields =1,sorting field id1 =3>
	2. Verify that the IUT sends to TS_1 a <delete confirm,="" id="n" list="" session=""></delete>
	3. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
	4. Verify that the IUT sends to TS_1 a {CC-CALL-PROC} message
	5. Verify that the IUT sends to TS_1 a <start confirm,="" id="m," nb="0,</td" session="" total=""></start>
	discriminator type=0 or 1, nb of sorting fields =1,sorting field id1 =3>
	6. Verify that the IUT sends to TS_1 a <negative acknowledgement,="" id="m,</td" session=""></negative>
	reject reason= invalid start index >
	7. Verify that the IUT sends to TS_1 a <end confirm,="" id="m" session=""></end>
	8. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
Comments:	Session identifier shall be different from "0" value

field set to 1

field value of 2nd entry

Comments:

Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message

"Total number of available entries" field can be set to 2, or 4, as some FPs may either handle only one entry for the last call from a remote party, or one entry per incoming call

field with 'unread' property bit set to 'unread' (unread=1B), and 'Number of calls'

2nd entry: "Number" field set to CLIP A, "Name" field set to CNIP A, "Read status" field with 'unread' property bit set to 'read' (unread=0B), and 'Number of calls' field

"Date and Time" field value of 1st entry shall be more recent than "Date and Time"

- CLIP and CNIP in step 3 of pass criteria shall be the same than ones previously received during step 1 of stimulus
- In step 1a and 1c, TS_1 should wait for CC-ALERTING and then invite the user to hangup on Phone A/Phone B via a display on the test equipment

ETSI

TC_FT_NG1.N.16_BV_2303	All incoming calls list - Delete entry - Negative acknowledgement
Reference:	TS 102 527-3 [14], Clause 7.4.10.5.11
Initial condition:	Run TC_FT_NG1.N.16_BV_2302 - All incoming calls list open (session id=n)
Stimulus:	1. Send a <read 02h,="" 03h,="" 04h,="" 05h,="" 06h,="" 07h="" 1n="01H," counter="1," direction="0," entries="" entries,="" entry="" field="" id="n," identifier="" index="1," list="" mark="" request="7FH," session="" start=""> from TS_1</read>
	2. Send a < Delete entry, session id=n+1, entry identifier = u> from TS_1
	3. Send a <delete entry="" entry,="" id="n," identifier="u" session=""> from TS_1</delete>
	4. Send a <delete entry="" entry,="" id="n," identifier="u+3" session=""> from TS_1</delete>
	5. Send a <end id="n" session="" session,=""> from TS_1</end>
	6. Send a {CC-RELEASE} from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a < Read entries confirm, session id=n> followed by <data data="" last="" packet=""> with 1st entry content (entry identifier = u)</data>
	2. Verify that the IUT sends to TS_1 a <negative acknowledgement,="" id="n+1," number="" reason="invalid" reject="" session=""></negative>
	3. Verify that the IUT sends to TS_1 < Delete entry confirm, session id=n, total nb of available entries = 1 or 3>
	4. Verify that the IUT sends to TS_1 a <negative acknowledgement,="" available="" id="n," not="" reason="entry" reject="" session=""></negative>
	5. Verify that the IUT sends to TS_1 a <end confirm,="" id="n" session=""></end>
	6. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
Comments:	In step 4, 'u+3' identifier is invalid on IUT side

	T
TC_FT_NG1.N.16_BV_2401	DECT system settings list - Query supported entry fields
Reference:	TS 102 527-3 [14], Clauses 7.4.10.4.2 and 7.4.11.3
Initial condition:	DECT system settings list open (session id=n)
Stimulus:	 Send a <query entry="" fields="" supported=""> from TS_1</query>
	2. Send a {CC-RELEASE} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a < Query supported entry fields confirm, session
	id=n>
	Verify that editable entry field includes at the minimum
	01H Current PIN code
	02H Clock master
	03H Base reset
	ODH New PIN code
	Verify that non editable entry fields includes at the minimum
	09H FP version / Firmware version
	OAH FP version / EEprom version
	Verify that entry fields include optional entry fields declared in editable and
	non-editable fields (see Annex A, Table A.25)
	2. Verify that the IUT sends back to TS_1 a {CC-RELEASE-COM} message
Comments:	Test equipment shall rely on Annex A, Table A.25 to know the optional List access service
	procedures supported, and therefore the optional setting fields implemented

TC_FT_NG1.N.16_BV_2402	DECT system settings list - Read entries
Reference:	TS 102 527-3 [14], Clauses 7.4.10.4.3 and 7.4.11.3 and 7.4.10.1, 'Field instances
	management' entry
Initial condition:	DECT system settings list open (see TC_FT_NG1.N.16_BV_2401)
Stimulus:	1. Send a <read counter="1," direction="0," entries,="" id="n," index="1," mark<="" session="" start="" td=""></read>
	entries request= 00H, list of supported entry field identifiers known from query > from
	TS_1
	2. Send a {CC-RELEASE} message from TS_1
Pass criteria:	Verify on TS_1 that the DECT link is ciphered
	Verify that the IUT sends to TS_1 a <read confirm,="" entries="" id="n," session="" start<="" td=""></read>
	index=1, counter=1> followed by <data data="" last="" packet=""></data>
	Verify that mandatory entry fields (Current PIN code, Clock master, Base reset, FP
	version / Firmware version, FP version / EEprom version, New PIN code) and
	optional entry fields declared in Annex A, Table A.25 are included in data packet
	Verify that each field complies with its description in the standard (field identifier, length, property, coded value):
	Mandatory fields:
	Current PIN code composed of 4 octets set to (FFH, FFH, FFH, FFH)
	Clock master = 31 or 30H
	 Base reset = 31H (Yes) if all other settings are set to their default value, 30H (No)
	otherwise
	FP version / Firmware version: limited to 20 IA-5 bytes
	FP version / Eeprom version: limited to 20 IA-5 bytes
	New PIN code composed of 4 octets set to (FFH, FFH, FFH) with property
	bit 'PIN protected' set to 1
	Optional fields (if declared):
	FP IP address / type: only one property bit 'DHCP' or 'static' shall be set at a time
	For the 3 following settings check that if IPv4/6 bit is set to 0, the format is IPv4 (4).
	bytes long), if set to 1, the format is IPv6 (16 bytes long)
	o FP IP address / value
	FP IP address / subnet mask
	FP IP address / gateway
	FP IP address / DNS server
	FP version / Hardware version: limited to 20 IA-5 bytes
	Emission mode: at least 2 bytes
	2. Verify that the IUT sends back to TS_1 a {CC-RELEASE-COM} message
Comments:	- Test equipment shall rely on Annex A, Table A.25 to know the optional List
	access service procedures supported, and therefore the optional setting fields
	implemented
	- In stimulus 1, there may be several instances of the 'FP IP address / DNS
	server' field id in the query confirm received from IUT. TS_1 shall include as
	many field id occurrences in the 'Read entries' command
	- In pass criterion 1, there may be several instances of the 'FP IP address / DNS
	server' field

TO FT NO4 N 40 DV 0504	Tr 8. 0
TC_FT_NG1.N.16_BV_2501	Line settings list - Query supported entry fields
Reference:	TS 102 527-3 [14], Clauses 7.4.10.4.2 and 7.4.11.4
Initial condition:	Line settings list open (session id=n)
Stimulus:	1. Send a <query entry="" fields="" supported=""> from TS_1</query>
	2. Send a {CC-RELEASE} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a < Query supported entry fields confirm, session
	id=n>
	Verify that editable entry fields include at the minimum
	o 01H Line name
	o 02H Line id
	o 03H Attached handsets
	o 08H Multiple calls mode
	OBH Call Forwarding Unconditional
	o 0CH Call Forwarding on No answer
	o 0DH Call Forwarding on Busy subscriber
	Verify that entry fields include optional entry fields declared as supported, either as
	editable or as non-editable fields (see Annex A, Table A.25)
	2. Verify that the IUT sends back to TS_1 a {CC-RELEASE-COM} message
Comments:	Test equipment shall rely on Annex A, Table A.25 to know the optional List access service
	procedures supported, and therefore the optional setting fields implemented

256

see Annex A, Table A.16

PP1 and PP2 bit positions in the 'Attached handset' bitmap depend on the

For the definition of FT_IXIT_29.1, 29.2, 29.3, 29.4, 29.5, 29.6, 29.7 and 29.8,

configuration items HANDSET_TS_1_NUMBER and HANDSET_TS_2_NUMBER declared (see Clause C.2)

TC_FT_NG1.N.16_BV_2701 DECT system settings list - Current PIN code - New PIN code - Edit entry - Save entry TS 102 527-3 [14]. Clauses 7.4.10.4.9. 7.4.11.1. 7.4.11.3.1 and 7.4.11.3.13 Reference: Initial condition: Current PIN code field set to (FFH, FFH, 00H, 00H) DECT system settings list open (session id=n) Stimulus: Send a <Read entries, session id=n, start index=1, direction=0, counter=1, mark entries request= 00H, list entry field identifier 1 =0DH> from TS_1 2. Send a <Edit entry, session id=n, entry identifier=u, list entry field identifier 1=0DH> 3. Send a <Save entry, session id=n, entry identifier=u> from TS 1 followed by <data packet/data packet last> with New PIN code field set to (FFH, FFH, 12H, 34H) 4. Send a <Read entries, session id=n, start index=1, direction=0, counter=1, mark entries request= 00H, list entry field identifier 1 =01H> from TS_1 Send a <Edit entry, session id=n, entry identifier=v, list entry field identifier 1=01H> 5. from TS 1 Send a <Save entry, session id=n, entry identifier=v> from TS 1 followed by <data packet/data packet last> with Current PIN code field set to (FFH, FFH, 12H, 34H) Send a <Edit entry, session id=n, entry identifier=v, list entry field identifier 1=01H> from TS 1 7. Send a <Save entry, session id=n, entry identifier=v> from TS_1 followed by <data packet/data packet last> with Current PIN code field set to (FFH, FFH, 00H, 00H) Send a <Read entries, session id=n, start index=1, direction=0, counter=1, mark entries request= 00H, list entry field identifier 1 =0DH> from TS_1 Send a <Edit entry, session id=n, entry identifier=w, list entry field identifier 1=0DH> 9. from TS 1 Send a <Save entry, session id=n, entry identifier=w> from TS 1 followed by <data packet/data packet last> with New PIN code field set to (FFH, FFH, 12H, 34H) with 'PIN protected' property bit unset 11. Send a <Read entries, session id=n, start index=1, direction=0, counter=1, mark entries request= 00H, list entry field identifier 1 =0DH> from TS_1 Send a {CC-RELEASE} message from TS_1 Pass criteria: Verify that the DECT link is ciphered and that the IUT sends to TS_1 a < Read entries confirm, session id=n> followed by <data packet/data packet last> with New PIN code field set to (FFH, FFH, FFH, FFH) (entry identifier = u) Verify the IUT sends to TS_1 a <Edit entry confirm, session id=n> followed by <data packet/data packet last> with New PIN code field set to (FFH, FFH, FFH, 3. Verify that the IUT sends to TS_1 a <Negative acknowledgement, session id=n, reject reason= PIN code required> Verify that the IUT sends to TS_1 a < Read entries confirm, session id=n> followed by <data packet/data packet last> with Current PIN code field set to (FFH, FFH, FFH, FFH) (entry identifier = v) 5. Verify the IUT sends to TS_1 a <Edit entry confirm, session id=n> followed by <data packet/data packet last> with Current PIN code field set to (FFH, FFH, FFH, FFH) Verify that the IUT sends to TS_1 a <Negative acknowledgement, session id=n, reject reason= incorrect PIN> Verify the IUT sends to TS_1 a <Edit entry confirm, session id=n> followed by <data packet/data packet last> with Current PIN code field set to (FFH, FFH, FFH, 7. Verify that the IUT sends to TS_1 a <Save entry confirm, session id=n, entry identifier=v, position index=1, total number of available entries=1> Verify that the IUT sends to TS_1 a < Read entries confirm, session id=n> followed 8. by <data packet/data packet last> with New PIN code field set to (FFH, FFH, FFH, FFH) (entry identifier = w) Verify the IUT sends to TS_1 a <Edit entry confirm, session id=n> followed by 9. <data packet/data packet last> with New PIN code field set to (FFH, FFH, FFH, FFH) 10. Verify that the IUT sends to TS_1 a <Save entry confirm, session id=n, entry identifier=w, position index=1, total number of available entries=1> Verify that the IUT sends to TS 1 a < Read entries confirm, session id=n> followed by <data packet/data packet last> with New PIN code field set to (FFH, FFH, FFH, FFH) with 'PIN protected' property bit set Verify that the IUT sends back to TS_1 a {CC-RELEASE-COM} message

Comments:	The main objectives of this test case are the following: - Step 2 and 3: check that it is not possible to modify new PIN code without prior successful current PIN code saving - Step 4, 5 and 6: check that it is not possible to save current PIN code with a wrong value
	 Step 7: check that it is possible to save current PIN code with a right value Step 8, 9 and 10: check that it is possible to modify new PIN code even if 'PIN protected' property bit is unset (i.e. the 'PIN protected' property bit is ignored by the FP but the PIN code value taken into account) Step 11: check that 'PIN protected' property bit is still set when reading new PIN code field

TC_FT_NG1.N.16_BV_2801	DECT system settings list - Clock master- Edit entry - Save entry - Read entries
Reference:	TS 102 527-3 [14], Clause 7.4.11.3.2
Initial condition:	DECT system settings list open (session id=n)
Stimulus:	 Send a <read counter="1," direction="0," entries,="" id="n," index="1," mark<br="" session="" start="">entries request= 00H, list entry field identifier 1 =02H> from TS_1</read>
	 Send a <edit 1="02H" entry="" entry,="" field="" id="n," identifier="" list="" session=""> from TS_1</edit>
	 Send a <save entry="" entry,="" id="n," identifier="u" session=""> from TS_1 followed by <data packet/data packet last> with clock master field modified (i.e. modify to 30H if 31H or 31H if 30H)</data </save>
	4. Send a <read 1="02H" counter="1," direction="0," entries="" entries,="" entry="" field="" id="n," identifier="" index="0," list="" mark="" request="00H," session="" start=""> from TS_1</read>
	5. Send a {CC-RELEASE} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 IUT a < Read entries confirm, session id=n> followed by <data data="" last="" packet=""> with entry content (entry identifier = u)</data>
	Verify that the IUT sends to TS_1 a <edit confirm,="" entry="" id="n" session=""> followed by <data data="" last="" packet=""></data></edit>
	3. Verify that the IUT sends to TS_1 a <save available="" confirm,="" entries="1" entry="" id="n," identifier="u," index="1," number="" of="" position="" session="" total=""></save>
	4. Verify that the IUT sends to TS_1 a <read confirm,="" entries="" id="n," session="" start<="" td=""></read>
	index=1, counter=1> followed by <data data="" last="" packet=""> with clock master</data>
	field set to previously modified value
	5. Verify that the IUT sends back to TS_1 a {CC-RELEASE-COM} message

TC_FT_NG1.N.16_BV_2901	DECT system settings list - Base reset - Edit entry - Save entry - Read entries
Reference:	TS 102 527-3 [14], Clause 7.4.11.3.3
Initial condition:	DECT system settings list open (session id=n)
Stimulus:	1. Send a <read counter="1," direction="0," entries,="" id="n," index="1," mark<="" session="" start="" th=""></read>
	entries request= 00H, list entry field identifier 1 =03H> from TS_1
	 Send a <edit 1="03H" entry="" entry,="" field="" id="n," identifier="" list="" session=""> from TS 1</edit>
	3. Send a <save entry="" entry,="" id="n," identifier="u" session=""> from TS_1 followed by <data< td=""></data<></save>
	packet/data packet last> with base reset field set to 31H
	4. Send a <end id="n" session="" session,=""> from TS_1 4. Send a <end id="n" session="" session,=""> from TS_1</end></end>
	5. If {CC-RELEASE} message was received in step 4 then send a
	{CC-RELEASE-COM} message from TS_1 else send a {CC-RELEASE} message
Pass criteria:	1. Verify that the IUT sends to TS_1 a < Read entries confirm, session id=n> followed by <data data="" last="" packet=""> with entry content (entry identifier = u)</data>
	2. Verify that the IUT sends to TS_1 a <edit confirm,="" entry="" id="n" session=""> followed by <data data="" last="" packet=""> with Base reset field set to 30H.</data></edit>
	3. Verify that the IUT sends to TS_1 a <save available="" confirm,="" entries="1" entry="" id="n," identifier="u," index="1," number="" of="" position="" session="" total=""></save>
	 Verify that the IUT sends to TS_1 a <end confirm,="" id="n" session=""> or a {CC-RELEASE} message</end>
	5. If a {CC-RELEASE} message was sent in step 5 then verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
Comments:	This test shall be run after any DECT system or line settings test modifying a default value
	to get the Base reset field set to 30H in step1
	As all DECT system and line settings should be reset to their default value, it is
	recommended to run it at the end of the test suite
	IUT can reboot after step 4

DECT system settings list - Base reset - Read entries - Default settings values TC FT NG1.N.16 BV 2902 TS 102 527-3 [14], Clauses 7.4.11.3.3 and 7.4.10.1, 'Field instances management' entry Reference: Initial condition: Run TC_FT_NG1.N.16_BV_2901 (if IUT rebooted wait till re-locking), F-00 Stimulus: Send a {CC-SETUP} message from TS_1 with IE <<BASIC-SERVICE = <LiA service setup, Wideband speech default setup attributes>>> Send a <Start session, list identifier = 07H, nb of sorting fields =0> from TS_1 3. Send a <Read entries, session id=n, start index=1, direction=0, counter=1, mark entries request= 00H, list of supported entry field identifiers known from query > from Send a <End session, session id=n> from TS_1 Send a <Start session, list identifier = 08H, nb of sorting fields =0> from TS_1 5. Send a <Read entries, session id=n, start index=1, direction=0, counter=1, mark entries request= 00H, list of supported entry field identifiers known from query > from TS₁ Send a {CC-RELEASE} message from TS 1 7. Verify that the IUT sends to TS_1 a {CC-CALL-PROC} message Pass criteria: 1. 2. Verify that the IUT sends to TS_1 a <Start session confirm, session id=n, total nb=1, discriminator type=0 or 1, nb of sorting fields =0> 3. Verify on TS_1 that the DECT link is ciphered Verify that the IUT sends to TS_1 a < Read entries confirm, session id=n> followed by <data packet/data packet last> with entry content (entry identifier = u) Verify that mandatory entry fields (Current PIN code, Clock master, Base reset, FP version / Firmware version, FP version / Eeprom version, New PIN code) and optional entry fields declared in Annex A, Table A.25 are included in data packet Verify that each field complies with its description in the standard (field identifier, length, property, coded value): Mandatory fields: Current PIN code: not empty composed of 4 octets, each octet set to 'FF'H Clock master = 31 or 30H Base reset = 31H (Yes) FP version / Firmware version: limited to 20 IA-5 bytes (non-empty) FP version / Eeprom version: limited to 20 IA-5 bytes (possibly empty) New PIN code: not empty composed of 4 octets, each octet set to 'FF'H Optional fields (if declared, see Annex A, Table A.25): FP IP address / type: only one property bit 'DHCP' or 'static' shall be set at a time For each of the following 4 settings check that if IPv4/6 bit is set to 0, the format is IPv4 (4 bytes long), if set to 1, the format is IPv6 (16 bytes long) FP IP address / value (possibly empty) FP IP address / subnet mask (possibly empty) FP IP address / gateway (possibly empty) FP IP address / DNS server (one empty instance, or one or several non-empty instances) FP version / Hardware version: limited to 20 IA-5 bytes (non-empty if present) Emission mode: at least 2 bytes For each implemented field (mandatory or optional), except 'FP IP address / DNS server', verify that one and only one instance is present. Verify that the IUT sends to TS_1 a <End session confirm, session id=n> Verify that the IUT sends to TS_1 a <Start session confirm, session id=n, total nb=1, discriminator type=0 or 1, nb of sorting fields =1,sorting field id1 =1> Verify that the IUT sends to TS_1 a <Read entries confirm, session id=n, start index=1, counter=1> followed by <data packet/data packet last> Verify that mandatory entry fields (Line name, Line id, Attached handsets, Multiple calls mode, Call Forwarding unconditional, Call Forwarding on No answer, Call Forwarding on no answer) and optional entry fields declared (see Annex A. Table A.25) are included in data packet Verify that each field complies with its description in the standard (field identifier, length, property, coded value): Mandatory fields: Line name = non-empty list of UTF-8 characters Line id = Identifier subtype set Relating to (03H) followed by value Attached handsets = number and handset bitmap with no trailing null octets in the bitmap Multiple calls mode = 30H or 31H Call Forwarding Unconditional with length ≥ 5 Call Forwarding on No answer with length ≥ 6 Call Forwarding on Busy subscriber with length ≥ 5

Optional fields (if declared, see Annex A, Table A.25):

TC_FT_NG1.N.16_BV_2902	DECT system settings list - Base reset - Read entries - Default settings values
	 DECT system settings list - Base reset - Read entries - Default settings values Dialling prefix = either empty (length = 1), or list of digits among 05H, 15H, 23H, 2AH or 30H39H FP melody = either empty (length=1) or one octet value from 01H to 07H FP volume = one octet value among 30H39H Blocked number = one empty instance (length = 1), or one or several non-empty instance(s) (list of digits among 30H39H, and 2AH) Intrusion call mode = 30H or 31H Permanent CLIR with length ≥ 4, and Value set to 30H, CLIR activation and deactivation codes empty (length = 4), or set to a list of digits among 05H, 15H, 23H, 2AH or 30H39H For each implemented field (mandatory or optional), except 'Blocked number', verify that one and only one instance is present. Verify that the IUT sends back to TS_1 a {CC-RELEASE-COM} message Test equipment shall rely on Annex A, Table A.25 to know the optional List access service procedures supported, and therefore the optional setting fields implemented In stimuli 3 and 6, there may be several instances of the 'FP IP address / DNS server' and 'Blocked number' field ids in the query confirm received from IUT. TS_1 shall include as many field id occurrences in the 'Read entries' command In pass criteria 3 and 6, there may be several instances of the 'FP IP address / DNS server' and 'Blocked number' fields PP1 and PP2 bit positions in the 'Attached handset' bitmap depend on the configuration items HANDSET_TS_1_NUMBER and
	HANDSET_TS_2_NUMBER declared (see Clause C.2)

TC_FT_NG1.N.16_BV_3001 DECT system settings list - FP IP address - Edit entry - Save entry - Read of Reference: TS 102 527-3 [14], Clauses 7.4.11.3.4, 7.4.11.3.5, 7.4.11.3.6, 7.4.11.3.7 are and 7.4.10.1, 'Field instances management' entry	
and 7.4.10.1, 'Field instances management' entry Initial condition: DECT system settings list open (session id=n) Stimulus: 1. Send a <read counted<="" direction="0," entries,="" id="n," index="1," session="" start="" td=""><td></td></read>	
Initial condition: Stimulus: DECT system settings list open (session id=n) 1. Send a <read counted.<="" direction="0," entries,="" id="n," index="1," session="" start="" td=""><td></td></read>	
Stimulus: 1. Send a <read counted.<="" direction="0," entries,="" id="n," index="1," session="" start="" td=""><td></td></read>	
	ar-1 mark
entities request= oort, list entity field identifier 1 =04f12 from 15_1	si–i, mark
2. Send a <edit entry="" entry,="" field="" id="n," iden<="" identifier="u," list="" session="" td=""><td>tifior 1 n _04⊔</td></edit>	tifior 1 n _04⊔
	unei iii =04i i,
05H, 06H, 07H, 08H> from TS_1 3. Send a <save entry="" entry,="" id="n," identifier="u" session=""> from TS_1 follow</save>	wad by adata
packet/data packet last> with following values	wed by Suala
FP IP address/type = 'static' property bit set	
FP IP address/value = 192.168.212.12	
FP IP address/subnet mask = 255.255.255.0	
FP IP address/gateway = 192.168.212.1	
FP IP address/DNS server = 192.168.212.1	
4. Send a <read counter<="" direction="0," entries,="" id="n," index="0," session="" start="" td=""><td>ar-1 mark</td></read>	ar-1 mark
entries request= 00H, list entry identifier1=04H, 05H, 06H, 07H, 08H>	
5. Send a <edit entry="" entry,="" field="" id="n," iden<="" identifier="u," list="" session="" td=""><td></td></edit>	
from TS_1	IIIII 1 -04112
6. Send a <save entry="" entry,="" id="n," identifier="u" session=""> from TS_1 follow</save>	wad by <data< td=""></data<>
packet/data packet last> with FP IP address/type property bit set to 'D	
7. Send a <read counter<="" direction="0," entries,="" id="n," index="0," session="" start="" td=""><td></td></read>	
entries request= 00H, list entry field identifier 1n =04H, 05H, 06H, 07	
TS_1	11, 00112 110111
8. Send a {CC-RELEASE} message from TS_1	
Pass criteria: 1. Verify that the IUT sends to TS_1 IUT a < Read entries confirm, session	on id=n>
followed by <data data="" last="" packet=""> with entry content (entry id</data>	
2. Verify that the IUT sends to TS_1 a <edit confirm,="" entry="" id="n" session=""></edit>	
<data data="" last="" packet=""></data>	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
3. Verify that the IUT sends to TS_1 a <save confirm,="" entry="" id="n</td" session=""><td>. entrv</td></save>	. entrv
identifier=u, position index=1, total number of available entries=1>	, 3
4. Verify that the IUT sends to TS_1 a <read confirm,="" entries="" id-<="" session="" td=""><td>=n, start</td></read>	=n, start
index=1, counter=1> followed by <data data="" last="" packet=""> with I</data>	
fields set to previously modified values	
5. Verify that the IUT sends to TS_1 a <edit confirm,="" entry="" id="n" session=""></edit>	followed by
<data data="" last="" packet=""></data>	•
6. Verify that the IUT sends to TS_1 a <save confirm,="" entry="" id="n</td" session=""><td>, entry</td></save>	, entry
identifier=u, position index=1, total number of available entries=1>	
7. Verify that the IUT sends to TS_1 a <read confirm,="" entries="" id-<="" session="" td=""><td></td></read>	
index=1, counter=1> followed by <data data="" last="" packet=""> with I</data>	FP IP
address/type field set to previously modified value	
8. Verify that the IUT sends back to TS_1 a {CC-RELEASE-COM} message	
Comments: - In step 1, store data packet content to restore previous FP IP ad end of TC	dress at the
- In stimuli 1, 4, and 7, there may be several instances of the 'FP I	P address /
DNS server' field id in the query confirm received from IUT. TS_	
as many field id occurrences in the 'Read entries' command	
- In stimulus 2, field id '08'H shall be present only once, in order to	request
edition of the first 'DNS server' field instance only	
- In pass criteria 1, 4, and 7, there may be several instances of the	e 'FP IP
address / DNS server' field	
- In pass criteria 3 to 7 some of the IP address sub fields may not	
by the IUT depending on the declarations NG1.N.16_30/31/32/3	3/34
(see Table A.25 in Clause A.2.3)	

TC_FT_NG1.N.16_BV_3501	DECT system settings list - FP version - Read entries
Reference:	TS 102 527-3 [14], Clause 7.4.11.3.3
Initial condition:	DECT system settings list open (session id=n)
Stimulus:	1. Send a <read counter="1," direction="0," entries,="" id="n," index="0," mark<="" session="" start="" th=""></read>
	entries request= 00H, list entry field identifier 1n =09H, 0AH, 0BH when declared> from TS_1
	2. Send a {CC-RELEASE} message from TS_1
Pass criteria:	 Verify that the IUT sends to TS_1 a <read confirm,="" counter="1" entries="" id="n," index="1," session="" start=""> followed by <data data="" last="" packet=""> including: 09H FP version / Firmware version 0AH FP version / Eeprom version 0BH FP version / Hardware version when declared (see Annex A, Table A.25) </data></read> Verify that the IUT sends back to TS_1 a {CC-RELEASE-COM} message
Comments:	Test equipment shall rely on Annex A, Table A.25 to know the optional List access service procedures supported, and therefore the optional setting fields implemented

TC_FT_NG1.N.16_BV_3801	Line settings list - Line name- Edit entry - Save entry - List change notification - Read
	entries
Reference:	TS 102 527-3 [14], Clause 7.4.11.4.1
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2),
	Line settings list open (session id=n)
Stimulus:	 Send a <read counter="1," direction="0," entries,="" id="n," index="1," mark<br="" session="" start="">entries request= 00H, list entry field identifier 1 =01H> from TS_1</read>
	 Send a <edit 1="01H" entry="" entry,="" field="" id="n," identifier="" list="" session=""> from TS_1</edit>
	 Send a <save entry="" entry,="" id="n," identifier="u" session=""> from TS_1 followed by <data packet/data packet last> with Line name field set to "My First Line"</data </save>
	 Send a <read counter="1," direction="0," entries,="" id="n," index="1," mark<br="" session="" start="">entries request= 00H, list entry field identifier 1=01H> from TS_1</read>
	Send a <end id="n" session="" session,=""> from TS_1</end>
	6. Send a {CC-RELEASE} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 IUT a < Read entries confirm, session id=n> followed by <data data="" last="" packet=""> with entry content (entry identifier = u)</data>
	2. Verify that the IUT sends to TS_1 a <edit confirm,="" entry="" id="n" session=""> followed by <data data="" last="" packet=""> with entry content (entry identifier = u)</data></edit>
	3. Verify that the IUT sends to TS_1 a <save available="" confirm,="" entries="1" entry="" id="n," identifier="u," index="1," number="" of="" position="" session="" total=""></save>
	4. Verify that the IUT sends to TS_1 a <read confirm,="" counter="1" entries="" id="n," index="1," session="" start=""> followed by <data data="" last="" packet=""> with Line name field set to previously modified value 4. Verify that the IUT sends to TS_1 a <read confirm,="" counter="1" entries="" id="n," index="1," session="" start=""> followed by <data data="" last="" packet=""> with Line name field set to previously modified value</data></read></data></read>
	5. Verify that the IUT sends to TS_1 a <end confirm,="" id="n" session=""></end>
	6. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
	7. Verify that the IUT sends to TS_1 and TS_2 a {FACILITY} message with IE < <events 1="" change="" entry="" indication,="" line="" list="" list,="" notification="<" settings=""> (=<03H,88H,81H>) >> and IE<<call-information>> specifying (Relating to line 0) =<(0, 3, lid0 set to value declared in FT_IXIT_20)></call-information></events>
Comments:	Reception of {FACILITY} message is tested as pass criteria 7. However, {FACILITY}
Comments.	message can also be sent by the IUT at any time after pass criteria 3, 4 or 5 (any time
	after the save <save confirm="" entry=""> command). Test equipment shall allow these</save>
	implementations
l	Implementations

