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(DECT/GSM) Interworking Profile (IWP);  
Profile Implementation Conformance Statement (ICS);  
Part 2: Fixed radio Termination (FT)**

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## Foreword

This final draft European Telecommunication Standard (ETS) has been produced by the Radio Equipment and Systems (RES) Technical Committee of the European Telecommunications Standards Institute (ETSI), and is now submitted for the Voting phase of the ETSI standards approval procedure.

The meaning of the abbreviation DECT has been changed to Digital Enhanced Cordless Telecommunications (DECT) by the decision of the 23rd ETSI Technical Assembly (TA), 7th November 1995.

The Digital Enhanced Cordless Telecommunications/Global System for Mobile communications (DECT/GSM) Interworking Profile (IWP) Implementation Conformance Statement (ICS) standard comprises two parts:

Part 1: "Portable radio Termination (PT)";

**Part 2: "Fixed radio Termination (FT)".**

Annex A contains the requirement lists for the FT DECT/GSM IWP.

Annex B contains the profile specific ICS proforma for the FT DECT/GSM IWP.

<b>Proposed transposition dates</b>	
Date of latest announcement of this ETS (doa):	3 months after ETSI publication
Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	6 months after doa
Date of withdrawal of any conflicting National Standard (dow):	6 months after doa

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## 1 Scope

This European Telecommunication Standard (ETS) provides the Profile Implementation Conformance Statement (Profile ICS) proforma for the DECT/GSM IWP at the Fixed radio Termination (FT) as defined in ETS 300 370 [4] in compliance with the relevant requirements and in accordance with the relevant guidance given in ISO/IEC 9646-7 [11].

The supplier of an implementation which is claimed to conform to ETS 300 370 [4] depending on the class ARIs the implementation supports is required to complete:

- a copy of the PICS proforma ETS 300 476 Parts 4 to 7 [5] - [8], updated with the requirements from ETS 300 474-2 [9], and with the replacements from annex A of this ETS; and
- a copy of the Profile specific ICS proforma provided in annex B of this ETS.

If the implementation supports in addition to ARI class-D any of ARI-A, B, or, C classes, the supplier has to complete in addition a copy of ETS 300 474-2 [9] according to the GAP requirements.

## 2 Normative references

This ETS incorporates, by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this ETS only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

- [1] ETS 300 175-5: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Common Interface (CI); Part 5: Network (NWK) layer".
- [2] ETS 300 444: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Generic Access Profile (GAP)".
- [3] ETS 300 466: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications/Global System for Mobile Communications (DECT/GSM) interworking profile; General description of service requirements; Functional capabilities and information flows".
- [4] ETS 300 370: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications/Global System for Mobile communications (DECT/GSM) inter-working profile; Access and mapping (Protocol/procedure description for 3,1 kHz speech service)".
- [5] ETS 300 476-4: "Radio Equipment and Systems (RES); Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Protocol Implementation Conformance Statement (PICS) proforma; Part 4: Network (NWK) layer - Fixed radio Termination (FT)".
- [6] ETS 300 476-5: "Radio Equipment and Systems (RES); 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)".
- [7] ETS 300 476-6: "Radio Equipment and Systems (RES); 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)".
- [8] ETS 300 476-7: "Radio Equipment and Systems (RES); Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Protocol Implementation Conformance Statement (PICS) proforma; Part 7: Physical layer".

- [9] ETS 300 474-2: "Radio Equipment and Systems (RES); 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)".
- [10] ISO/IEC 9646-1 (1991): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts". (See also CCITT Recommendation X.290 (1991)).
- [11] ISO/IEC 9646-7 (1991): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation conformance statement".

### **3 Definitions and abbreviations**

#### **3.1 Definitions**

For the purposes of this ETS, the following terms and definitions apply:

- a) the terms defined in ISO/IEC 9646-7 [11];
- b) the definitions in ETS 300 370 [4];
- c) the definitions in ETS 300 466 [3]; and
- d) the following terms defined in ISO/IEC 9646-1 [10]:
  - PICS proforma;
  - Profile Implementation Conformance Statement (Profile ICS).

#### **3.2 Abbreviations**

For the purposes of this ETS, the abbreviations defined in ISO/IEC 9646-1 [10], the abbreviations defined in ETS 300 466 [3], ETS 300 370 [4], ETS 300 175-5 [1], and ETS 300 444 [2], apply.

### **4 Conformance requirement concerning Profile ICS**

The supplier of a protocol implementation which is claimed to conform to the FT specific requirements of ETS 300 370 [4] shall verify that his protocol implementation meets the profile Requirements Lists (RLs) DECT Network (NWK) protocol layer, contained in annex A, shall complete a copy of the Profile specific ICS proforma provided in annex B and shall provide the information necessary to identify both the supplier and the implementation.



## **Annex A (normative): Requirement list for DECT FT**

### **A.1 General**

The supplier of a protocol implementation which is claimed to conform to the FT specific requirements of ETS 300 370 [4] shall verify that his protocol implementation meets the profile RL.

For this, the supplier shall complete a copy of:

- a) the NWK layer PICS proforma contained in annex A of ETS 300 476-4 [5] if the client states support only for class D, updated with the GAP requirements for NWK layer from ETS 300 474-2 [9], and, updated with the requirements for NWK layer from this annex.

If the client states support for ARI class-D and any of classes A, B or C, then he shall complete two profile ICS Proformas: one for ARI class-D as stated above, and, one according to the requirements of ETS 300 474-2 [9];

- b) the DLC layer PICS proforma contained in annex A of ETS 300 476-5 [6] regardless of the class ARI, updated with the GAP requirements for DLC layer from ETS 300 474-2 [9];
- c) the MAC layer PICS proforma contained in annex A of ETS 300 476-6 [7] regardless of the class ARI, updated with the GAP requirements for MAC layer from ETS 300 474-2 [9];
- d) the PHL layer PICS proforma contained in annex A of ETS 300 476-7 [8] regardless of the class ARI, updated with the GAP requirements for PHL layer from ETS 300 474-2 [9].

#### **A.1.1 Profile Requirement List (Profile RL)**

The Profile RL for the NWK layer as defined in this subclause is based on ETS 300 476-4 [5] and ETS 300 474-2 [9]. For every capability the profile requirements are expressed by restriction upon allowed support answers in ETS 300 474-2 [9] depending on whether the implementation supports only ARI class D or ARI class D and any of ARI classes A, B or C. The Profile RL is produced by copying selected tables and/or table rows from ETS 300 474-2 [9] or ETS 300 476-4 [5] (e.g. if a table is not present in ETS 300 474-2 [9] because of having the same status as in ETS 300 476-4 [5]), removing the column(s) to be completed by the supplier, and adding a new set of columns giving the new profile requirements, both in terms of the status and allowed values.

#### **Profile status column**

A profile status column is provided - for Fixed Parts (FPs) supporting only ARI class D.

NOTE: This column is also relevant for FPs supporting ARI class A and/or B and/or C (see clause A.1).

The standardized symbols for the status column are as follows:

- m or M                      mandatory - the capability is required to be supported.
- o or O                      optional - the capability may be supported or not.
- n/a or N/A                not applicable - in the given context, it is impossible to use the capability.
- x or X                      prohibited (excluded) - there is a requirement not to use this capability in the given context.
- oi or Oi                    qualified optional - for mutually exclusive or selectable options from a set. "i" is an integer which identifies a unique group of related optional items and the logic of their selection which is defined immediately following the table.
- ci or Ci                    conditional - the requirement on the capability ("m", "o", "x" or "n/a") depends on the support of other optional or conditional items. "i" is an integer identifying a unique conditional status expression which is defined immediately following the table or which is defined in the general condition table below.
- i or I                      out-of-scope - this capability is outside the scope of the given specification, and hence irrelevant and not subject to conformance testing. This status is in particular applicable for data fields which are reserved for future use. The structure of such fields has to be supported, but the value is undefined and thus to be ignored.

**Reference column**

The reference column gives reference to ETS 300 370 [4], except where explicitly stated otherwise.

**A.1.2 General questions/assumptions**

This subclause contains general questions and/or assumptions that expand all over the Annex A.

**Table A.1: General questions table**

Item	Type ARI supported	Profile reference	Profile status	Profile support
1	Only ARI Class-D supported	5.4.1	o101	
2	ARI Class-D and any of classes A, B or C supported	5.4.1	o101	

o101: It is mandatory to support only one of these options.

