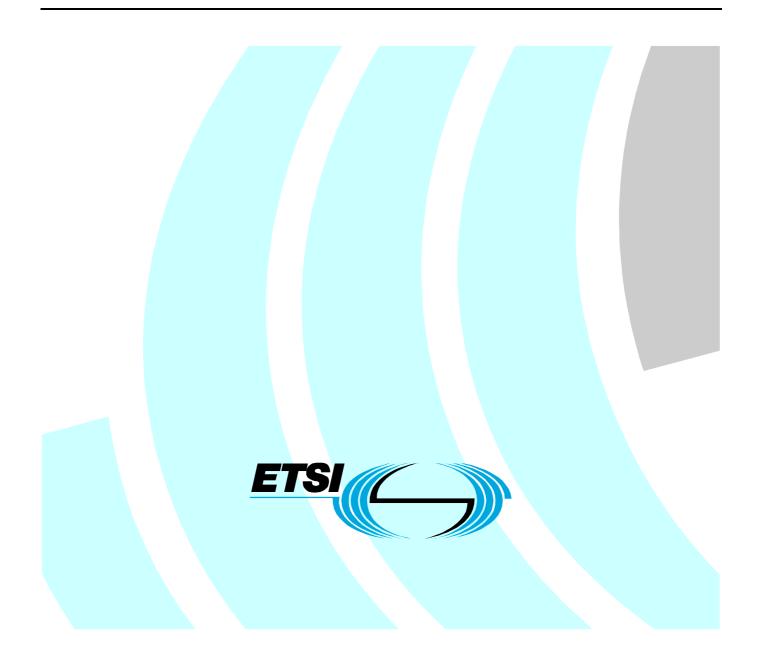
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Technical Specification

Broadband Radio Access Networks (BRAN); HIPERACCESS; Conformance testing for the Data Link Control (DLC) layer; Part 2: Test Suite Structure and Test Purposes (TSS&TP) specification



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Foreword

This Technical Specification (TS) has been produced by ETSI Project Broadband Radio Access Networks (BRAN).

The present document is part 2 of a multi-part covering Broadband Radio Access Networks (BRAN); HIPERACCESS; Data Link Control (DLC) layer as identified below:

Part 1: "Protocol Implementation Conformance Statement (PICS) proforma";

Part 2: "Test Suite Structure and Test Purposes (TSS&TP) specification";

Part 3: "Abstract Test Suite (ATS)".

1 Scope

The present document contains the Test Suite Structure (TSS) and Test Purposes (TP) to test the BRAN HIPERACCESS; Data Link Control (DLC) layer.

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

The ISO standard for the methodology of conformance testing (ISO/IEC 9646-1 [3] and ISO/IEC 9646-2 [4]) as well as the ETSI rules for conformance testing (ETS 300 406 [2]) are used as a basis for the test methodology.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication and/or edition number or version number) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.

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

[1]	ETSI TS 102 000: "Broadband Radio Access Networks (BRAN); HIPERACCESS; DLC protocol specification".
[2]	ETSI ETS 300 406: "Methods for Testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology".
[3]	ISO/IEC 9646-1: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts".
[4]	ISO/IEC 9646-2: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 2: Abstract test suite specification".
[5]	ISO/IEC 9646-6: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 6: Protocol profile test specification".
[6]	ISO/IEC 9646-7: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation conformance statement".

3 Definitions, symbols and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in ISO/IEC 9646-7 [6] and TS 102 000 [1] apply.

3.2 Symbols

For the purposes of the present document, the following symbol applies:

ms millisecond(s)

3.3 Abbreviations

For the purposes of the present document, the abbreviations defined in ISO/IEC 9646-1 [3], ISO/IEC 9646-6 [5], ISO/IEC 9646-7 [6], TS 102 000 [1] and the following apply:

AP	Access Point (= base station)
APC	AP Controller
APT	AP Transceiver
AT	Access Termination (= terminal = subscriber station)
ATPC	Automatic Transmit Power Control
ATTC	Automatic Transmit Time Control
BO	Inopportune Behaviour
BV	Valid Behaviour
CA	CApability test
C/I	carrier-to-interference power ratio
CE	Connection Establishment
CID	Connection ID
CM	Connection Modification
COC	COnnection Control
CT	Connection Termination
DES	Data Encryption Standard
DL	DownLink
DLC	Data Link Control (layer)
FS	Frequency Scanning
IA	Initial Authentication
ID	IDentity
INC	INitialization Control
IP	Internet Protocol
IUT	Implementation Under Test
KA	Key Allocation
KR	Key Refresh
KU	Keys Usage
LL	Leased Line
LS	Link Supervision
MAC	Medium Access Control
MC	Multicast
OC	Other Capabilities negotiation
PA	Parameters Acquisition
PDU	Protocol Data Unit
PHY	PHYsical (layer)
PICS	Protocol Implementation Conformance Statement
PN	Physical capabilities Negotiation
RA	RAnging
RE	Reauthentication
RF	Radio Frequency
RLC	Radio Link Control
RRC	Radio Resource Control
SA	Security Association
SAID	Security Association IDentity
SEC	SEcurity Control
SI	Slip Indicator
TD	Transmission Delay
TEK	Traffic Encryption Key
TI	Timer
TID	Terminal ID
TP	Test Purposes
TP	Time for Processing
TS	Technical Specification
TSS	Test Suite Structure
UL	UpLink

4 Test Suite Structure (TSS)

4.1 Structure

Figure 1 shows the RLC Test Suite Structure (TSS) including its subgroups defined for the conformance testing.

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Test Suite	Protocol group	Protocol subgroup
DLC-AP/ DLC-AT	Initialization Control	Frequency scanning
		Synchronization Acquisition
		APC Identification
		UL and DL Parameters Acquisition
		Ranging
		Physical Capabilities Negotiation
		Other Capabilities Negotiation
	Radio Resource Control	Link Supervision
		Change of PHY Mode, ATPC and ATTC
		Load Levelling
	Security Control	Initial Authentication
		Reauthentication
		Key Allocation
		Key Refresh
		Traffic Encryption Keys Usage
	Connection Control	Connection Establishment
		Connection Modification
		Connection Termination
		Multicast Connections

Figure 1: TSS for HIPERACCESS RLC

The test suite is structured as a tree with a first level defined as DLC-AP or DLC-AT representing the protocol groups "DLC for AP" and "DLC for AT".

4.2 Test groups

The test groups are organized in three levels. The first level creates three protocol groups representing the protocol services. The second level separates the protocol services in functional modules. The last level in each branch contains one or more of the standard ISO subgroups BV, TI, BO.

4.2.1 Protocol groups

The protocol groups identify the DLC services: Initialization control function, Radio resource control function, Security control and Connection control function, as defined in TS 102 000 [1].

4.2.1.1 Initialization control function

The initialization control function group is divided in seven functional modules. The first functional module identifies the Frequency scanning procedures. The second functional module identifies the Synchronization Acquisition procedures. The third functional module distinguishes the APC Identification procedures. The fourth functional module distinguishes the UL and DL Parameters Acquisition procedures. The fifth functional module identifies the Ranging procedures. The sixth functional module distinguishes the Physical Capabilities Negotiation procedures. The last functional module distinguishes the Other Capabilities Negotiation procedures.

4.2.1.2 Radio resource control function

The Radio resource control protocol group is divided in three functional modules. The first functional module distinguishes the Link Supervision procedures. The second functional module distinguishes the Change of PHY Mode, ATPC and ATTC procedures. The last functional module identifies the Load Levelling procedures.