TC_FT_NG1.N.16_BV_3901	Line settings list - Line id - Edit entry - Save entry - Read entries
Reference:	TS 102 527-3 [14], Clause 7.4.11.4.2
	EN 300 175-5 [5], Clause 7.7.56
Initial condition:	Line settings list open (session id=n)
Stimulus:	1. Send a <read 1="02H" counter="1," direction="0," entries="" entries,="" entry="" field="" id="n," identifier="" index="1," list="" mark="" request="00H," session="" start=""> from TS_1</read>
	 Send a <edit 1="02H" entry="" entry,="" field="" id="n," identifier="" list="" session=""> from TS_1</edit>
	3. Send a <save entry="" entry,="" id="n," identifier="u" session=""> from TS_1 followed by <data data="" last="" packet=""> with Line id field set to ("Relating-to", 01H)</data></save>
	4. Send a <read 1="02H" counter="1," direction="0," entries="" entries,="" entry="" field="" id="n," identifier="" index="1," list="" mark="" request="00H," session="" start=""> from TS_1</read>
	5. Send a {CC-RELEASE} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a < Read entries confirm, session id=n> followed by <data data="" last="" packet=""> with entry content (entry identifier = u)</data>
	2. Verify that the IUT sends to TS_1 a <edit confirm,="" entry="" id="n" session=""> followed by <data data="" last="" packet=""> with 'editable' property bit of Line id field set to 0B</data></edit>
	 Verify that the IUT sends to TS_1 a <negative acknowledgement,="" id="m,<br" session="">reject reason= procedure not allowed></negative>
	4. Verify that the IUT sends to TS_1 a <read confirm,="" counter="1" entries="" id="n," index="1," session="" start=""> followed by <data data="" last="" packet=""> with Line id field set</data></read>
	to previously edited value
	5. Verify that the IUT sends back to TS_1 a {CC-RELEASE-COM} message

TC_FT_NG1.N.16_BV_4001	Line settings list - Attached handsets - Edit entry - Save entry - List change notification -
	Read entries after registration
Reference:	TS 102 527-3 [14], Clauses 7.4.11.2 and 7.4.11.4.3
Initial condition:	Only one first PP registered (TS_1 is NG PP1) attached to each line, Line settings list open (session id=n)
Stimulus:	1. Send a <read counter="1," direction="0," entries,="" id="n," index="1," mark<="" session="" start="" td=""></read>
Stiffulus.	entries request= 00H, list entry field identifier 1=03H> from TS_1 and close the list session
	2. Start the access rights procedure on IUT Registrate TS_2 as a new PP
	3. Open Line settings list and send a <read (total="" 03h="" 1n="02H," counter="t" direction="0," entries="" entries,="" entry="" field="" id="m," identifier="" index="1," lines),="" list="" mark="" number="" of="" request="00H," session="" start=""> from TS_1</read>
	 Send a <edit 1="03H" entry="" entry,="" field="" id="n," identifier="" list="" session=""> from TS_1</edit>
	5. Send a <save entry="" entry,="" id="n," identifier="u" session=""> from TS_1 followed by <data data="" last="" packet=""> with "Number" field set to (Number of registered handsets attached to the line=01H, Handset bitmap=01H)</data></save>
	6. Send a <end id="n" session="" session,=""> from TS_1</end>
	7. Send a {CC-RELEASE} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a <read confirm,="" entries="" id="n," session="" start<="" td=""></read>
	index=1, counter=1> followed by <data data="" last="" packet=""> with "Attached</data>
	handsets" field set to (Number of registered handsets attached to the line=01H,
	Handset bitmap = PP1 bit set, with no trailing null octets in the bitmap)
	2. Verify that the IUT accepts registration
	3. Verify that the IUT sends to TS_1 a <read confirm,="" entries="" id="m," session="" start<="" td=""></read>
	index=1, counter=t > followed by <data data="" last="" packet=""> If (total number of lines =1) then verify that the first entry includes an "Attached</data>
	handsets" field set to (Number of registered handsets attached to the line=02H,
	Handset bitmap= PP1 and PP2 bits set, with no trailing null octets in the bitmap)
	Else if (total number of lines ≥ 2 and FT_IXIT_12 value is 'supported') then
	verify that at least one of the entries includes an "Attached handsets" field set to
	(Number of registered handsets attached to the line=02H, Handset bitmap= PP1 and PP2 bits set, with no trailing null octets in the bitmap)
	Store the line id value 'v' of the first line found with the new registered PP attached to
	4. Verify that the IUT sends to TS_1 a <edit confirm,="" entry="" id="n" session=""> followed by <data data="" last="" packet=""> with set to (Number of registered handsets attached to the line=02H, Handset bitmap= PP1 and PP2 bits set, with no trailing null octets in</data></edit>
	the bitmap)
	5. Verify that the IUT sends to TS_1 a <save available="" confirm,="" entries="t" entry="" id="n," identifier="u," index="p," number="" of="" position="" session="" total=""></save>
	6. Verify that the IUT sends to TS_1 a <end confirm,="" id="n" session=""></end>
	7. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
	8. Verify that the IUT sends to TS_1 a {FACILITY} message with IE < <events< td=""></events<>
	NOTIFICATION= < List change indication, Line settings list, 1 entry >
	(=<03H,88H,81H>) >> and IE< <call-information>> specifying (Relating to line v) =<(0, 3, value v)></call-information>
Comments:	- 'u' entry identifier is the identifier of the first line found with the new registered PP attached to
	- 'v' is the line identifier within this entry 'u'
	 Reception of {FACILITY} message is tested as pass criteria 8. However,
	{FACILITY} message can also be sent by the IUT at any time after pass criteria
	5 or 6 (any time after the save <save confirm="" entry=""> command). Test</save>
	equipment shall allow these implementations
	- PP1 and PP2 bit positions in the 'Attached handset' bitmap depend on the
	configuration items HANDSET_TS_1_NUMBER and
	HANDSET_TS_2_NUMBER declared (see Clause C.2)
	 FT_IXIT_12 value 'supported' indicates that registered PPs are attached by default to at least one line (see Annex A, Table A.15)
	derault to at least one line (see Allilex A, Table A.13)

TC_FT_NG1.N.16_BV_4101	Line settings list - Dialling Prefix - Edit entry - Save entry - Read entries - Outgoing call
Reference:	TS 102 527-3 [14], Clause 7.4.11.4.4
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2), Line settings list open (session
	id=n)
Stimulus:	 Send a <read counter="1," direction="0," entries,="" id="n," index="1," mark<br="" session="" start="">entries request= 00H, list entry field identifier 1 =04H> from TS_1</read>
	 Send a <edit 1="04H" entry="" entry,="" field="" id="n," identifier="" list="" session=""> from TS_1</edit>
	 Send a <save entry="" entry,="" id="n," identifier="u" session=""> from TS_1 followed by <data packet/data packet last> with "Number" field set to (Digit=30H, 39H)</data </save>
	4. Send a <read 1="04H" counter="1," direction="0," entries="" entries,="" entry="" field="" id="n," identifier="" index="0," list="" mark="" request="00H," session="" start=""> from TS_1</read>
	5. Send a <end id="n" session="" session,=""> from TS_1</end>
	6. Send a {CC-RELEASE} message from TS_1
	7. Perform an outgoing call to "0123456789" from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a < Read entries confirm, session id=n> followed
	by <data data="" last="" packet=""> with entry content (entry identifier = u)</data>
	 Verify that the IUT sends to TS_1 a <edit confirm,="" entry="" id="n" session=""> followed by <data data="" last="" packet=""> with "Number" field length = 01H</data></edit>
	3. Verify that the IUT sends to TS_1 a <save confirm,="" entry="" entry<="" id="n," session="" td=""></save>
	identifier=u, position index=1, total number of available entries=t>
	4. Verify that the IUT sends to TS_1 a <read confirm,="" entries="" id="n," session="" start<="" td=""></read>
	index=1, counter=1> followed by <data data="" last="" packet=""> with Dialling Prefix</data>
	field set to previously modified value
	5. Verify that the IUT sends to TS_1 a <end confirm,="" id="n" session=""></end>
	6. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
	Verify at network interface that the IUT added the dialling prefix to the called party number by dialling "090123456789"

TC_FT_NG1.N.16_BV_4201	Line settings list - FP melody - Edit entry - Save entry - Read entries
Reference:	TS 102 527-3 [14], Clause 7.4.11.4.5
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2), Line settings list open (session
	id=n)
Stimulus:	 Send a <read counter="1," direction="0," entries,="" id="n," index="1," mark<br="" session="" start="">entries request= 00H, list entry field identifier 1 =05H> from TS_1</read>
	 Send a <edit 1="05H" entry="" entry,="" field="" id="n," identifier="" list="" session=""> from TS_1</edit>
	3. Send a <save entry="" entry,="" id="n," identifier="u" session=""> from TS_1 followed by <data data="" last="" packet=""> with FP melody field set to 03H</data></save>
	4. Send a <read 1="05H" counter="1," direction="0," entries="" entries,="" entry="" field="" id="n," identifier="" index="1," list="" mark="" request="00H," session="" start=""> from TS_1</read>
	5. Send a <end id="n" session="" session,=""> from TS_1</end>
	6. Send a {CC-RELEASE} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a < Read entries confirm, session id=n> followed by <data data="" last="" packet=""> with entry content (entry identifier = u)</data>
	2. Verify that the IUT sends to TS_1 a <edit confirm,="" entry="" id="n" session=""> followed by <data data="" last="" packet=""></data></edit>
	3. Verify that the IUT sends to TS_1 a <save available="" confirm,="" entries="t" entry="" id="n," identifier="u," index="1," number="" of="" position="" session="" total=""></save>
	4. Verify that the IUT sends to TS_1 a <read confirm,="" counter="1" entries="" id="n," index="1," session="" start=""> followed by <data data="" last="" packet=""> with FP melody field set to 03H</data></read>
	5. Verify that the IUT sends to TS_1 a <end confirm,="" id="n" session=""></end>
	6. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message

TC_FT_NG1.N.16_BV_4301	Line settings list - FP volume - Edit entry - Save entry - Read entries
Reference:	TS 102 527-3 [14], Clause 7.4.11.4.6
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2), Line settings list open (session
	lid=n)
Stimulus:	1. Send a <read 1="06H" counter="1," direction="0," entries="" entries,="" entry="" field="" id="n," identifier="" index="1," list="" mark="" request="00H," session="" start=""> from TS_1</read>
	2. Send a <edit 1="06H" entry="" entry,="" field="" id="n," identifier="" list="" session=""> from TS_1</edit>
	3. Send a <save entry="" entry,="" id="n," identifier="u" session=""> from TS_1 followed by <data data="" last="" packet=""> with FP volume field set to 30H</data></save>
	4. Send a <read 1="06H" counter="1," direction="0," entries="" entries,="" entry="" field="" id="n," identifier="" index="1," list="" mark="" request="00H," session="" start=""> from TS_1</read>
	5. Send a <end id="n" session="" session,=""> from TS_1</end>
	6. Send a {CC-RELEASE} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a < Read entries confirm, session id=n> followed by <data data="" last="" packet=""> with entry content (entry identifier = u)</data>
	2. Verify that the IUT sends to TS_1 a <edit confirm,="" entry="" id="n" session=""> followed by <data data="" last="" packet=""></data></edit>
	3. Verify that the IUT sends to TS_1 a <save available="" confirm,="" entries="1" entry="" id="n," identifier="u," index="1," number="" of="" position="" session="" total=""></save>
	4. Verify that the IUT sends to TS_1 a <read confirm,="" entries="" id="n," session="" start<="" td=""></read>
	index=1, counter=1> followed by <data data="" last="" packet=""> with FP volume field set to 30H</data>
	5. Verify that the IUT sends to TS_1 a <end confirm,="" id="n" session=""></end>
	6. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
	o. Verify that the 101 Sends to 10_1 a (00-NELEASE-0011) message

TC_FT_NG1.N.16_BV_4401	Line settings list - Blocked number - Edit entry - Save entry - Read entries- Outgoing call
	blocked
Reference:	TS 102 527-3 [14], Clause 7.4.11.4.7
Initial condition:	Line settings list open (session id=n)
Stimulus:	1. Send a <read 1="07H" counter="1," direction="0," entries="" entries,="" entry="" field="" id="n," identifier="" index="1," list="" mark="" request="00H," session="" start=""> from TS_1</read>
	2. Send a <edit 1="07H" entry="" entry,="" field="" id="n," identifier="" list="" session=""> from TS_1</edit>
	3. Send a <save entry="" entry,="" id="n," identifier="u" session=""> from TS_1 followed by <data data="" last="" packet=""> with "Number" field set to (Digit=30H, 30H, 2AH)</data></save>
	4. Send a <read 1="07H" counter="1," direction="0," entries="" entries,="" entry="" field="" id="n," identifier="" index="1," list="" mark="" request="00H," session="" start=""> from TS_1</read>
	5. Send a <end id="n" session="" session,=""> from TS_1</end>
	6. Send a {CC-RELEASE} message from TS_1
	7. Perform an outgoing call to "000123456789" from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a < Read entries confirm, session id=n> followed by <data data="" last="" packet=""> with entry content (entry identifier = u)</data>
	2. Verify that the IUT sends to TS_1 a <edit confirm,="" entry="" id="n" session=""> followed by <data data="" last="" packet=""></data></edit>
	3. Verify that the IUT sends to TS_1 a <save available="" confirm,="" entries="t" entry="" id="n," identifier="u," index="1," number="" of="" position="" session="" total=""></save>
	4. Verify that the IUT sends to TS_1 a <read confirm,="" counter="1" entries="" id="n," index="1," session="" start=""> followed by <data data="" last="" packet=""> with Blocked number field set to previously modified value</data></read>
	5. Verify that the IUT sends to TS_1 a <end confirm,="" id="n" session=""></end>
	6. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
	7. Verify that the IUT blocks the call and sends back to TS_1 a {CC-RELEASE} message
Comments:	This field may be contained several times in line settings entry

TC_FT_NG1.N.16_BV_4501	Line settings list - Multiple calls mode - Edit entry - Save entry - List change notification -
	Read entries
Reference:	TS 102 527-3 [14], Clause 7.4.11.4.8
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2), Multiple calls IUT, Line settings list
	open (session id=n)
Stimulus:	 Send a <read counter="1," direction="0," entries,="" id="n," index="1," mark<br="" session="" start="">entries request= 00H, list entry field identifier 1 =08H> from TS_1</read>
	 Send a <edit 1="08H" entry="" entry,="" field="" id="n," identifier="" list="" session=""> from TS_1</edit>
	3. Send a <save entry="" entry,="" id="n," identifier="u" session=""> from TS_1 followed by <data data="" last="" packet=""> with Multiple calls mode field modified (i.e. modify to 30H if 31H or 31H if 30H)</data></save>
	4. Send a <read 1="08H" counter="1," direction="0," entries="" entries,="" entry="" field="" id="n," identifier="" index="1," list="" mark="" request="00H," session="" start=""> from TS_1</read>
	5. Send a <end id="n" session="" session,=""> from TS_1</end>
	6. Send a {CC-RELEASE} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a < Read entries confirm, session id=n> followed by <data data="" last="" packet=""> with entry content (entry identifier = u)</data>
	2. Verify that the IUT sends to TS_1 a <edit confirm,="" entry="" id="n" session=""> followed by <data data="" last="" packet=""></data></edit>
	3. Verify that the IUT sends to TS_1 a <save available="" confirm,="" entries="t" entry="" id="n," identifier="u," index="1," number="" of="" position="" session="" total=""></save>
	4. Verify that the IUT sends to TS_1 a <read confirm,="" counter="1" entries="" id="n," index="1," session="" start=""> followed by <data data="" last="" packet=""> with Multiple calls mode field set to previously modified value</data></read>
	5. Verify that the IUT sends to TS_1 a <end confirm,="" id="n" session=""></end>
	6. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
	7. Verify that the IUT sends to TS_1 and TS_2 a {FACILITY} message with IE
	< <events 1="" change="" entry="" indication,="" line="" list="" list,="" notification="<" settings=""></events>
	(=<03H,88H,81H>) >> and IE< <call-information>> specifying (Relating to</call-information>
	line 0) =< $(0, 3, \text{lid0 set to value declared in FT_IXIT_20})$ >
Comments:	Reception of {FACILITY} message is tested as pass criteria 7. However, {FACILITY}
	message can also be sent by the IUT at any time after pass criteria 3, 4 or 5 (any time after the save <save confirm="" entry=""> command). Test equipment shall allow these</save>
	implementations

TC_FT_NG1.N.16_BV_4601	Line settings list - Intrusion call - Edit entry - Save entry - List change notification - Read
	entries
Reference:	TS 102 527-3 [14], Clause 7.4.11.4.9
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2), Line settings list open (session
	id=n)
Stimulus:	 Send a <read counter="1," direction="0," entries,="" id="n," index="1," mark<br="" session="" start="">entries request= 00H, list entry field identifier 1 =09H> from TS_1</read>
	 Send a <edit 1="09H" entry="" entry,="" field="" id="n," identifier="" list="" session=""> from TS_1</edit>
	3. Send a <save entry="" entry,="" id="n," identifier="u" session=""> from TS_1 followed by <data data="" last="" packet=""> with Intrusion call field modified (i.e. modify to 30H if 31H or 31H if 30H)</data></save>
	4. Send a <read 1="09H" counter="1," direction="0," entries="" entries,="" entry="" field="" id="n," identifier="" index="1," list="" mark="" request="00H," session="" start=""> from TS_1</read>
	5. Send a <end id="n" session="" session,=""> from TS_1</end>
	6. Send a {CC-RELEASE} message from TS_1
Pass criteria:	 Verify that the IUT sends to TS_1 a < Read entries confirm, session id=n> followed by <data data="" last="" packet=""> with entry content (entry identifier = u)</data>
	2. Verify that the IUT sends to TS_1 a <edit confirm,="" entry="" id="n" session=""> followed by <data data="" last="" packet=""></data></edit>
	3. Verify that the IUT sends to TS_1 a <save available="" confirm,="" entries="t" entry="" id="n," identifier="u," index="1," number="" of="" position="" session="" total=""></save>
	4. Verify that the IUT sends to TS_1 a <read confirm,="" counter="1" entries="" id="n," index="1," session="" start=""> followed by <data data="" last="" packet=""> with Intrusion call mode field set to previously modified value</data></read>
	5. Verify that the IUT sends to TS_1 a <end confirm,="" id="n" session=""></end>
	6. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
	7. Verify that the IUT sends to TS_1 and TS_2 a {FACILITY} message with IE
	< <events 1="" change="" entry="" indication,="" line="" list="" list,="" notification="<" settings=""></events>
	(=<03H,88H,81H>) >> and IE< <call-information>> specifying (Relating to</call-information>
	line 0) =<(0, 3, lid0 set to value declared in FT_IXIT_20)>
Comments:	Reception of {FACILITY} message is tested as pass criteria 7. However, {FACILITY}
	message can also be sent by the IUT at any time after pass criteria 3, 4 or 5 (any time after the save <save confirm="" entry=""> command). Test equipment shall allow these</save>
	implementations

TC_FT_NG1.N.16_BV_4701	Line settings list - Permanent CLIR - Edit entry - Save entry - List change notification -
	Read entries
Reference:	TS 102 527-3 [14], Clause 7.4.11.4.10
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2), Line settings list open (session
	id=n)
Stimulus:	 Send a <read 1="0AH" counter="1," direction="0," entries="" entries,="" entry="" field="" id="n," identifier="" index="1," list="" mark="" request="00H," session="" start=""> from TS_1</read> Send a <edit 1="0AH" entry="" entry,="" field="" id="n," identifier="" list="" session=""> from TS_1</edit>
	 Send a <save entry="" entry,="" id="n," identifier="u" session=""> from TS_1 followed by <data data="" last="" packet=""> with Permanent CLIR field set to: "Value" subfield set to 31H "CLIR activation code" subfield set to (05H, 2AH, 05H, 30H, 39H, 2AH) </data></save>
	"CLIR deactivation code" subfield set to (05H, 23H, 05H, 35H, 23H)
	 Send a <read 1="0AH" counter="1," direction="0," entries="" entries,="" entry="" field="" id="n," identifier="" index="1," list="" mark="" request="00H," session="" start=""> from TS_1</read>
	5. Send a <end id="n" session="" session,=""> from TS_1</end>
	6. Send a {CC-RELEASE} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a < Read entries confirm, session id=n> followed by <data data="" last="" packet=""> with entry content (entry identifier = u)</data>
	2. Verify that the IUT sends to TS_1 a <edit confirm,="" entry="" id="n" session=""> followed by <data data="" last="" packet=""></data></edit>
	3. Verify that the IUT sends to TS_1 a <save available="" confirm,="" entries="t" entry="" id="n," identifier="u," index="1," number="" of="" position="" session="" total=""></save>
	4. Verify that the IUT sends to TS_1 a <read confirm,="" counter="1" entries="" id="n," index="1," session="" start=""> followed by <data data="" last="" packet=""> with Permanent CLIR field set to previously modified value</data></read>
	5. Verify that the IUT sends to TS_1 a <end confirm,="" id="n" session=""></end>
	6. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
	7. Verify that the IUT sends to TS_1 and TS_2 a {FACILITY} message with IE < <events 1="" change="" entry="" indication,="" line="" list="" list,="" notification="<" settings=""> (=<03H,88H,81H>) >> and IE<<call-information>> specifying (Relating to line 0) =<(0, 3, lid0 set to value declared in FT_IXIT_20)></call-information></events>
Comments:	Reception of {FACILITY} message is tested as pass criteria 7. However, {FACILITY} message can also be sent by the IUT at any time after pass criteria 3, 4 or 5 (any time after the save <save confirm="" entry=""> command). Test equipment shall allow these implementations</save>

TC FT NG1.N.16 BV 4801	Line settings list - Call Forwarding Unconditional - Edit entry - Save entry - List change
	notification - Read entries
Reference:	TS 102 527-3 [14], Clause 7.4.11.4.11
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2), Line settings list open (session
	id=n)
Stimulus:	 Send a <read counter="1," direction="0," entries,="" id="n," index="1," mark<br="" session="" start="">entries request= 00H, list entry field identifier 1 =0BH> from TS_1</read>
	 Send a <edit 1="0BH" entry="" entry,="" field="" id="n," identifier="" list="" session=""> from TS_1</edit>
	 Send a <save entry="" entry,="" id="n," identifier="u" session=""> from TS_1 followed by <data packet/data packet last> with Call Forwarding Unconditional field set to: "Value" subfield set to 31H</data </save>
	"CFU activation code" subfield set to (04H, 2AH, 05H, 30H, 39H) "CFU deactivation code" subfield set to (04H, 23H, 05H, 31H, 38H) "Call forwarding number" subfield set to "0612345789"
	4. Send a <read 1="0BH" counter="1," direction="0," entries="" entries,="" entry="" field="" id="n," identifier="" index="1," list="" mark="" request="00H," session="" start=""> from TS_1</read>
	5. Send a <end id="n" session="" session,=""> from TS_1</end>
	6. Send a {CC-RELEASE} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a < Read entries confirm, session id=n> followed by <data data="" last="" packet=""> with entry content (entry identifier = u)</data>
	 Verify that the IUT sends to TS_1 a <edit confirm,="" entry="" id="n" session=""> followed by <data data="" last="" packet=""></data></edit>
	3. Verify that the IUT sends to TS_1 a <save available="" confirm,="" entries="t" entry="" id="n," identifier="u," index="1," number="" of="" position="" session="" total=""></save>
	4. Verify that the IUT sends to TS_1 a <read confirm,="" counter="1" entries="" id="n," index="1," session="" start=""> followed by <data data="" last="" packet=""> with Call Forwarding unconditional field set to previously modified value</data></read>
	5. Verify that the IUT sends to TS_1 a <end confirm,="" id="n" session=""></end>
	6. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
	7. Verify that the IUT sends to TS_1 and TS_2 a {FACILITY} message with IE < <events 1="" change="" entry="" indication,="" line="" list="" list,="" notification="<" settings=""> (=<03H,88H,81H>) >> and IE<<call-information>> specifying (Relating to line 0) =<(0, 3, lid0 set to value declared in FT_IXIT_20)></call-information></events>
Comments:	Reception of {FACILITY} message is tested as pass criteria 7. However, {FACILITY} message can also be sent by the IUT at any time after pass criteria 3, 4 or 5 (any time after the save <save confirm="" entry=""> command). Test equipment shall allow these implementations</save>

TC_FT_NG1.N.16_BV_4901	
	notification - Read entries
Reference:	TS 102 527-3 [14], Clause 7.4.11.4.12
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2), Line settings list open (session
	id=n)
Stimulus:	1. Send a <read counter="1," direction="0," entries,="" id="n," index="1," mark<="" session="" start="" td=""></read>
	entries request= 00H, list entry field identifier 1 =0CH> from TS_1
	2. Send a <edit 1="0CH" entry="" entry,="" field="" id="n," identifier="" list="" session=""></edit>
	from TS_1
	3. Send a <save entry="" entry,="" id="n," identifier="u" session=""> from TS_1 followed by <data< td=""></data<></save>
	packet/data packet last> with Call Forwarding on No Answer field set to:
	"Value" subfield set to 31H
	"Nb of seconds before call is forwarded" subfield set to 40H
	"CFNA activation code" subfield set to (03H, 23H, 38H, 38H)
	"CFNA deactivation code" subfield set to (03H, 2AH, 39H, 39H)
	"Call forwarding number" subfield set to "0912345678"
	4. Send a <read counter="1," direction="0," entries,="" id="n," index="1," mark<="" session="" start="" td=""></read>
	entries request= 00H, list entry field identifier 1=0CH> from TS_1
	5. Send a <end id="n" session="" session,=""> from TS_1</end>
Dana aritaria:	6. Send a {CC-RELEASE} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a < Read entries confirm, session id=n> followed
	by <data data="" last="" packet=""> with entry content (entry identifier = u)</data>
	2. Verify that the IUT sends to TS_1 a <edit confirm,="" entry="" id="n" session=""> followed by</edit>
	<data data="" last="" packet=""> Verify that the IUT sends to TS 1 a <save confirm,="" entry="" entry<="" id="n," li="" session=""> </save></data>
	3. Verify that the IUT sends to TS_1 a <save available="" confirm,="" entries="t" entry="" id="n," identifier="u," index="1," number="" of="" position="" session="" total=""></save>
	4. Verify that the IUT sends to TS_1 a <read confirm,="" entries="" id="n," session="" start<="" td=""></read>
	index=1, counter=1> followed by <data data="" last="" packet=""> with Call Forwarding</data>
	on no answer field set to previously modified value
	5. Verify that the IUT sends to TS_1 a <end confirm,="" id="n" session=""></end>
	6. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
	7. Verify that the IUT sends to TS_1 and TS_2 a {FACILITY} message with IE
	<= Verify that the 101 series to 10_1 and 10_2 a \(\)1 ACIENT / message with 12 \(<< \)EVENTS NOTIFICATION= < List change indication, Line settings list, 1 entry >
	(=<03H,88H,81H>) >> and IE< <call-information>> specifying (Relating to</call-information>
	line 0) =<(0, 3, lid0 set to value declared in FT_IXIT_20)>
Comments:	Reception of {FACILITY} message is tested as pass criteria 7. However, {FACILITY}
Commonto.	message can also be sent by the IUT at any time after pass criteria 3, 4 or 5 (any time
	after the save <save confirm="" entry=""> command). Test equipment shall allow these</save>
	implementations
<u> </u>	Imponentation