**Table A.2: General condition table**

Condition identifier	Condition definition
Note 1	The status of the relevant item is exactly as the status of this item in ETS 300 474-2 [9] or ETS 300 476 Parts 4 to 7 [5] -[8] The item has been included as the Profile reference column include reference to the profile that describes the item more in details.

## A.2 NWK layer - FT: Profile Requirement List (Profile RL)

### A.2.1 Major capabilities

#### A.2.1.1 Call Control (CC) features

To express the profile requirements of ETS 300 370 [4], the following table indicates the change of status for support of NWK layer CC features.

NOTE: Although the notation "features" is not an ETS 300 370 [4] notation, features have been used here as a higher level of grouping of procedures. For consistency reasons some features may comprise only one procedure.

**Table A.3: ETS 300 474-2 [9] Table A.3: CC features supported**

Item	Call Control features	Profile reference	Profile status ARI-D
1	Bell off (Alerting)	5.4.2, 6.1.1.1, 6.1.1.3	See table A.2
2	Bell on (Alerting)	5.4.2, 6.1.1.1, 6.1.1.3	See table A.2
5	Dialled digits	5.4.2, 6.1.1.1	See table A.2
7	Dialling delimiter	5.4.2, 6.1.1.1	m
8	Dialling delimiter request	5.4.2, 6.1.1.1	m
10	Emergency service access request	5.4.2, 6.1.1.2	m
11	External Handover (inter-cell)	5.4.2, 6.1.2.9	o
13	Go to DTMF (infinite tone length)	6.1.4.3	m
14	Go to DTMF signalling (defined tone length)	-	i
15	Go to Pulse	-	i
17	Incoming call	5.4.2, 6.1.1.3, 6.3.1.1.3	See table A.2
18	Internal call	-	i
19	Off hook	5.4.2, 6.1.1.1, 6.1.1.2, 6.1.1.3, 6.3.1.1	See table A.2
20	Obn hook (full release)	5.4.2, 6.1.1.4, 6.1.1.5, 6.1.1.6, 6.1.1.7, 6.1.1.8, 6.3.1.2	See table A.2
21	Outgoing call	5.4.2, 6.1.1.1, 6.1.1.2, 6.3.1.1.1, 6.3.1.1.2	See table A.2
23	Partial release	-	i
24	Pause (dialling pause)	-	i
25	Register recall	-	i
28	Service call	-	i

**A.2.1.2 Mobility Management (MM) features**

To express the profile requirements of ETS 300 370 [4], the following table indicates the change of status for support of NWK layer MM features.

NOTE: Although the notation "features" is not an ETS 300 370 [4] notation, features have been used here as a higher level of grouping of procedures. For consistency reasons some features may comprise only one procedure.

**Table A.4: ETS 300 474-2 [9] Table A.4: MM features supported**

Item	Mobility Management features	Profile reference	Profile status ARI-D
1	Authentication of FT	5.4.2	n/a
2	Authentication of PT	5.4.2, 6.1.2.1, 6.3.2.1	m
3	Authentication of user	5.4.2	x
4	Encryption activation FT initiated	5.4.2, 6.1.2.6, 6.3.2.6	m
5	Encryption activation PT initiated	5.4.2, 6.1.2.9.5.3, 6.3.2.7.5.3	c401
6	Encryption deactivation FT initiated	5.4.2, 6.1.2.6	m
7	Encryption deactivation PT initiated	5.4.2, 6.1.2.9.5.3, 6.3.2.7.5.3	c401
8	Identification of PP	5.4.2, 6.1.2.2, 6.3.2.2	m
10	Location de-registration (Detach)	5.4.2, 6.1.2.4, 6.3.2.4	m
11	Location registration	5.4.2, 6.1.2.3, 6.3.2.3	m
12	Multiple subscription registration	-	i
13	On air key allocation	5.4.2	x
14	Service class indication/assignment	-	i
16	Subscription registration procedure on-air	5.4.2	n/a
19	Terminate access rights FT initiated	5.4.2	x
20	Terminate access rights PT initiated	5.4.2	n/a
21	ZAP	5.4.2	x
22	MM Partial release	-	i
23	Temporary identity assign	5.4.2, 6.1.2.5, 6.3.2.5	m

c401: IF A.3/11 THEN m ELSE n/a

**A.2.1.3 Supplementary Service (SS) features (services)**

To express the profile requirements of ETS 300 370 [4], the following table indicates the change of status for support of NWK layer SS features (services).

NOTE: Although the notation "features" is not an ETS 300 370 [4] notation, features have been used here as a higher level of grouping of procedures. For consistency reason some features may comprise only one procedure.

**Table A.5: ETS 300 474-2 [9] Table A.5: SS features (services) supported**

Item	CC (CRSS) and CISS features	Ref.	Profile status ARI-D
8	Calling Line Identification Presentation (CLIP)	-	i

#### A.2.1.4 LCE features

To express the profile requirements of ETS 300 370 [4], the following table indicates the change of status for support of NWK layer LCE features (services).

NOTE: Although the notation "features" is not an ETS 300 370 [4] notation, features have been used here as a higher level of grouping of procedures. For consistency reason some features may comprise only one procedure.

**Table A.6: ETS 300 474-2 [9] Table A.6: LCE features supported**

Item	LCE features	Profile reference	Profile status ARI-D
1	Connection oriented Link control (Link control)	5.4.2, 6.1.3, 6.3.3	See table A.2

#### A.2.1.5 Procedures

To express the profile requirements of ETS 300 370 [4], the following table indicates the change of status for support of NWK layer procedures.

Table A.7: ETS 300 474-2 [9] Table A.7: CC procedures supported

Item	CC procedures	Profile reference	Profile status ARI-D
1	cc_outgoing_normal_call_request	5.4.2, 6.1.1.1, 6.3.1.1.1	See table A.2
2	cc_outgoing_emergency_call_request	5.4.2, 6.1.1.2, 6.3.1.1.2	m
3	cc_outgoing_external_handover_request	6.1.2.9	c701
5	cc_outgoing_connection_of_U_plane	5.4.2, 6.2.1	See table A.2
6	cc_outgoing_overlap_sending	5.4.2, 6.1.1.1, 6.3.1.1.1	m
7	cc_outgoing_call_proceeding	5.4.2, 6.1.1.1, 6.3.1.1.1	m
8	cc_outgoing_call_confirmation	5.4.2, 6.1.1.1, 6.3.1.1.1	m
9	cc_outgoing_call_connection	5.4.2, 6.1.1.1, 6.3.1.1.1	See table A.2
10	cc_incoming_call_request	5.4.2, 6.1.1.3, 6.3.1.1.3	See table A.2
12	cc_incoming_connection_of_U_plane	5.4.2, 6.2.1	See table A.2
15	cc_incoming_call_confirmation	5.4.2, 6.1.1.3, 6.3.1.1.3	See table A.2
16	cc_incoming_call_connection	5.4.2, 6.1.1.3, 6.3.1.1.3	See table A.2
18	cc_sending_keypad_info	5.4.2, 6.1.1.1, 6.3.1.1.1	See table A.2
19	cc_call_information	5.4.2, 6.1.1.1, 6.1.4.3	See table A.2
20	cc_normal_call_release	5.4.2, 6.1.1.4, 6.1.1.5, 6.3.1.2	See table A.2
22	cc_abnormal_call_release	5.4.2, 6.1.1.6, 6.1.1.7, 6.3.1.2	See table A.2
23	cc_release_collisions	5.4.2, 6.1.1.8	See table A.2
31	cc_timer_f_cc_02_mgt	5.4.2, 6.1.1.5, 6.1.1.8, 6.1.5.2, 6.3.6	m
32	cc_timer_f_cc_03_mgt	5.4.2, 6.1.1.3, 6.1.1.8, 6.1.5.2, 6.3.6	m
33	cc_timer_f_cc_04_mgt	5.4.2, 6.1.1.1, 6.1.1.3, 6.1.1.8, 6.1.5.2, 6.3.6	m
34	cc_timer_f_cc_01_mgt	5.4.2, 6.1.1.1, 6.1.1.8, 6.1.5.2, 6.3.6	m
35	cc_internal_call_setup	-	i
36	cc_service_call_setup	-	i
38	cc_service_call_keypad	-	i
39	cc_internal_call_keypad	-	i
40	pt_alerting	5.4.2, 6.1.1.3	See table A.2