4.2.1.3 Security control function

The Security control protocol group is divided in four functional modules. The first functional module contains the Initial Authentication procedures. The second functional module contains the Reauthentication procedures. The third functional module contains the Key Allocation procedures. The last functional module identifies the Key Refresh procedures.

4.2.1.4 Connection control function

The Connection control protocol group is divided in four functional modules. The first functional module identifies the Connection Establishment procedures. The second functional module identifies the Connection Modification procedures. The third functional module distinguishes the Connection Termination procedures. The last functional module distinguishes the Multicast Connections procedures.

4.2.2 Main test groups

The main test groups are the valid behaviour group, the invalid behaviour group and the inopportune behaviour group.

4.2.2.1 Valid Behaviour (BV) tests

This test sub group shall verify that the IUT reacts in conformity with the TS, after receipt or exchange of valid Protocol Data Units (PDUs). Valid PDUs means that the exchange of messages and the content of the exchanged messages are considered as valid.

4.2.2.2 Timer (TI) tests

This test sub group shall verify that the IUT reacts in conformity with the TS, after expiry of a defined timer.

4.2.2.3 Inopportune Behaviour (BO) tests

This test sub group shall verify that the IUT reacts in conformity with the TS, after receipt of a syntactically correct PDU not expected in the actual message exchange.

5 Test Purposes (TP)

5.1 Introduction

5.1.1 TP definition conventions

The TPs are defined following particular rules as shown in table 1.

Table 1: TP definition rules

TP Id according to the TP naming conventions	Reference. Initial condition. Stimulus. Expected behaviour.
TP ld	The TP Id is a unique identifier it shall be specified according to the TP naming conventions defined in the clause below.
Reference	The reference should contain the references of the subject to be validated by the actual TP (specification reference, clause, and paragraph).
Condition	The condition defines in which initial state the IUT has to be to apply the actual TP.
Stimulus	The stimulus defines the test event to which the TP is related.
Expected behaviour	Definition of the events that are expected from the IUT to conform to the base specification.

5.1.2 TP naming conventions

The identifier of the TP is built according to table 2.

Table 2: TP naming convention

Identifier:	TP/ <st>/<pg>/<fm>/<x>-<nnn></nnn></x></fm></pg></st>		
	<st> = side type</st>	AP	Access Point
		AT	Access Termination
	<pg> = protocol group</pg>	INC	INitialization Control function
		RRC	Radio Resource Control function
		SEC	SEcurity Control function
		COC	COnnection Control function
	<fm> = functional module</fm>	FS	Frequency Scanning
		SA	Synchronization Acquisition
		SI	APC Identification
		PA	UL and DL Parameters Acquisition
		RA	RAnging
		PN	Physical capabilities Negotiation
		OC	Other Capabilities negotiation
		LS	Link Supervision
		PT	Change of PHY Mode, ATPC and ATTC
		LL	Load Levelling
		IA	Initial Authentication
		RE	REauthentication
		KA	Key Allocation
		KR	Key Refresh
		KU	traffic encryption Keys Usage
		CE	Connection Establishment
		СМ	Connection Modification
		СТ	Connection Termination
		MC	Multicast Connections
	x = Type of testing	BV	Valid Behaviour tests
		TI	TImer tests
		BO	Inopportune Behaviour tests
	<nnn> = sequential number</nnn>	(000-999)	Test Purpose number

EXAMPLE: TP/AT/SEC/KU/BV-010 is the tenth purpose for the valid behaviour testing of the Key Usage procedures of the Security control function implemented at AT side.

5.1.3 Sources of TP definitions

All TPs are specified according to TS 102 000 [1].

5.2 Test purposes for AP

5.2.1 Initialization Control

5.2.1.1 Frequency scanning

TP/AP/INC/FS/BV-000	Reference: TS 102 000 [1], clause 5.2.3.
	Initial condition: IUT is the AP. Tester is the AT. The IUT has powered up and is operating.
	Check that: the IUT transmits, on the correct frequencies, frames with 1 ms fixed duration each
	containing a valid preamble of 32 symbols and a valid control zone.
	Final pseudo state: The IUT continues operating.

5.2.1.2 UL and DL Parameters Acquisition

TP/AP/INC/PA/BV-000	Reference: TS 102 000 [1], clause 10.3.4. Initial condition: IUT is the AP. Tester is the AT. The IUT has powered up and is operating.
	Check that: the IUT transmits GBI messages.
	Final pseudo state: The IUT continues operating.

5.2.1.3 Ranging

TP/AP/INC/RA/BV-000	Reference: TS 102 000 [1], clause 10.4.1. Initial condition: IUT is the AP. Tester is the AT. The IUT has transmitted GBI messages. The IUT has yet to start ranging. The IUT has the appropriate MAC address in its database. Check that: To start ranging, the IUT transmits a valid Ranging Invitation message with the most robust PHY mode. Final pseudo state: The IUT has started ranging.
TP/AP/INC/RA/BV-001	Reference: TS 102 000 [1], clause 10.4.1. Initial condition: IUT is the AP. Tester is the AT. The IUT has started ranging by transmitting a Ranging Invitation message. Check that: The IUT transmits a Ranging Grant in the same frame containing the Ranging Invitation message or in one of the following frames.
TP/AP/INC/RA/BV-002	 Reference: TS 102 000 [1], clause 10.4.1. Initial condition: IUT is the AP. Tester is the AT. The IUT has transmitted a Ranging Invitation message and a Ranging Grant in the same frame containing the Ranging Invitation message or in one of the following frames. Check that: After not receiving a Ranging Request response to the Ranging Grant, the IUT transmits additional Ranging Grants. NOTE: Ranging Invitation messages may be in the same frames as the additional Ranging Grants. This test ignores these Invitation messages.
TP/AP/INC/RA/BV-003	 Reference: TS 102 000 [1], clause 10.4.1. Initial condition: IUT is the AP. Tester is the AT. The IUT has transmitted a Ranging Invitation message and a Ranging Grant in the same frame containing the Ranging Invitation message or in one of the following frames. Check that: After not receiving a Ranging Request response pursuant to the Ranging Grant, 1) the IUT transmits additional valid Ranging Invitation messages and. 2) the time between transmission of each successive Ranging Invitation message shall be less than PeriodRangingInvitation. NOTE: Ranging Grants may be in the same frames as the additional Ranging Invitation messages. This test ignores these Ranging Grants.