TC FT_NG1.N.16_BV 5001	Line settings list - Call Forwarding on Busy subscriber - Edit entry - Save entry - List
	change notification - Read entries
Reference:	TS 102 527-3 [14], Clause 7.4.11.4.13
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2), Line settings list open (session
	id=n)
Stimulus:	1. Send a <read 1="0DH" counter="1," direction="0," entries="" entries,="" entry="" field="" id="n," identifier="" index="1," list="" mark="" request="00H," session="" start=""> from TS_1</read>
	2. Send a <edit 1="0DH" entry="" entry,="" field="" id="n," identifier="" list="" session=""> from TS_1</edit>
	 Send a <save entry="" entry,="" id="n," identifier="1" session=""> from TS_1 followed by <data packet/data packet last> with Call Forwarding on Busy subscriber field set to: "Value" subfield set to 31H</data </save>
	"CFB activation code" subfield set to (05H, 23H, 05H, 38H, 31H, 23H) "CFB deactivation code" subfield set to (05H, 2AH, 05H, 39H, 30H, 2AH) "Call forwarding number" subfield set to "0897654321"
	4. Send a <read 1="0DH" counter="1," direction="0," entries="" entries,="" entry="" field="" id="n," identifier="" index="1," list="" mark="" request="00H," session="" start=""> from TS_1</read>
	5. Send a <end id="n" session="" session,=""> from TS_1</end>
	6. Send a {CC-RELEASE} message from TS_1
Pass criteria:	Verify that the IUT sends to TS_1 a < Read entries confirm, session id=n> followed by <data data="" last="" packet=""> with entry content (entry identifier = u)</data>
	2. Verify that the IUT sends to TS_1 a <edit confirm,="" entry="" id="n" session=""> followed by <data data="" last="" packet=""></data></edit>
	Verify that the IUT sends to TS_1 a <save available="" confirm,="" entries="t" entry="" id="n," identifier="u," index="1," number="" of="" position="" session="" total=""></save>
	4. Verify that the IUT sends to TS_1 a <read confirm,="" entries="" id="n," session="" start<="" td=""></read>
	index=1, counter=1> followed by <data data="" last="" packet=""> with Call Forwarding on Busy subscriber field set to previously modified value</data>
	5. Verify that the IUT sends to TS_1 a <end confirm,="" id="n" session=""></end>
	6. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
	7. Verify that the IUT sends to TS_1 and TS_2 a {FACILITY} message with IE
	< <events 1="" change="" entry="" indication,="" line="" list="" list,="" notification="<" settings=""></events>
	(=<03H,88H,81H>) >> and IE< <call-information>> specifying (Relating to line 0) =<(0, 3, lid0 set to value declared in FT_IXIT_20)></call-information>
Comments:	Reception of {FACILITY} message is tested as pass criteria 7. However, {FACILITY} message can also be sent by the IUT at any time after pass criteria 3, 4 or 5 (any time after the save <save confirm="" entry=""> command). Test equipment shall allow these implementations</save>

TC_FT_NG1.N.16_BV_5101	DECT system settings list - Emission mode - Edit entry - Save entry - Read entries
Reference:	TS 102 527-3 [14], Clause 7.4.11.3.12
Initial condition:	F-00
Stimulus:	Evaluate the IUT higher layer capabilities from TS_1
	1a. Send a {CC-SETUP} message from TS_1 with IE < <basic-service <lia="" =="" p="" service<=""></basic-service>
	setup, Wideband speech default setup attributes> >>
	 Send a <start fields="0" identifier="07H," list="" nb="" of="" session,="" sorting=""> from TS_1</start>
	Send a <read counter="1," direction="0," entries,="" id="n," index="1," li="" mark<="" session="" start=""></read>
	entries request= 00H, list entry field identifier 1 =0CH> from TS_1
	 Send a <edit 1="0CH" entry="" entry,="" field="" id="n," identifier="" list="" session=""> from TS_1</edit>
	 Send a <save entry="" entry,="" id="n," identifier="u" session=""> from TS_1 followed by <data packet/data packet last> with Emission mode modified (i.e. modify to 'NEM' bit to 0B if 1B or to 1B if 0B)</data </save>
	 Send a <read counter="1," direction="0," entries,="" id="n," index="0," mark<br="" session="" start="">entries request= 00H, list entry field identifier 1=0CH> from TS_1</read>
	6. Send a {CC-RELEASE} message from TS_1
	7. Evaluate the IUT higher layer capabilities from TS_1
Pass criteria:	 Verify that the IUT has set the "No Emission mode support" FP higher layer capability bit equal to 1 (= Extended higher layer capabilities (part 2) a35 bit)
	1a. Verify that the IUT sends to TS_1 a {CC-CALL-PROC} message
	1b. Verify that the IUT sends to TS_1 a <start 1,="" confirm,="" discriminator="" fields="0" id="n," nb="" of="" or="" session="" sorting="" total="" type="0"></start>
	2. Verify that the IUT sends to TS_1 IUT a < Read entries confirm, session id=n>
	followed by <data data="" last="" packet=""> with entry content (entry identifier = u)</data>
	3. Verify that the IUT sends to TS_1 a <edit confirm,="" entry="" id="n" session=""> followed by</edit>
	<data data="" last="" packet=""></data>
	4. Verify that the IUT sends to TS_1 a <save confirm,="" entry="" entry<="" id="n," session="" td=""></save>
	identifier=u, position index=1, total number of available entries=1>
	Verify that the IUT sends to TS_1 a <read confirm,="" entries="" id="n," li="" session="" start<=""></read>
	index=1, counter=1> followed by <data data="" last="" packet=""> with Emission mode</data>
	set to previously modified value
	6. Verify that the IUT sends back to TS_1 a {CC-RELEASE-COM} message 7. Verify that the IUT has still set the "No Emission mode support" FP higher layer
	 Verify that the IUT has still set the "No Emission mode support" FP higher layer capability bit equal to 1 (= Extended higher layer capabilities (part 2) a35 bit).

7.17 TC_FT_NG1.N.17 Calling line identity restriction tests cases

Test subgroup objectives: to check the IUT's behaviours regarding Calling line identity restriction with the following considerations:

- As NG1.N.17_2 "Permanent CLIR" procedure is also tested when testing NG1.N.16_25 "Line settings list" procedure for the corresponding setting.
- As NG1.N.17_3 "Temporary CLIR mode (call by call)" procedure includes only PP requirements, there is no test case defined for this procedure.

Declarations (see Annex A):

• NG1.N.17 "Calling line identity restriction" feature is optional on FP side, so the manufacturer shall declare if it is supported.

TC_FT_NG1.N.17_BV_201	Permanent CLIR mode (all calls)
Reference:	TS 102 527-3 [14], Clause 7.4.12.2
Initial condition:	"Permanent CLIR" field on line 0 set to the following values
	"Value" subfield set to 31H (activated)
	"CLIR activation code" subfield set to FT_IXIT_29.7 (possibly empty)
	"CLIR deactivation code" subfield set to FT_IXIT_29.8 (possibly empty)
	F-00
Stimulus:	1. Perform an outgoing call from TS_1 to Phone A
	Modify "Value" subfield of "Permanent CLIR" field in line 0 settings list to 30H (deactivated) from TS 1
	Perform an outgoing call from TS_1 to Phone A
Pass criteria:	Verify that Phone A presents when ringing the IUT identification, either IUT phone number or IUT name
	2. Verify that Phone A does not present when ringing the IUT identification, neither IUT
	phone number nor IUT name (i.e. presentation restricted)
Comments:	- For the definition of FT_IXIT_29.7 and FT_IXIT_29.8, see Annex A, Table A.16

TC_FT_NG1.N.17_BV_202	Permanent CLIR – Extended higher layer capabilities (Part 2)
Test purpose	Verify that the FP IUT sets the "Permanent CLIR" attribute in the Extended higher layer
	capabilities (Part 2)
Reference:	TS 102 527-3 [14], Clause 7.4.9.2.3
Initial condition:	F-00
Time sequence:	s1 [TS_1 >> IUT] Perform an access rights request
	a1 [IUT >> TS_1] "Permanent CLIR " attribute (bit a30) of Extended higher layer capabilities (Part 2) is set to 1
Pass criteria: Comments	Verify the answer

7.18 TC_FT_NG1.N.18 Call forwarding (external calls) tests cases

Test subgroup objectives: to check the IUT's behaviours regarding Call forwarding (external calls) with the following considerations:

• As NG1.N.18_1 "Call forwarding common requirements" procedure is tested when testing NG1.N.16_25 "Line settings list" procedure for the corresponding settings, there is no test case defined for this procedure.

TC_FT_NG1.N.18_BV_201	External Call Forwarding Unconditional (CFU) to external number
Reference:	TS 102 527-3 [14], Clause 7.4.13.2
Initial condition:	"Call Forwarding unconditional" field on line 0 set to the following values
	"Value" subfield set to 31H (activated)
	"CFU activation code" subfield set to FT_IXIT_29.1 (possibly empty)
	"CFU deactivation code" subfield set to FT_IXIT_29.2 (possibly empty)
	"Call forwarding number" subfield set to Phone B number
	F-00
Stimulus:	Perform an incoming call on line 0 towards IUT from Phone A
	2. Modify "Value" subfield of "Call Forwarding Unconditional" field in line 0 settings list
	to 30H (deactivated) from TS_1
	Perform an incoming call on line 0 towards IUT from Phone A
Pass criteria:	1. Verify that Phone B rings
	Verify that IUT does not send to TS_1 any {CC-SETUP} message
	2. Verify that the IUT sends to TS_1 a {CC-SETUP} message
Comments:	- For the definition of FT_IXIT_29.1 and FT_IXIT_29.2, see Annex A, Table A.16

Reference: Initial condition: TS 102 527-3 [14], Clause 7.4.13.3 "Call Forwarding on No Answer" field on line 0 set to the following value "Value" subfield set to 31H (activated)	00
	00
"Value" subfield set to 31H (activated)	65
"Nb of seconds before call is forwarded" set to 0FH	
"CFNA activation code" subfield set to FT_IXIT_29.3 (possibly em	
"CFNA deactivation code" subfield set to FT_IXIT_29.4 (possibly	empty)
"Call forwarding number" subfield set to Phone B number	
F-00	
Stimulus: 1. Perform an incoming call on line 0 towards IUT from Phone A	
2. Wait for 10seconds	
2a. Wait for 10 additional seconds	
3. Modify "Nb of seconds before call is forwarded" subfield of "Call F	
Answer" field in line 0 settings list to 00H (default FP value) from	ΓS_1
Perform an incoming call on line 0 towards IUT from Phone A	
4. none	
5. Modify "Value" subfield of "Call Forwarding on No Answer" field in	line 0 settings list
to 30H (deactivated) from TS_1	
Perform an incoming call on line 0 towards IUT from Phone A	
6. Wait for 20seconds	
Pass criteria: 1. Verify that the IUT sends to TS_1 a {CC-SETUP} message	
2. Verify that the IUT has not sent to TS_1 a {CC-RELEASE} messa	ge
2a. Verify that the IUT sends to TS_1 a {CC-RELEASE} message	
Verify that Phone B rings	
3. Verify that the IUT sends to TS_1 a {CC-SETUP} message	
Verify that the IUT sends to TS_1 a {CC-RELEASE} message 4. Verify that Phone B rings	
5. Verify that the IUT sends to TS_1 a {CC-SETUP} message	
6. Verify that the IUT does not send any {CC-RELEASE} message be	ofore the 20
seconds	CIOIC LIC 20
Comments: - For the definition of FT_IXIT_29.3 and FT_IXIT_29.4, see A	nnev A Tahle A 16
- In pass criteria 2 and 2a, the test equipment checks that the	
CC-RELEASE message between 10 and 20 seconds after t	
(because the CFNA is configured with 15 seconds in initial of	
- In Pass criteria 6 test equipment checks that the call forward	
deactivated	doldany

al Call Forwarding on Busy subscriber (CFB) to external number
2 527-3 [14], Clause 7.4.13.4
orwarding on Busy subscriber" field on line 0 set to the following values
/alue" subfield set to 31H (activated)
CFB activation code" subfield set to FT_IXIT_29.5 (possibly empty)
CFB deactivation code" subfield set to FT_IXIT_29.6 (possibly empty)
Call forwarding number" subfield set to Phone B number
al call in F-10 (TS_1+IUT) initiated by TS_1 on line 0 with Phone C
erform an incoming call on line 0 towards IUT from Phone A
end a {CC-RELEASE} from TS_1
odify "Value" subfield of "Call Forwarding on Busy subscriber" field in line 0 settings
st to 30H (deactivated) from TS_1
erform an incoming call on line 0 towards IUT from Phone A
end a CC-CONNECT from TS_1
erform an incoming call on line 0 towards IUT from Phone A
erify that Phone B rings
erify that IUT does not send to TS_1 any {CC-SETUP} message
erify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
erify that the IUT sends to TS_1 a {CC-SETUP} message with IE
<call-information>> specifying (line 0, line type information, call id a, CS call etup) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value a), (2, 1, 1)>>></call-information>
erify that the IUT sends to TS_1 a {CC-INFO} message with IE
<call-information>> specifying (line 0, line type information, call id b, CS call</call-information>
etup) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value b), (2, 1, 1)>>>
This test case is only used if FT_IXIT_16 is supported (in other words if FP
triggers the CFB when second incoming call occurs)
For the definition of FT_IXIT_29.5 and FT_IXIT_29.6, see Annex A, Table A.16
In Pass criteria 4 test equipment checks that the call forward was actually
deactivated

7.19 TC_FT_NG1.N.19 DTMF handling tests cases

Test subgroup objectives: to check the IUT's behaviours regarding DTMF handling with the following considerations:

- There is no test case defined for NG1.N.19_1 "Uplink DTMF transmission at call setup when FP connected to classic switching network" procedure and for NG1.N.19_2 "Uplink DTMF transmission when connected" as these procedures are inevitably implemented in a FP.
- There is no test case defined for NG1.N.19_3 "Downlink DTMF reception" procedure as the DTMF are received transparently as in-band audio.

TC_FT_NG1.N.19_BV_401	Local DTMF feedback of dialled digits
Reference:	TS 102 527-3 [14], Clause 7.4.14.3
Initial condition:	F-10 (TS_1+IUT)
Stimulus:	Send piecewise dialling using the {CC-INFO} message with IE < <keypad>> for each</keypad>
	digit (0-9, *,#) from TS_1
Pass criteria:	Verify that the IUT does not generate to TS_1 any audio in band feedback.

7.20 TC_FT_NG1.N.20 Tones provision tests cases

Test subgroup objectives: to check the IUT's behaviours regarding tones provision procedures.

Declarations (see Annex A):

- NG1.N.20_2 "Tones provision by the system" procedure and NG1.N.20_3 "Transparency to tones provision by the network or PABX" procedure are exclusive for external call, so the manufacturer shall declare which method is supported for each implemented tone.
- Though, NG1.N.20_2 "Tones provision by the system" procedure is mandatory for internal call.
- Ring-back tone on internal call, included in NG1.N.20_2 "Tones provision by the system" procedure, is tested when running NG1.N.8 "Call transfer" test cases, so there is no test case defined for this requirement.

- When NG1.N.20_2 "Tones provision by the system" procedure is supported, following tones are optional so the manufacturer shall declare if they are supported:
 - NG1.N.20_2 "Dial tone".
 - NG1.N.20_2 "Off-hook warning tone".
 - NG1.N.20_2 "Network congestion tone (external calls only)".

TC_FT_NG1.N.20_BV_201	Tones provision by the system - Ring-back tone
Reference:	TS 102 527-3 [14], Clause 7.4.15.2.1
Initial condition:	F-00
Stimulus:	Perform an outgoing call to Phone A from TS_1
	2. Call pick up on Phone A
Pass criteria:	1. Verify that the IUT sends to TS_1 an IE < <signal>> with the value 01H indicating 'Ring back tone on':</signal>
	 for non-early CC-CONNECT implementation, within either a {CC-ALERTING} or a {CC-INFO} message before {CC-CONNECT} message
	 for early CC-CONNECT implementation, within a {CC-INFO} message after {CC-CONNECT} message
	2. Verify that the IUT sends to TS_1 an IE < <signal>> with the value 3FH indicating 'Tones Off' within either a {CC-INFO} or a {CC-CONNECT} message</signal>
Comments:	For early CC-CONNECT implementation, ring-back tone is not expected in {CC-CONNECT} message

TC_FT_NG1.N.20_BV_202	Tones provision by the system - Busy tone
Reference:	TS 102 527-3 [14], Clause 7.4.15.2.1
Initial condition:	"Single call" mode line, 2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2), external call
	in F-10 (TS_2+IUT) initiated by PP2 with Phone B
Stimulus:	Initiate outgoing call from TS_1 on the same line as the first call with TS_2
Pass criteria:	Verify that the IUT sends to TS_1 a {CC-INFO} message with IE < <signal>> with the</signal>
	value 04H indicating 'Busy tone on'

TC_FT_NG1.N.20_BV_203	Tones provision by the system - Call waiting tone
Reference:	TS 102 527-3 [14], Clause 7.4.15.2.1
Initial condition:	G.722 external call in F-10 (TS_1+IUT) with Phone A
Stimulus:	Perform an incoming external call towards IUT from Phone B
Pass criteria:	Verify that the IUT sends to TS_1 a {CC-INFO} message with IE < <signal>> with the</signal>
	value 07H indicating 'call waiting tone on'

TC_FT_NG1.N.20_BV_204	Tones provision by the system - Negative acknowledgement tone
Reference:	TS 102 527-3 [14], Clause 7.4.15.2.1
Initial condition:	External call in F-10 (TS_1+IUT) with Phone A (call id a), one parallel external call
	established with Phone B (call id b), both calls are on line 0
Stimulus:	Send a {CC-INFO} message from TS_1 with IE < <multi-keypad>> set to (1CH, 33H)</multi-keypad>
	digits and with IE < <call-information>> specifying (call id c) =<(1, 0, value c)></call-information>
Pass criteria:	Verify that the IUT send to TS_1 a {CC-INFO} message with IE < <signal>> with the</signal>
	value 09H indicating 'Negative acknowledgement tone'
Comments:	Call id is assigned by the IUT, as a result call id c shall be different from allocated ones

TC_FT_NG1.N.20_BV_206	Tones provision by the system - Dial tone
Reference:	TS 102 527-3 [14], Clause 7.4.15.2.1
Initial condition:	F-00
Stimulus:	1. Send a {CC-SETUP} message from TS_1
	 Send a {CC-INFO} message with IE <<multi-keypad>> set to (34H, 33H, 32H, 31H) digits from TS_1</multi-keypad>
Pass criteria:	 Verify that the IUT sends to TS_1 an IE <<signal>> with the value 00H indicating 'Dial tone on':</signal>
	 for non-early CC-CONNECT implementation, within either a {CC-SETUP-ACK} or a {CC-INFO} message before {CC-CONNECT} message
	 for early CC-CONNECT implementation, within either a {CC-CONNECT} or a further {CC-INFO} message
	2. Verify that the IUT sends to TS_1 an IE < <signal>> with the value 3FH indicating</signal>
	'Tones Off' within either a {CC-CALL-PROC}, a {CC-CONNECT}, or a {CC-INFO}
	message

TC_FT_NG1.N.20_BV_207	Tones provision by the system - Off-hook warning tone
Reference:	TS 102 527-3 [14], Clause 7.4.15.2.1
Initial condition:	F-10 (TS_1+IUT) with Phone A
Stimulus:	Hang up on Phone A
Pass criteria:	Verify that the IUT sends to TS_1 a {CC-INFO} message with IE < <signal>> with the</signal>
	value 08H indicating 'Off-hook warning tone on'

TC_FT_NG1.N.20_BV_210	Tones provision by the system - Ring-back tone on parallel call
Reference:	TS 102 527-3 [14], Clause 7.4.15.2.
Initial condition:	External call in F-10 (TS_1+IUT) with Phone A (call id a) on line 0
Stimulus:	 Send 1CH 15H digits together with Phone B number in IE <<multi-keypad>> in a {CC-INFO} message from TS_1 and IE <<call-information>> specifying (line None) =<(0, 0, 127)></call-information></multi-keypad>
	2. Call pick up on Phone B
Pass criteria:	Verify that the IUT sends to TS_1 a {CC-INFO} message with IE < <call-information>> for new call reference call id b Verify that the IUT sends to TS_1 a {CC-INFO} message with IE <<signal>> with the value 01H indicating 'Ring back tone on'</signal></call-information>
Comments	2. Verify that the IUT sends to TS_1 an IE < <signal>> with the value 3FH indicating 'Tones Off' within a {CC-INFO} message</signal>
Comments:	

TC_FT_NG1.N.20_BV_220	Tones provision by the system - Backward compatibility with legacy PPs
Reference:	TS 102 527-3 [14], Clause 7.4.15.2.2
Initial condition:	TS_1 is a GAP PP, F-00
Stimulus:	Perform an outgoing call from TS_1
Pass criteria:	Verify that the IUT indicates availability of in-band tones to TS_1 by connecting the U-plane either by sending:
	 IE <<progress indicator="">> before {CC-CONNECT} message; or</progress> a {CC-CONNECT} message

TC_FT_NG1.N.20_BV_301	Transparency to tones provision by the network or PABX - Dial tone and ring back tone for
	a first call
Reference:	TS 102 527-3 [14], Clause 7.4.15.3
Initial condition:	F-00
Stimulus:	Perform an outgoing call on line 0 to Phone A from TS_1
Pass criteria:	Verify that the IUT indicates availability of in-band tones to TS_1 by connecting the U-plane either by sending:
	 IE <<progress indicator="">> before {CC-CONNECT} message; or</progress> a {CC-CONNECT} message
	Verify on TS_1 that the tones generated by the network or PABX can be heard:
	The Dial tone on if declared (see Annex A, Table A.26)
	 the Ring Back Tone if declared (see Annex A, Table A.26)
Comments:	- The TC is tested if at least one of the two indicated tones is handled transparently as declared in Table A.26. Only declared tone(s) is(are) tested in the pass criteria

TC_FT_NG1.N.20_BV_302	Transparency to tones provision by the network or PABX - Busy tone
Reference:	TS 102 527-3 [14], Clause 7.4.15.3
Initial condition:	F-00
Stimulus:	1. Perform a call from phone B to phone A (done by user)
	2. Perform an outgoing call on line 0 to Phone A from TS_1
Pass criteria:	1. None
	2. Verify that the IUT indicates availability of in-band tones to TS_1 by connecting the U-plane either by sending:
	 IE <<progress indicator="">> before {CC-CONNECT} message; or</progress> a {CC-CONNECT} message
	Verify that the Busy tone or busy in-band announcement indication generated by the network or PABX can be heard
Comments:	For first stimulus, a display on test equipment to request user to place a call from phone B to phone A is necessary
	Purpose of stimulus 1 is to set-up a busy situation in the network regarding phone A. However this may be linked to the network capabilities (for example, double call features disabled with phone A). So other variants of stimulus 1 are allowed in order to set up this busy situation with phone A.

TC_FT_NG1.N.20_BV_303	Transparency to tones provision by the network or PABX - Call waiting tone
Reference:	TS 102 527-3 [14], Clause 7.4.15.3
Initial condition:	G.722 external call in F-10 (TS_1+IUT) with Phone A
Stimulus:	Perform an incoming external call towards IUT from Phone B
Pass criteria:	Verify that the IUT plays transparently the call waiting tone

TC_FT_NG1.N.20_BV_304	Transparency to tones provision by the network or PABX - Dial tone and ring back tone for
	outgoing parallel call
Reference:	TS 102 527-3 [14], Clause 7.4.15.3
Initial condition:	G.722 external call in F-10 (TS_1+IUT) initiated by TS_1 on line 0 (call id a) with Phone A
Stimulus:	 Send a {CC-INFO} message from TS_1 with IE << MULTI-KEYPAD >> set to 1CH 15H digits and IE <<call-information>> specifying (line None) =<(0, 0, 127)></call-information> Send a {CC-INFO} message with IE <<multi-keypad>> set to Phone B number and IE <<call-information>> specifying (call id b) =<(1, 0, value b)></call-information></multi-keypad>
Pass criteria:	 If declared (see Annex A, Table A.26), verify on TS_1 that the Dial tone on generated by the network or PABX can be heard If declared (see Annex A, Table A.26), verify on TS_1 that the Ring Back Tone generated by the network or PABX can be heard
Comments:	 The objective of this test case is to test the tones when provided transparently by the network, as a consequence it is not necessary to test the call statuses nor call ids The TC is tested if at least one of the two indicated tones is handled transparently as declared in Table A.26. Only declared tone(s) is(are) tested in the pass criteria

7.21 TC_FT_NG1.N.21 Headset management tests cases

Test subgroup objectives: to check the IUT's behaviours regarding headset management with the following consideration:

- As NG1.N.21_1 "Headset considerations" is tested implicitly when running NG1.A.1 "Easy PIN-code registration" test cases, there is no test case defined for this procedure.
- As NG1.N.21_3 "Headset incoming call" is tested implicitly when running NG1.N.1 "Codec negotiation" incoming call test cases, there is no test case defined for this procedure.
- As NG1.N.21_4 "Re-dial of last outgoing call" and NG1.N.21_5 "Re-dial of last incoming call" procedures use normal call setup instead of 'interception' setup, there is no test case defined for these procedures.
- As NG1.N.21_6 "Switching headset to handset (headset initiated)" procedures use NG1.N.8 "Call transfer" procedure, there is no test case defined for these procedures.

• All other telephony features are supported on FP side towards a HPP, so there is no test case defined for NG1.N.21_8 "Compatibility with other telephony features and profiles".

TC_FT_NG1.N.21_BV_201	Headset call interception - G.722 call
Reference:	TS 102 527-3 [14], Clause 7.4.16.2.2
Initial condition:	2 PPs registered (TS_1 is HPP PP1, TS_2 is NG PP2),
	"Call interception" set to 31H ("allowed") for PP2's internal names list entry,
	G.722 external call in F-10 (TS_2+IUT) established by Phone B on line 0 (call id b) with
	TS_2, TS_2 selected G.722 when negotiating codec
Stimulus:	1. Send a {CC-SETUP} message in long slot mode with IE << MULTI-KEYPAD >> set
	to (1CH, 50H, 2AH) digits from TS_1
	2. Start F <cc.ng.01> timer control when receiving IE <<signal>> in step 1</signal></cc.ng.01>
	Time out of F< CC.NG.01> timer control
	3. Send a {CC-RELEASE-COM} message from TS_2
Pass criteria:	1. Verify that the IUT sends to TS_1
	- (for a non-early {CC-CONNECT} implementation), a {CC-CALL-PROC} message
	with IE < <call-information>> specifying (line 0, line type information, call id b,</call-information>
	CS call proc) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value b), (2, 1, 3)>
	OR
	- (for an early {CC-CONNECT} implementation) a {CC-CONNECT} message with IE
	< <call-information>> specifying (line 0, line type information, call id b) =<(0, 0,</call-information>
	lid0), (0, 5, lt0), (1, 0, value b)> followed by a {CC-INFO} message with IE
	< <call-information>> specifying (call id b, CS call proc) =<(1, 0, value b), (2, 1,</call-information>
	3)>
	Verify that the IUT sends to TS_2 in the same or different {CC-INFO} messages:
	 an IE <<signal>> with the value 02H indicating 'intercept tone on'</signal>
	 an IE <<calling li="" number="<Number" number,<="" party="" specific="" type="Network"> </calling>
	Numbering plan id = Private plan, Presentation indicator=do not care value,
	Screening indicator= do not care value, calling party address= IA5 coding of
	terminal identity number in decimal of PP1> >>,
	 an IE <<call-information>> specifying (call id b, CS_call intercepted) =<(1, 0, value b), (2, 1, 8)>,</call-information>
	 when sent in different messages, call status indication shall always be sent in the first used {CC-INFO} message, and call identifier shall be sent within all
	messages
	Verify that the IUT sends to TS_1
	 (for a non-early {CC-CONNECT} implementation) a {CC-CONNECT} message with IE <<call-information>> specifying (call id b, CS call connect) =<(1, 0, value b), (2, 1, 5)></call-information>
	OR
	- (for an early {CC-CONNECT} implementation) a {CC-INFO} message with IE < <call-information>> specifying (call id b, CS call connect) =<(1, 0, value b),</call-information>
	(2, 1, 5)>
	Verify end-to-end U-plane connection between TS_1 and Phone B
Comments:	Verify that the IUT sends to TS_2 a {CC-RELEASE} message 'Call interception' parameter in Internal names list shall be configured by the
	test system - In pass criterion 1, test equipment relies on declaration FT_IXIT_22 to know if
	the IUT implements early or non-early CC-CONNECT on line 0
	- In pass criterion 1, the line confirmation (line 0, line type information) may also
	be sent:
	 - (for a non-early {CC-CONNECT} implementation) in a {CC-INFO} (without any call status) following the {CC-CALL-PROC} and sent before
	{CC-CONNECT}
	- (for an early {CC-CONNECT} implementation), in a {CC-INFO} following the {CC-CONNECT} (together with 'CS call proc', or in subsequent one without
	any call status sent before 'CS call connect')