c701: IF A.3/11 THEN m ELSE n/a

Table A.8: ETS 300 474-2 [9] Table A.8: MM procedures supported

Item	Mobility Management procedures	Profile reference	Profile status ARI-D
1	mm_identification_of_pt	5.4.2, 6.1.2.2, 6.3.2.2	See table A.2
2	mm_temporary_identity_assignment	5.4.2, 6.1.2.5, 6.3.2.5	m
3	mm_authentication_of_pt	5.4.2, 6.1.2.1, 6.3.2.1	See table A.2
4	mm_authentication_of_user	5.4.2	x
5	mm_authentication_of_ft	-	n/a
6	mm_location_registration	5.4.2, 6.1.2.3, 6.3.2.3, note 1	m
8	mm_location_update	5.4.2, 6.1.2.3, 6.3.2.3	m
9	mm_obtain_access_rights	-	n/a
10	mm_pt_init_terminate_access_rights	-	n/a
11	mm_ft_init_terminate_access_rights	5.4.2	x
12	mm_key_allocation	5.4.2	x
13	mm_pt_init_parameter_retrieval	5.4.2, 6.1.2.9.2, 6.3.2.7.2	c801
14	mm_ft_init_parameter_retrieval	5.4.2, 6.1.2.1, 6.1.2.3	m
15	mm_pt_init_cipher_switching	5.4.2, 6.1.2.9.5.3, 6.3.2.7.4.3	c801
16	mm_ft_init_cipher_switching	5.4.2, 6.1.2.6, 6.3.2.6	m
17	mm_zap_increment	5.4.2	x
18	mm_dck_storing	5.4.2, 6.1.2.1, 6.3.2.1	m
19	mm_dck_sending	5.4.2	x
20	mm_service_class_mgt	-	i
21	mm_partial_release	i	i
23	mm_timer_f_mm_ident_1_mgt	5.4.2, 6.1.5.2	See table A.2
24	mm_timer_f_mm_access_2_mgt	-	n/a
25	mm_timer_f_mm_auth_1_mgt	5.4.2, 6.1.5.2	See table A.2
26	mm_timer_f_mm_cipher_1_mgt	5.4.2, 6.1.5.2	See table A.2
27	mm_timer_f_mm_key_1_mgt	-	n/a
28	mm_timer_f_mm_ident.2_mgt	5.4.2, 6.1.5.2	See table A.2
29	mm_timer_f_mm_auth_2_mgt	-	n/a

c801: IF A.3/11 THEN m ELSE n/a

Table A.9: ETS 300 474-2 [9] Table A.9: SS protocols supported

Item	SS protocol name	Profile reference	Profile status ARI-D
1	crss_keypad_protocol	-	i

Table A.10: ETS 300 474-2 [9] Table A.10: LCE procedures supported

Item	LCE procedures	Profile reference	Profile status ARI-D
2	lce_indirect_ft_init_link_establishment	5.4.2, 6.1.3	See table A.2
3	lce_direct_ft_init_link_establishment	-	i
11	lce_timer_lce_01_mgt	5.4.2, 6.1.5.2	m
12	lce_timer_lce_02_mgt	5.4.2, 6.1.5.2	m
11	lce_timer_lce_03_mgt	5.4.2, 6.1.3, 6.1.5.2	m

**Table A.11: ETS 300 474-2 [9] Table A.11: LLME procedures supported**

Item	LLME procedures	Profile reference	Profile status ARI-D
6	mgt_mm_cc_coexistence	5.4.2, 6.1	m
9	mgt_call_cipherng_mgt	5.4.2, 6.1.2.6, 6.1.2.9, 6.3.2.6, 6.3.2.7	m
9	mgt_external_handover	5.4.2, 6.1.2.9, 6.3.2.7	c1101

c1101: IF A.3/11 THEN m ELSE n/a

### A.2.2 Messages

To express the profile requirements of ETS 300 370 [4], the following tables indicate the change of status for support of NWK layer messages.

Some DECT information elements can be used to convey the information carried in some GSM information elements, but the exact mapping has been considered as outside the scope of this ETS. Such information elements hereafter are qualified as mandatory (m) to support their existence, as the mapping itself is application dependent.

#### A.2.2.1 CC messages

**Table A.12: ETS 300 474-2 [9] Table A.12: CC receiving (P to F) messages supported**

Item	CC receiving (P to F) Message name	Profile reference	Profile status ARI-D
1	CC-SETUP	6.1.6.2, 6.1.6.2.6, 6.1.6.2.15, 6.1.6.2.16, 6.1.6.2.21	See table A.2
2	CC-INFORMATION	6.1.4.2, 6.1.4.3, 6.1.6.2, 6.1.6.2.10, 6.1.6.2.18, 6.1.6.2.19	See table A.2
5	CC-ALERTING	6.1.6.2, 6.1.6.2.8	See table A.2
6	CC-CONNECT	6.1.6.2, 6.1.6.2.9	See table A.2
7	CC-CONNECT-ACKnowledge	6.1.6.2, 6.1.6.2.22	c1201
8	CC-RELEASE	6.1.6.2, 6.1.6.2.11, 6.1.6.2.12, 6.1.6.2.17	See table A.2
9	CC-RELEASE-COMplete	6.1.6.2, 6.1.6.2.13, 6.1.6.2.14	See table A.2

C1201: IF A.3/11 THEN m ELSE I



**Table A.13: ETS 300 474-2 [9] Table A.13: CC sending (F to P) messages supported**

Item	CC sending (F to P) Message name	Profile reference	Profile status ARI-D
1	CC-SETUP	6.1.6.1, 6.1.6.1.11	See table A.2
2	CC-INFOrmation	6.1.6.1, 6.1.4.2, 6.1.4.3, 6.1.6.1.18, 6.1.6.1.20, 6.1.6.1.22, 6.1.6.1.23, 6.1.6.1.24	m
3	CC-SETUP-ACKnowledge	6.1.1.1, 6.1.6.1	m
4	CC-CALL-PROCeeding	6.1.6.1, 6.1.6.1.9	m
5	CC-ALERTING	6.1.6.1, 6.1.6.1.8	m
6	CC-CONNECT	6.1.6.1, 6.1.6.1.10	See table A.2
7	CC-CONNECT-ACKnowledge	6.1.6.1, 6.1.6.1.17	See table A.2
8	CC-RELEASE	6.1.6.1, 6.1.6.1.12, 6.1.6.1.21, 6.1.6.1.27	See table A.2
9	CC-RELEASE-COMplete	6.1.6.1, 6.1.6.1.13, 6.1.6.1.14, 6.1.6.1.15, 6.1.6.1.16	See table A.2
13	CC-NOTIFY	6.1.6.1, 6.1.4.2.2, 6.1.2.7, 6.1.6.1.19	See table A.2

**Table A.14: ETS 300 474-2 [9] Table A.14: CC-SETUP receiving (P to F) supported**

Item	CC-SETUP receiving (P to F) Information element name	Profile reference	Profile status ARI-D
4	Basic service	6.1.7.2.10	See table A.2
14	Cipher info	6.1.6.2.6, 6.1.7.2.4	m
30	Called party number	6.1.7.2.11	m
32	Sending complete	6.1.1.1	m

**Table A.15: ETS 300 474-2 [9] Table A.15: CC-SETUP sending (F to P) supported**

Item	CC-SETUP sending (F to P) Information element name	Profile reference	Profile status ARI-D
4	Basic service	6.1.7.2.10	See table A.2
16	Facility	6.1.7.1.11	m
17	Progress Indicator	6.1.7.1.8	m
20	Signal	6.1.7.1.11	m
29	Calling party number	6.1.6.1.11	m
30	Called party number	6.1.6.1.11	m
31	Called party subaddress	6.1.6.1.11	m
33	IWU-to-IWU	6.1.6.1.11	m

**Table A.16: ETS 300 474-2 [9] Table A.16: CC-INFO receiving (P to F) supported**

Item	CC-INFO receiving (P to F) Information element name	Profile reference	Profile status ARI-D
7	Keypad (multi keypad)	6.1.6.2.10	See table A.2
12	Called party number	6.1.1.1	m
14	Sending complete	6.1.1.1	m

**Table A.17: ETS 300 474-2 [9] Table A.18: CC-SETUP-ACK sending (F to P) supported**

Item	CC-SETUP-ACK sending (F to P) Information element name	Profile reference	Profile status ARI-D
15	Delimiter request	6.1.1.1	m

Table A.18: ETS 300 474-2 [9] Table A.19: CC-CALL-PROC sending (F to P) supported

Item	CC-CALL-PROC sending (F to P) Information element name	Profile reference	Profile status ARI-D
5	Progress indicator	6.1.7.1.8	m

Table A.19: ETS 300 474-2 [9] Table A.20: CC-ALERTING receiving (P to F) supported