TP/AP/INC/RA/BV-004	Reference: TS 102 000 [1], clause 10.4.1. Initial condition: IUT is the AP. Tester is the AT. The IUT has transmitted a Ranging Invitation message and a Ranging Grant in the same frame containing the Ranging Invitation message.
	OR The IUT has transmitted a Ranging Invitation message and then a Ranging Grant in a frame following that containing the Ranging Invitation message.
	Check that: After receiving a Ranging Request message pursuant to the Ranging Grant, the IUT transmits in a frame following this grant:
	 Either a valid Ranging Continue message, Or a valid Ranging Success message. Final pseudo state: The IUT continues ranging.
TP/AP/INC/RA/BV-005	Reference: TS 102 000 [1], clauses 8.7.4 and 10.4.1.
	Initial condition: IUT is the AP. Tester is the AT. The IUT has transmitted a Ranging Invitation message and a Ranging Grant in the same frame or a frame following the Ranging Invitation message. The IUT has then received a Ranging Request response pursuant to the Ranging
	Grant. It has then responded with a Ranging Continue message followed by another Ranging Grant in the tenth or a later frame following the frame containing Ranging Continue message. Check that: After not receiving a Ranging Request message pursuant to the latest Ranging Grant, the IUT transmits another Ranging Grant.
	Final pseudo state: The IUT continues ranging.
TP/AP/INC/RA/BV-006	Reference: TS 102 000 [1], clause 10.4.1. Initial condition: IUT is the AP. Tester is the AT. The IUT has transmitted a Ranging Invitation message and a Ranging Grant in the same frame or a frame following the Ranging Invitation
	message and a Ranging Grant in the same name of a frame following the Ranging invitation message. The IUT has then received a Ranging Request response pursuant to the Ranging Grant. It has then responded with a Ranging Continue message followed by another Ranging
	Grant in the tenth or a later frame following the frame containing the Ranging Continue message. Then, after not receiving a response pursuant to this latest Ranging Grant, the IUT
	transmits another Ranging Grant in a frame following that of the latest grant.
	Check that: After not receiving any response to each successive Ranging Grant, the IUT transmits another Ranging Grant in a following frame.
	Final pseudo state: The IUT continues ranging.
TP/AP/INC/RA/BV-007	Reference: TS 102 000 [1], clauses 8.7.4 and 10.4.1.
	Initial condition: IUT is the AP. Tester is the AT. The IUT has started ranging by transmitting a Ranging Invitation message and a Ranging Grant in the same frame or a frame following the
	Ranging Invitation message. The IUT has then received a Ranging Request response pursuant to the Ranging Grant. It has then responded with a Ranging Continue message. Check that: The IUT transmits a Ranging Grant in the tenth or a later frame following the frame containing the Ranging Continue message.
	Final pseudo state: The IUT continues ranging.
TP/AP/INC/RA/BV-008	Reference: TS 102 000 [1], clause 8.7.4 and 10.4.1.
	Initial condition: IUT is the AP. Tester is the AT. The IUT has started ranging by transmitting a Ranging Invitation message and a Ranging Grant. The IUT has received a Ranging Request response pursuant to the Ranging Grant and then ultimately responded with a Ranging
	Success message and a Ranging Grant in the tenth or a later frame following the frame containing the Ranging Success message.
	Check that: After not receiving a Ranging Ack message pursuant to the latest Ranging Grant, the IUT transmits another Ranging Grant in a following frame.
	Final pseudo state: The IUT continues ranging. NOTE: The IUT may have sent zero, one, or several Ranging Continue messages and one
	or more Ranging Grants before ultimately sending the Ranging Success message.
TP/AP/INC/RA/BV-009	Reference: TS 102 000 [1], clauses 8.7.4 and 10.4.1. Initial condition: IUT is the AP. Tester is the AT. The IUT has started ranging by transmitting a
	Ranging Invitation message and a Ranging Grant in the same frame or a frame following the Ranging Invitation message. The IUT has then received a Ranging Request response
	pursuant to the Ranging Grant. Ultimately, it has responded with a Ranging Success message.
	Check that: The IUT transmits a Ranging Grant in the tenth or a later frame following the frame
	containing the Ranging Success message.
	Final pseudo state: The IUT continues ranging. NOTE: The IUT may have sent zero, one, or several Ranging Continue messages and one
	or more Ranging Grants before ultimately sending the Ranging Success message.

	 Reference: TS 102 000 [1], clause 8.7.4 and 10.4.1. Initial condition: IUT is the AP. Tester is the AT. The IUT has started ranging by transmitting a Ranging Invitation message and a Ranging Grant in the same frame or a frame following the Ranging Invitation message. The IUT has then received a Ranging Request response pursuant to the Ranging Grant. Ultimately, it has responded with a Ranging Success message. Then, after not receiving a message pursuant to the latest Ranging Grant, the IUT transmits another Ranging Grant in a following frame. Check that: After not receiving any response to each successive Ranging Grant, the IUT transmits another Ranging Grant in a following frame. Final pseudo state: The IUT remains in initialization. NOTE: The IUT may have sent zero, one, or several Ranging Continue messages and one or more Ranging Grants before ultimately sending the Ranging Success message.
	 Reference: TS 102 000 [1], clauses 8.7.4 and 10.4.1. Initial condition: IUT is the AP. Tester is the AT. The IUT has started ranging by transmitting a Ranging Invitation message and a Ranging Grant. The IUT has then received a Ranging Request response and responded with a Ranging Continue message and a Ranging Grant 10 or more frames after that containing the Ranging Continue message. Check that: After receiving another Ranging Request response pursuant to the Ranging Grant, the IUT transmits: Either a valid Ranging Continue message and then a valid Ranging Grant in the tenth or following frame after that containing the Ranging Continue message. Or a valid Ranging Success message and then a valid Ranging Grant in the tenth or following frame after that containing the Ranging Success message. Final pseudo state: The IUT continues ranging.
TP/AP/INC/RA/BV-012	Reference: TS 102 000 [1], clauses 8.7.4 and 10.4.1. Initial condition: IUT is the AP. Tester is the AT. The IUT has started ranging by transmitting a Ranging Invitation message and a Ranging Grant. The IUT has then received a Ranging Request response. Transmission quality is sufficient for the IUT to transmit a Ranging Success message without the use of intervening Ranging Continue messages. Check that: The IUT transmits a valid Ranging Success message and a valid Ranging Grant in the tenth or following frame after that containing the Ranging Success message. Final pseudo state: The IUT waits a Ranging Ack to conclude ranging.
	 Reference: TS 102 000 [1], clauses 8.7.4 and 10.4.1. Initial condition: IUT is the AP. Tester is the AT. The IUT has started ranging and has ultimately transmitted a Ranging Success message followed by a Ranging Grant in the tenth or following frame after that containing the Ranging Success message. Check that: Upon receiving a Ranging Request message pursuant to the latest grant, the IUT transmits: Either a valid Ranging Continue message and a Ranging Grant in the tenth or following frame after that containing the Ranging Continue message. Or a valid Ranging Success message and a Ranging Grant in the tenth or following frame after that containing the Ranging Continue message. Or a valid Ranging Success message and a Ranging Grant in the tenth frame or following frame after that containing the Ranging Success message. Final pseudo state: The IUT continues ranging. NOTE: The IUT may have sent zero, one, or several Ranging Continue messages and one or more Ranging Grants before ultimately sending the first Ranging Success message.
	 Reference: TS 102 000 [1], clause E.3.1. Initial condition: IUT is the AP. Tester is the AT. The IUT has started ranging and has ultimately transmitted a Ranging Success message and a Ranging Grant in the tenth or following frame after that containing the Ranging Success message. Check that: Upon receiving a valid Ranging Ack message; 1) Either the IUT starts T_RangingAck and does not transmit any messages or any type of grants during this timer's duration. 2) Or the IUT transmits a valid Ranging Success message and a Ranging Grant in the tenth or following frame after that containing the Ranging Success message and a Ranging Grant in the tenth or following frame after that containing the Ranging Success message. 3) Or the IUT transmits a valid Ranging Continue message and a Ranging Grant in the tenth or following frame after that containing the Ranging Continue message. Final pseudo state: Upon expiration of T_RangingAck, the IUT has completed initialization but is not yet operational. Upon sending either a Ranging Continue or Ranging Success message, the IUT continues ranging. NOTE: The IUT may have sent zero, one, or several Ranging Continue messages and one or more Ranging Grants before ultimately sending the first Ranging Success message.