TC_FT_NG1.N.21_BV_202	Headset call interception - G.726 call
Reference:	TS 102 527-3 [14], Clause 7.4.16.2.2
Initial condition:	2 PPs registered (TS_1 is HPP PP1, TS_2 is NG PP2),
	"Call interception" set to 31H ("allowed") for PP2's internal names list entry,
	G.726 external call in F-10 (TS_2+IUT) established by Phone C on line 0 (call id b), TS_2
	selected G.726 when negotiating codec
Stimulus:	 Send a {CC-SETUP} message in long slot mode with IE << MULTI-KEYPAD >> set to (1CH, 50H, 2AH) digits from TS_1
	2. Start F <cc.ng.01> timer control when receiving IE <<signal>> in step 1</signal></cc.ng.01>
	Time out of F< CC.NG.01> timer control
	3. Send a {CC-RELEASE-COM} message from TS_2
Pass criteria:	Verify that the IUT sends to TS_1
	- (for a non-early {CC-CONNECT} implementation), a {CC-CALL-PROC} message with IE < <call-information>> specifying (line 0, line type information, call id b, CS call proc) =<(0, 0, lid0), (0, 5, lt0), (1, 0, value b), (2, 1, 3)> OR</call-information>
	- (for an early {CC-CONNECT} implementation) a {CC-CONNECT} message with IE
	<call-information>> specifying (line 0, line type information, call id b) =<(0, 0,</call-information>
	lid0), (0, 5, lt0), (1, 0, value b)> followed by a {CC-INFO} message with IE
	< <call-information>> specifying (call id b, CS call proc) =<(1, 0, value b), (2, 1, 3)></call-information>
	Verify that the IUT sends to TS_2 in the same or different {CC-INFO} messages:
	an IE < <signal>> with the value 02H indicating 'intercept tone on'</signal>
	an IE < <calling number="<Number" number,<="" party="" specific="" td="" type="Network"></calling>
	Numbering plan id = Private plan, Presentation indicator=do not care value,
	Screening indicator= do not care value, calling party address= IA5 coding of terminal identity number in decimal of PP1> >>,
	 an IE <<call-information>> specifying (call id b, CS_call intercepted) =<(1, 0, value b), (2, 1, 10)>,</call-information>
	 when sent in different messages, call status indication shall always be sent in the first used {CC-INFO} message, and call identifier shall be sent within all
	messages
	Verify that the IUT sends to TS_1 - (for a non-early {CC-CONNECT} implementation), a {CC-CONNECT} message
	with IE < <call-information>> specifying (call id b, CS call connect) =<(1, 0, value b), (2, 1, 5)></call-information>
	OR (1.100.00NNF0T): 1.101.11(1.100NF0)
	 - (for an early {CC-CONNECT} implementation) a {CC-INFO} message with IE <<call-information>> specifying (call id b, CS call connect) =<(1, 0, value b),</call-information> (2, 1, 5)>
	Verify end-to-end U-plane connection between TS_1 and Phone C
	2. Verify that the IUT sends to TS_2 a {CC-RELEASE} message
Comments:	- 'Call interception' parameter in Internal names list shall be configured by the test system
	- In pass criterion 1, test equipment relies on declaration FT_IXIT_22 to know if
	the IUT implements early or non-early CC-CONNECT on line 0
	- In pass criterion 1, the line confirmation (line 0, line type information) may also
	be sent:
	 (for a non-early {CC-CONNECT} implementation) in a {CC-INFO} (without any call status) following the {CC-CALL-PROC} and sent before
	{CC-CONNECT}
	- (for an early {CC-CONNECT} implementation), in a {CC-INFO} following the {CC-CONNECT} (together with 'CS call proc', or in subsequent one without
	any call status sent before 'CS call connect')

TC_FT_NG1.N.21_BV_204	Headset call interception - Control code failed
Reference:	TS 102 527-3 [14], Clause 7.4.16.2.2
Initial condition:	2 PPs registered (TS_1 is HPP PP1, TS_2 is NG PP2),
miliar corrainori.	"Call interception" set to 30H ("not allowed") for PP2's internal names list entry,
	External call in F-10 (TS_2+IUT) established by TS_2 on line 0 (call id b) with Phone B
Stimulus:	Send a {CC-SETUP} message in long slot mode with IE << MULTI-KEYPAD >> set to (1CH, 50H, 2AH) digits from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1:
	- (for a non-early {CC-CONNECT} implementation), a {CC-CALL-PROC} message with IE < <call-information>> specifying at least (call id b, CS call proc) =< (1, 0, value b), (2, 1, 3)> OR</call-information>
	- (for an early {CC-CONNECT} implementation), a {CC-CONNECT} message with IE < <call-information>> specifying at least (call id b) =<(1, 0, value b)> followed by a {CC-INFO} message with IE <<call-information>> specifying (call id b, CS call proc) =<(1, 0, value b), (2, 1, 3)></call-information></call-information>
	Verify that the IUT sends to TS_1 in the same or different {CC-INFO} messages: • an IE < <signal>> with the value 09H indicating 'Negative acknowledgement tone'</signal>
	 an IE <<call-information>> specifying (call id b, CS call disconnecting, control code failed) =< (1, 0, value b), (2, 1, 6), (2, 2, 3)></call-information>
	 when sent in different messages, call status indication shall always be sent in the first used {CC-INFO} message, and call identifier shall be sent within all messages
	Verify that the IUT sends to TS_1 a {CC-INFO} message an IE < <call-information>> specifying (call id b, CS idle) =< (1, 0, value b), (2, 1, 0) ></call-information>
0	Verify end-to-end U-plane connection between TS_2 and Phone B
Comments:	- 'Call interception' parameter in Internal names list shall be configured by the
	 test system In pass criterion 1, test equipment relies on declaration FT_IXIT_22 to know if the IUT implements early or non-early CC-CONNECT on line 0
	 In pass criterion 1, presence of a line confirmation (line 0, line type information) is optional (error case) and is therefore not tested. Note that the IUT is still
	 allowed to send a line confirmation as follows: (for a non-early {CC-CONNECT} implementation) in the {CC-CALL-PROC}, or in a {CC-INFO} (without any call status) following the {CC-CALL-PROC} and sent before 'CS call disconnecting' call status (for an early {CC-CONNECT} implementation), in the {CC-CONNECT}, or in a {CC-INFO} following the {CC-CONNECT} (together with 'CS call proc', or
	in subsequent one without any call status sent before 'CS call disconnecting' call status)

ETSI

TC_FT_NG1.N.21_BV_701	Switching from headset to handset (handset initiated) - G.722 call
Reference:	TS 102 527-3 [14], Clause 7.4.16.7
Initial condition:	2 PPs registered (TS_1 is HPP PP1, TS_2 is NG PP2),
	"Call interception" set to 31H ("allowed") for PP1's internal names list entry,
	G.722 outgoing call in F-10 intercepted by TS_1 (Run TC_FT_NG1.N.21_BV_201)
Stimulus:	1. Send a {CC-SETUP} message in long slot mode with IE << MULTI-KEYPAD >> set
	to (1CH, 50H, 2AH) digits from TS_2
	2. Start F <cc.ng.01> timer control when receiving IE <<signal>> in step 1</signal></cc.ng.01>
	Time out of F< CC.NG.01> timer control
	3. Send a {CC-RELEASE-COM} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_2:
l dos oritoria.	- (for a non-early {CC-CONNECT} implementation), a {CC-CALL-PROC} message
	with IE < <call-information>> specifying (line 0, line type information, call id b,</call-information>
	CS = (0, 0, 1id0), (0, 5, 1t0), (1, 0, value b), (2, 1, 3)
	OR
	- (for an early {CC-CONNECT} implementation) a {CC-CONNECT} message with IE
	< <call-information>> specifying (line 0, line type information, call id b) =<(0, 0,</call-information>
	lid0), (0, 5, lt0), (1, 0, value b)> followed by a {CC-INFO} message with IE
	< <call-information>> specifying (call id b, CS call proc) =<(1, 0, value b), (2, 1,</call-information>
	3)>
	Verify that the IUT sends to TS_1 in the same or different {CC-INFO} messages:
	 an IE <<signal>> with the value 02H indicating 'intercept tone on'</signal>
	 an IE <<calling li="" number="<Number" number,<="" party="" specific="" type="Network"> </calling>
	Numbering plan id = Private plan, Presentation indicator=do not care value,
	Screening indicator= do not care value, calling party address= IA5 coding of
	terminal identity number in decimal of PP2> >>,
	 an IE <<call-information>> specifying (call id b, CS_call intercepted) =<(1,</call-information>
	0, value b), (2, 1, 10)>,
	 when sent in different messages, call status indication shall always be sent in the
	first used {CC-INFO} message, and call identifier shall be sent within all
	messages
	Verify that the IUT sends to TS_2:
	- (for a non-early {CC-CONNECT} implementation), a {CC-CONNECT} message
	with IE < <call-information>> specifying (call id b, CS call connect) =<(1, 0,</call-information>
	value b), (2, 1, 5)>
	OR
	- (for an early {CC-CONNECT} implementation) a {CC-INFO} message with IE
	< <call-information>> specifying (call id b, CS call connect) =<(1, 0, value b),</call-information>
	(2, 1, 5)>
	Verify end-to-end U-plane connection between TS_2 and Phone B
	2. Verify that the IUT sends to TS_1 a {CC-RELEASE} message
Comments	_ , ,
Comments:	- 'Call interception' parameter in Internal names list shall be configured by the
	test system
	- In pass criterion 1, test equipment relies on declaration FT_IXIT_22 to know if
	the IUT implements early or non-early CC-CONNECT on line 0
	- In pass criterion 1, the line confirmation (line 0, line type information) may also
	be sent:
	- (for a non-early {CC-CONNECT} implementation) in a {CC-INFO} (without
	any call status) following the {CC-CALL-PROC} and sent before
	{CC-CONNECT}
	 (for an early {CC-CONNECT} implementation), in a {CC-INFO} following the
	{CC-CONNECT} (together with 'CS call proc', or in subsequent one without
	any call status sent before 'CS call connect')

7.22 TC_FT_NG1.N.22 Handling of lines where second calls are signalled in-band tests cases

Test subgroup objectives: to check the IUT's behaviours regarding handling of lines where second calls are signalled in-band with the following consideration:

• NG1.N.22 "Handling of lines where second calls are signalled in-band" feature is optional on FP side, so the manufacturer shall declare if it is supported.

- NG1.N.22_2 "Basic 'double call with in-band signalling' lines" procedure is not tested as this type of line is not considered as DCIBS line from the NG1.N.22 "Handling of lines where second calls are signalled in-band" feature perspective.
- NG1.N.22_3 "Use of transparent commands on DCIBS lines (Basic or Off-hook CLIP enabled) or any other line" procedure is not tested as the transparent commands are network dependant.

NOTE: Off-hook CLIP is also called "CLIP phase II". See definition Clause 3.1.

Declarations (see Annex A):

• NG1.N. 22 "Handling of lines where second calls are signalled in-band" feature is optional on FP side, so the manufacturer shall declare if it is supported.

TC_FT_NG1.N.22_BV_101	Off-hook CLIP enabled 'double call with in-band signalling' lines - double call with in-band
	signalling type for outgoing call (first and second call)
Reference:	TS 102 527-3 [14], Clauses 7.4.3.10.2 and 7.4.8.3
Initial condition:	F-00
Stimulus:	 Send a {CC-SETUP} message from TS_1 with IE <<basic-service>> 'Normal call setup' and IE <<call-information>> specifying (line 0) =<(0, 0, lid0)></call-information></basic-service> Send a {CC-INFO} message with IE <<multi-keypad>> set to Phone A number. Pick up the call on Phone A</multi-keypad>
	3. Send a {CC-INFO} message from TS_1 with IE << MULTI-KEYPAD >> set to 1CH 15H digits together with Phone B number and IE < <call-information>> specifying (line 0) =<(0, 0, lid0)></call-information>
	4. Pick up the call on Phone B
	5. Send a {CC-RELEASE} message from TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1:
	 - (for 'non-early {CC-CONNECT}' implementation (1.1)) a {CC-SETUP-ACK} message, - (for 'early {CC-CONNECT}' implementation (1.2)) a {CC-CONNECT} message, with (in both cases) IE <<call-information>> specifying:</call-information> - (if 1.1) mandatorily (call id a) =<(1, 0, value a)>
	- (if 1.2) optionally (line 0, line type information with second call type set to 1) =<(0, 0, lid0), (0, 5, lt0=1xB)>
	2. If the line id was sent in (1.2), verify that the IUT sends to TS_1:
	- (for 'non-early {CC-CONNECT}' implementation) a {CC-CALL-PROC} or {CC-INFO} message
	- (for 'early {CC-CONNECT}' implementation) a {CC-INFO} message, with (in both cases), IE < <call-information>> specifying: (line 0, line type information with second call type set to 1, call id a) =<(0, 0, lid0), (0, 5, lt0=1xB), (1, 0, value a)></call-information>
	Verify that the IUT then sends to TS_1: - (for 'non-early {CC-CONNECT}' implementation) a {CC-CONNECT} message
	- (for 'early {CC-CONNECT}' implementation), a {CC-INFO} message, with (in both cases) (call id a, CS call connect) =<(1, 0, value a), (2, 1, 5)> Verify end-to-end U-plane connection between TS_1 and Phone A
	3. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
	< <call-information>> specifying (call id a, CS call hold) =<(1, 0, value a), (2, 1, 9)> followed by a {CC-INFO} message with IE <<call-information>> specifying (line 0, line type information with second call type set to 1, call id b) =<(0, 0, lid0), (0, 5,</call-information></call-information>
	It0=1xB), (1, 0, value b)> 4. Verify that the IUT sends to TS_1 a {CC-INFO} message with IE
	<call-information>> specifying (call id b, CS call connect) =<(1, 0, value b), (2, 1, 5)></call-information>
	Verify end-to-end U-plane connection between TS_1 and Phone B 5. Verify that the IUT sends to TS_1 a {CC-RELEASE-COM} message
Comments:	Early CC-CONNECT and non-early CC-CONNECT cases are handled in the same test case (pass criteria 1 and 2). Test equipment shall allow both implementations. Test equipment may rely on supplier declaration FT_IXIT_22 to know which implementation is
	used by the IUT

TC_FT_NG1.N.22_BV_301	Off-hook CLIP enabled 'double call with in-band signalling' lines - Call release
Reference:	TS 102 527-3 [14], Clause 7.4.3.10.3.2
Initial condition:	External call in F-10 (TS_1+IUT) initiated by TS_1 on line 0 (call id a) with Phone A,
	one parallel external call on hold on line 0 (call id b) with Phone B
Stimulus:	Send a {CC-INFO} message with IE << MULTI-KEYPAD >> set to (1CH, 33H) digits and with IE < <call-information>> specifying (call id a) =<(1, 0, value a)> from TS_1</call-information>
Pass criteria:	Verify that the IUT sends to TS_1 in the same or different {CC-INFO} messages:
	 an IE <<signal>> with the value 09H indicating 'Negative acknowledgement tone'</signal>
	 an IE <<call-information>> specifying (call id a, CS call connect, control code failed) =< (1, 0, value a), (2, 1, 5), (2, 2, 3)></call-information>
	 when sent in different messages, call status indication shall always be sent in the first used {CC-INFO} message, and call identifier shall be sent within all messages
Comments:	 This test case is applicable only when FT_IXIT_24 (call release) is declared as "not supported" on this line by the supplier. In such a case the test checks that the FP actually sends a negative acknowledgement
	 In pass criteria, after sending the negative acknowledgement, the IUT shall not send the 'CS idle' call status to the PP

TC_FT_NG1.N.22_BV_302	Off-hook CLIP enabled 'double call with in-band signalling' lines - Call waiting rejection
	(from PP to FP) (external)
Reference:	TS 102 527-3 [14], Clause 7.4.3.10.3.2
Initial condition:	External call in F-10 (TS_1+IUT) initiated by TS_1 on line 0 (call id a) with Phone A
Stimulus:	1. Perform an incoming external call towards IUT from Phone B on line 0
	2. Send a {CC-INFO} message with IE << MULTI-KEYPAD >> set to (1CH, 36H) digits
	and with IE < <call-information>> specifying (call id b) =<(1, 0, value b)> from</call-information>
	TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 a {CC-INFO} message with an IE
	< <call-information>> specifying (line 0, line type information with second call</call-information>
	type set to 1, call id b, CS call setup) =<(0, 0, lid0), (0, 5, lt0=1xB), (1, 0, value b),
	(2, 1, 1)>
	2. Verify that the IUT sends to TS_1 in the same or different {CC-INFO} messages:
	 an IE <<signal>> with the value 09H indicating 'Negative acknowledgement tone'</signal>
	 an IE <<call-information>> specifying (call id b, CS call setup, control code failed) =< (1, 0, value b), (2, 1, 5), (2, 2, 3)></call-information>
	 when sent in different messages, call status indication shall always be sent in the first used {CC-INFO} message, and call identifier shall be sent within all
	messages
	Verify that the IUT sends to TS_1 in a subsequent {CC-INFO} message:
	an IE < <call-information>> specifying (call id b, CS idle) =< (1, 0, value b),</call-information>
	(2, 1, 0)>
	Verify end-to-end U-plane connection between TS_1 and Phone A
Comments:	This test case is applicable only when FT_IXIT_25 (call waiting rejection) is declared as
	"not supported" on this line by the supplier

TC_FT_NG1.N.22_BV_303	Off-hook CLIP enabled 'double call with in-band signalling' lines - Putting a call on hold (external)
D ((Table 1 and 1 an
Reference:	TS 102 527-3 [14], Clause 7.4.3.10.3.2
Initial condition:	External call in F-10 (TS_1+IUT) initiated by TS_1 on line 0 (call id a) with Phone A
Stimulus:	Send a {CC-INFO} message with IE << MULTI-KEYPAD >> set to (1CH, 41H) digits and with IE < <call-information>> specifying (call id a) =<(1, 0, value a)>from TS_1</call-information>
Pass criteria:	Verify that the IUT sends to TS_1 in the same or different {CC-INFO} messages:
	 an IE <<signal>> with the value 09H indicating 'Negative acknowledgement tone'</signal>
	 an IE <<call-information>> specifying (call id a, CS call connect, control code failed) =< (1, 0, value a), (2, 1, 5), (2, 2, 3)></call-information>
	 when sent in different messages, call status indication shall always be sent in the first used {CC-INFO} message, and call identifier shall be sent within all messages
	Verify end-to-end U-plane connection between TS_1 and Phone A
Comments:	This test case is applicable only when FT_IXIT_26 (put a call on hold) is declared as "not supported" on this line by the supplier. In such a case the test checks that the FP actually sends a negative acknowledgement

7.23 TC_FT_GAP.N.30 Calling Line Identification Presentation tests cases

Test subgroup objectives: to check the IUT's ability to transmit CLIP.

TC_FT_GAP.N.30_BV_01	Incoming call with calling party number
Reference:	EN 300 444 [12], Clauses 8.12, 8.13 and 8.41
Initial condition:	F-00
Stimulus:	Perform an incoming call towards IUT from Phone A
Pass criteria:	 Verify by checking <<calling number="" party="">> reception on TS_1 that the IUT is able to transmit CLIP either in the {CC-SETUP} message or in a {CC-INFO} message.</calling> Verify that <<calling number="" party="">> includes <calling address="" party=""> field with the calling party number of external party.</calling></calling>

7.24 TC_FT_GAP.N.31 Internal call tests cases

Test subgroup objectives: to check the IUT's behaviours when handling internal call with the following consideration:

• As GAP.N.31_2 "Internal call keypad" is tested implicitly when testing NG1.N.7 "Common parallel call procedures (external or internal)", there is no test case defined for this procedure.

TC_FT_GAP.N.31_BV_101	Internal call setup - internal call class
Reference:	TS 102 527-1 [13], Clause 7.3.6 Table 14
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2), F-00
Stimulus:	Perform an internal call towards TS_1 from TS_2
Pass criteria:	Verify that the IUT performs an internal call setup towards TS_1 with <call class="internal</th"></call>
	call>

TC_FT_GAP.N.31_BV_102	Internal call setup - internal general call
Reference:	TS 102 527-1 [13], Clause 7.3.6
	EN 300 444 [12], Clause 14.4.3
Initial condition:	3 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2, Golden Device A is NG PP3), F-00
Stimulus:	Perform an internal general call from TS_1: send a {CC-INFO} message with IE
	< <multi-keypad>> set to (IA5 coding of internal general call = 2AH) digits</multi-keypad>
Pass criteria:	Verify that the IUT performs an internal call setup towards TS_2 with <call class="internal</th"></call>
	call> and that Golden Device A rings

TC_FT_GAP.N.31_BV_301	Internal call CLIP
Reference:	EN 300 444 [12], Clause 8.43
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2), no internal name configured for
	PP2, F-00
Stimulus:	Perform an internal call towards TS_1 from TS_2
Pass criteria:	Verify that the IUT sends to TS_1 an IE < <calling number="" party="">>, as described in</calling>
	EN 300 444 [12], Clause 8.43, Table 78d with <calling address="" party=""> = IA5 coding of</calling>
	terminal identity number in decimal of PP2

TC_FT_GAP.N.31_BV_401	Internal call CNIP
Reference:	EN 300 444 [12], Clause 8.44
	TS 102 527-3 [14], Clauses 7.4.10.1 (Alphabet compatibility) and 7.4.17.1
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2), F-00
Stimulus:	Perform an internal call towards TS_1 from TS_2
Pass criteria:	Verify that the IUT sends to TS_1 an IE < <calling name="" party="">>, as described in</calling>
	EN 300 444 [12], Clause 8.44, Table 78e with <calling list<="" name="internal" names="" party="" td=""></calling>
	entry of PP2>
Comments:	CNIP can be internal names list entry of PP2 or default string (e.g. "DECT n" where n
	stands for the IA5 coding of the terminal identity number of PP2 in decimal representation)
	UTF-8 characters are not required as it will be too complex to setup an internal names list
	entry through TS in the initial condition

TC_FT_GAP.N.31_BV_601	Internal call codec priority
Reference:	TS 102 527-3 [14], Clause 7.4.3.9
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2), F-00
Stimulus:	1. Perform an internal call G.722 (long slot, G.722 prioritized) towards TS_1 from TS_2
	2. Call pick up on TS_1
Pass criteria:	1. Verify that the IUT sends to TS_1 an IE < <codec list="">> with highest priority for</codec>
	G.722 at call setup or previously at location registration.
	2. Verify end-to-end U-plane connection between TS_1 and TS_2

7.25 TC_FT_GAP.N.34 Calling Name Identification Presentation tests cases

Test subgroup objectives: to check the IUT's ability to handle CNIP.

Declarations (see Annex A):

• GAP.N.34_2 "UTF-8 CNIP" procedure shall be only tested if the FP is connected to an UTF-8 CNIP enabled line.

TC_FT_GAP.N.34_BV_101	Incoming call with calling party name
Reference:	EN 300 444 [12], Clauses 8.12, 8.13 and 8.42
Initial condition:	F-00
Stimulus:	Perform an incoming call on line 0 towards IUT from Phone A (CNIP A with DECT standard characters)
	Verify that the IUT sends to TS_1 in the {CC-SETUP} or {CC-INFO} message an IE < <calling a="" alphabet="DECT" calling="" care="" indicator="do" name="name" not="" of="" or="" party="" phone="" presentation="" screening="" standard="" used="" utf-8,="" value,=""> >></calling>

TC_FT_GAP.N.34_BV_201	Incoming call with UTF-8 calling party name
Reference:	EN 300 444 [12], Clauses 8.12, 8.13 and 8.42
	TS 102 527-3 [14], Clause 7.4.17.1
Initial condition:	F-00
Stimulus:	Perform an incoming call on line 0 towards IUT from Phone B (CNIP B with UTF-8 characters, e.g. 'Phone B éàü')
Pass criteria:	Verify that the IUT sends to TS_1 in the {CC-SETUP} or {CC-INFO} message an IE < <calling alphabet="UTF-8," b="" calling="" care="" indicator="do" name="name" not="" of="" party="" phone="" presentation="" screening="" used="" value,=""></calling>
	>> !!!
Comments:	UTF-8 suggested characters encoding:
	"é": LATIN SMALL LETTER E WITH ACUTE 'c3a9'H
	"à": LATIN SMALL LETTER A WITH GRAVE 'c3a0'H
	"ü": LATIN SMALL LETTER U WITH DIAERESIS 'c3bc'H

TC_FT_GAP.N.34_GC_201	Incoming call with calling party name - UTF-8 to IA5 characters translation
Reference:	EN 300 444 [12], Clauses 8.12, 8.13 and 8.42
	TS 102 527-3 [14], Clause 7.4.17.1
Initial condition:	TS_1 is a GAP PP1,
	F-00
Stimulus:	Perform an incoming call on line 0 towards IUT from Phone B (CNIP B with UTF-8
	characters, e.g. 'Phone B éàü')
Pass criteria:	Verify that the IUT sends to TS_1 in the {CC-SETUP} or {CC-INFO} message an IE
	< <calling alphabet="</td" care="" indicator="do" name="<" not="" party="" presentation="" used="" value,=""></calling>
	DECT standard, Screening indicator= do not care value, calling party name = name of
	Phone B including only IA5 characters> >>
Comments:	For each UTF-8 character received from the network, the FP should translate it into
	equivalent IA5 characters (replacement character is left free to the manufacturer)
	UTF-8 suggested characters encoding:
	"é": LATIN SMALL LETTER E WITH ACUTE 'c3a9'H
	"à": LATIN SMALL LETTER A WITH GRAVE 'c3a0'H
	"ü": LATIN SMALL LETTER U WITH DIAERESIS 'c3bc'H

7.26 TC_FT_GAP.N.35 Enhanced security tests cases

Test subgroup objectives: to check the IUT's behaviours regarding Enhanced security features with the following consideration:

- As GAP.N.35_5 "Enhanced security regarding legacy devices" procedure is tested when testing GAP.N.35_1 "Encryption of all calls" procedure, there is no test case defined for this procedure.
- As GAP.N.35_4 "subscriptions requirements" procedure specifies only FP requirements, there is no test case defined for this procedure.

Declarations (see Annex A):

- GAP.N.35_2 "Re-keying during a call" procedure is optional on FP side, so the manufacturer shall declare if it is supported.
- GAP.N.35_3 "Early encryption" procedure is optional on FP side, so the manufacturer shall declare if it is supported.

TC_FT_GAP.N.35_BV_101	Verify that FT enables encryption for incoming call within timer
	< MM_encryption_check.1 >
Reference:	EN 300 444 [12], Clause 8.45.1
Initial condition:	F-00
Stimulus:	Perform an incoming call from Phone A
	2. TS_1 sends a {CC-ALERTING} message to IUT and start timer T001
	(MM_encryption_ check.1 + 10 %)
	TS_1 sends a {AUTHENTICATION-REPLY} message
	 TS_1 activates encryption on MAC layer and TS_1 sends a {CC-CONNECT} message to IUT
Pass criteria:	1. Verify that IUT sends to TS_1 a {CC-SETUP} message
	Verify that IUT sends to TS_1 a {AUTHENTICATION-REQUEST} message before timer T001 expires
	Verify that IUT sends to TS_1 a {CIPHER_REQUEST} message before timer T001 expires
	4. Verify that IUT sends to TS_1 a {CC-CONNECT-ACK} message
	Verify that encryption is activated before timer T001 expires
	Verify end-to-end U-plane connection between TS_1 and Phone A

TC_FT_GAP.N.35_BV_102	Verify that FT enables encryption for outgoing call within timer < MM_encryption_
	check.1 >
Reference:	EN 300 444 [12], Clause 8.45.1
Initial condition:	F-00
Stimulus:	1. TS_1 sends a {CC-SETUP} to IUT and
	start timer T001 (MM_encryption_check.1 + 10 %)
	2. TS_1 sends a {AUTHENTICATION-REPLY} message
	3. TS_1 activates encryption on MAC layer
Pass criteria:	1. Verify that IUT sends to TS_1 a CC-message (either {CC-SETUP-ACK},
	{CC-ALERTING}, {CC-CALL-PROC}, or {CC-CONNECT}) and
	verify that IUT sends to TS_1 a {AUTHENTICATION-REQUEST} message before
	timer T001 expires
	2. Verify that IUT sends to TS_1 a {CIPHER_REQUEST} message before timer T001
	expires
	3. Verify that encryption is activated before timer T001 expires and verify end-to-end
	U-plane connection
Comments:	The IUT may sent the MM messages of pass criteria 1 and 2 before or after sending the
	CC message of pass criterion 1.