Item	CC-ALERTING receiving (P to F) Information element name	Profile reference	Profile status ARI-D
4	Facility	6.1.6.2.8	m
12	IWU-to-IWU	6.1.6.2.8	m

Table A.20: ETS 300 474-2 [9] Table A.21: CC-ALERTING sending (F to P) supported

Item	CC-ALERTING sending (F to P) Information element name	Profile reference	Profile status ARI-D
4	Facility	6.1.6.1.8	m
5	Progress Indicator	6.1.7.1.8	m
12	IWU-to-IWU	6.1.6.2.8	m

Table A.21: ETS 300 474-2 [9] Table A.22: CC-CONNECT receiving (P to F) supported

Item	CC-CONNECT receiving (P to F) Information element name	Profile reference	Profile status ARI-D
4	Facility	6.1.6.2.9	m
12	IWU-to-IWU	6.1.6.2.9	m

Table A.22: ETS 300 474-2 [9] Table A.23: CC-CONNECT sending (F to P) supported

Item	CC-CONNECT sending (F to P) Information element name	Profile reference	Profile status ARI-D
4	Facility	6.1.6.1.10	m
5	Progress indicator	6.1.7.1.8	m
12	IWU-to-IWU	6.1.6.1.10	m

Table A.23: ETS 300 474-2 [9] Table A.25: CC-RELEASE receiving (P to F) supported

Item	CC-RELEASE receiving (P to F) Information element name	Profile reference	Profile status ARI-D
2	Release reason	6.1.6.2.11, 6.1.6.2.12, 6.1.7.2.14	m
6	IWU-to-IWU	6.1.6.2.12	m

Table A.24: ETS 300 474-2 [9] Table A.26: CC-RELEASE sending (F to P) supported

Item	CC-RELEASE sending (F to P) Information element name	Profile reference	Profile status ARI-D
2	Release reason	6.1.6.1.12, 6.1.7.1.9	m
3	Facility	6.1.6.1.12	m
6	IWU-to-IWU	6.1.6.1.12	m

Table A.25: ETS 300 474-2 [9] Table A.27: CC-RELEASE-COM receiving (P to F) supported

Item	CC-RELEASE-COM receiving (P to F) Information element name	Profile reference	Profile status ARI-D
2	Release reason	6.1.7.2.14, 6.1.6.2.13, 6.1.6.2.14	m
10	IWU-to-IWU	6.1.6.2.13, 6.1.6.2.14	m

Table A.26: ETS 300 474-2 [9] Table A.28: CC-RELEASE-COM sending (F to P) supported

Item	CC-RELEASE-COM sending (F to P) Information element name	Profile reference	Profile status ARI-D
2	Release reason	6.1.7.1.10	m
6	Facility	6.1.6.1.13, 6.1.6.1.14	m
10	IWU-to-IWU	6.1.6.1.13, 6.1.6.1.14	m

A.2.2.2 MM messages

Table A.27: ETS 300 474-2 [9] Table A.30: MM message receiving (P to F) supported

Item	MM message receiving (P to F) Information element name	Profile reference	Profile status ARI-D
3	ACCESS-RIGHTS-REQUEST	5.4.2	x
4	ACCESS-RIGHTS-TERMINATE-ACCEPT	5.4.2	x
5	ACCESS-RIGHTS-TERMINATE-REJECT	5.4.2	x
6	ACCESS-RIGHTS-TERMINATE-REQUEST	5.4.2	x
7	AUTHENTICATION-REJECT	6.1.2.1	i
8	AUTHENTICATION-REPLY	6.1.6.2, 6.1.6.2.3	m
9	AUTHENTICATION-REQUEST	-	i
10	CIPHER-REJECT	6.1.2.6, 6.1.6.2	m
12	CIPHER-SUGGEST	6.1.2.9.5.3, 6.3.2.7.4.3	c2701
13	DETACH	6.1.6.2, 6.1.6.2.4	m
14	IDENTITY-REPLY	6.1.6.2, 6.1.6.2.7	m
16	KEY-ALLOCATE	5.4.2	x
19	LOCATE-REQUEST	6.1.6.2, 6.1.6.2.1	m
22	MM-INFO-REQUEST	6.1.6.2, 6.1.6.2.20, 6.1.6.2.23	C2702
25	TEMPORARY-IDENTITY-ASSIGN-ACKnowledge	6.1.6.2, 6.1.6.2.5	m
26	TEMPORARY-IDENTITY-ASSIGN-REJECT	6.1.6.2, 6.1.2.5	m

c2701: IF A.8/15 THEN m ELSE n/a

c2702: IF A.8/13 THEN m ELSE n/a

Table A.28: ETS 300 474-2 [9] Table A.31: MM message sending (F to P) supported

Item	MM message sending (F to P) Information element name	Profile reference	Profile status ARI-D
1	ACCESS-RIGHTS-ACCEPT	-	i
2	ACCESS-RIGHTS-REJECT	-	i
4	ACCESS-RIGHTS-TERMINATE-ACCEPT	-	i
5	ACCESS-RIGHTS-TERMINATE-REJECT	-	i
6	ACCESS-RIGHTS-TERMINATE-REQUEST	-	i
7	AUTHENTICATE-REJECT	-	i
8	AUTHENTICATE-REPLY	-	i
9	AUTHENTICATE-REQUEST	6.1.6.1, 6.1.6.1.1	m
10	CIPHER-REJECT	-	i
11	CIPHER-REQUEST	6.1.6.1, 6.1.6.1.5	m
15	IDENTITY-REQUEST	6.1.6.1, 6.1.6.1.3	m
16	KEY-ALLOCATE	-	i
17	LOCATE-ACCEPT	6.1.6.1, 6.1.6.1.6	m
18	LOCATE-REJECT	6.1.6.1, 6.1.6.1.7	m
20	MM-INFO-ACCEPT	6.1.6.1, 6.1.6.1.26	c2801
21	MM-INFO-REJECT	6.1.6.1, 6.1.6.1.28	c2801
23	MM-INFO-SUGGEST	6.1.2.3, 6.1.6.1, 6.1.6.1.2	m
24	TEMPORARY-IDENTITY-ASSIGN	6.1.6.1, 6.1.6.1.4	m

c2801: IF A.8/13 THEN m ELSE n/a

Table A.29: ETS 300 474-2 [9] Table A.39: AUTHENTICATE-REPLY receiving (P to F) supported

Item	AUTHENTICATE-REPLY receiving (P to F) Information element name	Profile reference	Profile status ARI-D
4	ZAP field	-	i
5	Service class	-	i

Table A.30: ETS 300 474-2 [9] Table A.42: AUTHENTICATE-REQUEST sending (F to P) supported

Item	AUTHENTICATE-REQUEST sending (F to P) Information element name	Profile reference	Profile status ARI-D
5	RS	-	i

Table A.31: ETS 300 474-2 [9] Table A.45: CIPHER-REQUEST sending (F to P) supported

Item	CIPHER-REQUEST sending (F to P) Information element name	Profile reference	Profile status ARI-D
2	Cipher info	6.1.8.1.8	See table A.2

Table A.32: ETS 300 476-4 [5] Table A.72: DETACH receiving (P to F) supported

Item	DETACH receiving (P to F) Information element name	Profile reference	Profile status ARI-D
2	Portable identity	6.1.7.2.6	m
3	NWK assigned identity	6.1.7.2.2	m

Table A.33: ETS 300 474-2 [9] Table A.47: IDENTITY-REPLY receiving (P to F) supported

Item	IDENTITY-REPLY receiving (P to F) Information element name	Profile reference	Profile status ARI-D
3	Portable identity 1	6.1.7.2.6	m
7	Fixed identity 1	-	i
11	NWK assigned identity 1	6.1.7.2.2	m

Table A.34: ETS 300 474-2 [9] Table A.48: IDENTITY-REQUEST sending (F to P) supported

Item	IDENTITY-REQUEST sending (F to P) Information element name	Profile reference	Profile status ARI-D
3	Identity type 1	6.1.7.1.5	See table A.2

Table A.35: ETS 300 474-2 [9] Table A.49: LOCATE-ACCEPT sending (F to P) supported

Item	LOCATE-ACCEPT sending (F to P) Information element name	Profile reference	Profile status ARI-D
3	Location area	6.1.7.1.4	See table A.2
4	NWK assigned identity	6.1.1.1.1	m
5	Duration	6.1.2.3	o

Table A.36: ETS 300 474-2 [9] Table A.50: LOCATE-REJECT sending (F to P) supported

Item	LOCATE-REJECT sending (F to P) Information element name	Profile reference	Profile status ARI-D
2	Reject reason	6.1.7.1.6	m