5.2.1.4 Physical Capabilities Negotiation

5.2.1.5 Other Capabilities Negotiation

TP/AP/INC/OC/BV-000	Reference: TS 102 000 [1], clause 10.5.3.
	Initial condition: IUT is the AP. Tester is the AT. Authentication is required. The IUT has
	completed authentication. During authentication, at least one SAID required a TEK allocation.
	Check that: After expiration of the timer T_TekAllocation, the IUT transmits a valid Other
	Capabilities Request message.
	Final pseudo state: The IUT has begun other capabilities negotiation.
TP/AP/INC/OC/BV-001	Reference: TS 102 000 [1], clause 10.5.3.
	Initial condition: IUT is the AP. Tester is the AT. Authentication is required. The IUT has
	completed authentication. During authentication, no TEK allocation occurred.
	Check that: After expiration of the timer T_AuthReply, the IUT transmits a valid Other
	Capabilities Request message.
	Final pseudo state: The IUT has begun other capabilities negotiation.
TP/AP/INC/OC/BV-002	Reference: TS 102 000 [1], clause 10.5.3.
	Initial condition: IUT is the AP. Tester is the AT. Authentication is required. The IUT has
	completed Authentication and has transmitted a valid Other Capabilities Request message.
	Check that: Upon receiving a valid Other Capabilities Information message within the duration
	of timer T_OtherCapabilitiesReq, the IUT transmits a valid Other Capabilities Confirmation
	message.
	Final pseudo state: The IUT waits to complete other capabilities negotiation.
TP/AP/INC/OC/BV-003	Reference: TS 102 000 [1], clause 10.5.3.
	Initial condition: IUT is the AP. Tester is the AT. Authentication is required. The IUT has
	completed authentication, transmitted a valid Other Capabilities Request message, and started
	the timer T_OtherCapabilitiesReq.
	Check that: Upon expiration of T_OtherCapabilitiesReq without receiving an Other Capabilities
	Information message, the IUT retransmits a valid Other Capabilities Request message and
	restarts T_OtherCapabilitiesReq.
	Final pseudo state: The IUT continues other capabilities negotiation.
TP/AP/INC/OC/BV-004	Reference: TS 102 000 [1], clause 10.5.3.
	Initial condition: IUT is the AP. Tester is the AT. Authentication is required. The IUT has
	completed authentication, transmitted a valid Other Capabilities Request message, and started
	the timer T-OtherCapabilitiesReq.
	Check that: Upon successive transmissions of a valid Other Capabilities Request message
	and expirations of T_OtherCapabilitiesReq without receiving an Other Capabilities Information
	message in response, the IUT continues to retransmit a valid Other Capabilities Request
	message and to restart T_OtherCapabilitiesReq until an Other Capabilities Information
	message is ultimately received.
	Final pseudo state: The IUT continues other capabilities negotiation.
TP/AP/INC/OC/BV-005	Reference: TS 102 000 [1], clause 10.5.3.
	Initial condition: IUT is the AP. Tester is the AT. Authentication is required. The IUT has
	completed authentication, transmitted a valid Other Capabilities Request message, received a
	valid Other Capabilities Information message, and transmitted a valid Other Capabilities
	Confirmation message.
	Check that: The IUT starts the timer T_OtherCapabilitiesCnf and transmits no message during
	this timer's duration.
	Final pseudo state: The IUT continues other capabilities negotiation.
	NOTE: Other capabilities negotiation is complete if and only if the IUT does not receive an
	Other Capabilities Information message during this timer's duration.
TP/AP/INC/OC/BV-006	Reference: TS 102 000 [1], clause 10.5.3.
	Initial condition: IUT is the AP. Tester is the AT. Authentication is required. The IUT has
	completed authentication, transmitted a valid Other Capabilities Request message, received a
	valid Other Capabilities Information message, transmitted a valid Other Capabilities
	Confirmation message, and started the timer T_OtherCapabilitiesCnf.
	Check that: Upon reception of an Other Capabilities Information message during the duration
	of T_OtherCapabilitiesCnf, the IUT retransmits a valid Other Capabilities Confirmation
	message and restarts T_ OtherCapabilitiesCnf.
	Final pseudo state: The IUT continues other capabilities negotiation.
TP/AP/INC/OC/BV-007	Reference: TS 102 000 [1], clause 10.5.3.
	Initial condition: IUT is the AP. Tester is the AT. Authentication is required. The IUT has
	completed authentication, transmitted a valid Other Capabilities Request message, received a
	valid Other Capabilities Information message, transmitted a valid Other Capabilities
	Confirmation message, and started the timer T_ OtherCapabilitiesCnf.
	Check that: Each time the IUT receives an Other Capabilities Information message in the
	duration of T_ OtherCapabilitiesCnf, the IUT transmits a valid Other Capabilities Confirmation
	message and restarts T_ OtherCapabilitiesCnf.
	Final pseudo state: The IUT continues other capabilities negotiation.

TP/AP/INC/OC/BV-008	Reference: TS 102 000 [1], clause 10.5.3.
	Initial condition: IUT is the AP. Tester is the AT. Authentication is required. The IUT has
	completed authentication, transmitted a valid Other Capabilities Request message, received a
	valid Other Capabilities Information message, transmitted a valid Other Capabilities
	Confirmation message, and started the timer T_ OtherCapabilitiesCnf.
	Check that: After the timer expires and the IUT has not received any Other Capabilities
	Information message, the IUT considers other capabilities negotiation completed.
	Final pseudo state: The IUT has completed other capabilities negotiation and is now
	operational with regards to this AT.

5.2.2 Radio Resource Control

5.2.2.1 Link Supervision

TP/AP/RRC/LS/BV-000	Reference: TS 102 000 [1], clauses 11.2.2 and 10.4.1.
	Initial condition: AP is the IUT. The tester is the AT. The IUT has initialized and connected its
	peer.
	Check that: The IUT detects a link interruption; it irregularly transmits both
	RIcRangingInvitation messages and ranging grants to the Tester.
TP/AP/RRC/LS/BV-001	Reference: TS 102 000 [1], clause 11.2.2.
	Initial condition: AP is the IUT. The tester is the AT. The IUT has initialized and connected its
	peer. The Tester does not reply to the grants sent by the IUT.
	Check that: The IUT irregularly transmits both RIcRangingInvitation messages and ranging
	grants to the Tester.
TP/AP/RRC/LS/BV-002	Reference: TS 102 000 [1], clause 11.2.3.
	Initial condition: AP is the IUT. The tester is the AT. The IUT has initialized and connected its
	peer. The IUT has sent an RIcInitializationCmd message with InitialisationCmd equal to
	rejectedFromNetwork.
	Check that: The IUT gives no grants to the Tester after this command.
TP/AP/RRC/LS/BV-003	Reference: TS 102 000 [1], clause 11.2.3.
	Initial condition: AP is the IUT. The tester is the AT. The IUT has initialized and connected its
	peer. The IUT has sent an RIcInitializationCmd message with InitialisationCmd equal to
	rejectedFromChannel.
	Check that: The IUT gives no grants to the Tester after this command.
TP/AP/RRC/LS/BV-004	Reference: TS 102 000 [1], clause 11.2.3.
	Initial condition: AP is the IUT. The tester is the AT. The IUT has initialized and connected its
	peer. The IUT has sent an RIcInitializationCmd message with InitialisationCmd equal to
	firstInitialization.
	Check that: The IUT gives no grants to the Tester after this command except for ranging
	grants.
TP/AP/RRC/LS/BV-005	Reference: TS 102 000 [1], clause 11.2.3.
	Initial condition: AP is the IUT. The tester is the AT. The IUT has initialized and connected its
	peer. The IUT has sent an RIcInitializationCmd message with InitialisationCmd equal to transmissionStop.
	Check that: The IUT gives no grants to the Tester after this command except for ranging
	grants.
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5.2.2.2 Change of PHY Mode, ATPC and ATTC

TP/AP/RRC/PT/BV-000	Reference: TS 102 000 [1], clause 11.3.2. Initial condition: AP is the IUT. The tester is the AT. The IUT has initialized and connected its peer.
TP/AP/RRC/PT/BV-001	Check that: The IUT transmits at least every 50 ms to 200 ms an uplink grant. Reference: TS 102 000 [1], clause 11.3.3. Initial condition: AP is the IUT. The tester is the AT. The IUT has initialized and connected its peer. Check that: The IUT transmits an RIcMeasurementReportCriterium message to change the periodReportGeneral acquired in the GBI message or to stop the reporting.