TC_FT_GAP.N.35_BV_105	Release of unencrypted call in case of wrong answer to authentication request
Reference:	EN 300 444 [12], Clause 8.45.1
Initial condition:	F-00
Stimulus:	1. TS_1 sends {CC-SETUP} to IUT and
	start timer T001 (MM_encryption_check.1 + 10 %).
	2. TS_1 sends {AUTHENTICATION-REPLY} with random (wrong) credentials
Pass criteria:	1. Verify that IUT sends to TS_1 a CC-message (either {CC-SETUP-ACK},
	{CC-ALERTING}, {CC-CALL-PROC}, or {CC-CONNECT}) and
	verify that IUT sends to TS_1 a {AUTHENTICATION_REQUEST} message before
	timer T001 expires (the MM message may be sent before or after the CC message).
	2. Verify that IUT sends to TS_1 a {CC-RELEASE-COM} with the information element
	< <release <encryption="" activation="" failed="" reason="either"> or <authentication< td=""></authentication<></release>
	failed>>>

TC_FT_GAP.N.35_BV_106	Release of unencrypted call in case of missing answer to authentication request
Reference:	EN 300 444 [12], Clause 8.45.1
Initial condition:	F-00
Stimulus:	1. TS_1 sends {CC-SETUP} to IUT and
	start timer T001 (MM_encryption_check.1 + 10 %).
	2. TS_1 does neither send {AUTHENTICATION-REPLY} nor
	{AUTHENTICATION-REJECT}
Pass criteria:	1. Verify that IUT sends to TS_1 a CC-message (either {CC-SETUP-ACK},
	{CC-ALERTING}, {CC-CALL-PROC}, or {CC-CONNECT}) and
	verify that IUT sends to TS_1 a {AUTHENTICATION_REQUEST} message before
	timer T001 expires (the MM message may be sent before or after the CC message).
	2. Verify that IUT sends to TS_1 a {CC-RELEASE-COM} with the information element
	< <release <encryption="" activation="" failed="" reason="either"> or <authentication< th=""></authentication<></release>
	failed>>>

TC_FT_GAP.N.35_BV_107	Release of unencrypted call in case of PP sending {AUTHENTICATION-REJECT}
	message
Reference:	EN 300 444 [12], Clause 8.45.1
Initial condition:	F-00
Stimulus:	1. TS_1 sends {CC-SETUP} to IUT and
	start timer T001 (MM_encryptION-check.1 + 10 %)
	2. TS_1 sends a {AUTHENTICATION-REJECT} message to IUT
Pass criteria:	1. Verify that IUT sends to TS_1 a CC-message (either {CC-SETUP-ACK},
	{CC-ALERTING}, {CC-CALL-PROC}, or {CC-CONNECT}) and
	verify that IUT sends to TS_1 a {AUTHENTICATION-REQUEST} message before
	timer T001 expires (the MM message may be sent before or after the CC message).
	2. Verify that IUT sends to TS_1 a {CC-RELEASE_COM} message containing IE
	< <release <encryption="" activation="" failed="" reason="either"> or <authentication< td=""></authentication<></release>
	failed> >> before expiry of T001

TC_FT_GAP.N.35_BV_108	Release of unencrypted call in case of cipher reject.
Reference:	EN 300 444 [12], Clause 8.45.5
Initial condition:	F-00
Stimulus:	1. TS_1 sends {CC-SETUP} to IUT and
	start timer T001 (MM_encryption_check.1 + 10 %)
	2. TS_1 sends a {AUTHENTICATION_REPLY} message
	3. TS_1 sends a {CIPHER-REJECT} to IUT.
Pass criteria:	1. Verify that IUT sends to TS_1 a CC-message (either {CC-SETUP-ACK}, {CC-ALERTING}, {CC-CALL-PROC}, or {CC-CONNECT}) and verify that IUT sends to TS_1 a {AUTHENTICATION_REQUEST} message before
	timer T001 expires
	Verify that IUT sends to TS_1 a {CIPHER_REQUEST} message before timer T001 expires
	3. Verify that IUT sends to TS_1 a {CC-RELEASE-COM} message with the information element < <release activation="" failed="" reason="<encryption"> >></release>
Comments:	The IUT may sent the MM messages of pass criteria 1 and 2 before or after sending the CC message of pass criterion 1.

TC_FT_GAP.N.35_BV_109	Release of unencrypted call in case of missing encryption activation on MAC layer.
Reference:	EN 300 444 [12], Clause 8.45.5
Initial condition:	F-00
Stimulus:	1. TS_1 sends {CC-SETUP} to IUT and
	start timer T001 (MM_encryption_check.1 + 10 %)
	2. TS_1 sends a {AUTHENTICATION_REPLY} message.
Pass criteria:	 Verify that IUT sends to TS_1 a CC-message (either {CC-SETUP-ACK},
	(CC-ALERTING), (CC-CALL-PROC), or (CC-CONNECT)) and
	verify that IUT sends to TS_1 a {AUTHENTICATION_REQUEST} message before
	timer T001 expires.
	2. Verify that IUT sends to TS_1 a {CIPHER_REQUEST} message before timer T001
	expires.
	Verify that IUT sends to TS_1 a {CC-RELEASE-COM} message with the information
	element < <release activation="" failed="" reason="<encryption"> >>.</release>
Comments:	The IUT may sent the MM messages of pass criteria 1 and 2 before or after sending the
	CC message of pass criterion 1.

TC_FT_GAP.N.35_BV_201	Verify indication of Support of 'Re-keying' and 'early encryption' in extended higher layer
	capabilities part 2
Reference:	EN 300 444 [12], Clause 8.45.2
Initial condition:	F-00
Stimulus:	TS_1 evaluates the higher layer capabilities
Pass criteria:	Verify that IUT indicates the support of 'Re-keying' and 'early encryption' in Extended
	higher layer capabilities part 2 (a42 bit=1)

TC_FT_GAP.N.35_BV_202	Usage and frequency of re-keying procedure
Reference:	EN 300 444 [12], Clause 8.45.2
Initial condition:	F-00. 1 PP registered (TS_1), PP has indicated the support of
	'Re-keying' and 'early encryption' in the terminal capability.
Stimulus:	1. Invoke external call from Phone A towards TS_1.
	2. TS_1 sends a {CC-CONNECT} message. Start timer T001
	(<mm_encryption_check.1> +10 %).</mm_encryption_check.1>
	3. TS_1 sends a {AUTHENTICATION-REPLY} message and stores DCK as DCK_01.
	Start timer T001 (<mm_re-keying.1> +10%).</mm_re-keying.1>
	4. TS_1 activates encryption on MAC layer
	5. TS_1 sends a {AUTHENTICATION-REPLY} message and stores DCK as DCK_02.
	6. TS_1 activates encryption on MAC layer
Pass criteria:	1. Verify that IUT sends to TS_1 a {CC-SETUP} message
	2. Verify that IUT sends to TS_1 {AUTHENTICATION-REQUEST} message to TS_1
	before expiry of timer T001.
	3. Verify that IUT sends to TS_1 a {CIPHER_REQUEST} message
	4. Verify that encryption is activated with DCK_1
	Verify end-to-end U-plane connection between TS_1 and Phone A
	Verify that IUT sends to TS_1 {AUTHENTICATION-REQUEST} message to TS_1
	before expiry of timer T001.
	5. Verify that IUT sends to TS_1 a {CIPHER_REQUEST} message
	6. Verify that encryption is activated with DCK_2 and verify end-to-end U-plane
	connection.
Comments:	The IUT may send the MM messages of pass criteria 2 and 3 before or after sending the
	CC message of pass criterion 1.

TC_FT_GAP.N.35_BV_203	Abnormal release if encryption for re-keying is not activated in MAC layer
Reference:	EN 300 444 [12], Clause 8.45.2
Initial condition:	F-00. 1 PP registered (TS_1), PP has indicated the support of
	'Re-keying' and 'early encryption' in the terminal capability.
Stimulus:	1. Invoke external call from Phone A towards TS_1.
	2. TS_1 sends a {CC-CONNECT} message. Start timer T001
	(<mm_encryption_check.1> +10 %).</mm_encryption_check.1>
	3. TS_1 sends a {AUTHENTICATION-REPLY} message. Start timer T001
	(<mm_re-keying.1> +10 %).</mm_re-keying.1>
	4. TS_1 activates encryption on MAC layer
	5. TS_1 sends a {AUTHENTICATION-REPLY} message.
	6. TS_1 does not activate encryption on MAC layer
Pass criteria:	1. Verify that IUT sends to TS_1 a {CC-SETUP} message
	 Verify that IUT sends to TS_1 a {AUTHENTICATION-REQUEST} message to TS_1 before expiry of timer T001.
	3. Verify that IUT sends to TS_1 a {CIPHER_REQUEST} message
	4. Verify that encryption is activated
	Verify end-to-end U-plane connection between TS_1 and Phone A
	Verify that IUT sends to TS_1 a {AUTHENTICATION-REQUEST} message to TS_1 before expiry of timer T001.
	5. Verify that IUT sends to TS_1 a {CIPHER_REQUEST} message
	6. Verify that IUT sends to TS_1 a {CC-RELEASE_COM} message containing IE
	< <release <re-keying="" failed="" reason="either"> or <encryption activation="" failed="">>></encryption></release>
	and then verify that the IUT releases the MAC layer connection.
Comments:	The IUT may send the MM messages of pass criteria 2 and 3 before or after sending the
	CC message of pass criterion 1.
	Too message of pass enterior 1.

TC_FT_GAP.N.35_BV_204	Abnormal release if PP does not answer to {AUTHENTICATION-REQUEST} message
	for re-keying procedure
Reference:	EN 300 444 [12], Clause 8.45.2
Initial condition:	F-00. 1 PP registered (TS_1), PP has indicated the support of
	'Re-keying' and 'early encryption' in the terminal capability.
Stimulus:	Invoke external call from Phone A towards TS_1.
	2. TS_1 sends a {CC-CONNECT} message. Start timer T001
	(MM_encryption_check.1 + 10 %).
	3. TS_1 sends a {AUTHENTICATION-REPLY} message. Start timer T001
	(<mm_re-keying.1> +10 %).</mm_re-keying.1>
	4. TS_1 activates encryption on MAC layer
	5. TS_1 does neither send {AUTHENTICATION-REPLY} nor
	{AUTHENTICATION-REJECT} message
Pass criteria:	 Verify that IUT sends to TS_1 a {CC-SETUP} message
	2. Verify that IUT sends to TS_1 a {AUTHENTICATION-REQUEST} message to TS_1
	before expiry of timer T001.
	3. Verify that IUT sends to TS_1 a {CIPHER_REQUEST} message
	4. Verify that encryption is activated
	Verify end-to-end U-plane connection between TS_1 and Phone A
	Verify that IUT sends to TS_1 a {AUTHENTICATION-REQUEST} message to TS_1
	before expiry of timer T001.
	5. Verify that IUT sends to TS_1 a {CC-RELEASE_COM} message containing IE
	< <release failed="" reason="<Re-Keying"> or <authentication failed=""> or <encryption< td=""></encryption<></authentication></release>
	activation failed> >> and then verify that the IUT releases the MAC layer connection.
Comments:	The IUT may send the MM messages of pass criteria 2 and 3 before or after sending the
	CC message of pass criterion 1.

TC_FT_GAP.N.35_BV_205	Abnormal release if PP answers to {AUTHENTICATION-REQUEST} message for
	re-keying procedure with { AUTHENTICATION-REJECT}
Reference:	EN 300 444 [12], Clause 8.45.2
Initial condition:	F-00. 1 PP registered (TS_1), PP has indicated the support of
	'Re-keying' and 'early encryption' in the terminal capability.
Stimulus:	Invoke external call from Phone A towards TS_1.
	2. TS_1 sends a {CC-CONNECT} message. Start timer T001
	(MM_encryption_check.1 + 10 %)
	3. TS_1 sends a {AUTHENTICATION-REPLY} message. Start timer T001
	(<mm_re-keying.1> +10%).</mm_re-keying.1>
	4. TS_1 activates encryption on MAC layer
	5. TS_1 sends a {AUTHENTICATION-REJECT}
Pass criteria:	1. Verify that IUT sends to TS_1 a {CC-SETUP} message
	2. Verify that IUT sends to TS_1 a {AUTHENTICATION-REQUEST} message to TS_1 before expiry of timer T001.
	3. Verify that IUT sends to TS_1 a {CIPHER_REQUEST} message
	4. Verify that encryption is activated and verify end-to-end U-plane connection.
	Verify that IUT sends to TS_1 a {AUTHENTICATION-REQUEST} message to TS_1
	before expiry of timer T001.
	5. Verify that IUT sends to TS_1 a {CC-RELEASE_COM} message containing IE
	< <release failed="" reason="<Re-Keying"> or <authentication failed=""> or <encryption< td=""></encryption<></authentication></release>
	activation failed> >> and then verify that the IUT releases the MAC layer connection.
Comments:	The IUT may send the MM messages of pass criteria 2 and 3 before or after sending the
	CC message of pass criterion 1.

TC_FT_GAP.N.35_BV_206	Abnormal release if PP answers to {CIPHER_REQUEST} message for re-keying			
	procedure with { CIPHER_REJECT}			
Reference:	EN 300 444 [12], Clause 8.45.2			
Initial condition:	F-00. 1 PP registered (TS_1), PP has indicated the support of			
	'Re-keying' and 'early encryption' in the terminal capability.			
Stimulus:	Invoke external call from Phone A towards TS_1.			
	2. TS_1 sends a {CC-CONNECT} message. Start timer T001			
	(MM_encryption_check.1 + 10 %).			
	3. TS_1 sends a {AUTHENTICATION-REPLY} message. Start timer T001			
	(<mm_re-keying.1> +10 %).</mm_re-keying.1>			
	4. TS_1 activates encryption on MAC layer			
	5. TS_1 sends a {AUTHENTICATION- REPLY}			
	6. TS_1 sends a {CIPHER_REJECT} message			
Pass criteria:	1. Verify that IUT sends to TS_1 a {CC-SETUP} message			
	2. Verify that IUT sends to TS_1 a {AUTHENTICATION-REQUEST} message to TS_1 before expiry of timer T001.			
	3. Verify that IUT sends to TS_1 a {CIPHER_REQUEST} message			
	4. Verify that encryption is activated			
	Verify end-to-end U-plane connection between TS_1 and Phone A.			
	Verify that IUT sends to TS_1 a {AUTHENTICATION-REQUEST} message to TS_1			
	before expiry of timer T001.			
	5. Verify that IUT sends to TS_1 a {CIPHER_REQUEST} message			
	6. Verify that IUT sends to TS_1 a {CC-RELEASE_COM} message containing IE			
	< <release <re-keying="" failed="" reason="either"> or <encryption activation="" failed=""> >></encryption></release>			
	and then verify that the IUT releases the MAC layer connection.			
Comments:	The IUT may send the MM messages of pass criteria 2 and 3 before or after sending the			
	CC message of pass criterion 1.			

TC_FT_GAP.N.35_BV_301	Assignment of default cipher key and usage of early encryption during incoming call.			
Reference:	EN 300 444 [12], Clause 8.45.3			
Initial condition:	Registration mode in IUT enabled (bit a44 is set).			
Stimulus:	1. TS_1 performs subscription registration to IUT, indicating the support of 'Re-keying'			
	and 'early encryption' in the terminal capability.			
	2. Start timer T001 (<mm_early_encryption.1>+10 %). TS_1 sends a</mm_early_encryption.1>			
	{LOCATE-REQUEST} message, indicating the support of 'Re-keying' and 'early			
	encryption' in the terminal capability.			
	3. None			
	4. If IUT has sent an {AUTHENTICATION-REQUEST} message indicating DEF-bit=1 in pass criterion 3, TS_1 sends an {AUTHENTICATION-REPLY} and saves DCK as			
	Def_DCK_1.			
	5. Invoke external call from Phone A towards TS_1. Re-start timer T001			
	(<mm_early_encryption.1>+10%)</mm_early_encryption.1>			
	6. If IUT has sent an {AUTHENTICATION-REQUEST} message indicating DEF-bit=1 in			
	pass criterion 5, TS_1 sends a {AUTHENTICATION-REPLY} and saves DCK as			
	Def_DCK_1. End call on both TS_1 and Phone A.			
	7. Invoke external call from Phone A towards TS_1.			
	8. Perform MAC connection establishment with immediate encryption activation using			
	Def_DCK_1 and send an encrypted {LCE-PAGE-RESPONSE} message.			
	9. TS_1 sends a {CC-CONNECT} message.			
Pass criteria:	Verify successful subscription registration.			
	2. Verify that the IUT sends to TS_1 a {LOCATE-ACCEPT} message.			
	3. If IUT sends an {AUTHENTICATION-REQUEST} message indicating DEF-bit=1 to			
	TS_1 verify that this message is sent before timer T001 expires.			
	4. Verify that connection is released on MAC layer.			
	5. Verify that the IUTsends to TS_1 a {CC-SETUP} message. If IUT sends an			
	{AUTHENTICATION-REQUEST} message indicating DEF-bit=1 to TS_1 verify that this message is sent before timer T001 expires.			
	6. Verify that the connection is released on MAC layer.			
	7. Verify that the IUT broadcasts to TS_1 a {LCE-REQUEST-PAGE} message.			
	8. Verify that the IUT sends to TS_1 a {CC-SETUP} message on the already encrypted			
	link.			
	9. Verify that encryption is activated with Def_DCK_1 and			
	Verify end-to-end U-plane connection between TS_1 and Phone A			
Comments:	The {AUTHENTICATION-REQUEST} message might also arrive in TS_1 before the			
	{LOCATE-ACCEPT} message is received by TS_1. This would also be valid behaviour.			
	Authentication of PP and Default Cipher Key assignment shall be performed at least			
	once, i.e. either in pass criteria 3 or in pass criteria 5.			
	Verification of U-plane connection shall be done while Def_DCK_1 is used.			
	Therefore the TS shall not switch to another DCK (by re-keying) before the U-Plane			
	connection is verified even if the IUT requests to do so			
	· · · · · · · · · · · · · · · · · · ·			

TC_FT_GAP.N.35_BV_302	Usage of early encryption during outgoing call			
Reference:	EN 300 444 [12], Clause 8.45.3			
Initial condition:	F-00. Default cipher key Def_DCK_1 is available both in IUT and TS_1			
	(i.e. TC_FT_GAP.N.35_BV_301 was executed before and the Def_DCK_1 has not been			
	deleted).			
Stimulus:	1. TS_1 performs MAC connection establishment with immediate encryption activation			
	using Def_DCK_1 and sends a {CC-SETUP} message.			
	2. Invoke acceptance of outgoing call at Phone A.			
Pass criteria:	1. Verify that IUT sends to TS_1 an encrypted CC-message (either {CC-SETUP-ACK},			
	{CC-ALERTING}, {CC-CALL-PROC}, or {CC-CONNECT})			
	Verify end-to-end U-plane connection between TS_1 and Phone A.			

TC_FT_GAP.N.35_BV_303	Usage of early encryption for MM procedure				
Reference:	EN 300 444 [12], Clause 8.45.3				
Initial condition:	F-00. Default cipher key Def_DCK_1 is available both in IUT and TS_1				
	(i.e. TC_FT_GAP.N.35_BV_301 was executed before and the Def_DCK_1 has not been				
	deleted).				
Stimulus:	Switch IUT off and on. TS_1 synchronizes to IUT. TS_1 performs MAC connection				
	establishment with immediate encryption activation using Def_DCK_1 and sends a				
	{LOCATE-REQUEST} message.				
Pass criteria:	Verify that encryption is activated with Def_DCK_1				
	Verify that IUT sends to TS_1 a {LOCATE-ACCEPT} message over the encrypted link.				

TC_FT_GAP.N.35_BV_401	Duration of registration window
Reference:	EN 300 444 [12], Clause 8.45.4
Initial condition:	F-00
Stimulus:	Put IUT in registration mode. Start timer T001 (120 seconds + 5 %)
Pass criteria:	Verify that IUT sets bit a44 in the FP Capabilities to 0 before expiry of timer T001.

TC_FT_GAP.N.35_BV_402	Closing of registration window after successful registration.			
Reference:	EN 300 444 [12], Clause 8.45.4			
Initial condition:				
Stimulus:	1. Put IUT in registration mode.			
	2. TS_1 performs subscription registration to IUT.			
Pass criteria:	1. Verify that IUT sets bit a44 in the FP Capabilities to 1.			
	2. Verify successful subscription registration.			
	Verify that IUT sets bit a44 in the FP Capabilities to 0.			

7.27 TC_FT_NG1.A.1 Easy PIN code registration tests cases

Test subgroup objectives: to check the IUT's behaviours regarding easy PIN-code registration taking into account the following considerations:

• As NG1.A.1_3 "Base station name selection" is tested when testing NG1.A.2_5 "Base station name selection", there is no test case defined for this procedure in following clause.

Declarations (see Annex A):

- NG1.A.1 "Easy PIN code registration" feature is optional on FP side, so the manufacturer shall declare if it is supported.
- NG1.A.1_3 "Base station name selection" is optional. So the manufacturer shall declare if it is supported.
- NG1.A.1_4 "Registration user feedback" is optional. So the manufacturer shall declare if it is supported.

TC_FT_NG1.A.1_BV_401	Registration user feedback			
Reference:	TS 102 527-3 [14], Clause 7.10.1.3.3			
Initial condition:	PIN code set to '1234', F-00			
Stimulus:	Start the access rights procedure on the IUT			
	Stop the access rights procedure on the IUT when possible or wait for the end of the procedure (3 minutes maximum)			
	3. Start the access rights procedure on the IUT			
	 Perform an Easy PIN code registration procedure using '1234' as PIN value from TS_1 			
Pass criteria:	Verify that the IUT gives a feedback to the user of the registration process: "Registration in progress state"			
	Verify that the IUT gives a feedback to the user that the registration process is closed (IUT has gone to idle mode)			
	Verify that the IUT gives a feedback to the user of the registration process: "Registration in progress state"			
	4. Verify that the IUT gives a feedback to the user of the registration process: "Registration success state"			

7.28 TC_FT_NG1.A.2 Easy pairing registration tests cases

Test subgroup objectives: to check the IUT's behaviours regarding easy pairing registration taking into account the following considerations:

• As NG1.A.2_6 "Registration user feedback" is tested when testing NG1.A.1_4 "Registration user feedback", there is no test case defined for this procedure.

Declarations (see Annex A):

• NG1.A.1_3 "Base station name selection" is optional. So the manufacturer shall declare if it is supported.

• NG1.A.1_6 "Registration user feedback" is optional. So the manufacturer shall declare if it is supported.

TC_FT_NG1.A.2_BV_301	Base station limited registration mode			
Reference:	TS 102 527-3 [14], Clause 7.10.1.2.2			
Initial condition:	PIN code set to '0000', F-00			
Stimulus:	Confirm that the IUT is not in registration mode			
	2. Start the access rights procedure on the IUT and start F <ap.01> timer control</ap.01>			
	3. Time out of F <ap.01> timer control</ap.01>			
	4. Start the access rights procedure on the IUT			
	5. Perform an Easy pairing code registration procedure from TS_1 and TS_2			
Pass criteria:	Verify that the IUT broadcasts the following capability:			
	 'Access Rights supported' capability bit set to 0 			
	Verify that the IUT broadcasts the following capability:			
	'Access Rights supported' capability bit set to 1			
	3. Verify that the IUT broadcasts the following capability:			
	'Access Rights supported' capability bit set to 0			
	4. Verify that the IUT broadcasts the following capability:			
	'Access Rights supported' capability bit set to 1			
	5. Verify that the registration procedure is successful on one RF front end (for example			
	TS_1) and not successful on the other RF front end (for example TS_2)			
	Verify that the IUT broadcasts the following capability after successful registration:			
	'Access Rights supported' capability bit set to 0			

TC_FT_NG1.A.2_BV_501	Base station name selection			
Reference:	TS 102 527-3 [14], Clause 7.10.1.3.2			
Initial condition:	F-00			
Stimulus:	None			
	2. Start the access rights procedure on the FP			
	3. Start timer T001 (F <ap.01>) and T002 (20 seconds)</ap.01>			
	4. Time out of T002 and Start timer T003 (2 seconds)			
	5. Time out of T003			
	6. Time out of T001			
Pass criteria:	Verify that the IUT broadcasts the following capability:			
	'Access Rights supported' capability bit set to 0			
	2. Verify that the IUT broadcasts the following capability:			
	'Access Rights supported' capability bit set to 1			
	3. None			
	4. None			
	 Verify that all segments of {CLMS-FIXED} message arrived and that the transmitted name is equal to FT_IXIT_14 			
	6. Verify that the IUT broadcasts the following capability:			
	'Access Rights supported' capability bit set to 0			
Comments:	The FP shall send its name continuously during the registration window, as a result			
	20 seconds after detecting the registration window, it is expected to receive the name in a time interval of 2 seconds			
	TS_1 shall not collect {CLMS} segments during T002 interval, but only during T003 interval			

7.29 TC_FT_NG1.A.3 Handset locator tests cases

Test subgroup objectives: to check the IUT's behaviours regarding handset locator.

Declarations (see Annex A):

• NG1.A.3 "Handset locator" feature is optional on FP side, so the manufacturer shall declare if it is supported.

TC_FT_NG1.A.3_BV_101	Handset locator		
Reference:	TS 102 527-3 [14], Clause 7.10.2		
Initial condition:	2 PPs registered (TS_1 is NG PP1, TS_2 is NG PP2), F-00		
Stimulus:	Trigger the handset locator procedure on IUT		
	2. Send a {CC-CONNECT} from TS_1		
Pass criteria:	 Verify that the IUT sends a {CC-SETUP} message to TS_1 and TS_2 with <call call="" class="Normal" setup=""> and with IE <<call-information>> specifying (call id a, CS call setup) = <(1, 0, value a), (2, 1, 1)> but without any line identifier Verify that the IUT sends to TS_1 and TS_2 an IE << CNIP >>, either in the {CC-SETUP} message or in a {CC-INFO} message, whose <presentation indicator=""> field is set to 'Handset locator'</presentation></call-information></call> Verify that the IUT sends a {CC-RELEASE} message to TS_1 and TS_2 		

Annex A (normative): Declarations on features and procedures supported

The information contained within the following tables is required for parameterization of the test cases referred to in the present document. They shall be taken into account to run an appropriate test suite against the IUT.

For each procedure noted in the following tables, the manufacturer shall declare if it is supported or not. When supported, the corresponding tests case(s) listed in "TC reference" column shall be tested.

Optional procedures are identified by a status "O".

Conditional procedures are identified by a status "C[.status number]". A procedure can be conditional to a feature support and/or a procedure support and/or a requirement support.

A.1 Declarations for portable part

A.1.1 Optional PT features

This clause contains the optional features which can be declared by the manufacturer on the PT side.

Table A.1: Optional PT features supported

Feature	Feature name	Reference to	Status	TC reference
no		TS 102 527-3 [14]		
NG1.N.9	3-party conference with established external	7.4.3.7	0	TC_PT_NG1.N.9_BV_101
	and/or internal calls			TC_PT_NG1.N.9_BV_102
NG1.N.10	Intrusion call	7.4.3.8	0	TC_PT_NG1.N.10_BV_101
				TC_PT_NG1.N.10_BV_102
				TC_PT_NG1.N.10_BV_201
				TC_PT_NG1.N.10_BV_202
				TC_PT_NG1.N.10_BV_301
NG1.N.11	Call deflection (internal or external)	7.4.4.2	0	TC_PT_NG1.N.11_BV_101
				TC_PT_NG1.N.11_BV_201
				TC_PT_NG1.N.11_BV_202
				TC_PT_NG1.N.11_BV_203
NG1.N.17	Calling line identity restriction	7.4.12	0	TC_PT_NG1.N.17_BV_301
NG1.N.21	Headset management	7.4.16	C10001	TC_PT_NG1.N.21_BV_101
				TC_PT_NG1.N.21_BV_102
				TC_PT_NG1.N.21_BV_201
				TC_PT_NG1.N.21_BV_301
				TC_PT_NG1.N.21_BV_401
				TC_PT_NG1.N.21_BV_501
				TC_PT_NG1.N.21_BV_601
				TC_PT_NG1.N.21_BV_701
			C10002	TC_PT_NG1.N.21_BV_705

C10001: IF the PT is a headset PP THEN "M" ELSE "I".

C10002: This test case applies to a handset and not to a headset. IF the PT is not a headset PP THEN "O" ELSE "I".

A.1.2 Extra information for PT testing

In addition to the optional features supported, the supplier shall declare additional information related to the PT implementation.

Table A.2: Implementation extra information for PT testing

Item	Implementation extra information	Reference to	Possible values to be
no		TS 102 527-3 [14]	declared
PT_IXIT_1	Several contact numbers in contact list	7.4.10.5.7	Not supported
		(see note)	Supported
PT_IXIT_2	CLIR code subfields	7.4.11.4.10	Non editable
			Editable
PT_IXIT_3	CFU code subfields	7.4.11.4.11	Non editable
			Editable
PT_IXIT_4	CFNA code subfields	7.4.11.4.12	Non editable
			Editable
PT_IXIT_5	CFB code subfields	7.4.11.4.13	Non editable
			Editable
PT_IXIT_6	Internal call codec priority	7.4.3.9.2	Not supported
			Supported
NOTE: This additional information also indicates that the PP is not able to display (and therefore to allow the			
user to edit) contacts other than the first one in any existing entry; furthermore, the user cannot create a			
contact with more than one (non-empty) contact number.			

A.1.3 Optional or conditional PT procedures

This clause contains the optional or conditional procedures which can be declared by the manufacturer on the PT side.