Table A.37: ETS 300 474-2 [9] Table A.51: LOCATE-REQUEST receiving (P to F) supported

Item	LOCATE-REQUEST receiving (P to F) Information element name	Profile reference	Profile status ARI-D
4	Location area	6.1.7.2.3	See table A.2
5	NWK assigned identity	6.1.7.2.2	m
6	Cipher info	6.1.7.2.4	m
8	Terminal capability	6.1.7.2.8	See table A.2

Table A.38: ETS 300 474-2 [9] Table A.52: MM-INFO-SUGGEST sending (F to P) supported

Item	MM-INFO-SUGGEST sending (F to P) Information element name	Profile reference	Profile status ARI-D
4	Location area	6.1.2.3, 6.1.2.9	not applicable
5	NWK assigned identity	6.1.2.3, 6.1.2.9	not applicable
6	Network parameter	6.1.2.3, 6.1.2.9	not applicable

Table A.39: ETS 300 476-4 [5] Table A.83: TEMPORARY-IDENTITY-ASSIGN sending (F to P) supported

Item	TEMPORARY-IDENTITY-ASSIGN sending (F to P) Information element name	Profile reference	Profile status ARI-D
2	Portable identity	-	i
3	NWK assigned identity	6.1.7.1.1	m
4	Duration	6.1.2.5	o

Table A.40: ETS 300 474-2 [9] Table A.53: TEMPORARY-IDENTITY-ASSIGN-REJECT receiving (P to F) supported

Item	TEMPORARY-IDENTITY-ASSIGN-REJECT receiving (P to F) Information element name	Profile reference	Profile status ARI-D
2	Reject reason	6.1.2.5	i

### A.2.2.3 Link control entity messages

Table A.41: ETS 300 474-2 [9] Table A.56: LCE message receiving (P to F) supported

Item	LCE message receiving (P to F) Information element name	Profile reference	Profile status ARI-D
1	LCE-PAGE-RESPONSE	6.1.6.2, 6.1.6.2.2	See table A.2

Table A.42: ETS 300 474-2 [9] Table A.58: LCE-PAGE-RESPONSE receiving (P to F) supported

Item	LCE-PAGE-RESPONSE receiving (P to F) Information element name	Profile reference	Profile status ARI-D
2	Portable identity	6.1.7.2.1	See table A.2
3	Fixed identity	-	i
4	NWK assigned identity	6.1.3	m
5	Cipher info	6.1.7.2.4	m

### A.2.3 Information elements

To express the profile requirements of ETS 300 370 [4], the following tables indicate the change of status for support and values allowed of NWK layer information elements. The support of each information element itself is dependent on the support of the information element in each particular message as stated in subclause A.2.2.

## A.2.3.1 Fixed length information element support

Table A.43: ETS 300 474-2 [9] Table A.60: Type of service class in basic service supported

Item	Type of service class in basic service supported	Profile reference	Profile status ARI-D
2	Basic service "Internal call set-up"	-	i
3	Basic service "Emergency call set-up"		m
4	Basic service "Service call set-up"	-	i
5	Basic service "External handover call set-up"	6.1.6.2.21	m

Table A.44: ETS 300 474-2 [9] Table A.61: Basic service - Normal call set-up supported

Item	Basic service - Normal call set-up Name of field	Profile reference	Profile status ARI-D	Profile value allowed
3	Basic service	6.1.8.1.20, 6.1.8.2.18	See table A.2	'0100'B

Table A.45: ETS 300 476-4 [5] Table A.139: Basic service - Emergency call set-up supported

Item	Basic service - Emergency call set-up Name of field	Profile reference	Profile status ARI-D	Profile value allowed
2	Call class	6.1.8.2.16, 6.1.8.2.19	m	'1010'B
3	Basic service	6.1.8.1.20, 6.1.8.2.18	m	'0100'B

Table A.46: ETS 300 476-4 [5] Table A.141: Basic service - External handover call set-up supported

Item	Basic service - External handover call set-up Name of field	Profile reference	Profile status ARI-D	Profile value allowed
2	Call class	6.1.6.2.21	m	'1100'B
3	Basic service	6.1.8.1.21	m	'0100'B

Table A.47: ETS 300 474-2 [9] Table A.66: Release-reason supported

Item	Release-reason Name of field	Profile reference	Profile status ARI-D	Profile value allowed
2	Release reason code	6.1.8.1.23, 6.1.8.2.23	See table A.2	00H, 06H, 0FH, 10H, 11H, 12H, 14H, 15H, 18H, 34H

Table A.48: ETS 300 474-2 [9] Table A.67: Signal supported

Item	Signal Name of field	Profile reference	Profile status ARI-D	Profile value allowed
2	Signal value	6.1.8.1.24	See table A.2	'00000000'B .. '00001000'B, '00111111'B, '01001111'B

**A.2.3.2 Variable length information element supported**

**Table A.49: ETS 300 474-2 [9] Table A.69: Auth-type supported**

Item	Auth-type Name of field	Profile reference	Profile status ARI-D	Profile value allowed
3	Authentication algorithm identifier	6.1.2.1, 6.1.7.1.3	See table A.2	'01000000'B,
5	Authentication key type	6.1.2.1, 6.1.7.1.3	See table A.2	'0001'B
6	Authentication key number	6.1.2.1, 6.1.7.1.3	See table A.2	'0000'B
7	INCrement bit	6.1.2.1, 6.1.7.1.3	See table A.2	'0'B
9	TXC bit	6.1.2.1, 6.1.7.1.3	See table A.2	'0'B
10	UPC bit	6.1.2.1, 6.1.7.1.3	See table A.2	'1'B
11	Cipher key number	6.1.8.1.10	See table A.2	'0000'B .. '0110'B

**Table A.50: ETS 300 476-4 [5] Table A.211: Called party number supported**

Item	Called party number Name of field	Profile reference	Profile status ARI-D	Profile value allowed
4	Number type	6.1.8.2.21	See table A.2	'000'B .. '011'B
5	Numbering plan identification	6.1.8.2.22	See table A.2	'0000'B, '0001'B, '0011'B, '1000'B, '1001'B, '1111'B
6	Called party address (group of octets)	6.1.7.2.11	See table A.2	See table A.2

**Table A.51: ETS 300 476-4 [5] Table A.70: Cipher info supported**

Item	Cipher info Name of field	Profile reference	Profile status ARI-D	Profile value allowed
4	Cipher algorithm identifier	6.1.2.6	See table A.2	'0000001'B
6	Cipher key type	6.1.2.6	See table A.2	'1001'B
7	Cipher key number	6.1.8.2.13	See table A.2	'0000'B .. '0110'B

**Table A.52: ETS 300 474-2 [9] Table A.71: Class Fixed identity supported**

Item	Class Fixed identity	Profile reference	Profile status ARI-D
1	Fixed identity class A	5.4.1	i
2	Fixed identity class B	5.4.1	i
3	Fixed identity class C	5.4.1	i
4	Fixed identity class D	5.4.1	m

**Table A.53: ETS 300 476-4 [5] Table A.245: Fixed identity "ARI Class D" or "PARK Class D" supported**

Item	Fixed identity "ARI Class D" or "PARK Class D" Name of field	Profile reference	Profile status ARI-D	Profile value allowed
9	ARD-GOP		See table A.2	len_b: 20 val: GSM specific
10	ARD-FPN		See table A.2	len_b: 8 val: 1 - 255

Table A.54: ETS 300 476-4 [5] Table A.249: Fixed identity ARI+RPN Class D supported

Item	Fixed identity ARI+RPN Class D Name of field	Profile reference	Profile status ARI-D	Profile value allowed
8	ARC		See table A.2	'011'B
9	ARD-GOP		See table A.2	len_b: 20 val: GSM specific
10	ARD-FPN		See table A.2	len_b: 8 val: 1 - 255
11	RPN		See table A.2	len_b: 8 val: 0 .. 255

Table A.55: ETS 300 474-2 [9] Table A.72: Identity type supported

Item	Identity type	Profile reference	Profile status ARI-D
1	Identity type "Portable identity"	6.1.8.1.12	See table A.2
2	Identity type "NWK assigned identity"	6.1.8.1.12	m
3	Identity type "Fixed identity"	-	i

Table A.56: ETS 300 476-4 [5] Table A.251: Identity type Portable identity supported

Item	Identity type Portable identity Name of field	Profile reference	Profile status ARI-D	Profile value allowed
7	Type	6.1.8.1.13	See table A.2	'0000000'B, '0010000'B