TP/AP/RRC/PT/BV-002	Reference: TS 102 000 [1], clause 11.3.4. Initial condition: AP is the IUT. The tester is the AT. The IUT has initialized and connected its peer. The tester has transmitted an RIcMeasurementReportData message with valid new DownlinkPhyMode wanted. Check that: The IUT transmits an RIcDownlinkPhyModeChange message with the DownlinkPhyModeGranted parameter.
TP/AP/RRC/PT/BV-003	Reference: TS 102 000 [1], clause 11.3.4. Initial condition: AP is the IUT. The tester is the AT. The IUT has initialized and connected its peer. Conditions exist that cause AP to allocate another PHY mode region to AT. Check that: The IUT transmits an RIcDownlinkPhyModeChange message with the new highest DownlinkPhyMode.
TP/AP/RRC/PT/BV-004	Reference: TS 102 000 [1], clause 11.3.4. Initial condition: AP is the IUT. The tester is the AT. The IUT has initialized and connected its peer. Conditions exist that cause AP to allocate another PHY mode region to AT. The IUT has transmited an RlcDownlinkPhyModeChange message with the new DownlinkPhyMode. Check that: The IUT retransmits the RlcDownlinkPhyModeChange message if the timer T_DownlinkPhyModeChange expires.
TP/AP/RRC/PT/BV-005	Reference: TS 102 000 [1], clause 11.3.5. Initial condition: AP is the IUT. The tester is the AT. The IUT has initialized and connected its peer. Conditions exist that cause AP to adjust the uplink transmission power control. Check that: The IUT transmits an RIcUplinkCorrection message.
TP/AP/RRC/PT/BV-006	Reference: TS 102 000 [1], clause 11.3.5. Initial condition: AP is the IUT. The tester is the AT. The IUT has initialized and connected its peer. Conditions exist that cause AP to adjust the uplink transmission timing. Check that: The IUT transmits an RIcUplinkCorrection message.
TP/AP/RRC/PT/BV-007	Reference: TS 102 000 [1], clause 11.3.5. Initial condition: AP is the IUT. The tester is the AT. The IUT has initialized and connected its peer. Conditions exist that cause AP to adjust the uplink transmission power control. The IUT has transmited an RIcUplinkCorrection message. Check that: The IUT retransmits an RIcUplinkCorrection message if the timer T_UplinkCorrection expires.
TP/AP/RRC/PT/BV-008	Reference: TS 102 000 [1], clause 11.3.6. Initial condition: AP is the IUT. The tester is the AT. The IUT has initialized and connected its peer. The IUTthen transmits to the tester in a mode other than the most robust PHY mode and with power not high enough. Check that: The IUT implements the adaptive PHY mode procedure. Final pseudo state: The IUT has changed to a more viable PHY mode and continues transmitting at the same downlink power level.
TP/AP/RRC/PT/BV-009	Reference: TS 102 000 [1], clause 11.3.6. Initial condition: AP is the IUT. The tester is the AT. The IUT has initialized and connected its peer. The tester transmits to the tester in a mode other than the most robust PHY mode and with power not high enough. The IUT then implements the adaptive PHY mode procedure. The DL transmission power is still not high enough. Check that: The IUT increases its downlink transmit power. The power correction is applied immediately before the next downlink frame preamble. The power correction does not exceed 1 dB per 50 ms and 1 db per step. Final pseudo state: The IUT continues operating and transmits at the new power level.

5.2.2.3 Load Levelling (Inter-Carrier Handover)

TP/AP/RRC/LL/BV-000	Reference: TS 102 000 [1], clause 11.6.
	Initial condition: AP is the IUT. The tester is the AT. The IUT has initialized and connected its
	peer. The IUT has sent an RIcHandoverCmd message and has received an
	RICHandoverCmdAck message.
	Check that: The IUT starts initialization using the new APT.

5.2.3 Security Control

5.2.3.1 Initial Authentication

TP/AP/SEC/IA/BV-000	Reference: TS 102 000 [1], clause 12.2.1
	Initial condition: IUT is the AP. Tester is the AT. The IUT has completed physical capabilities
	negotiation. Phase 1 security measures are in effect. Other capabilities are to be negotiated.
	Check that: the IUT transmits a valid Other Capabilities Request message.
TP/AP/SEC/IA/BV-001	Reference: TS 102 000 [1], clause 12.3.2
	Initial condition: IUT is the AP. Tester is the AT. The IUT has completed physical capabilities
	negotiation. Phase 2 or 3 security measures are in effect.
	Check that: the IUT transmits a valid RIcAuthCertificateReq message.
TP/AP/SEC/IA/BV-002	Reference: TS 102 000 [1], clause 12.3.2
	Initial condition: IUT is the AP. Tester is the AT. The IUT has completed physical capabilities
	negotiation. Phase 2 or 3 security measures are in effect. The IUT has transmitted a valid
	RicAuthCertificateReq message and started T_AuthCertificateReq.
	Check that: After T_AuthCertificateReq expires, the IUT transmits another
	RicAuthCertificateReq message identical to the first.
TP/AP/SEC/IA/BV-003	Reference: TS 102 000 [1], clause 12.3.2
11 /AI /SEC/IA/BV-005	Initial condition: IUT is the AP. Tester is the AT. The IUT has completed physical capabilities
	negotiation. Phase 2 or 3 security measures are in effect. The IUT has transmitted a valid
	RicAuthCertificateReq message. The tester then transmits an RicAuthCertificateInfo message
	with an invalid certificate.
	Check that: the IUT transmits a valid RIcAuthReject message.
TP/AP/SEC/IA/BV-004	Reference: TS 102 000 [1], clause 12.3.2
11 /AI /SEC/IA/BV-004	Initial condition: IUT is the AP. Tester is the AT. The IUT has completed physical capabilities
	negotiation. Phase 2 or 3 security measures are in effect. The IUT has transmitted a valid
	RicAuthCertificateReq message. The tester then transmits an RicAuthCertificateInfo message
	with a valid certificate.
	Check that: the IUT transmits a valid RIcAuthKeyCmd message.
TP/AP/SEC/IA/BV-005	Reference: TS 102 000 [1], clause 12.3.2
TF/AF/SEC/IA/BV-005	Initial condition: IUT is the AP. Tester is the AT. The IUT has completed physical capabilities
	negotiation. Phase 2 or 3 security measures are in effect. The IUT has transmitted a valid
	RicAuthCertificateReq message. The tester then transmits an RicAuthCertificateInfo message
	with a valid certificate. The IUT then transmits an RIcAuthKeyCmd message and starts
	T_AuthKeyCmd.
	Check that: After T_ AuthKeyCmd expires, the IUT transmits another RIcAuthKeyCmd
	message identical to the first.
TP/AP/SEC/IA/BV-006	Reference: TS 102 000 [1], clause 12.3.2
TF/AF/SEC/IA/BV-000	Initial condition: IUT is the AP. Tester is the AT. The IUT has completed physical capabilities
	negotiation. Phase 2 or 3 security measures are in effect. The IUT has transmitted a valid
	RIcAuthCertificateReq message. The tester then transmits an RIcAuthCertificateInfo message with a valid certificate. The IUT then transmits an RIcAuthKeyCmd message. The tester then
	transmits an RicAuthKeyAck message with an invalid Hmac of Nonce.
	Check that: the IUT retransmit the RIcAuthKeyCmd message with the same parameters as the
	first message.