Table A.3: Date and Time synchronization procedure supported

	Procedure no	Procedure name	Reference to TS 102 527-3 [14]	Status	TC reference
ſ	NG1.N.5_1	PT initiated Date and Time synchronization	7.4.2.2	0	TC_PT_NG1.N.5_BV_102

Table A.4: Common parallel call procedures (external or internal) supported

Procedure	Procedure name	Reference to	Status	TC reference
no		TS 102 527-3 [14]		
	Active call release with replacement (from PP to FP) - call waiting	7.4.3.5.12	0	TC_PT_NG1.N.7_BV_701
	Active call release with replacement (from PP to FP) - call on-hold	7.4.3.5.12	0	TC_PT_NG1.N.7_BV_702
NG1.N.7_9	Putting a call on-hold	7.4.3.5.8	0	TC_PT_NG1.N.7_BV_901
NG1.N.7_10	Resuming a call put on-hold	7.4.3.5.9	0	TC_PT_NG1.N.7_BV_901

Table A.5: Intrusion call procedures supported

Procedure no	Procedure name	Reference to TS 102 527-3 [14]	Status	TC reference
	Implicit call intrusion into a line in "single call" mode	7.4.3.8.1	C11001	TC_PT_NG1.N.10_BV_101 TC_PT_NG1.N.10_BV_102
NG1.N.10_2	Explicit call intrusion (from PP to FP)	7.4.3.8.2		TC_PT_NG1.N.10_BV_201 TC_PT_NG1.N.10_BV_202

Table A.6: Void

Table A.7: List access service procedures supported

Procedure	Procedure name	Reference to	Status	TC reference
no		TS 102 527-3 [14]		
	List change notification	7.4.10.2	0	Not tested
	Query supported entry fields	7.4.10.4.2	0	Not tested
	List of supported lists	7.4.10.5.2	0	Not tested
NG1.N.16_18	Outgoing calls list	7.4.10.5.4	0	TC_PT_NG1.N.16_BV_1801
	 			TC_PT_NG1.N.16_BV_1802
				TC_PT_NG1.N.16_BV_1803
NG1.N.16_20	All calls list	7.4.10.5.6	0	TC_PT_NG1.N.16_BV_2001
	 			TC_PT_NG1.N.16_BV_2002
			0	TC_PT_NG1.N.16_BV_2003
NG1.N.16_21		7.4.10.5.7		TC_PT_NG1.N.16_BV_2110
NG1.N.16_23	All incoming calls list	7.4.10.5.11	0	TC_PT_NG1.N.16_BV_2301
				TC_PT_NG1.N.16_BV_2302
NO4 N 40, 00	Virtual contact list and call list per line	7.4.11.5	0	TC_PT_NG1.N.16_BV_2303 TC_PT_NG1.N.16_BV_2601
NG1.N.16_26	virtual contact list and call list per line	7.4.11.5		
	 			TC_PT_NG1.N.16_BV_2602 TC_PT_NG1.N.16_BV_2603
				TC_PT_NG1.N.16_BV_2604
	 			TC_FT_NG1.N.16_BV_2605
				TC_PT_NG1.N.16_BV_2606
NG1.N.16 30	FP IP address / type	7.4.11.3.4	0	TC_PT_NG1.N.16_BV_3001
	FP IP address / value	7.4.11.3.5	Ö	TC_PT_NG1.N.16_BV_3001
	FP IP address / subnet mask	7.4.11.3.6	0	TC_PT_NG1.N.16_BV_3001
	FP IP address / gateway	7.4.11.3.7	0	TC_PT_NG1.N.16_BV_3001
	FP IP address / DNS server	7.4.11.3.8	0	TC_PT_NG1.N.16_BV_3001
NG1.N.16_37	FP version / Hardware version	7.4.11.3.11	0	TC_PT_NG1.N.16_BV_3501
NG1.N.16_41	Dialling prefix	7.4.11.4.4	0	TC_PT_NG1.N.16_BV_4101
NG1.N.16_42		7.4.11.4.5	0	TC_PT_NG1.N.16_BV_4201
NG1.N.16_43		7.4.11.4.6	0	TC_PT_NG1.N.16_BV_4301
	Blocked number	7.4.11.4.7	0	TC_PT_NG1.N.16_BV_4401
NG1.N.16_46		7.4.11.4.9		TC_PT_NG1.N.16_BV_4601
NG1.N.16_47	Permanent CLIR	7.4.11.4.10		TC_PT_NG1.N.16_BV_4701
				TC_PT_NG1.N.16_BV_4702
	Call forwarding Unconditional	7.4.11.4.11		TC_PT_NG1.N.16_BV_4802
	Call forwarding on No Answer	7.4.11.4.12		TC_PT_NG1.N.16_BV_4902
	Call forwarding on Busy Subscriber	7.4.11.4.13		TC_PT_NG1.N.16_BV_5002
	Emission mode	7.4.11.3.12		TC_PT_NG1.N.16_BV_5101
	veral contact numbers in contact list is support		'N/A" (se	e Table A.2 PT_IXIT_1).
	G1.N.10 "Intrusion call" is supported THEN "M"			
	G1.N.17 "Calling line restriction" is supported T		ا عمد الما	oo aditad TUENI "M" ELCE "NI/A"
	G1.N.17 "Calling line restriction" is supported A Table A.2 PT_IXIT_2).	AND CLIK COde Subtle	us can t	pe eaitea THEN "W" ELSE "N/A"
	FU code subfields can be edited THEN "M" EL	SF "N/A" (see Table A	4 2 PT 13	XIT 3)
	FNA code subfields can be edited THEN "M" E			
	FB code subfields can be edited THEN "M" EL			
	G1.M.5 "no-emission mode" is supported THEN		_	•

Table A.8: Tones provision procedures supported

Procedure	Procedure name	Reference to	Status	TC reference
no		TS 102 527-3 [14]		
NG1.N.20_2	Tones provision by the system - Dial-tone	7.4.15.2	0	TC_PT_NG1.N.20_BV_206
NG1.N.20_2	Tones provision by the system - Off-hook warning tone	7.4.15.2	0	TC_PT_NG1.N.20_BV_207
	Tones provision by the system - Network congestion tone (external calls only)	7.4.15.2	0	TC_PT_NG1.N.20_BV_208

Table A.9: Headset management procedure supported

Procedure	Procedure name	Reference to	Status	TC reference	
no		TS 102 527-3 [14]			
NG1.N.21_4	Re-dial of last outgoing call	7.4.16.4	0	TC_PT_NG1.N.21_BV_401	
NG1.N.21_5	Re-dial of last incoming call	7.4.16.5	0	TC_PT_NG1.N.21_BV_501	
NG1.N.21_6	Headset incoming call - G.726 call - Switching from headset to handset (headset initiated)	7.4.16.6	0	TC_PT_NG1.N.21_BV_601	
NG1.N.21_7	Handset side - Headset call interception - G.722 call - Switching from headset to handset (handset initiated)		C12101	TC_PT_NG1.N.21_BV_705	
C12101: This					

Table A.10: Internal call codec priority procedure supported

Procedure	Procedure name	Reference to	Status	TC reference	
no		TS 102 527-3 [14]			
GAP.N.31_6	Internal call codec priority	7.4.3.9	C33101	TC_PT_GAP.N.31_BV_601	
				TC_PT_GAP.N.31_BV_602	
C33101: IF PP complies one of the exception cases to this procedure listed in Clause 7.4.3.9.2 THEN "N/A" ELSE "M" (see Table A.2 PT_IXIT_6).					

Table A.11: Enhanced security procedures supported

Procedure no	Procedure name	Reference to EN 300 444 [12]	Status	TC reference
GAP.N.35_2	Re-keying during a call	8.45.2	0	TC_PT_GAP.N.35_BV_201 TC_PT_GAP.N.35_BV_202 TC_PT_GAP.N.35_BV_203
GAP.N.35_3	Storing the Derived Cipher Key (DCK)	8.45.3	0	TC_PT_GAP.N.35_BV_301 TC_PT_GAP.N.35_BV_302 TC_PT_GAP.N.35_BV_303 TC_PT_GAP.N.35_BV_304 TC_PT_GAP.N.35_BV_305 TC_PT_GAP.N.35_BV_306

Table A.12: Easy PIN code registration procedure supported

Procedure no	Procedure name	Reference to TS 102 527-3 [14]	Status	TC reference
	Base station name selection	7.10.1.3.2		TC_PT_NG1.A.1_BV_301

Table A.13: Easy pairing registration procedure supported

Procedure no	Procedure name	Reference to TS 102 527-3 [14]	Status	TC reference
NG1.A.2 5	Base station name selection	7.10.1.3.2	0	TC PT NG1.A.1 BV 301

A.1.4 PT relevant test cases list

According to the support of NG1.N.21 "Headset management" feature, the following configurations are possible:

- PT is a normal PT (not a headset portable part).
- PT is a headset portable part (i.e. "Support of the Headset management feature" capability bit in <<TERMINAL-CAPABILITY>> is set).

A.1.4.1 PT is a normal PT (not a headset portable part)

No restrictions or modifications are required. All mandatory test cases and those related to supported declarations are applicable.

NOTE: NG1.N.21_7 "Switching from headset to handset (handset initiated)" procedure within NG1.N.21

"Headset management" feature may be applicable for a normal PT (see Table A.9).

A.1.4.2 PT is a headset portable part

Only the test cases subgroup NG1.N.21 "Headset management" feature is relevant (see Clause 6.21 TC_PT_NG1.N.21_xx). All mandatory test cases and those related to supported declarations within this subgroup are applicable.

A.2 Declarations for fixed part

A.2.1 Optional FT features

This clause contains the optional features which can be declared by the manufacturer on the FT side.

Table A.14: Optional FT features supported

Feature	Feature name	Reference to	Status	TC reference
NG1.N.9	2 north conformed with actablished external	TS 102 527-3 [14]	0	TO ET NOTNO DV 101
NG1.N.9	3-party conference with established external and/or internal calls	7.4.3.7		TC_FT_NG1.N.9_BV_101 TC_FT_NG1.N.9_BV_102
	and/or internal calls			TC_FT_NG1.N.9_BV_102 TC_FT_NG1.N.9_BV_103
				TC_FT_NG1.N.9_BV_103
NG1.N.10	Intrusion call	7.4.3.8	0	TC_FT_NG1.N.10_BV_101
1401.14.10	intrasion can	7.4.5.0		TC_FT_NG1.N.10_BV_101
				TC_FT_NG1.N.10_BV_103
				TC_FT_NG1.N.10_BV_104
				TC_FT_NG1.N.10_BV_105
				TC_FT_NG1.N.10_BV_106
				TC_FT_NG1.N.10_BV_201
				TC_FT_NG1.N.10_BV_202
				TC_FT_NG1.N.10_BV_203TC
				_FT_NG1.N.10_BV_204
NG1.N.11	Call deflection (internal or external)	7.4.4.2	0	TC_FT_NG1.N.11_BV_101
				TC_FT_NG1.N.11_BV_201
				TC_FT_NG1.N.11_BV_202
NG1.N.14	Multiple Lines	7.4.7	0	TC_FT_NG1.N.14_BV_301
				TC_FT_NG1.N.14_BV_302
				TC_FT_NG1.N.14_BV_303
				TC_FT_NG1.N.14_BV_304
				TC_FT_NG1.N.14_BV_305
				TC_FT_NG1.N.14_BV_306
NO4 N 45	Model II-	7.4.0	000004	TC_FT_NG1.N.14_BV_401
NG1.N.15	Multiple calls	7.4.8	C20001	TC_FT_NG1.N.15_BV_201
				TC_FT_NG1.N.15_BV_202
				TC_FT_NG1.N.15_BV_205 TC_FT_NG1.N.15_BV_206
				TC_FT_NG1.N.15_BV_207
				TC_FT_NG1.N.15_BV_301
NG1.N.17	Calling line identity restriction	7.4.12	0	TC_FT_NG1.N.17_BV_201
NG1.N.22	Handling of lines where second calls are	7.4.3.10	0	TC FT NG1.N.22 BV 101
1101.11.22	signalled in-band	7.4.3.10		TC_FT_NG1.N.22_BV_301
	Signalied III-band			TC_FT_NG1.N.22_BV_302
				TC_FT_NG1.N.22_BV_303
NG1.A.1	Easy PIN code registration	7.10.1.1	0	TC_FT_NG1.A.1_BV_401
1,01.,1	Lasy sodo rogionanom	7.10.1.1		TC_FT_NG1.A.2_BV_501
NG1.A.3	Handset locator	7.10.2	0	TC_FT_NG1.A.3_BV_101
	G1.N.22 "Handling of lines where second calls			

C20001: IF NG1.N.22 "Handling of lines where second calls are signalled in-band" is supported on line 0 and line 1 THEN "N/A" ELSE "M" (see Table A.16 FT_IXIT_21 and Table A.17 FT_IXIT_31).

A.2.2 Extra information for FT testing

In addition to the optional features supported, the supplier shall declare additional information related to the FT implementation and to the network line environment.

Table A.15: Implementation extra information for FT testing

Item no	Implementation extra information	Reference to TS 102 527-3 [14]	Possible values to be declared		
FT_IXIT_11	Simultaneous accesses to the same list from 2	7.4.10.1	Not supported		
	PPs		Supported		
FT_IXIT_12	Default attachment after registration to at least	7.4.11.2	Not supported		
	one line (see note)		Supported		
FT_IXIT_13	Associated melody field in contact list entry	7.4.10.5.7	Not supported		
			Supported		
FT_IXIT_14	Base station name	7.10.1.3.2	String (up to 17		
			characters)		
FT_IXIT_15	Support of three parallel call contexts (or more)		Not supported		
	on 1 PP-FP pair (busy system requirement).		Supported		
FT_IXIT_16	Support call forwarding busy triggered upon 2 nd		Not supported		
	incoming call (not upon 3 rd incoming call).		Supported		
NOTE: This declaration is only used for a multiple line FT connected to at least two lines at the time of registration. If the FT is connected to a single line (and whether it supports multiple lines or not), default attachment to that line is mandatory. See TS 102 527-3 [14], Clause 7.4.11.2.					

The "line 0" is the default line used when running the single line test cases. The following extra information related to the behaviour of this line shall be given by the manufacturer.

Table A.16: Line 0 extra information for FT testing

Item	Line extra information	Reference to	Possible values to be		
no		TS 102 527-3 [14]	declared		
FT_IXIT_20	Line 0 identifier value (lid0)	7.4.5	00H to 09H (note 1)		
FT_IXIT_21	Line 0 second call handling type	7.4.3.10	Common parallel calls		
			Double calls with in-band		
FT 1)/IT 00	1	7.40.4	signalling		
FT_IXIT_22	Line 0 CC-state machine behaviour	7.4.6.1	Non early {CC-CONNECT}		
			Early (CC-CONNECT)		
FT_IXIT_23	Line 0 UTF-8 CNIP	7.4.17	Non UTF-8 enabled line		
			UTF-8 enabled line		
FT_IXIT_24	Line 0 parallel call release command (note 2)	7.4.3.10.3.2	Not supported		
			Supported		
FT_IXIT_25	Line 0 call waiting rejection command (note 2)	7.4.3.10.3.2	Not supported		
			Supported		
FT_IXIT_26	Line 0 putting a call on-hold command (note 2)	7.4.3.10.3.2	Not supported		
			Supported		
FT_IXIT_27	Line 0 resuming a call put on-hold command	7.4.3.10.3.2	Not supported		
	(note 2)		O a and a d		
FT IVIT 00	line many of line O	7.4.40.5.4.0	Supported		
	Line name of Line 0	7.4.10.5.1.6	String		
	CFU activation code (note 3)	7.4.11.4.11	String (possibly empty)		
	CFU de-activation code (note 3)	7.4.11.4.11	String (possibly empty)		
	CFNA activation code (note 3)	7.4.11.4.12	String (possibly empty)		
	CFNA de-activation code (note 3)	7.4.11.4.12	String (possibly empty)		
	CFB activation code (note 3)	7.4.11.4.13	String (possibly empty)		
FT_IXIT_29.6	CFB de-activation code (note 3)	7.4.11.4.13	String (possibly empty)		
	Permanent CLIR activation code (note 3)	7.4.11.4.10	String (possibly empty)		
	Permanent CLIR de-activation code (note 3)	7.4.11.4.10	String (possibly empty)		
	identifier in the interval 0AH7EH are not allowed v				
ident	identification for a first external outgoing call using < <multi-keypad>> IE" procedure.</multi-keypad>				

NOTE 2: This extra information is only required when NG1.N.22 "Handling of lines where second calls are signalled in-band" is supported on this line, i.e. FT_IXIT_31 declared to 'Double calls with in-band signalling' value.

NOTE 3: An empty string indicates that no code is necessary to activate or deactivate the feature on network side for line 0; the corresponding code length shall be set to zero.

IF NG1.N.14 "Multiple lines" is supported, the "line 1" is the second line used when running the multiple lines test cases. The following extra information related to the behaviour of this line shall be given by the manufacturer.

Table A.17: Line 1 extra information for FT testing

Item	Line extra information	Reference to	Possible values to be
no		TS 102 527-3 [14]	declared
FT_IXIT_30	Line 1 identifier value (lid1)	7.4.5	00H to 09H (note 1)
FT_IXIT_31	Line 1 second call handling type (note 2)	7.4.3.10	Common parallel calls
			Double calls with in-band
			signalling
FT_IXIT_32	Line 1 CC-state machine behaviour	7.4.6.1	Non early {CC-CONNECT}
			Early (CC-CONNECT)
FT_IXIT_33	Line 1 UTF-8 CNIP	7.4.17	Non UTF-8 enabled line
			UTF-8 enabled line
FT_IXIT_34	Line 1 parallel call release command (note 3)	7.4.3.10.3.2	Not supported
			Supported
FT_IXIT_35	Line 1 call waiting rejection command (note 3)	7.4.3.10.3.2	Not supported
			Supported
FT_IXIT_36	Line 1 putting a call on-hold command (note 3)	7.4.3.10.3.2	Not supported
			Supported
FT_IXIT_37	Line 1 resuming a call put on-hold command	7.4.3.10.3.2	Not supported
	(note 3)		
			Supported
FT_IXIT_38	Line name of Line 1	7.4.10.5.1.6	String
NOTE 1: Line	identifier in the interval 0AH7EH are not allowed v	within NG1.N.12_4 "B	sackward-compatible line

- NOTE 1: Line identifier in the interval 0AH..7EH are not allowed within NG1.N.12_4 "Backward-compatible line identification for a first external outgoing call using <<MULTI-KEYPAD>> IE" procedure.
- NOTE 2: IF NG1.N.22 "Handling of lines where second calls are signalled in-band" is supported THEN at least one line shall be 'Double calls with in-band signalling' second call handling type.
- NOTE 3: This extra information is only required when NG1.N.22 "Handling of lines where second calls are signalled in-band" is supported on this line, i.e. FT_IXIT_31 declared to 'Double calls with in-band signalling' value.

A.2.3 Optional or conditional FT procedures

This clause contains the optional or conditional procedures which can be declared by the manufacturer on the FT side.

Table A.17a: Parallel call procedures supported

Procedure	Procedure name	Reference to	Status	TC reference
no		TS 102 527-3 [14]		
NG1.N.6_6	Busy system or line notification	7.4.8.3 [14]	C20601	TC_FT_NG1.N.6_BV_601
C20601: IF FP supports three parallel call contexts (or more) on one PP-FP pair THEN "I" else "M" (see FT_IXIT_15 in				
Table	e A.15).	•		

Table A.18: Common parallel call procedures supported

Procedi	ure	Procedure name	Reference to	Status	TC reference
no			TS 102 527-3 [14]		
NG1.N.7	7_4	Call release and call release rejection	7.4.3.5.4	C20701	TC_FT_NG1.N.7_BV_401
NG1.N.7	7_8	Call waiting rejection (from PP to FP)	7.4.3.5.7	C20702	TC_FT_NG1.N.7_BV_801
NG1.N.7	7_9	Putting a call on-hold	7.4.3.5.8	C20703	TC_FT_NG1.N.7_BV_901
	C20701: IF NG1.N.22 "Handling of lines where second calls are signalled in-band" is supported on line 0 AND the call release command is not supported by the line 0 THEN N/A ELSE m (see Table A.16 FT_IXIT_21 and FT_IXIT_24).				
C20702: IF NG1.N.22 "Handling of lines where second calls are signalled in-band" is supported on line 0 AND the call waiting rejection command is not supported by the line 0 THEN N/A ELSE m (see Table A.16 FT_IXIT_21 and FT_IXIT_25).					
	,				

Table A.19: 3-party conference procedures supported

Procedure	Procedure name	Reference to	Status	TC reference
no		TS 102 527-3 [14]		
NG1.N.9_1	3-party conference with two established	7.4.3.7	0	TC_FT_NG1.N.9_BV_103
	external calls			
NG1.N.9_1	3-party conference with two established	7.4.3.7	C20901	TC_FT_NG1.N.9_BV_104
external calls on two different lines				
C20901: IF NG1.N.14 "Multiple lines" is supported THEN "O" ELSE "I".				

Table A.20: Call deflection procedures supported

Procedure	Procedure name	Reference to	Status	TC reference
no		TS 102 527-3 [14]		
NG1.N.11_1	Call deflection (internal)	7.4.4.2	C21101	TC_FT_NG1.N.11_BV_101
C21101: IF NG1.N.14 "Multiple lines" is supported THEN "O" ELSE "I".				

Table A.21: Line identification procedures supported

Procedure no	Procedure name	Reference to TS 102 527-3 [14]	Status	TC reference	
NG1.N.12_3	Line identification for a first external outgoing	7.4.5.2.2	C21201	TC_FT_NG1.N.12_BV_301	
	call using < <call-information>> IE</call-information>		C21201	TC_FT_NG1.N.12_BV_302	
NG1.N.12_4	Backward-compatible line identification for a	7.4.5.2.3	0	TC_FT_NG1.N.12_GC_401	
	first external outgoing call using		note		
	< <multi-keypad>> IE</multi-keypad>		0	TC_FT_NG1.N.12_GC_402	
			note		
NG1.N.12_	FP managed line selection for a first external	7.4.5.2.4	C21203	TC_FT_NG1.N.12_BV_501	
	outgoing call		C21203	TC_FT_NG1.N.12_BV_502	
	sts cases are exclusive: IF FP implements 'non ea				
	_FT_NG1.N.12_BV_301				
	C21203: Tests cases are exclusive: IF FP implements 'non early CC-CONNECT' on line 0 THEN run				
TC_FT_NG1.N.12_BV_501 ELSE run TC_FT_NG1.N.12_BV_502 (see Table A.16 FT_IXIT_22).					
'non early CC-CONNECT' on line 0 THEN run TC_FT_NG1.N.12_GC_401 ELSE run					
TC	_FT_NG1.N.12_GC_402	T_22).			

Table A.22: Call identification procedures supported

Procedure no	Procedure name	Reference to TS 102 527-3 [14]	Status	TC reference	
NG1.N.13_2	Call identifier assignment on outgoing call (FP	7.4.6.2	C21301	TC_FT_NG1.N.13_BV_201	
	to PP)		C21301	TC_FT_NG1.N.13_BV_202	
C21301: Tests cases are exclusive: IF FP implements 'non early CC-CONNECT' on line 0 THEN run					
TC_F	TC_FT_NG1.N.13_BV_201 ELSE run TC_FT_NG1.N.13_BV_202 (see Table A.16 FT_IXIT_22).				

Table A.23: Multiple lines procedures supported

Proced	ure	Procedure name	Reference to	Status	TC reference	
no			TS 102 527-3 [14]			
NG1.N.1	_	Incoming and outgoing external calls on a multiple line system	7.4.7.3	C21401	TC_FT_NG1.N.14_BV_303	
NG1.N.1		Incoming and outgoing external calls on a multiple line system	7.4.7.3	C21402	TC_FT_NG1.N.14_BV_305	
NG1.N.1		Incoming and outgoing external calls on a multiple line system	7.4.7.3	C21403	TC_FT_NG1.N.14_BV_306	
C21401:	C21401: IF (NG1.N.22 "Handling of lines where second calls are signalled in-band" is supported on line 1 AND the call release command is not supported by the line 1) OR (NG1.N.22 "Handling of lines where second calls are signalled in-band" is supported on line 0 AND the resuming a call put on-hold command is not supported by the line 0) THEN N/A ELSE m (see Table A.17 FT_IXIT_31 and FT_IXIT_34 or Table A.16 FT_IXIT_21 and FT_IXIT_27).					
C21402:	C21402: TC_FT_NG1.N.15_BV_305 and TC_FT_NG1.N.15_BV_306 are exclusive: IF FP implements 'non early CC-CONNECT' on line 0 and line 1 THEN m ELSE N/A (see Table A.16 FT_IXIT_22 and Table A.17 FT_IXIT_32).					
C21403:	21403: TC_FT_NG1.N.15_BV_305 and TC_FT_NG1.N.15_BV_306 are exclusive: IF FP implements 'early CC-CONNECT' on line 0 and line 1 THEN m ELSE N/A (see Table A.16 FT_IXIT_22 and Table A.17 FT_IXIT_32).					

Table A.24: Multiple calls procedures supported

Procedure no	Procedure name	Reference to TS 102 527-3 [14]	Status	TC reference
	Incoming and outgoing external calls on a	l .		TC_FT_NG1.N.15_BV_205
	multiple call line		C21501	TC_FT_NG1.N.15_BV_206
C21501: Tests cases are exclusive: IF FP implements 'non early CC-CONNECT' on line 0 THEN run TC_FT_NG1.N.15_BV_205 ELSE run TC_FT_NG1.N.15_BV_206 (see Table A.16 FT_IXIT_22).				

Table A.25: List access service procedures supported

Procedure	Procedure name	Reference to	Status	TC reference	
no		TS 102 527-3 [14]			
NG1.N.16_1	General considerations	7.4.10.1	C21601	TC_FT_NG1.N.16_BV_303	
			C21601	TC_FT_NG1.N.16_BV_304	
NG1.N.16_18	Outgoing calls list	7.4.10.5.4	0	TC_FT_NG1.N.16_BV_1801	
				TC_FT_NG1.N.16_BV_1802	
				TC_FT_NG1.N.16_BV_1803	
NG1.N.16_20	All calls list	7.4.10.5.6	0	TC_FT_NG1.N.16_BV_2001	
				TC_FT_NG1.N.16_BV_2002	
				TC_FT_NG1.N.16_BV_2003	
NG1.N.16_21		7.4.10.5.7		TC_FT_NG1.N.16_BV_2109	
NG1.N.16_23	All incoming calls list	7.4.10.5.11	_	TC_FT_NG1.N.16_BV_2301	
				TC_FT_NG1.N.16_BV_2302	
				TC_FT_NG1.N.16_BV_2303	
	Virtual contact list and call list per line	7.4.11.5		See TC_FT_NG1.N.14_*	
	FP IP address / type	7.4.11.3.4		TC_FT_NG1.N.16_BV_3001	
	FP IP address / value	7.4.11.3.5	0	TC_FT_NG1.N.16_BV_3001	
	FP IP address / subnet mask	7.4.11.3.6	0	TC_FT_NG1.N.16_BV_3001	
	FP IP address / gateway	7.4.11.3.7	0	TC_FT_NG1.N.16_BV_3001	
NG1.N.16_34	FP IP address / DNS server	7.4.11.3.8	0	TC_FT_NG1.N.16_BV_3001	
	FP version / Hardware version	7.4.11.3.11	M	TC_FT_NG1.N.16_BV_3501	
NG1.N.16_41	Dialling prefix	7.4.11.4.4	0	TC_FT_NG1.N.16_BV_4101	
NG1.N.16_42	FP melody	7.4.11.4.5	0	TC_FT_NG1.N.16_BV_4201	
NG1.N.16_43	FP volume	7.4.11.4.6	0	TC_FT_NG1.N.16_BV_4301	
NG1.N.16_44	Blocked number	7.4.11.4.7	0	TC_FT_NG1.N.16_BV_4401	
NG1.N.16_46	Intrusion call	7.4.11.4.9	C21606	TC_FT_NG1.N.16_BV_4601	
	Permanent CLIR	7.4.11.4.10	C21604	TC_FT_NG1.N.16_BV_4701	
NG1.N.16_51	Emission mode	7.4.11.3.12	C21605	TC_FT_NG1.N.16_BV_5101	
C21601: Tests	C21601: Tests cases are exclusive: IF FP supports simultaneous accesses to the same list from 2 PPs THEN run				
TC_F	FT_NG1.N.16_BV_304 ELSE run TC_FT_NG1	.N.16_BV_303 (see 7	Γable Α.1	5 FT_IXIT_11).	
C21602: IF NO	G1.N.16_18 "Outgoing calls list" is supported T	HEN "M" ELSE "I".			

C21603: IF NG1.N.14 "Multiple lines" is supported THEN "O" ELSE "I".

C21604: IF NG1.N.17 "Calling line identity restriction" is supported THEN "M" ELSE "I". C21605: IF NG1.M.5 "no-emission mode" is supported THEN "M" ELSE "I".

C21606: IF NG1.N.10 "Call intrusion" is supported THEN "M" ELSE "I".

Table A.25a: Call forwarding (external calls) procedures supported

Procedure	Procedure name	Reference to	Status	TC reference
no		TS 102 527-3 [14]		
	External Call Forwarding on Busy subscriber (CFB) to external number	7.4.13.4 [14]	C21801	TC_FT_NG1.N.18_BV_401
C21801: IF FP triggers the Call Forwarding Busy when second incoming call occur THEN "M" else "I" (see FT_IXIT_16 in Table A.15).				

For each mandatory and optional tone, the FP shall declare if procedure NG1.N.20_2 "Tones provision by the system" or NG1.N.20_3 "Transparency to tones provision by the network or PABX" is used to provide this tone. Only the TC(s) corresponding to the supported procedure shall be tested.