Table A.57: ETS 300 476-4 [5] Table A.252: Identity type NWK assigned identity supported

Item	Identity type NWK assigned identity Name of field	Profile reference	Profile status ARI-D	Profile value allowed
7	Type	6.1.8.1.13	See table A.2	'1110100'B

Table A.58: ETS 300 474-2 [9] Table A.73: Info type supported

Item	Identity type NWK assigned identity Name of field	Profile reference	Profile status ARI-D	Profile value allowed
4	Parameter coding	6.1.2.1, 6.1.2.3	See table A.2	'0000000'B, '0000100'B

Table A.59: ETS 300 476-7 [8] Table A.74: Location area info types supported

Item	Location area info types supported	Profile reference	Profile status ARI-D
1	Location area "No ELI"	6.1.2.3	c5901
2	Location area "With ELI no GSM info indicated"	6.1.7.1.4, 6.1.7.2.3	m
3	Location area "With ELI GSM info indicated"	6.1.7.1.4, 6.1.7.2.3	m

c5901: IF A.8/6 THEN m ELSE I



**Table A.60: ETS 300 476-4 [5] Table A.263: Location area With ELI GSM info included supported**

Item	Location area With ELI GSM info included Name of field	Profile reference	Profile status ARI-D	Profile value allowed
3	Location Information (LI) type	6.3.2.3	See table A.2	'11'B
5	Extended Location Information (ELI) type coding	6.3.2.3	m	'1111'B
6	MCC digit 3 (GSM)	6.1.8.1.11, 6.1.8.2.12	See table A.2	'0000'B .. '1001'B
7	MCC digit 2 (GSM)	6.1.8.1.11, 6.1.8.2.12	See table A.2	'0000'B .. '1001'B
8	MCC digit 1 (GSM)	6.1.8.1.11, 6.1.8.2.12	See table A.2	'0000'B .. '1001'B
9	MNC digit 2 (GSM)	6.1.8.1.11, 6.1.8.2.12	See table A.2	'0000'B .. '1001'B, '1111'B
10	MNC digit 1 (GSM)	6.1.8.1.11, 6.1.8.2.12	See table A.2	'0000'B .. '1001'B
11	LAC (GSM)	6.1.8.1.11, 6.1.8.2.12	See table A.2	00H .. FFH
12	LAC (continue) (GSM)	6.1.8.1.11, 6.1.8.2.12	See table A.2	00H .. FFH
13	CI (GSM)	6.1.8.1.11, 6.1.8.2.12	See table A.2	i
14	CI (continue) (GSM)	6.1.8.1.11, 6.1.8.2.12	See table A.2	i

**Table A.61: ETS 300 476-4 [5] Table A.265: Multi-keypad supported**

Item	Multi-keypad Name of field	Profile reference	Profile status ARI-D	Profile value allowed
3	Keypad information (group of octets)	6.1.7.2.12, 6.1.7.2.13	See table A.2	len_o: 1 .. 61 val: IA5 characters (20H .. 7FH)

**Table A.62: ETS 300 476-4 [5] Table A.266: Type of NWK assigned identity supported**

Item	Type of NWK assigned identity Identity name	Profile reference	Profile status ARI-D
1	GSM-TMSI	6.1.7.1.1	m
2	Proprietary	-	i

**Table A.63: ETS 300 476-4 [5] Table A.267: Network assigned identity GSM-TMSI supported**

Item	Network assigned identity GSM-TMSI Name of field	Profile reference	Profile status ARI-D	Profile value allowed
6	Length of identity value	6.1.7.1.1	See table A.2	32
7	TMSI value (Identity value)	6.1.2.3, 6.1.8.1.7, 6.1.8.2.11	See table A.2	len_o: 4 val: '00000000000000000000' 0000000000000000'B .. '11111111111111111111' 11111111111111110'B

Table A.64: ETS 300 474-2 [9] Table A.84: Type of portable identity supported

Item	Type of portable identity Identity name	Profile reference	Profile status ARI-D
1	IPEI	6.1.7.2.6, 6.1.8.2.15	See table A.2
2	IPUI-N	-	i
3	IPUI-S	-	i
4	IPUI-O	-	i
5	IPUI-T	-	i
6	IPUI-P	-	i
7	IPUI-Q	-	i
8	IPUI-U	-	i
9	IPUI-R	5.4.2, 6.1.8.2.15	m
10	TPUI-default	6.1.2.3, 6.1.2.5, 6.1.3	m
11	TPUI-assigned individual	6.1.2.3, 6.1.2.5, 6.1.3	o

Table A.65: ETS 300 476-4 [5] Table A.277 Portable identity - type of IPUI-R supported

Item	Portable identity - type of IPUI-R Name of field	Profile reference	Profile status ARI-D	Profile value allowed
7	Portable User Type (PUT)	6.1.8.2.8	See table A.2	'0100'B
8	PUN-IMSI	6.1.8.2.9	See table A.2	len_b: 60 val: 0 .. ((2**60)-1)

Table A.66: ETS 300 474-2 [9] Table A.85 Progress indicator supported

Item	Progress indicator Name of field	Profile reference	Profile status ARI-D	Profile value allowed
4	Coding standard	6.1.8.1.18	See table A.2	'00'B .. '10'B
6	Location	6.1.8.1.21	See table A.2	'0000'B .. '0010'B, '0100'B, '0101'B, '1010'B
8	Progress description	6.1.8.1.22	See table A.2	'0000001'B .. '0000100'B, '0001000'B

Table A.67: ETS 300 476-4 [5] Table A.290 Reject reason supported

Item	Reject reason Name of field	Profile reference	Profile status ARI-D	Profile value allowed
3	Reject reason code	6.1.8.1.17, 6.1.8.1.26	See table A.2	02H, 06H, 08H, 0AH, 0FH, 34H, 76H, 80H

#### A.2.4 GAP specific

To express the profile requirements of ETS 300 370 [4], the following table indicates the change of status for support of GAP specific requirements.

##### A.2.4.1 General requirements

**Table A.68: ETS 300 474-2 [9] Table B.11 General requirements supported**

Item	Requirement	Profile reference	Profile status ARI-D
1	Transaction identifier assignment	6.1.8.1.2	See table A.2
2	Length of NWK layer message	6.1.1.9	i

##### A.2.4.2 Application features

**Table A.69: ETS 300 474-2 [9] Table B.12 Application features supported**

Item	Name of feature	Profile reference	Profile status ARI-D
1	AC_bitstring_mapping	-	i

##### A.2.4.3 Management procedures

**Table A.70: ETS 300 474-2 [9] Table B.14 Management procedure support**

Item	Name of procedure	Profile reference	Profile status ARI-D
1	Location registration initiation	-	i
5	Storage of subscription related data	-	i
6	DCK management	-	i

## **Annex B (normative): DECT/GSM IWP Profile specific ICS proforma for FT**

Notwithstanding the provisions of the copyright clause related to the text of this ETS, ETSI grants that users of this ETS may freely reproduce the ICS proforma in this annex so that it can be used for its intended purposes and may further publish the completed ICS.

### **B.1 Introduction for completing the Profile specific ICS proforma**

#### **B.1.1 Purposes and structure**

The purpose of this Profile specific ICS proforma is to provide a mechanism whereby a supplier of an implementation of the PT specific requirements of ETS 300 370 [4] may provide information about the implementation in a standardized manner.

The Profile-specific ICS proforma is subdivided into subclauses for the following categories of information:

- instructions for completing the ICS proforma;
- identification of the implementation;
- identification of ETS 300 370 [4];
- ICS proforma tables:
  - global statement of conformance;
  - functional groups and procedures;
  - timers and protocol parameters;
  - messages;
  - information elements;
  - negotiation capabilities;
  - protocol error handling;
  - multilayer dependencies.

The ICS proforma contained in this annex is comprised of information in tabular form in accordance with the guidelines presented in ISO/IEC 9646-7 [11].

#### **Item column**

The item column contains a number which identifies the item in the table.

#### **Item description column**

The item description column describes in free text each respective item (e.g. parameters, timers, etc.). It implicitly means "is <item description> supported by the implementation?".