5.2.3.2 Reauthentication

TP/AP/SEC/RE/BV-000	Reference: TS 102 000 [1], clause 12.3.3 Initial condition: IUT is the AP. Tester is the AT. The IUT has completed initialization. Phase 2 or 3 security measures are in effect. Check that: to generate a new AuthKey, the IUT transmits a valid RIcAuthKeyCmd message.
TP/AP/SEC/RE/BV-001	Reference: TS 102 000 [1], clause 12.3.3 Initial condition: IUT is the AP. Tester is the AT. The IUT has completed initialization. Phase 2 or 3 security measures are in effect. The IUT has transmitted a valid RlcAuthKeyCmd message. The tester transmits no message for T_AuthKeyCmd duration. Check that: the IUT transmits another RlcAuthKeyCmd message with the same parameters as the first message.

TP/AP/SEC/RE/BV-002	Reference: TS 102 000 [1], clause 12.3.3
	Initial condition: IUT is the AP. Tester is the AT. The IUT has completed initialization. Phase 2
	or 3 security measures are in effect. The IUT has transmitted a valid RIcAuthKeyCmd
	message. The tester has then transmitted an RIcAuthKeyAck message with an invalid Hmac
	parameter.
	Check that: the IUT transmits another RIcAuthKeyCmd message with the same parameters as
	the first message.

5.2.3.3 Key Allocation

TP/AP/SEC/KA/BV-000	Reference: TS 102 000 [1], diagram 27, clause 12.4.4 Initial condition: IUT is the AP. Tester is the AT. The IUT has completed physical capabilities negotiation. Phase 2 or 3 security measures are in effect. The IUT has transmitted a valid RIcAuthCertificateReq message. The tester then transmits an RIcAuthCertificateInfo message with a valid certificate. The IUT then transmits an RIcAuthKeyCmd message. The tester then transmits an RIcAuthKeyAck message with a valid Hmac of Nonce. Thus, the Authentication Key is valid. Check that: the IUT transmits a valid RIcTekAllocationFirst message.
TP/AP/SEC/KA/BV-001	Reference: TS 102 000 [1], diagram 27, clauses 12.4.3 and 12.4.4 Initial condition: IUT is the AP. Tester is the AT. The IUT has completed physical capabilities negotiation. Phase 2 or 3 security measures are in effect. First Authentication is completed. The IUT has transmitted a valid RIcTekAllocationFirst message and started T_TekAllocationFirst. Check that: After T_TekAllocationFirst expires, the IUT transmits another RIcTekAllocationFirst message with the same parameters as the first.
TP/AP/SEC/KA/BV-002	Reference: TS 102 000 [1], clause 12.4.4 Initial condition: IUT is the AP. Tester is the AT. The IUT has completed physical capabilities negotiation. Phase 2 or 3 security measures are in effect. First Authentication is completed. The IUT has transmitted a valid RIcTekAllocationFirst message and started T_TekAllocationFirst. The tester than transmits a valid RIcTekAllocationFirstAck message. Check that: the IUT stops T_TekAllocationFirst and transmits a valid RIcTekAllocationFirstTimerStop message. Post condition: First Tek Allocation is complete.
TP/AP/SEC/KA/BV-003	Reference: TS 102 000 [1], clause 12.4.4 Initial condition: IUT is the AP. Tester is the AT. The IUT has completed physical capabilities negotiation. Phase 2 or 3 security measures are in effect. First Authentication is completed. The IUT has transmitted a valid RIcTekAllocationFirst message and started T_TekAllocationFirst The tester than transmits a RIcTekAllocationFirstAck message with an invalid Hmac of a Nonce. Check that: the IUT restarts T_TekAllocationFirst and transmits another valid RIcTekAllocationFirst message with the same parameters as the first.

5.2.3.4 Key Refresh

TP/AP/SEC/KR/BV-000	Reference: TS 102 000 [1], diagram 26, clause 12.4.3
	Initial condition: IUT is the AP. Tester is the AT. The IUT has completed initialization. A
	connection has been setup and data has been exchanged on the connection. Phase 2 or 3
	security measures are in effect.
	Check that: To refresh a Tek, the IUT transmits a valid RIcTekAllocationRefresh message.
TP/AP/SEC/KR/BV-001	Reference: TS 102 000 [1], diagram 26, clause 12.4.3
	Initial condition: IUT is the AP. Tester is the AT. The IUT has completed initialization. A
	connection has been setup and data has been exchanged on the connection. Phase 2 or 3
	security measures are in effect. To refresh a Tek, the IUT has transmitted a valid
	RIcTekAllocationRefresh message and has started T_TekAllocationRefresh.
	Check that: After T_TekAllocationRefresh expires, the IUT transmits another valid
	RIcTekAllocationRefresh message identical to the first.
TP/AP/SEC/KR/BV-002	Reference: TS 102 000 [1], diagram 26, clause 12.4.3
	Initial condition: IUT is the AP. Tester is the AT. The IUT has completed initialization. A
	connection has been setup and data has been exchanged on the connection. Phase 2 or 3
	security measures are in effect. To refresh a Tek, the IUT has transmitted a valid
	RIcTekAllocationRefresh message. The tester has then transmitted an
	RIcTekAllocationRefreshAck message with an invalid Hmac.
	Check that: the IUT transmits another valid RIcTekAllocationRefresh message with the same
	parameters as the first.

TP/AP/SEC/KR/BV-003	Reference: TS 102 000 [1], clause 12.4.7
	Initial condition: IUT is the AP. Tester is several ATs. The IUT has completed physical
	capabilities negotiation. Phase 3 security measures are in effect. Initialization is completed. A
	multicast connection is set up. Encrypted DL data PDUs have been sent. To refresh the Teks
	currently at EKSn and (TEK,IVP)n.
	Check that: the IUT transmits an RIcTekAllocationRefresh message to each AT in the
	multicast.group.
TP/AP/SEC/KR/BV-004	Reference: TS 102 000 [1], clause 12.4.3
	Initial condition: IUT is the AP. Tester is the AT. The IUT has completed initialization. A
	connection has been setup. Phase 2 or 3 security measures are in effect.
	Check that: the next TEK refresh procedure shall not be performed by the IUT before at least
	one MAC data PDU in the UL direction using TEKn is received by the IUT.