Table A.26: Tones provision procedures supported for each tone

Procedure	Procedure name	Reference to	Status	TC reference
no		TS 102 527-3 [14]		
NG1.N.20_2	Tones provision by the system	7.4.15.2	C22001	TC_FT_NG1.N.20_BV_201
				TC_FT_NG1.N.20_BV_210
NG1.N.20_3	Transparency to tones provision	7.4.15.3	C22001	TC_FT_NG1.N.20_BV_301
	by the network or PABX			TC_FT_NG1.N.20_BV_304
NG1.N.20_2	Tones provision by the system	7.4.15.2	C22002	TC_FT_NG1.N.20_BV_202
NG1.N.20_3	Transparency to tones provision	7.4.15.3	C22002	TC_FT_NG1.N.20_BV_302
	by the network or PABX			
NG1.N.20_2	Tones provision by the system	7.4.15.2	C22003	TC_FT_NG1.N.20_BV_203
NG1.N.20_3	Transparency to tones provision	7.4.15.3	C22003	TC_FT_NG1.N.20_BV_303
	by the network or PABX			
NG1.N.20_2	Tones provision by the system	7.4.15.2	C22006	TC_FT_NG1.N.20_BV_206
NG1.N.20_3	Transparency to tones provision	7.4.15.3		TC_FT_NG1.N.20_BV_301
	by the network or PABX			TC_FT_NG1.N.20_BV_304
NG1.N.20_2	Tones provision by the system	7.4.15.2	C22007	TC_FT_NG1.N.20_BV_207
NG1.N.20_3	Transparency to tones provision	7.4.15.3	C22007	TC_FT_NG1.N.20_BV_301
	by the network or PABX			
NG1.N.20_2	Tones provision by the system	7.4.15.2	C22008	Not tested
NG1.N.20_3	Transparency to tones provision	7.4.15.3	C22008	TC_FT_NG1.N.20_BV_301
	by the network or PABX			
	NG1.N.20_2 NG1.N.20_3 NG1.N.20_3 NG1.N.20_3 NG1.N.20_3 NG1.N.20_3 NG1.N.20_2 NG1.N.20_3 NG1.N.20_3 NG1.N.20_3 NG1.N.20_3 NG1.N.20_3		noTS 102 527-3 [14]NG1.N.20_2Tones provision by the system7.4.15.2NG1.N.20_3Transparency to tones provision by the network or PABX7.4.15.3NG1.N.20_2Tones provision by the system7.4.15.2NG1.N.20_3Transparency to tones provision by the network or PABX7.4.15.2NG1.N.20_2Tones provision by the system7.4.15.2NG1.N.20_3Transparency to tones provision by the network or PABX7.4.15.2NG1.N.20_2Tones provision by the system7.4.15.2NG1.N.20_3Transparency to tones provision by the network or PABX7.4.15.3NG1.N.20_2Tones provision by the system7.4.15.2NG1.N.20_3Transparency to tones provision by the network or PABX7.4.15.3NG1.N.20_3Transparency to tones provision by the network or PABX7.4.15.3NG1.N.20_3Tones provision by the system7.4.15.2NG1.N.20_3Tones provision by the system7.4.15.2NG1.N.20_3Transparency to tones provision7.4.15.2NG1.N.20_3Transparency to tones provision7.4.15.3	no TS 102 527-3 [14] NG1.N.20_2 Tones provision by the system 7.4.15.2 C22001 NG1.N.20_3 Transparency to tones provision by the network or PABX 7.4.15.3 C22001 NG1.N.20_2 Tones provision by the system 7.4.15.2 C22002 NG1.N.20_3 Transparency to tones provision by the network or PABX 7.4.15.3 C22002 NG1.N.20_2 Tones provision by the system 7.4.15.2 C22003 NG1.N.20_3 Transparency to tones provision by the system 7.4.15.3 C22006 NG1.N.20_2 Tones provision by the system 7.4.15.3 C22006 NG1.N.20_3 Transparency to tones provision by the system 7.4.15.3 C22007 NG1.N.20_2 Tones provision by the system 7.4.15.3 C22007 NG1.N.20_3 Transparency to tones provision by the system 7.4.15.3 C22007 NG1.N.20_3 Transparency to tones provision by the system 7.4.15.3 C22008 NG1.N.20_3 Tones provision by the system 7.4.15.3 C22008

- C22001, C22002, C22003: Tone is mandatory. The manufacturer shall declare which procedure is supported to provide this tone on external call (NG1.N.20_2 or NG1.N.20_3) and run only the corresponding test cases.
- C22006: Tone is optional. If declared, the manufacturer shall declare which procedure is supported to provide this tone on external call (NG1.N.20_2 or NG1.N.20_3) and run only the corresponding test cases.
- C22007: Tone is optional. If declared, the manufacturer shall declare which procedure is supported to provide this tone on external call (NG1.N.20_2 or NG1.N.20_3) and run only the corresponding test cases.
- Tone is optional. If declared, the manufacturer shall declare which procedure is supported to provide this tone on C22008: external call (NG1.N.20_2 or NG1.N.20_3) and run only the corresponding test cases.
- For example Ring back tone is mandatory, depending on declaration:
 - If supplier declares that FP uses procedure NG1.N.20_2 "Tones provision by the system" on external call, supplier shall perform tests cases TC_FT_NG1.N.20_BV_201 and TC_FT_NG1.N.20_BV_210.
- If supplier declares that FP uses procedure NG1.N.20_3 "Transparency to tones provision by the network or PABX", supplier shall perform tests case TC_FT_NG1.N.20_BV_301 and TC_FT_NG1.N.20_BV_304. NOTE 2: For tones provisioned by the system, only a <<SIGNAL>> IE can be used towards Part 3 PPs.
- NOTE 3: For tones provisioned by the system and requiring a 'Tones off' (all tones above except 'call waiting tone'), the declaration also applies to the 'Tones off' <<SIGNAL>>.

Table A.27: Handling of lines where second calls are signalled in-band procedures supported

Procedure	Procedure name	Reference to	Status	TC reference	
no		TS 102 527-3 [14]			
NG1.N.22_3	Off-hook CLIP enabled 'double call with	7.4.3.10.3.2	C22301	TC_FT_NG1.N.22_BV_301	
	in-band signalling' lines - call release (of the				
	indicated call)				
NG1.N.22_3	Off-hook CLIP enabled 'double call with	7.4.3.10.3.2	C22302	TC_FT_NG1.N.22_BV_302	
	in-band signalling' lines - call waiting rejection				
NG1.N.22_3	Off-hook CLIP enabled 'double call with	7.4.3.10.3.2	C22303	TC_FT_NG1.N.22_BV_303	
	in-band signalling' lines - Putting a call on-hold				
	e call release command is not supported by the		N/A (see	Table A.16 FT_IXIT_24 or	
	e A.17 FT_IXIT_34 according to the tested line).				
	C22302: IF the call waiting rejection command is not supported by the line THEN "M" ELSE "N/A" (see Table A.16				
FT_IXIT_25 or Table A.17 FT_IXIT_35 according to the tested line).					
C22303: IF the putting a call on-hold command is not supported by the line THEN "M" ELSE "N/A" (see Table A.16					
FT_I	XIT_26 or Table A.17 FT_IXIT_36 according to t	the tested line).			

Table A.28: CNIP procedure supported

Procedure no	Procedure name	Reference to TS 102 527-3 [14]	Status	TC reference		
GAP.N.34_2	UTF-8 CNIP	7.4.17.1	C43401	TC_FT_GAP.N.34_BV_201		
				TC_FT_GAP.N.34_GC_201		
C43401: IF FF	C43401: IF FP is connected to an UTF-8 CNIP enabled line THEN "M" ELSE "N/A" (see Table A.16 FT_IXIT_23).					

Table A.29: Enhanced security procedures supported

Procedure no	Procedure name	Reference to EN 300 444 [12]	Status	TC reference
GAP.N.35_2	Re-keying during a call	8.45.2		TC_FT_GAP.N.35_BV_201 TC_FT_GAP.N.35_BV_202 TC_FT_GAP.N.35_BV_203 TC_FT_GAP.N.35_BV_204 TC_FT_GAP.N.35_BV_205 TC_FT_GAP.N.35_BV_206
GAP.N.35_3	Storing the Derived Cipher Key (DCK)	8.45.3	0	TC_FT_GAP.N.35_BV_301 TC_FT_GAP.N.35_BV_302 TC_FT_GAP.N.35_BV_303

Table A.30: Easy PIN code registration procedures supported

	Procedure no	Procedure name	Reference to TS 102 527-3 [14]	Status	TC reference
Ī	NG1.A.1_3	Base station name selection	7.10.1.3.2	0	TC_FT_NG1.A.2_BV_501
ĺ	NG1.A.1_4	Registration user feedback	7.10.1.3.3	0	TC_FT_NG1.A.1_BV_401

Table A.31: Easy pairing registration procedures supported

Procedure no	Procedure name	Reference to TS 102 527-3 [14]	Status	TC reference
NG1.A.2_5	Base station name selection	7.10.1.3.2	0	TC_FT_NG1.A.2_BV_501
NG1.A.2_6	Registration user feedback	7.10.1.3.3	0	TC_FT_NG1.A.1_BV_401

A.2.4 FT relevant test cases list

According to the support of NG1.N.22 "Handling of lines where second calls are signalled in-band" feature, the following configurations are possible:

- FT handles only 'Common parallel call procedures' lines.
- FT handles only 'double call with in-band signalling' lines.
- FT handles 'common parallel call procedures' lines and 'double call with in-band signalling' lines.

A.2.4.1 FT handling only 'Common parallel call procedures' lines

No restrictions or modifications are required. All mandatory test cases and those related to supported declarations are applicable.

A.2.4.2 FT handling only 'double call with in-band signalling' lines

By definition 'double call with in-band signalling' lines are 'single call mode' lines. Hence, NG1.N.15 "Multiple calls" test cases shall not be run. As a result, all mandatory test cases except the test cases subgroup N.15, and those related to supported declarations are applicable.

A.2.4.3 FT handling 'Common parallel call procedures' lines and 'double call with in-band signalling' lines

All mandatory test cases and those related to supported declarations, except the test cases subgroup N.22, are applicable on the 'common parallel call procedures' line.

In addition, the test cases subgroup N.22 "Handling of lines where second calls are signalled in-band" will be run on the 'double call with in-band signalling' line (see Clause 7.22 TC_FT_NG1.N.22_xx).

NOTE: An example of this of kind of system is a dual phone implementing a full VoIP line and a PSTN line without any tones detection.

Annex B (informative): List of NG-DECT Part 3 procedures

The following table gives the list of NG-DECT Part 3 procedures. The reference documents are TS 102 527-3 [14], TS 102 527-1 [13] or EN 300 444 [12]. The status of each feature and procedure are given in TS 102 527-3 [14].

The procedure number 'feature number_x' was created for the need of the present document. This procedure number is used in the TC naming convention. For example, the PT test cases related to the NG1.N.2_1 "Codec change" procedure are called TC_PT_NG1.N.2_BV_1xx.

Table B.1: List of NG-DECT Part 3 procedures

1.1 New Genera	ation DECT Speech Services support status	Reference
NG1.1	Narrow band ADPCM G.726 32 kbit/s voice service	5.1 [13]
NG1.2	Narrow band PCM G.711 64 kbit/s voice service	5.1 [13]
NG1.3	Wideband G.722 64 kbit/s voice service	5.1 [13]
NG1.4	Wideband G.729.1 32 kbit/s voice service	5.1 [13]
NG1.5	MPEG-4 ER AAC-LD super wideband 64 kbit/s voice service	5.1 [13]
NG1.6	MPEG-4 ER AAC-LD wideband 32 kbit/s voice service	5.1 [13]
	es support status	
NG1.N.1	Codec Negotiation	5.2 [13]
NG1.N.1_1	Exchange of codec list during registration and location registration	7.3.1 [13]
NG1.N.1_2	Basic service wideband speech and default attributes	7.3.2 [13]
NG1.N.1_3	Codec Negotiation during call establishment	7.3.3 [13]
NG1.N.2	Codec Switching	5.2 [13]
NG1.N.2_1	Codec Change	7.3.4 [13]
NG1.N.2_2	Slot type modification	7.3.5 [13]
NG1.N.2_3	MAC layer advanced connection slot type modification	7.6.7 [13]
NG1.N.2_4	MAC layer connection type modification: basic to/from advanced	7.6.6 [13]
NG1.N.3	Missed call notification	5.2 [14]
NG1.N.3_1	Generic events notification, general	7.4.1.1 [14]
NG1.N.3_2	Missed call notification	7.4.1.3 [14]
NG1.N.4	Voice message waiting notification	5.2 [14]
NG1.N.4_1	Generic events notification, general	7.4.1.1 [14]
NG1.N.4_2	Voice message waiting notification	7.4.1.2 [14]
NG1.N.5	Date and Time synchronization	5.2 [14]
NG1.N.5_1	Date and Time synchronization	7.4.2 [14]
NG1.N.6	Parallel calls	5.2 [14]
NG1.N.6_1	Parallel call common requirements	7.4.3.1 [14]
NG1.N.6_2	Control messages	7.4.3.2 [14]
NG1.N.6_3	Sending Keypad information	8.10 [12]
NG1.N.6_4	Codec change for parallel calls	7.4.3.3 [14]
NG1.N.6_5	Sending negative acknowledgement	7.4.3.4 [14]
NG1.N.6_6	Busy system or line notification	7.4.8.3 [14]
NG1.N.7	Common parallel call procedures (external or internal)	5.2 [14]
NG1.N.7_1	Outgoing parallel call initiation (external or internal)	7.4.3.5.1 [14]
NG1.N.7_2	Call waiting indication (external or internal)	7.4.3.5.2 [14]
NG1.N.7_3	Call toggle (external or internal)	7.4.3.5.3 [14]
NG1.N.7_4	Call release and call release rejection	7.4.3.5.4 [14]
NG1.N.7_5	Void	
NG1.N.7_6	Call waiting acceptance (from PP to FP)	7.4.3.5.6 [14]
NG1.N.7_7	Active call release with replacement (from PP to FP)	7.4.3.5.12 [14]
NG1.N.7_8	Call waiting rejection (from PP to FP)	7.4.3.5.7 [14]
NG1.N.7_9	Putting a call on-hold	7.4.3.5.8 [14]
NG1.N.7_10	Resuming a call put on-hold	7.4.3.5.9 [14]
NG1.N.7_11	CLIP on call waiting indication	7.4.3.5.10 [14]
NG1.N.7_12	CNIP on call waiting indication	7.4.3.5.11 [14]

NG1.N.8	Call transfer (external or internal)	5.2 [14]
NG1.N.8_1	Announced call transfer	7.4.3.6.1 [14]
NG1.N.8_2	Unannounced call transfer	7.4.3.6.2 [14]
NG1.N.8_3	Call re-injection to the system (external or internal)	7.4.3.6.3 [14]
NG1.N.8_4	Remote party CLIP on call transfer	7.4.3.6.4 [14]
NG1.N.8_5	Remote party CNIP on call transfer	7.4.3.6.5 [14]
NG1.N.9	3-party conference with established external and/or internal calls	5.2 [14]
NG1.N.9_1	3-party Conference with established internal and external calls	7.4.3.7 [14]
NG1.N.10	Intrusion call	5.2 [14]
NG1.N.10_1	Implicit call intrusion into a line in "single call" mode	7.4.3.8.1 [14]
NG1.N.10_2	Explicit call intrusion (from PP to FP)	7.4.3.8.2 [14]
NG1.N.11	Call deflection (external or internal)	5.2 [14]
NG1.N.11_1	Call deflection (internal)	7.4.4.2 [14]
NG1.N.11_2	Call deflection (external)	7.4.4.2 [14]
NG1.N.11_3	Call deflection control messages	7.4.4.1.1 [14]
NG1.N.12	Line identification	5.2 [14]
NG1.N.12_1	Line identification general requirements	7.4.5.1 [14]
NG1.N.12_2	General line identification requirements for external outgoing calls	7.4.5.2.1 [14]
NG1.N.12_3	Line identification for a first external outgoing call using < <call-info>> IE</call-info>	7.4.5.2.2 [14]
NG1.N.12_4	Line identification for a first external outgoing call using < <multi-keypad>></multi-keypad>	7.4.5.2.3 [14]
_	le	
NG1.N.12_5	FP managed line selection for a <u>first</u> external outgoing call	7.4.5.2.4 [14]
NG1.N.12_6	General line identification requirements for external incoming calls	7.4.5.3.1 [14]
NG1.N.12_7	Line identification for a first external incoming call	7.4.5.3.2 [14]
NG1.N.13	Call identification	5.2 [14]
NG1.N.13_1	Call identifier general requirements	7.4.6.1 [14]
NG1.N.13_2	Call identifier assignment on outgoing call (FP to PP)	7.4.6.2 [14]
NG1.N.13_3	Call identifier assignment on incoming call (FP to PP)	7.4.6.3 [14]
NG1.N.13_4	Call status indication to the handset (FP to PP)	7.4.6.4 [14]
NG1.N.14	Multiple Lines	5.2 [14]
NG1.N.14_1	Multiple lines common requirements	7.4.7.1 [14]
NG1.N.14_2	Terminal attachment and line settings	7.4.7.2 [14]
NG1.N.14_3	Incoming and outgoing external calls on a multiple line system	7.4.7.3 [14]
NG1.N.14_4	Internal calls in multiple line context	7.4.7.4 [14]
NG1.N.14_5	Compatibility with non multiple line PP or FP	7.4.7.5 [14]
NG1.N.15	Multiple calls	5.2 [14]
NG1.N.15_1	Multiple calls general requirements	7.4.8.1 [14]
NG1.N.15_2	Incoming and outgoing external calls on a multiple call line	7.4.8.2 [14]
NG1.N.15_3	Busy system or line notification	7.4.8.3 [14]
NG1.N.16	List access service	5.2 [14]
NG1.N.16_1	General considerations	7.4.10.1 [14]
NG1.N.16_2	List change notification	7.4.10.2 [14]
NG1.N.16_3	Start / end session	7.4.10.4.1 [14]
NG1.N.16_4	Query supported entry fields	7.4.10.4.2 [14]
NG1.N.16_5	Read entries	7.4.10.4.3 [14]
NG1.N.16_6	Edit entry	7.4.10.4.4 [14]
NG1.N.16_7	Save entry	7.4.10.4.5 [14]
NG1.N.16_8	Delete entry	7.4.10.4.6 [14]
NG1.N.16_9	Delete list	7.4.10.4.7 [14]
NG1.N.16_10	Search entries	7.4.10.4.8 [14]
NG1.N.16_11	Negative acknowledgement	7.4.10.4.9 [14]
NG1.N.16_12	Data packet / Last data packet	7.4.10.4.10 [14]
NG1.N.16_13	DECT system and line settings considerations	7.4.11.1 [14]
NG1.N.16_14	Interactions between registration, attachment of handsets and lists	7.4.11.2 [14]
NG1.N.16_15	Fields description	7.4.10.5.1 [14]

	[Cumarted lister]	1 1
NG1.N.16_16	[Supported lists:] List of supported lists	7 4 10 5 2 [14]
NG1.N.16_16 NG1.N.16_17	Missed calls list	7.4.10.5.2 [14] 7.4.10.5.3 [14]
NG1.N.16_17	Outgoing calls list	7.4.10.5.3 [14]
NG1.N.16_16	Incoming accepted calls list	7.4.10.5.4 [14]
NG1.N.16_19	All calls list	7.4.10.5.6 [14]
NG1.N.16_20	Contact list	7.4.10.5.7 [14]
NG1.N.16_21	Internal names list	7.4.10.5.7 [14]
NG1.N.16_22	All incoming calls list	7.4.10.5.11 [14]
NG1.N.16_23	DECT system settings list	7.4.10.3.11 [14]
NG1.N.16_25	Line settings list	7.4.11.4 [14]
NG1.N.16_26	Virtual contact list and call list per line	7.4.11.5 [14]
1101.11.10_20	[Supported DECT system settings]	7.4.11.5 [14]
NG1.N.16_27	Current PIN code	7.4.11.3.1 [14]
NG1.N.16_28	Clock master	7.4.11.3.2 [14]
NG1.N.16_29	Base reset	7.4.11.3.3 [14]
NG1.N.16_30	FP IP address / type	7.4.11.3.4 [14]
NG1.N.16 31	FP IP address / value	7.4.11.3.5 [14]
NG1.N.16_32	FP IP address / subnet mask	7.4.11.3.6 [14]
NG1.N.16_33	FP IP address / gateway	7.4.11.3.7 [14]
NG1.N.16_34	FP IP address / DNS server	7.4.11.3.8 [14]
NG1.N.16_35	FP version / Firmware version	7.4.11.3.9 [14]
NG1.N.16_36	FP version / EEprom version	7.4.11.3.10 [14]
NG1.N.16_37	FP version / Hardware version	7.4.11.3.11 [14]
NG1.N.16_51	Emission mode	7.4.11.3.12 [14]
NG1.N.16_52	New PIN code	7.4.11.3.13 [14]
	[Supported line settings]	
NG1.N.16_38	Line name	7.4.11.4.1 [14]
NG1.N.16_39	Line id	7.4.11.4.2 [14]
NG1.N.16_40	Attached handsets	7.4.11.4.3 [14]
NG1.N.16_41	Dialling prefix	7.4.11.4.4 [14]
NG1.N.16_42	FP melody	7.4.11.4.5 [14]
NG1.N.16_43	FP volume	7.4.11.4.6 [14]
NG1.N.16_44	Blocked number	7.4.11.4.7 [14]
NG1.N.16_45	Multiple calls mode (single/multiple)	7.4.11.4.8 [14]
NG1.N.16_46	Intrusion call	7.4.11.4.9 [14]
NG1.N.16_47	Permanent CLIR	7.4.11.4.10 [14]
NG1.N.16_48	Call forwarding Unconditional	7.4.11.4.11 [14]
NG1.N.16_49	Call forwarding on No Answer	7.4.11.4.12 [14]
NG1.N.16_50	Call forwarding on Busy subscriber	7.4.11.4.13 [14]
NG1.N.17	Calling line identity restriction	5.2 [14]
NG1.N.17_1	Considerations	7.4.12.1 [14]
NG1.N.17_2	Permanent CLIR mode (all calls)	7.4.12.2 [14]
NG1.N.17_3	Temporary CLIR mode (call by call)	7.4.12.3 [14]
NG1.N.18	Call forwarding (external calls)	5.2 [14]
NG1.N.18_1	Call Forwarding common requirements	7.4.13.1 [14]
NG1.N.18_2	External Call Forwarding Unconditional (CFU) to external number	7.4.13.2 [14]
NG1.N.18_3	External Call Forwarding on No Answer (CFNA) to external number	7.4.13.3 [14]
NG1.N.18_4	External Call Forwarding on Busy subscriber (CFB) to external number	7.4.13.4 [14]
NG1.N.19	DTMF handling Uplink DTMF transmission at call setup when FP connected to classic	5.2 [14]
NG1.N.19_1		7 1 1 1 1 1 1 1 1
NG1.N.19_2	switching network Uplink DTMF transmission when connected	7.4.14.1.1 [14] 7.4.14.1.2 [14]
NG1.N.19_2 NG1.N.19_3	Downlink DTMF transmission when connected Downlink DTMF reception	
NG1.N.19_3 NG1.N.19_4	Local DTMF feedback of dialled digits	7.4.14.2 [14] 7.4.14.3 [14]
NG1.N.19_4 NG1.N.20	Tones provision	5.2 [14]
NG1.N.20_1	General considerations	7.4.15.1 [14]
NG1.N.20_1	Tones provision by the system	7.4.15.1 [14]
NG1.N.20_2	Transparency to tones provision by the network or PABX	7.4.15.2 [14]
NG 1.14.2U_3	Triansparency to tones provision by the network of FADA	1.4.15.3 [14]

NG1.N.21	Headset management	5.2 [14]
NG1.N.21_1	Headset considerations	7.4.16.1 [14]
NG1.N.21_2	Headset call interception	7.4.16.2 [14]
NG1.N.21_3	Headset incoming call	7.4.16.3 [14]
NG1.N.21_4	Re-dial of last outgoing call	7.4.16.4 [14]
NG1.N.21_5	Re-dial of last incoming call	7.4.16.5 [14]
NG1.N.21_6	Switching from headset to handset (headset initiated)	7.4.16.6 [14]
NG1.N.21_7	Switching from headset to handset (handset initiated)	7.4.16.7 [14]
NG1.N.21_8	Compatibility with other telephony features and profiles	7.4.16.8 [14]
NG1.N.22	Handling of lines where second calls are signalled in-band	5.2 [14]
NG1.N.22_1	General requirements	7.4.3.10.1 [14]
NG1.N.22_2	Basic 'double call with in-band signalling' lines	7.4.3.10.2 [14]
NG1.N.22_3	Off-hook CLIP enabled 'double call with in-band signalling' lines	7.4.3.10.3 [14]
NG1.N.22_4	Use of transparent commands on DCIBS lines (Basic or Off-hook CLIP enabled) or any other line	7.4.3.10.4 [14]
GAP.N.1	Outgoing call	4.1 [12]
GAP.N.2	Off hook	4.1 [12]
GAP.N.3	On hook (full release)	4.1 [12]
GAP.N.4	Dialled digits (basic)	4.1 [12]
GAP.N.5	Register recall	4.1 [12]
GAP.N.6	Go to DTMF signalling (defined tone length)	4.1 [12]
GAP.N.7	Pause (dialling pause)	4.1 [12]
GAP.N.8	Incoming call	4.1 [12]
GAP.N.9	Authentication of PP	4.1 [12]
GAP.N10	Authentication of user	4.1 [12]
GAP.N.11	Location registration	4.1 [12]
GAP.N.12	On air key allocation	4.1 [12]
GAP.N.13	Identification of PP	4.1 [12]
GAP.N.14	Service class indication/assignment	4.1 [12]
GAP.N.15	Alerting	4.1 [12]
GAP.N.16	ZAP	4.1 [12]
GAP.N.17	Encryption activation FT initiated	4.1 [12]
GAP.N.18	Subscription registration procedure on-air	4.1 [12]
GAP.N.19	Link control	4.1 [12]
GAP.N.20	Terminate access rights FT initiated	4.1 [12]
GAP.N.21	Partial release	4.1 [12]
GAP.N.22 GAP.N.23	Go to DTMF (infinite tone length)	4.1 [12]
GAP.N.24	Go to Pulse Signalling of display characters	4.1 [12] 4.1 [12]
GAP.N.25	Display control characters	4.1 [12]
GAP.N.26	Authentication of FT	4.1 [12]
GAP.N.27	Encryption activation PT initiated	4.1 [12]
GAP.N.28	Encryption deactivation FT initiated	4.1 [12]
GAP.N.29	Encryption deactivation PT initiated	4.1 [12]
GAP.N.30	Calling Line Identification Presentation (CLIP)	4.1 [12]
GAP.N.31	Internal call	4.1 [12]
GAP.N.31_1	Internal call setup	7.3.6 [13]
GAP.N.31_2	Internal call keypad	4.1 [12]
GAP.N.31_3	Internal call CLIP	4.1 [12]
GAP.N.31_4	Internal call CNIP	4.1 [12]
GAP.N.31_5	UTF-8 CNIP	7.4.17 [14]
GAP.N.31_6	Internal call codec priority	7.4.3.9 [14]
GAP.N.32	Service call	4.1 [12]
GAP.N.33	Enhanced U- plane connection	4.1 [12]
GAP.N.34	Calling Name Identification Presentation (CNIP)	4.1 [12]
GAP.N.34_1	Calling Name Identification Presentation (CNIP) Indication	8.42 [12]
GAP.N.34_2	UTF-8 CNIP	7.4.17 [14]
GAP.N.35	Enhanced security	4.1 [12]
GAP.N.35_1	Encryption of all calls	8.45.1 [12]
GAP.N.35_2	Re-keying during a call	8.45.2 [12]
GAP.N.35_3	Early encryption	8.45.3 [12]
GAP.N.35_4	Subscription requirements	8.45.4 [12]
GAP.N.35_5	Behaviour against legacy devices	8.45.5 [12]

1.3 Data Link Co	ontrol (DLC) services support status	
NG1.D.1	LU1 Transparent UnProtected service (TRUP) Class 0 /minimum_delay	5.3 [13]
NG1.D.2	LU1 Transparent UnProtected service (TRUP) Class 0	5.3 [13]
NG1.D.3	LU7 64 kbit/s protected bearer service	5.3 [13]
NG1.D.4	LU 12 Unprotected Framed service (UNF) Class 0	5.3 [13]
NG1.D.5	FU1 DLC frame	5.3 [13]
NG1.D.6	FU7 DLC frame	5.3 [13]
NG1.D.7	FU12 DLC frame with adaptation for codec G.729.1	5.3 [13]
GAP.D.1	LAPC class A service and Lc	5.1 [12]
GAP.D.2	C _S channel fragmentation and recombination	5.1 [12]
GAP.D.3	Broadcast Lb service	5.1 [12]
GAP.D.4	Intra-cell voluntary connection handover	5.1 [12]
GAP.D.5	Intercell voluntary connection handover	5.1 [12]
GAP.D.6	Encryption activation	5.1 [12]
GAP.D.7	LU1 TRUP Class 0/min_delay	5.1 [12]
GAP.D.8	FU1	5.1 [12]
GAP.D.9	Encryption deactivation	5.1 [12]
1.4 Medium Acc	ess Control (MAC) services support status	` 1
NG1.M.1	I _N _minimum delay symmetric MAC service type	5.4 [13]
NG1.M.2	I _N _normal delay symmetric MAC service type	5.4 [13]
NG1.M.3	I _{PQ} error_detection symmetric MAC service type	5.4 [13]
NG1.M.4	Advanced connections	5.4 [13]
NG1.M.5	'no-emission' mode	5.4 [14]
GAP.M.1	General	5.1 [12]
GAP.M.2	Continuous broadcast	5.1 [12]
GAP.M.3	Paging broadcast	5.1 [12]
GAP.M.4	Basic connections	5.1 [12]
GAP.M.5	C _S higher layer signalling	5.1 [12]
GAP.M.6	Quality control	5.1 [12]
GAP.M.7	Encryption activation	5.1 [12]
GAP.M.8	Extended frequency allocation	5.1 [12]
GAP.M.9	Bearer Handover, intra-cell	5.1 [12]
GAP.M.10	Bearer Handover, inter-cell	5.1 [12]
GAP.M.11	Connection Handover, intra-cell	5.1 [12]
GAP.M.12	Connection Handover, inter-cell	5.1 [12]
GAP.M.13	SARI support	5.1 [12]
GAP.M.14	Encryption deactivation	5.1 [12]
GAP.M.15	Re-keying	5.1 [12]
GAP.M.16	Early encryption	5.1 [12]
1.5 Physical laye	er (PHL) services support status	
NG1.P.1	2 level GFSK modulation	5.5 [13]
NG1.P.2	Physical Packet P32	5.5 [13]
NG1.P.3	Physical Packet P64	5.5 [13]
NG1.P.4	Physical Packet P67	5.5 [13]
NG1.P.5	Physical Packet P80	5.5 [13]
1.6 Speech codi	ng and audio features support status	
NG1.SC.1	G.726 32 kbit/s ADPCM codec	5.6 [13]
NG1.SC.2	G.711 64 kbit/s PCM codec	5.6 [13]
NG1.SC.3	G.722 64 kbit/s 7 kHz wideband codec	5.6 [13]
NG1.SC.4	G.729.1 32 kbit/s 7 kHz wideband codec	5.6 [13]
NG1.SC.5	MPEG4 AAC-LD 64 kbit/s 14 kHz superwideband codec	5.6 [13]
NG1.SC.6	MPEG4 AAC-LD 32 kbit/s 11 kHz wideband codec	5.6 [13]
NG1.SC.7	Packet loss Concealment (PLC) for G.722]	5.6 [13]
NG1.SC.8	Detection of Fax/modem tone	5.6 [13]
NG1.SC.9	Codec selection and switching	5.6 [13]
NG1.SC.10	PP Audio profile type 1a (classic GAP handset)	5.6 [13]
NG1.SC.11	PP Audio profile type 1b (improved GAP handset)	5.6 [13]
NG1.SC.12	PP Audio profile type 1c (HATS 3,1 kHz handset)	5.6 [13]
NG1.SC.13	PP Audio profile type 1d (HATS 3,1 kHz improved handset)	5.6 [13]
NG1.SC.14	PP Audio profile type 2a (Recommendation ITU-T P.311 [i.27] 7 kHz handset)	5.6 [13]
NG1.SC.15	PP Audio profile type 2b (HATS 7 kHz handset)	5.6 [13]
NG1.SC.16	PP Audio profile type 2c (HATS 7 kHz improved handset)	5.6 [13]
NG1.SC.17	PP Audio profile type 3a (HATS 3,1 kHz handsfree)	5.6 [13]
NG1.SC.18	PP Audio profile type 3b (HATS 3,1 kHz improved handsfree)	5.6 [13]
NG1.SC.19	PP Audio profile type 4a (HATS 7 kHz handsfree)	5.6 [13]
	/	