### Status column

The following notations, defined in ISO/IEC 9646-7 [11], are used for the status column:

m or M	mandatory - the capability is required to be supported.
o or O	optional - the capability may be supported or not.
n/a or N/A	not applicable - in the given context, it is impossible to use the capability.
x or X	prohibited (excluded) - there is a requirement not to use this capability in the given context.
o.i or O.i	qualified optional - for mutually exclusive or selectable options from a set. "i" is an integer which identifies a unique group of related optional items and the logic of their selection which is defined immediately following the table.
ci or Ci	conditional - the requirement on the capability ("m", "o", "x" or "n/a") depends on the support of other optional or conditional items. "i" is an integer identifying a unique conditional status expression which is defined immediately following the table or which is defined in the general condition table below.
i or I	out-of-scope - this capability is outside the scope of the given specification, and hence irrelevant and not subject to conformance testing. This status is in particular applicable for data fields which are reserved for future use. The structure of such fields has to be supported, but the value is undefined and thus to be ignored.

### Reference column

The reference column gives reference to ETS 300 370 [4], except where explicitly stated otherwise.

### Support column

The support column shall be filled in by the supplier of the implementation. The following common notations, defined in ISO/IEC 9646-7 [11], are used for the support column:

Y or y	supported by the implementation.
N or n	not supported by the implementation.
N/A, n/a or -	no answer required (allowed only if the status is n/a, directly or after evaluation of a conditional status).

In each context, the kind of "non-support" which is implemented at the receipt may be additionally indicated such as:

- Err the item is treated as a protocol error;
- lg the item is received and ignored (i.e. processed syntactically, but not semantically);
- rj the item is received and rejected.

NOTE: As stated in ISO/IEC 9646-7 [11], support for a PDU requires the ability to parse all valid parameters of that PDU. Supporting a PDU while having no ability to parse a valid parameter is non-conformant. Support for a parameter on a PDU means that the semantics of that parameter are supported.

### Values allowed column

The values allowed column contains the values or the ranges of values allowed.

### Values supported column

The values supported column shall be filled in by the supplier of the implementation. In this column, the values or the ranges of values supported by the implementation shall be indicated.

### Prerequisite line

A prerequisite line takes the form: Prerequisite: <predicate>.

A prerequisite line before a clause or table title indicates that the whole clause or the whole table is not required to be completed if the predicate is FALSE.

### B.1.2 Instructions for completing the Profile specific ICS

The supplier of the implementation shall complete the Profile specific ICS proforma in each of the spaces provided using the notation described in subclause B.1.1. Specific instruction is provided in the text which precedes each table.

## B.2 Identification of the implementation

### B.2.1 Date of statement

The supplier of the implementation shall enter the date of this statement in the box below.

**Table B.1: Date of statement**

Date of statement		
Day	Month	Year

### B.2.2 Identification of the implementation

The supplier of the implementation shall enter information necessary to uniquely identify the implementation and the system(s) in which it may reside, in the box below.

**Table B.2: Identification of implementation**

Identification of implementation	
Name of Implementation	
Name of System	International Portable Equipment Identity (IPEI) :

### B.2.3 Contact person

The supplier of the implementation shall provide information on whom to contact if there are any queries concerning the content of the ICS, in the box below.

**Table B.3: Contact person identification**

Contact person	
Name	
Address	
Phone No.	
Fax No.	

**B.2.4 Relationship with the System Conformance Statement (SCS)**

The supplier of the implementation shall provide information which describes the relationship between the Profile ICS and the system conformance statement for the system, in the box below.

**Table B.4: Relationship with SCS**

--

**B.3 Identification of the profile**

The supplier of the implementation shall enter the title, reference number and date of the publication of the ETS DECT Profile specification to which conformance is claimed, in the box below.

**Table B.5: Identification of protocol**

Identification of profile	
Title of specification	
Reference no.	
Date of Publication	

**B.3.1 Defect report numbers and amendments implemented**

The supplier of the implementation shall enter the reference number of implementation defect reports or corresponding amendment documents which modify the specification to ETS 300 370 [4], in the box below.

**Table B.6: Defect report and amendments number**

Modification of specification	
Defect report no.	Amendment no.

**B.3.2 Addenda implemented**

The supplier of the implementation shall enter the titles and the reference number of implemented addenda to ETS 300 370 [4], in the box below.

**Table B.7: Addenda implemented**

Addenda implemented	
Title	Reference no.

## B.4 Global statement of conformance

The supplier of the implementation shall state whether or not all mandatory capabilities are implemented for ETS 300 370 [4].

**Table B.8: Global statement of conformance**

Are all mandatory capabilities implemented?	
---	--

NOTE: Answering "No" to this question indicates non-conformance to the protocol specification. Non-supported mandatory capabilities are to be identified in the ICS, with an explanation of why the implementation is non-conforming.

## B.5 Capabilities

### B.5.1 NWK Profile-specific ICS proforma for FT

#### B.5.1.1 General requirements

The supplier of the implementation shall state the support of the implementation for all of the following general requirements as specified in ETS 300 370 [4].

**Table B.9: General requirements supported**

Item	Requirement	Profile reference	Profile status ARI-D	Support
1	Basic interworking rules	5.4.2	m	
2	Location area mapping	5.4.3	m	
3	Exception handling	6.1.5	m	
4	Connection type definitions	7.1	m	

**Table B.10: Broadcast attribute coding supported**

Item	Broadcast attribute coding	Profile reference	Profile status ARI-D	Profile value ARI-D allowed
1	a32 - ADPCM/G.721 Voice service	5.4.4	m	'1'B
2	a33 - GAP and/or PAP basic speech	5.4.4	m	'0'B
3	a34 - Non-voice circuit switched service	5.4.4	i	i
4	a35 - Non-voice packet switched service	5.4.4	i	i
5	a36 - Standard authentication required	5.4.4	i	i
6	a37 - Standard ciphering supported	5.4.4	m	"1'B
7	a38 - Location registration supported	5.4.4	m	'1'B
8	a39 - SIM services available	5.4.4	m	'1'B
9	a40 - Non-static Fixed Part (FP)	5.4.4	i	i
10	a41 - CISS services available	5.4.4	i	i
11	a42 - CLMS service available	5.4.4	i	i
12	a43 - COMS service available	5.4.4	i	i
13	a44 - Access rights requests supported	5.4.4	m	'0'B
14	a45 - External handover supported	5.4.4	m	'0'B, '1'B
15	a46 - Connection handover supported	5.4.4	m	'0'B, '1'B
16	a47 - Reserved	5.4.4	i	i



**B.5.1.2 Procedures**

The supplier of the implementation shall state the support of the implementation for all of the following procedures as specified in ETS 300 370 [4].

**Table B.11: DECT/GSM specific procedures supported**

Item	Procedures	Profile reference	Profile status ARI-D	Support
1	Normal location updating	6.1.2.3	m	
2	Periodic location updating	6.1.2.3	m	
3	Attach procedure	6.1.2.3	m	
4	CM service procedure	6.1.2.7	m	
5	CM service procedure abnormal cases	6.1.2.8	m	
6	Mapping of IPEI to IMEI	6.1.4	m	
7	Release procedures exceptional cases	6.1.1.8	m	
8	FP IWU U-plane procedure	6.2	m	
9	Derivation of DECT DCK	Annex A	m	
10	Deletion of the GSM Kc, CKSN, TMSI and LAI	Annex B	m	

**B.5.1.3 Multi-keypad**

If only ARI class-D supported, ETS 300 474-2 [9], tables A.76 to A.83 inclusive are not applicable.

**B.5.1.4 Mapping**

The supplier of the implementation shall state the support of the implementation for all of the mappings requirements as specified in ETS 300 370 [4].