5.2.3.5 Traffic Encryption Keys Usage

TP/AP/SEC/KU/BV-000	Reference: TS 102 000 [1], clause 12.4.6
	Initial condition: IUT is the AP. Tester is the AT. The IUT has initialized and connected its
	peer. Phase 1 security measures are in effect.
	Check that: to change encryption keys from (TEK, IVP)n to (TEK, IVP)n+1, the IUT places
	EKSn+1 modulo 4 in a DL frame.
TP/AP/SEC/KU/BV-001	Reference: TS 102 000 [1], clause 12.4.6
	Initial condition: IUT is the AP. Tester is multiple ATs. The IUT has initialized and connected
	its peers. Phase 1 security measures are in effect. The IUT has changed encryption keys by
	placing EKSn+1 modulo 4 in DL frames. As one or several ATs, the tester transmits encrypted
	data UL PDUs according to EKSn modulo 4. And, as the remaining ATs, the tester transmits
	encrypted data UL PDUs according to EKSn+1 modulo 4.
	Check that: the IUT successfully decodes all UL data PDUs according to the EKS in the uplink
	frame.
TP/AP/SEC/KU/BV-002	Reference: TS 102 000 [1], clause 12.4.6
	Initial condition: IUT is the AP. Tester is multiple ATs. The IUT has initialized and connected
	its peers. Phase 1 security measures are in effect.
	Check that: The IUT commands the TEK exchanges for the DL by switching EKS for all its
	peers at the same time.
TP/AP/SEC/KU/BV-003	Reference: TS 102 000 [1], clause 12.4.4
	Initial condition: IUT is the AP. Tester is the AT. The IUT has initialized and connected its
	peer. Phase 2 security measures are in effect. EKSn modulo 4 and (TEK, IVP)n modulo 4 are
	in use for encrypting DL data PDUs. EKSn+1 modulo 4 and (TEK, IVP)n+1 modulo 4 are in
	use for encrypting UL data PDUs.
	Check that: to change encryption keys, the IUT uses EKSn+1 modulo 4 and (TEK, IVP)n+1
	modulo 4 for encrypting DL data PDUs.
	And, that the IUT continues to decrypt UL messages using the same keys as before; i.e.
	EKSn+1 modulo 4 and (TEK, IVP)n+1.
TP/AP/SEC/KU/BV-004	Reference: TS 102 000 [1], clause 12.4.4
	Initial condition: IUT is the AP. Tester is the AT. The IUT has initialized and connected its
	peer. Phase 2 security measures are in effect. To change encryption keys, the IUT is using
	EKSn+1 modulo 4 and (TEK, IVP)n+1 modulo 4 for encrypting DL data PDUs. The.
	RIcTekAllocationRefresh procedure has succeeded.
	Check that: the IUT continues to use EKSn+1 modulo 4 and (TEK, IVP)n+1 modulo 4 for
	encrypting DL data PDUs,
	And, that the IUT continues to decrypt UL messages using the same keys as before; i.e.
	EKSn+1 modulo 4 and (TEK, IVP)n+1 until the UL EKS changes to n+2.
	And, that when the UL EKS changes to n+2, IUT decrypts UL messages using the new key;
	i.e. EKSn+2 modulo 4 and (TEK, IVP)n+2.
TP/AP/SEC/KU/BV-005	Reference: TS 102 000 [1], clause 12.4.7
	Initial condition: IUT is the AP. Tester is several ATs. The IUT has completed physical
	capabilities negotiation. Phase 3 security measures are in effect. Initialization is completed. A
	multicast connection is set up. Encrypted DL data PDUs have been sent. To refresh the Teks
	currently at EKSn and (TEK,IVP)n, the IUT has transmitted an RIcTekAllocationRefresh
	message to each AT in the multicast.group.
	Check that: the IUT directs the use of the new EKSn+1 and corresponding (TEK, IVP)n+1 only
	after having received RIcTekAllocationRefreshAck from each AT in the multicast group.

5.2.4 Connection Control

5.2.4.1 Connection Establishment

5.2.4.1.1 AP Initiated Connection Establishment

TP/AP/COC/CE/BV-000	Reference: TS 102 000 [1], clause 13.4.2.2.
	Initial condition: IUT is the AP. Tester is the AT.
	IUT is initialized and operational.
	Check that: To establish a connection, the IUT sends a valid Connection Addition Setup
	message.
	Final pseudo state: The IUT is establishing a connection.
TP/AP/COC/CE/BV-001	Reference: TS 102 000 [1], clause 13.4.2.1.
	Initial condition: IUT is the AP. Tester is the AT. IUT is initialized and has transmitted a valid
	Connection Addition Setup message.
	Check that: Upon receiving a valid Connection Addition Ack message, the IUT:
	1) Starts T_RIcConnectionAdditionAck.
	2) Considers the connection established after T_RIcConnectionAdditionAck expires.
	Final pseudo state: The IUT is operational and the connection is established.
TP/AP/COC/CE/BV-002	Reference: TS 102 000 [1], clause 13.4.2.1.
	Initial condition: IUT is the AP. Tester is the AT.
	IUT is initialized, has sent a Connection Addition Setup message, and started
	T_RIcConnectionAdditionSetup.
	Check that: After T_RIcConnectionSetup expires without receiving a Connection Addition Ack
	message; the IUT retransmits another valid Connection Addition Setup message.
	Final pseudo state: The IUT is establishing a connection.
TP/AP/COC/CE/BV-003	Reference: TS 102 000 [1], clause 13.4.2.3.
	Initial condition: IUT is the AP. Tester is the AT.
	IUT is initialized, has sent a Connection Addition Setup message, and started
	T_RIcConnectionAdditionSetup.
	Check that: Each time T_RIcConnectionAdditionSetup expires without the IUT having
	received a Connection Addition Ack message, the IUT:
	1) Transmits another valid Connection Addition Setup message.
	And restarts T_RIcConnectionAdditionSetup upon sending this message.
	Final pseudo state: The IUT is establishing a connection.
	NOTE: The specification does not limit the number of times that this cycling can occur.

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5.2.4.1.2 AT Initiated Connection Establishment

TP/AP/COC/CE/BV-004	Reference: TS 102 000 [1], clause 13.4.2.1.
	Initial condition: IUT is the AP. Tester is the AT.
	IUT is initialized and operational.
	Check that: Upon receiving a valid Connection Addition Init message, the IUT replies to the
	LT with a Connection Addition Setup message.
	Final pseudo state: The IUT is establishing a connection.
TP/AP/COC/CE/BV-005	Reference: TS 102 000 [1], clause 13.4.2.1.
	Initial condition: IUT is the AP. Tester is the AT.
	The IUT is initialized, has received a Connection Addition Init message, and then responded
	with a Connection Addition Setup message.
	Check that: Upon receiving a valid Connection Addition Ack message, the IUT:
	1) Starts T_RIcConnectionAdditionAck.
	2) Considers the connection established after T_RIcConnectionAdditionAck expires.
	Final pseudo state: The IUT is operational and the connection is established.
TP/AP/COC/CE/BV-006	Reference: TS 102 000 [1], clause 13.4.2.1.
	Initial condition: IUT is the AP. Tester is the AT.
	IUT is initialized, has received a Connection Addition Init message, and then sent a
	Connection Addition Setup message and started T_RIcConnectionAdditionSetup.
	Check that: Upon receiving a Connection Addition Init message during this timer's duration,
	the IUT retransmits another valid Connection Addition Setup message.
	Final pseudo state: The IUT is establishing a connection.