NG1.SC.20	PP Audio profile type 4b (HATS 7 kHz improved handsfree)	5.6 [13]
NG1.SC.21	PP Audio profile type 5a superwideband (14 kHz) handset	5.6 [13]
NG1.SC.22	PP Audio profile type 5b superwideband (14 kHz) handsfree	5.6 [13]
NG1.SC.23	FP Audio type 1b (new ISDN 3,1 kHz)	5.6 [13]
NG1.SC.24	PP echo canceller for FP, narrowband	5.6 [13]
NG1.SC.25	PP echo suppressor for FP, narrowband	5.6 [13]
NG1.SC.26	FP Audio type 2 (analog PSTN 3,1 kHz)	5.6 [13]
NG1.SC.27	FP Audio type 3 (VoIP 3,1 kHz)	5.6 [13]
NG1.SC.28	FP Audio type 4 (ISDN wideband)	5.6 [13]
NG1.SC.29	FP Audio type 5 (VoIP wideband)	5.6 [13]
NG1.SC.30	PP echo canceller for FP, wideband	5.6 [13]
NG1.SC.31	PP echo suppressor for FP, wideband	5.6 [13]
NG1.SC.32	FP Audio type 6a (internal call)	5.6 [13]
NG1.SC.33	FP Audio type 6b (internal conference)	5.6 [13]
NG1.SC.34	Adaptive volume control for FP	5.6 [13]
1.7 Application	features support status	
NG1.A.1	Easy PIN-code registration	5.7 [14]
NG1.A.1_1	Registration mode automatic access	7.10.1.3.1 [14]
NG1.A.1_2	Searching mode and PIN code requests	7.10.1.1.1 [14]
NG1.A.1_3	Base station name selection	7.10.1.3.2 [14]
NG1.A.1_4	Registration user feedback	7.10.1.3.3 [14]
NG1.A.2	Easy pairing registration	5.7 [14]
NG1.A.2_1	Easy pairing description	7.10.1.2.1 [14]
NG1.A.2_2	Registration mode automatic access	7.10.1.3.1 [14]
NG1.A.2_3	Base station limited registration mode	7.10.1.2.2 [14]
NG1.A.2_4	Searching mode request	7.10.1.2.3 [14]
NG1.A.2_5	Base station name selection	7.10.1.3.2 [14]
NG1.A.2_6	Registration user feedback	7.10.1.3.3 [14]
NG1.A.3	Handset locator	5.7 [14]
NG1.A.3_1	Handset locator	7.10.2 [14]
GAP.A.1	AC_bitstring_mapping	4.2 [12]
GAP.A.2	Multiple subscription registration	4.2 [12]
GAP.A.3	Manual entry of the PARK	4.2 [12]
GAP.A.4	Terminal identity number assignment in mono cell system	4.2 [12]

Annex C (normative): Configuration for testing

The information contained within the following tables is required for configuration of the test equipment referred to in the present document. The label of each item does not explicitly appear in the test cases, nevertheless the related information are used either within stimulus or pass criteria to avoid human intervention when running some test cases.

C.1 Portable part configuration to be declared by supplier

None.

C.2 Fixed part internal configuration to be declared by supplier

The supplier shall provide additional information related to the FT testing. This information is used by the TS for the testing of the FP.

Table C.1: Internal configuration information for FT testing

Internal configuration item	Description	Example of value (to be declared by manufacturer)	Example of test group where used and purpose
PIN_CODE	Pin code of the FP	"0000"	TC_FT_NG1.N.1: Used by TS to register on FP.
RFPI	RFPI of the FP	"1122334455"	TC_FT_NG1.N.1: Used by TS to check if it is registered to the correct FP (FP under test).
HANDSET_TS_1_NUMBER	Internal number of TS_1. Same as digit subfield in TS 102 527-3 [14], Clause 7.4.10.5.1.2. Put here the number that your FP will assign to the 1 st handset registered on your FP (see notes 1 and 2).	"1"	TC_FT_GAP.N.31: Used by TS to perform the internal call to handset 1 TC_FT_GAP.A.4: Used by TS to check FP has assigned the correct Terminal Id number
HANDSET_TS_1_NAME	Internal name of TS_1. Same as characters subfield in TS 102 527-3 [14], Clause 7.4.10.5.1.3 (see note 3)	"DECT 1"	TC_FT_GAP.N.31: Used by TS to check internal call CNIP is correct.
HANDSET_TS_2_NUMBER	Internal number of TS_2. See handset 1 description	"2"	TC_FT_GAP.N.31: Used by TS to check the internal call CLIP.
HANDSET_TS_2_NAME	Internal name of TS_2. See handset 1 description	"DECT 2"	TC_FT_GAP.N.31: Used by TS to check the internal call CNIP.

NOTE 1: The handset number and names declared here are the ones that will be set by the FP under test when the TS (TS_1 or TS_2) will register to this FP. Declaring this, allows to avoid the TS do a list access session to retrieve this data.

NOTE 2: As defined in GAP.A.4 feature (see EN 300 444 [12]), the terminal identity number is in the interval [1: 127] for monocell systems (i.e. residential products). In addition, the first handset should be assigned value '00000001B' (but this is not a mandatory requirement).

NOTE 3: The default naming of the standard was chosen as example. Other values are possible.

Table C.2: Test cases where these FT internal configuration items are used

Configuration Item	Test case number(s) in which TS uses the
	configuration item
PIN_CODE	TC_FT_NG1.N.1_BV_101, 103, 104
RFPI	TC_FT_NG1.N.1_BV_101, 103, 104
HANDSET_TS_1_NUMBER	TC_FT_NG1.N.7_BV_202, 602, 1202
	TC_FT_NG1.N.8_BV_401
	TC_FT_NG1.N.9_BV_102
	TC_FT_NG1.N.16_BV_2201, 2202, 2210
	TC_FT_NG1.N.21_BV_201, 202, 701
	TC_FT_GAP.N.31_BV_301
	TC_FT_GAP.A4_BV_101
HANDSET_TS_1_NAME	TC_FT_NG1.N.8_BV_501
HANDSET_TS_2_NUMBER	TC_FT_NG1.N.6_BV_401
	TC_FT_NG1.N.7_BV_102, 202, 902
	TC_FT_NG1.N.8_BV_101, 201, 401, 501
	TC_FT_NG1.N.9_BV_101, 102
	TC_FT_NG1.N.10_BV_101, 105, 106, 201, 202
	TC_FT_NG1.N.11_BV_101
	TC_FT_NG1.N.13_BV_203, 205
	TC_FT_NG1.N.14_BV_401
	TC_FT_NG1.N.16_BV_2202, 2203
	TC_FT_GAP.N.31_BV_301
HANDSET_TS_2_NAME	TC_FT_NG1.N.7_BV_1202
	TC_FT_GAP.N.31_BV_401

C.3 Test environment configuration to be declared by test house or supplier

The test house or supplier shall provide additional information related to the testing environment. This information is used by the TS for the testing of the FP.

Table C.3: Test environment information for the FT testing

Test environment item	Description	Example of value (to be declared by manufacturer)	Test group where used and purpose		
PHONE_A_NUMBER	Telephone number of remote party Phone A	"210"	TC_FT_NG1.N.1: Used by TS to place outgoing to Phone A.		
PHONE_A_CLIP	Calling party number of remote party Phone A (In principle the same as telephone number): characters of the CLIP information element (see EN 300 175-5 [5], Clause 7.7.9).	"210"	TC_FT_GAP.N.30: Used by TS to check if the CLIP is correct on incoming call from Phone A.		
PHONE_A_CNIP	Calling party name of remote party Phone A (see EN 300 175-5 [5], Clause 7.7.53 and note)	"PHONE A"	TC_FT_GAP.N.34: Used by TS to check if the CNIP is correct on incoming call from Phone A.		
PHONE_B_NUMBER	Same description as Phone A	"220"	See Phone A.		
PHONE_B_CLIP	Same description as Phone A	"220"	See Phone A.		
PHONE_B_CNIP	Same description as Phone A	"Phone B éàü"	See Phone A. This phone is explicitly used in the test case TC_FT_GAP.N.34_BV_201 where TS checks CNIP from an UTF-8 enabled network and phone (phone B)		
PHONE_C_NUMBER	Same description as Phone A	"230"	See Phone A.		
NOTE: If the phone is connected to an UTF-8 enabled line (see Clause A.2.2), remote party name should include					

UTF-8 characters (e.g. 'Phone B éàü').

Table C.4: Test cases where test environment items are used

Configuration Item	Test case number(s) in which TS uses the
	configuration item
PHONE_A_NUMBER	TC_FT_NG1.N.1_BV_301, 303, 305, 306, 307
	TC_FT_NG1.N.6_BV_601
	TC_FT_NG1.N.7_BV_101, 102, 103, 104, 201, 202, 301,
	302, 401, 601, 602, 701, 702, 801, 901, 1201, 1202
	TC_FT_NG1.N.8_BV_101, 201, 301, 302
	TC_FT_NG1.N.9_BV_102, 103, 104
	TC_FT_NG1.N.10_BV_101, 105, 106, 201, 202
	TC_FT_NG1.N.11_BV_202
	TC_FT_NG1.N.12_BV_301, 302, 501, 502
	TC_FT_NG1.N.12_GC_401, 402
	TC_FT_NG1.N.13_BV_201, 202, 204
	TC_FT_NG1.N.13_BV_304
	TC_FT_NG1.N.14_BV_302, 303, 305, 306
	TC_FT_NG1.N.15_BV_205, 206, 207, 208
	TC_FT_NG1.N.16_BV_1706, 1802, 2002
	TC_FT_NG1.N.17_BV_201
	TC_FT_NG1.N.20_BV_201, 202, 203, 204, 205, 207, 210,
	301, 303, 304
	TC_FT_NG1.N.22_BV_101, 301, 302, 303
PHONE_A_CLIP	TC_FT_NG1.N.13_BV_302
	TC_FT_NG1.N.16_BV_1702, 1902, 2002, 2111
	TC_FT_GAP.N.30_BV_01
PHONE_A_CNIP	TC_FT_NG1.N.16_BV_1702, 1902, 2302
	TC_FT_GAP.N.34_BV_101
PHONE_B_NUMBER	TC_FT_NG1.N.6_BV_402, 601
	TC_FT_NG1.N.7_BV_101, 103, 104, 301, 401, 702
	TC_FT_NG1.N.9_BV_103, 104
	TC_FT_NG1.N.11_BV_201
	TC_FT_NG1.N.14_BV_305, 306
	TC_FT_NG1.N.15_BV_201, 202, 205, 206, 207, 208, 301
	TC_FT_NG1.N.16_BV_1705, 1706, 1802, 2002
	TC_FT_NG1.N.18_BV_201, 301, 401
	TC_FT_NG1.N.20_BV_202, 204, 210, 302, 304
	TC_FT_NG1.N.21_BV_201, 202, 204, 701
	TC_FT_NG1.N.22_BV_101, 301
PHONE_B_CLIP	TC_FT_NG1.N.11_BV_202
	TC_FT_NG1.N.16_BV_1702, 1705, 1706, 2002
PHONE_B_CNIP	TC_FT_NG1.N.7_BV_1201
	TC_FT_NG1.N.16_BV_1702, 1705, 1706, 2302
	TC_FT_GAP.N.34_BV_201
BUONE O ATTENDED	TC_FT_GAP.N.34_GC_201
PHONE_C_NUMBER	TC_FT_NG1.N.1_BV_302, 304
	TC_FT_NG1.N.11_BV_202
	TC_FT_NG1.N.18_BV_401

Annex D (normative): Amendments to other DECT specifications

D.1 Amendments to the Technical Basis for Regulation TBR 022 amended by TBR 022/A1 applicable to equipment compliant with TS 102 527-3

This annex list the requirements and tests which are optional in TBR 022 [i.4] amended by TBR 022/A1 [i.5], but that become mandatory by the support of the corresponding GAP features in TS 102 527-3 [14].

NOTE 1: This annex is a second amendment to TBR 022 [i.4]. TBR 022 [i.4] was first amended by TBR 022/A1 [i.5]. The present annex introduces new modifications that should be applied after the effect of TBR 022/A1 [i.5].

NOTE 2: Not all tables of TBR 022 [i.4] modified by the present annex have been modified by TBR 022/A1 [i.5].

The GAP features that became mandatory in NG PART3 are:

- GAP.N.9 Authentication of the PP, GAP.N.12 On air key allocation and GAP.N.17 Encryption activation FT initiated which are required by GAP.N.35 Enhanced security.
- GAP.N.20 Terminate access rights FT initiated which is required by NG1.N.16_22 Internal names list procedure.
- GAP.N.30 Calling Line Identification Presentation (CLIP). The requirements of this features have changed since the publication of TBR 022/A1 [i.5]: CLIP can be now sent either in {CC-SETUP} or in subsequent {CC-INFO}. The FT is required to support one of the methods, the PT is required to support both methods. Therefore, the CLIP test cases on FT side are not required as they might fail.
- GAP.N.31 Internal call: The requirements of this features have changed since the publication of TBR 022/A1 [i.5]: 'Internal call setup' basic service shall be used instead of 'Normal call setup' basic service previously. Nevertheless, this basic service change will have no consequence when running the GAP internal test cases as the FT shall be backward compatible and the PT will answer to both type of call setup.

The following amendments to the Technical Basis for Regulation TBR 022 [i.4] amended by TBR 022/A1 [i.5] shall apply for the purpose of the present document.

D.1.1 Additional testing requirements for PP side

The following modifications shall apply when testing equipment compliant with TS 102 527-3 [14].

D.1.1.1 Modifications to Clause A.2.1.1.2 "CC features"

Table A.2 of TBR 022 [i.4] shall be replaced by the following Table D.1.

Table D.1 (Table A.2 of TBR 022 [i.4]): EN 300 476-1 [i.18] Table A.13 CC features supported

Item	С	Call Control features	Reference	Status	Support
1	f	Bell off (Alerting)	6.2	m	
2	f	Bell on (Alerting)	6.2	m	
3		Control of supervisory tones	-	i	
4		Dial tone detection indication	-	i	
5	f	Dialled digits (basic)	6.2	m	
6		Dialled digits additional	-	i	
7		Dialling delimiter	-	i	
8		Dialling delimiter request	-	i	
9	f	Display control characters	6.2	0	
10		Emergency service access request	-	i	
11		External Handover (inter-cell)	-	i	
12		Fixed part/portable part capability exchange	-	i	
13	f	Go to DTMF (infinite tone length)	6.2	0	
14	f	Go to DTMF signalling (defined tone length)	6.2	m	
15	f	Go to Pulse	6.2	0	
16		Group address	-	i	
17	f	Incoming call	6.2	m	
18	f	Internal call	6.2	m (note)	
19	f	Off hook	6.2	m	
20	f	On hook (full release)	6.2	m	
21	f	Outgoing call	6.2	m	
22		Packet mode	-	i	
23	e, f	Partial release	6.2	0	
24	f	Pause (dialling pause)	6.2	m	
25	f	Register recall	6.2	m	
26	f	Signalling of display characters	6.2	0	
27		Selection of bearer service	-	i	
28		Service call	-	i	
29		Service change	-	i	
NOTE:	Corresponding feature is optional in "Generic Access Profile" (GAP, EN 300 444 [12]) but mandatory in TS 102 527-3 [14].				

D.1.1.2 Modifications to Clause A.2.1.1.4 "SS features (services)"

Table A.4 of TBR 022 [i.4] shall be replaced by the following Table D.2.

Table D.2 (Table A.4 of TBR 022 [i.4]): EN 300 476-1 [i.18] Table A.15 SS features (services) supported

Item	С	CC(CRSS) and CISS features	Reference	Status	Support
8	f	Calling Line Identification Presentation (CLIP)	6.2	m (note)	
NOTE:		esponding feature is optional in "Generic Access Profile" (GAP, 02 527-3 [14].	EN 300 444 [12]) but man	datory in

D.1.1.3 Modifications to Clause A.2.1.1.6 "Procedures"

Table A.6 of TBR 022 [i.4] shall be replaced by the following Table D.3.

Table D.3 (Table A.6 of TBR 022 [i.4]): EN 300 476-1 [i.18] Table A.18 CC procedures supported

Item	CC procedures	Reference	Status	Support	
1	cc_outgoing_normal_call_request	8.2	m		
4	cc_outgoing_selection_of_lower_layer_resources	-	i		
5	cc_outgoing_connection_of_U_plane	8.3, 8.4, 8.5, 8.6	m		
6	cc_outgoing_overlap_sending	8.3	m		
7	cc_outgoing_call_proceeding	8.4	m		
8	cc_outgoing_call_confirmation	8.5	m		
9	cc_outgoing_call_connection	8.6	m		
10	cc_incoming_call_request	8.12	m		
11	cc_incoming_selection_of_lower_layer_resources	-	i		
12	cc_incoming_connection_of_U_plane	8.15	m		
13	cc_incoming_overlap_receiving	-	i		
14	cc_incoming_call_proceeding	-	i		
15	cc_incoming_call_confirmation	8.13	m		
16	cc_incoming_call_connection	8.15	m		
17	cc_sending_terminal_capability	-	i		
18	cc_sending_keypad_info	8.10	m		
19	cc_call_information	8.10	m		
20	cc_normal_call_release	8.7	m		
21	cc_partial_release	8.9	c601		
22	cc_abnormal_call_release	8.8	m		
23	cc_release_collisions	8.7.2.1	m		
31	cc_timer_p_cc_02_mgt	8.7	m		
32	cc_timer_p_cc_03_mgt	8.2	m		
33	cc_timer_p_cc_04_mgt	-	i		
34	cc_timer_p_cc_05_mgt	8.15	m		
35	cc_internal_call_setup	8.18	m (note)		
39	cc_internal_call_keypad	8.19	c602		
40	pt_alerting	8.14	m		
41	display	8.16	c603		
NOTE:	TS 102 527-3 [14].	le" (GAP, EN 300 44	14 [12]) but n	nandatory in	
c601:					
c602:					
c603:	IF A. 2/9 OR A. 2/26 THEN m ELSE n/a				
o. 601:	It is mandatory to support at least one of these options				

D.1.2 Additional testing requirements for FP side

The following modifications shall apply when testing equipment compliant with TS 102 527-3 [14].

D.1.2.1 Modifications to Clause A.3.1.1.2 "CC features"

Table A.54 of TBR 022 [i.4] shall be replaced by the following Table D.4.

Table D.4 (Table A.54 of TBR 022 [i.4]): EN 300 476-4 [i.21] Table A.13 CC features supported

Item	С	Call Control features, Residential/Business	Reference	Status	Support
1	f	Bell off (Alerting)	6.2	m	
2	f	Bell on (Alerting)	6.2	m	
3		Control of supervisory tones	-	i	
4		Dial tone detection indication	-	i	
5	f	Dialled digits (basic)	6.2	m	
6		Dialled digits additional	-	i	
7		Dialling delimiter	-	i	
8		Dialling delimiter request	-	i	
9	f	Display control characters	6.2	0	
10		Emergency service access request	-	i	
11		External Handover (inter-cell)	-	i	
12		Fixed part/portable part capability exchange	-	i	
13	f	Go to DTMF (infinite tone length)	6.2	0	
14	f	Go to DTMF signalling (defined tone length)	6.2	0	
15	f	Go to Pulse	6.2	0	
16		Group address	-	i	
17	f	Incoming call	6.2	m	
18	f	Internal call	6.2	m (note)	
19	f	Off hook	6.2	m	
20	f	On hook (full release)	6.2	m	
21	f	Outgoing call	6.2	m	
22		Packet mode	-	i	
23	e, f	Partial release	6.2	0	
24	f	Pause (dialling pause)	6.2	0	
25	f	Register recall	6.2	0	
26	f	Signalling of display characters	6.2	0	
27		Selection of bearer service	-	i	
28		Service call	-	i	
29		Service change	-	i	
NOTE:					

D.1.2.2 Modifications to Clause A.3.1.1.3 "MM features"

Table A.56 of TBR 022 [i.4] shall be replaced by the following Table D.5.

Table D.5 (Table A.22 of TBR 022 [i.4]): EN 300 476-4 [i.21] Table A.14 MM features supported

Item	С	Mobility Management features, Residential/Business	Reference	Status	Support
1	f	Authentication of FT	6.2	0	
2	d, f	Authentication of PT	6.2	m (note)	
3	d, f	Authentication of user	6.2	0	
4	f, g	Encryption activation FT initiated	6.2	m (note)	
5	f, g	Encryption activation PT initiated	6.2	0	
6	f, g	Encryption deactivation FT initiated	6.2	0	
7	f, g	Encryption deactivation PT initiated	6.2	0	
8	d, f	Identification of PP	6.2	0	
9		Inter-operator roaming registration	-	i	
10		Location de-registration	-	i	
11	d, f	Location registration	6.2	0	
12	e, f	Multiple subscription registration	6.6	n/a	
13	d, f	On air key allocation	6.2	m (note)	
14	d, f	Service class indication/assignment	6.2	0	
15		Silent polling	-	i	
16	d, f	Subscription registration procedure on-air	6.2	m	
17		Subscription registration user procedure with DECT authentication module	-	i	
18		Subscription registration user procedures keypad (digit entry only)	-	i	
19	d, f	Terminate access rights FT initiated	6.2	m (note)	
20		Terminate access rights PT initiated	-	i	
21	d, f	ZAP	6.2	0	
22	e, f	MM Partial release (Link control)	8.39	m	
23		Temporary identity assign	-	i	
NOTE:	Corresponding feature is conditional/optional in "Generic Access Profile" (GAP, EN 300 444 [12]) but				

NOTE: Corresponding feature is conditional/optional in "Generic Access Profile" (GAP, EN 300 444 [12]) but mandatory in TS 102 527-3 [14].

D.1.2.3 Modifications to Clause A.3.1.1.6 "Procedures"

Table A.60 of TBR 022 [i.4] shall be replaced by the following Table D.6.

Table D.6 (Table A.60 of TBR 022 [i.4]): EN 300 476-4 [i.21] Table A.18 **CC** procedures supported

Item	CC procedures	Reference	Status	Support	
1	cc_outgoing_normal_call_request	8.2	m		
4	cc_outgoing_selection_of_lower_layer_resources	-	i		
5	cc_outgoing_connection_of_U_plane	8.3, 8.4, 8.5, 8.6	m		
6	cc_outgoing_overlap_sending	8.3	0		
7	cc_outgoing_call_proceeding	8.4	0		
8	cc_outgoing_call_confirmation	8.5	0		
9	cc_outgoing_call_connection	8.6	m		
10	cc_incoming_call_request	8.12	m		
11	cc_incoming_selection_of_lower_layer_resources	-	i		
12	cc_incoming_connection_of_U_plane	8.15	m		
13	cc_incoming_overlap_receiving	-	i		
14	cc_incoming_call_proceeding	-	i		
15	cc_incoming_call_confirmation	8.13	m		
16	cc_incoming_call_connection	8.15	m		
17	cc_sending_terminal_capability	-	i		
18	cc_sending_keypad_info	8.10	m		
19	cc_call_information	8.10	i		
20	cc_normal_call_release	8.7	m		
21	cc_partial_release	8.9	c6001		
22	cc_abnormal_call_release	8.8	m		
23	cc_release_collisions	8.7.2.1	m		
31	cc_timer_f_cc_02_mgt	8.7	m		
32	cc_timer_f_cc_03_mgt	8.2	m		
33	cc_timer_f_cc_04_mgt	-	i		
34	cc_timer_f_cc_01_mgt	8.3	c6002		
35	cc_internal_call_setup	8.18	m (note)		
39	cc_internal_call_keypad	8.19	C6004		
40	pt_alerting	8.14	M		
41	display	8.16	c6005		
NOTE:		rofile" (GAP, EN 300) 444 [12]) bi	ut	
	mandatory in TS 102 527-3 [14].				
c6001:					
c6002:					
c6003:					
c6004:					
c6005:	IF A. 55/9 OR A. 55/26 THEN m ELSE n/a				

Additional Test Cases applicable to equipment compliant D.1.3 with TS 102 527-3

This clause lists the additional Test Cases, compared to those mandated by the Technical Basis for Regulation TBR 022 [i.4] amended by TBR 022/A1 [i.5], that are applicable to equipment compliant with TS 102 527-3 [14].

The following additional testing requirements shall apply to equipment compliant with TS 102 527-3 [14].

D.1.3.1 Additional PT NWK layer test cases

The following abstract test cases are specified in the EN 300 494-2 [i.7] which gives the test specification for DECT GAP Portable Part applications. The test purposes details are given in EN 300 497-6 [i.14] and the test case dynamic behaviour in EN 300 497-7 [i.15].

The following additional test cases (Table D.7) shall apply to PPs compliant with TS 102 527-3 [14].

Table D.7: Additional GAP test cases for NG PART3 PP

TBR 22: Test Case Index					
Test Case Id	Description				
GAP.N.30: Calling Line Identif	GAP.N.30: Calling Line Identification Presentation (CLIP)				
TC_PT_CC_BV_RS_01	T-00; Incoming call; {CC-SETUP} with << Calling party number >>; CLIP				
	handling				
GAP.N.31: Internal Call					
TC_PT_CC_BV_CI_11	Internal Call				

D.1.3.2 Additional FT NWK layer test cases

The following abstract test cases are specified in the EN 300 494-3 [i.8] which gives the test specification for DECT GAP Fixed Part applications. The test purposes details are given in EN 300 497-8 [i.16] and the test case dynamic behaviour in EN 300 497-9 [i.17].

The following additional test cases (Table D.8) shall apply to FPs compliant with TS 102 527-3 [14].

Table D.8: Additional GAP test cases for NG PART3 FP

TBR 22: Test Case Index				
Test Case Id	Description			
GAP.N.9_1: Authentication of I	PT			
TC_FT_MM_BV_AU_01	Authentication of PT; PT has no stored ZAP value and service class info			
TC_FT_MM_TI_02	Authentication of PT; timer F - < MM_auth.1 > expiry (10 % margin)			
GAP.N.12_1: Key allocation				
TC_FT_MM_BV_KA_01	Key allocate; IUT initiated			
TC_FT_MM_BV_KA_02	Key allocate; IUT initiated; "implicit PT authentication" failure; IUT rejects			
TC_FT_MM_TI_05	Key allocation; timer F - < MM_key.1 > expiry (-10 % margin)			
GAP.N.17_1: Cipher-switching	initiated by FT			
TC_FT_MM_BV_CH_03	Cipher switching; IUT(FT) initiated; "cipher-off" to "cipher-on"			
TC_FT_MM_BV_CH_08	Cipher switching; IUT(FT) initiated; "cipher-off" to "cipher-on" fails			
TC_FT_MM_BV_CH_14	Cipher switching; IUT(FT) initiated; "cipher-off" to "cipher-on" and intracell handover			
TC_FT_MM_BO_01	Cipher switching; IUT(FT) initiated; ignoring unexpected {IDENTITY-REPLY}			
TC_FT_MM_TI_06	Cipher switching; IUT (FT) initiated; timer			
	F - < MM_cipher.1 > expiry (margin: -20 %			
GAP.N.20_1: FT terminating ac	GAP.N.20_1: FT terminating access rights			
TC_FT_MM_BV_AR_03	Terminate access rights; IUT(FT) initiated; PT authenticates FT			
TC_FT_MM_TI_04	Terminate access rights; IUT(FT) initiated; timer F-			
	<mm_access.2> expiry (-10 % margin)</mm_access.2>			

History

Document history		
V1.1.1	April 2010	Publication
V1.2.1	February 2011	Publication
V1.3.1	May 2012	Publication
V1.4.1	March 2013	Publication