## B.5.1.4.1 Messages

Table B.12: GSM to DECT messages mapping supported

Item	GSM message	DECT message	Profile reference	Profile status ARI-D	Support
1	AUTHENTICATION REQUEST	AUTHENTICATION REQUEST	6.1.6.1.1	m	
2	AUTHENTICATION REJECT	MM-INFO-SUGGEST	6.1.6.1.2	m	
3	IDENTITY REQUEST	IDENTITY REQUEST	6.1.6.1.3	m	
4	TMSI REALLOCATION COMMAND	TEMPORARY IDENTITY ASSIGN	6.1.6.1.4	m	
5	CIPHER MODE COMMAND	CIPHER REQUEST	6.1.6.1.5	m	
6	LOCATION UPDATING ACCEPT	LOCATE ACCEPT	6.1.6.1.6	m	
7	LOCATION UPDATING REJECT	LOCATE REJECT	6.1.6.1.7	m	
8	CM SERVICE REJECT	CC-RELEASE-COM	6.1.6.1.15	m	
9	ABORT	CC-RELEASE-COM	6.1.6.1.16	m	
10	CM SERVICE ACCEPT	CC-SETUP-ACK	6.1.6.1.25	m	
11	ALERTING	CC-ALERTING	6.1.6.1.8	m	
12	CALL PROC	CC-CALL-PROC	6.1.6.1.9	m	
13	CONNECT	CC-CONNECT	6.1.6.1.10	m	
14	DISCONNECT	CC-RELEASE	6.1.6.1.12	m	
15	RELEASE	CC-RELEASE-COM	6.1.6.1.13	m	
16	RELEASE-COMPLETE	CC-RELEASE-COM	6.1.6.1.14	m	
17	SETUP	CC-SETUP	6.1.6.1.11	m	
18	CONNECT ACKNOWLEDGE	CC-CONNECT-ACK	6.1.6.1.17	m	
19	PROGRESS	CC-INFO	6.1.6.1.18	m	
20	PROGRESS	CC-NOTIFY	6.1.6.1.19	m	
21	DISCONNECT	CC-INFO	6.1.6.1.20	m	
22	RELEASE	CC-RELEASE	6.1.6.1.21	m	
23	START-DTMF-ACK	CC-INFO	6.1.6.1.22	o	
24	START-DTMF-REJECT	CC-INFO	6.1.6.1.23	o	
25	STOP-DTMF-ACK	CC-INFO	6.1.6.1.24	o	
26	STOP-DTMF-ACK	CC-SETUP-ACK	6.1.6.1.25	m	
27	HANDOVER COMMAND	MM-INFO-ACCEPT	6.1.6.1.26	m	
28	CLEAR COMMAND	CC-RELEASE	6.1.6.1.27	m	
29	HANDOVER REQUIRED REJECT	MM-INFO-REJECT	6.1.6.1.28	m	
30	HANDOVER COMMAND	MM-INFO-SUGGEST	6.1.6.1.29	m	
31	NOTIFY	CC-INFO	6.1.6.1.30	m	

Table B.13: DECT to GSM messages mapping supported

Item	DECT message	GSM message	Profile reference	Profile status ARI-D	Support
1	LOCATE-REQUEST	LOCATION -UPDATING-REQUEST	6.1.6.2.1	m	
2	LCE-PAGE-RESPONSE	PAGING-RESPONSE	6.1.6.2.2	m	
3	AUTHENTICATION-REPLY	AUTHENTICATION RESPONSE	6.1.6.2.3	m	
4	DETACH	IMSI DETACH INDICATION	6.1.6.2.4	m	
5	TEMPORARY-IDENTITY-ASSIGN-ACK	TMSI REALLOCATION COMPLETE	6.1.6.2.5	m	
6	CC-SETUP	CM SERVICE REQUEST	6.1.6.2.6	m	
7	IDENTITY-REPLY	IDENTITY RESPONSE	6.1.6.2.7	m	
8	CC-ALERTING	ALERTING	6.1.6.2.8	m	
9	CC-CONNECT	CONNECT	6.1.6.2.9	m	
10	CC-INFO (F-02)	SETUP	6.1.6.2.10	m	
11	CC-RELEASE	DISCONNECT	6.1.6.2.11	m	
12	CC-RELEASE	RELEASE	6.1.6.2.12	m	
13	CC-RELEASE-COM	RELEASE	6.1.6.2.13	m	
14	CC-RELEASE-COM	RELEASE-COMPLETE	6.1.6.2.14	m	
15	CC-SETUP	SETUP	6.1.6.2.15	m	
16	CC-SETUP	EMERGENCY SETUP	6.1.6.2.16	m	
17	CC-RELEASE	CM SERVICE ABORT	6.1.6.2.17	m	
18	CC-INFO	START-DTMF	6.1.6.2.18	m	
19	CC-INFO	STOP-DTMF	6.1.6.2.19	m	
20	MM-INFO-REQUEST	HANDOVER REQUIRED	6.1.6.2.20	m	
21	CC-SETUP	HANDOVER DETECT	6.1.6.2.21	m	
22	CC-CONNECT-ACK	HANDOVER COMPLETE	6.1.6.2.22	m	
23	MM-INFO-REQUIRED	HANDOVER FAILURE	6.1.6.2.23	m	

**B.5.1.4.2 Information elements**

The supplier of the implementation shall state whether the implementation supports the mapping between each particular GSM information element to its corresponding DECT information element or visa versa. If the exact mapping is not defined and it is stated as "i" in ETS 300 370 [4] an "m" in column "Profile status ARI-D" in this subclause means that the implementation maps the particular information elements, but how - it is application specific.

**Table B.14: GSM to DECT information element mapping supported**

Item	GSM information element	DECT information element	Profile reference	Profile status ARI-D	Support
1	Protocol discriminator	Protocol discriminator	6.1.8.1.1	m	
2	Transaction identifier	Transaction identifier	6.1.8.1.2	m	
3	Skip indicator	Transaction identifier	6.1.8.1.24	m	
4	Message type	Message type	6.1.8.1.3	m	
5	Mobile identity	NWK assigned identity	6.1.7.1.1	m	
6	Auth. parameter RAND	RAND	6.1.7.1.2	m	
7	Cipher key sequence number	Auth type	6.1.7.1.3	m	
8	Location area identification	Location area	6.1.7.1.4	m	
9	Identity type	Identity type	6.1.7.1.5	m	
10	REJECT cause	Reject reason	6.1.7.1.6	m	
11	Bearer capabilities 1	Basic service	6.1.7.1.7	m	
12	Progress indicator	Progress indicator	6.1.7.1.8	m	
13	Cause	Release reason	6.1.7.1.9	m	
14	Reject cause	Release reason	6.1.7.1.10	m	
15	Signal	Signal	6.1.7.1.11	m	
16	Facility	Facility	6.1.6.1.8, 6.1.6.1.10, 6.1.6.1.12, 6.1.6.1.13, 6.1.6.1.14	m	
17	User-user	IWU to IWU	6.1.6.1.8, 6.1.6.1.10, 6.1.6.1.11, 6.1.6.1.12, 6.1.6.1.13, 6.1.6.1.14	m	
18	Calling party BCD number	Calling party number	6.1.6.1.11	m	
19	Calling party subaddress	IWU to IWU	6.1.6.1.11	m	
20	Called party BCD number	Called party number	6.1.6.1.11	m	
21	Called party subaddress	Called party subaddress	6.1.6.1.11	m	
22	Low layer compatibility	IWU to IWU	6.1.6.1.11	m	
23	Higher layer compatibility	IWU to IWU	6.1.6.1.11	m	
24	Keypad facility	Multi Display	6.1.7.1.12	m	
25	Cause	Multi Display	6.1.7.1.13	m	
26	Layer 3 Information	Fixed Identity	6.1.7.1.14	m	
27	Layer 3 Information	Network Parameter	6.1.7.1.15	m	
28	Notification Indicator	Multi Display	6.1.7.1.16	m	

Table B.15: DECT to GSM information element mapping supported

Item	DECT information element	GSM information element	Profile reference	Profile status ARI-D	Support
1	Protocol discriminator	Protocol discriminator	6.1.8.2.1	m	
2	Transaction identifier	Skip indicator	6.1.8.2.21	m	
3	Transaction identifier	Transaction identifier	8.1.8.2.2	m	
4	Message type	Message type	6.1.8.2.3	m	
5	Portable identity	Mobile identity	6.1.7.2.1	m	
6	Network assigned identity	Mobile identity	6.1.7.2.2	m	
7	Location area	Location area identification	6.1.7.2.3	m	
8	Cipher info	Cipher key sequence number	6.1.7.2.4	m	
9	RES	Auth. parameter SRES	6.1.7.2.5	m	
10	Portable identity	Mobile identity	6.1.7.2.6	m	
11	Basic service	CM service type	6.1.7.2.7	m	
12	Terminal capability	Mobile station classmark 2	6.1.2.3	m	
13	Basic service	Bearer capabilities	6.1.7.2.8	m	
14	Called party number	Called party BCD number	6.1.7.2.9	m	
15	Multi keypad	Called party BCD number	6.1.7.2.10	m	
16	Multi-keypad	Keypad facility	6.1.7.2.11	m	
17	Release reason	Cause	6.1.7.2.12	m	
18	Info Type	Cause	6.1.7.2.13	m	
19	IWU to IWU	User-user	6.1.6.2.8, 6.1.6.2.9, 6.1.6.2.11, 6.1.6.2.12, 6.1.6.2.13, 6.1.6.2.14	m	
20	Fixed Identity	Cell identifier list	6.1.6.2.20	m	

## History

Document history			
May 1996	Public Enquiry	PE 106:	1996-05-20 to 1996-09-13
January 1997	Vote	V 9711:	1997-01-14 to 1997-03-14