TP/AP/COC/CE/BV-007	Reference: TS 102 000 [1], clause 13.4.2.1.
	Initial condition: IUT is the AP. Tester is the AT.
	IUT is initialized, has received a Connection Addition Init message, then sent a Connection Addition Setup message and started T_RIcConnectionAdditionSetup.
	Check that: Each time the IUT receives a Connection Addition Init message during this timer's duration:
	 The IUT retransmits another valid Connection Addition Setup message.
	 And restarts T_ RIcConnectionAdditionSetup upon sending this Setup message. Final pseudo state: The IUT is establishing a connection.
	NOTE: The specification does not limit the number of times that this cycling can occur
TP/AP/COC/CE/BV-008	Reference: TS 102 000 [1], clause 13.4.2.1.
	Initial condition: IUT is the AP. Tester is the AT.
	IUT is initialized, has received a Connection Addition Init message, then sent a Connection Addition Setup message, and started T_RIcConnectionAdditionSetup.
	Check that: After T_RICConnectionAdditionSetup expires without receiving any message; the
	IUT retransmits another valid Connection Addition Setup message.
	Final pseudo state: The IUT is establishing a connection.
TP/AP/COC/CE/BV-009	Reference: TS 102 000 [1], clause 13.4.2.1.
	Initial condition: IUT is the AP. Tester is the AT.
	IUT is initialized, has sent a Connection Addition Setup message, and started
	T_RIcConnectionAdditionSetup.
	Check that: Each time T_RIcConnectionAdditionSetup expires without the IUT having
	received any message, the IUT:
	1) Retransmits another valid Connection Addition Setup message.
	2) And restarts T_RIcConnectionAdditionSetup upon sending this message.
	Final pseudo state: The IUT is establishing a connection.
	NOTE: The specification does not limit the number of times that this cycling can occur.

5.2.4.2 Connection Modification

5.2.4.2.1 AP Initiated Connection Modification

TP/AP/COC/CM/BV-000	Reference: TS 102 000 [1], clause 13.4.3.
	Initial condition: IUT is the AP. Tester is the AT.
	IUT is initialized and a connection is established with the Tester.
	Check that: To modify a connection, the IUT sends a valid Connection Change Setup
	message.
	Final pseudo state: The IUT is modifying a connection.
TP/AP/COC/CM/BV-001	Reference: TS 102 000 [1], clause 13.4.3.
	Initial condition: IUT is the AP. Tester is the AT.
	IUT is initialized, has a valid connection with the Tester, and has transmitted a valid
	Connection Change Setup message.
	Check that: Upon receiving a valid Connection Change Ack message, the IUT:
	1) Starts T_RIcConnectionChangeAck.
	2) Considers the connection modified after T_RlcConnectionChangeAck expires.
	Final pseudo state: The IUT is operational and the connection continues as modified.
TP/AP/COC/CM/BV-002	Reference: TS 102 000 [1], clause 13.4.3.
	Initial condition: IUT is the AP. Tester is the AT.
	IUT is initialized, has a valid connection with the Tester, has transmitted a Connection
	Change Setup message, and started T_RIcConnectionChangeSetup.
	Check that: After T_RIcConnectionChangeSetup expires without receiving a Connection
	Change Ack message; the IUT retransmits another valid Connection Change Setup
	message.
	Final pseudo state: The IUT is modifying a connection.
TP/AP/COC/CM/BV-003	Reference: TS 102 000 [1], clause 13.4.3.
	Initial condition: IUT is the AP. Tester is the AT.
	IUT is initialized, has a valid connection with the Tester, has transmitted a Connection
	Change Setup message, and started T_RIcConnectionChangeSetup.
	Check that: Each time T_RIcConnectionChangeSetup expires without the IUT having
	received a Connection Change Ack message, the IUT:
	1) Restarts T_RIcConnectionChangeSetup.
	2) And retransmits another valid Connection Change Setup message.
	Final pseudo state: The IUT is modifying a connection.
	NOTE: The specification does not limit the number of times that this cycling can occur.

TP/AP/COC/CM/BV-004	Reference: TS 102 000 [1], clause 13.4.3.
	Initial condition: IUT is the AP. Tester is the AT.
	IUT is initialized and a connection is established with the Tester.
	Check that: Upon receiving a valid Connection Change Init message, the IUT replies to the
	LT with a Connection Change Setup message.
	Final pseudo state: The IUT is modifying a connection.
TP/AP/COC/CM/BV-005	Reference: TS 102 000 [1], clause 13.4.3.
	Initial condition: IUT is the AP. Tester is the AT.
	IUT has received a valid Connection Change Init message and replied to the LT with a valid
	Connection Change Setup message.
	Check that: Upon receiving a valid Connection Change Ack message, the IUT:
	1) Starts T_RIcConnectionChangeAck.
	2) Considers the connection as modified after T_RlcConnectionChangeAck expires.
	Final pseudo state: The IUT is operational and the connection continues as modified.
TP/AP/COC/CM/BV-006	Reference: TS 102 000 [1], clause 13.4.3.
	Initial condition: IUT is the AP. Tester is the AT.
	IUT is initialized, has a valid connection with the Tester, has received a Connection Change
	Init message, and then sent a Connection Change Setup message and started
	T_RIcConnectionChangeSetup.
	Check that: Upon receiving a Connection Change Init message during this timer's duration,
	the IUT retransmits another valid Connection Change Setup message.
	Final pseudo state: The IUT is modifying a connection.
TP/AP/COC/CM/BV-007	Reference: TS 102 000 [1], clause 13.4.3.
	Initial condition: IUT is the AP. Tester is the AT.
	IUT is initialized, has a valid connection with the Tester, has received a Connection Change
	Init message, then sent a Connection Change Setup message and started
	T_RIcConnectionChangeSetup.
	Check that: Each time the IUT receives a Connection Change Init message during this timer's
	duration:
	1) The IUT retransmits another valid Connection Change Setup message.
	2) And restarts T_ RIcConnectionChangeSetup upon sending this Setup message.
	Final pseudo state: The IUT is modifying a connection.
	NOTE: The specification does not limit the number of times that this cycling can occur
TP/AP/COC/CM/BV-008	Reference: TS 102 000 [1], clause 13.4.3.
	Initial condition: IUT is the AP. Tester is the AT.
	IUT is initialized, has a valid connection with the Tester, has received a valid Connection
	Change Init message, has transmitted a Connection Change Setup message, and started T_RIcConnectionChangeSetup.
	Check that: After T_RIcConnectionChangeSetup expires without receiving any message; the
	IUT retransmits another valid Connection Change Setup expires without receiving any message, the
	Final pseudo state: The IUT is modifying a connection.
TP/AP/COC/CM/BV-009	Reference: TS 102 000 [1], clause 13.4.3.
	Initial condition: IUT is the AP. Tester is the AT.
	IUT is initialized, has a valid connection with the Tester, has received a valid Connection
	Change Init message, has transmitted a Connection Change Setup message, and started
	T_RicConnectionChangeSetup.
	Check that: Each time T_RIcConnectionChangeSetup expires without the IUT having
	received a Connection Change Ack message, the IUT:
	1) Restarts T_RicConnectionChangeSetup.
	 And retransmits another valid Connection Change Setup message.
	Final pseudo state: The IUT is modifying a connection.
	NOTE: The specification does not limit the number of times that this cycling can occur.
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5.2.4.2.2 AT Initiated Connection Modification

5.2.4.3 Connection Termination

5.2.4.3.1 AP Initiated Connection Termination

TP/AP/COC/CT/BV-000	Reference: TS 102 000 [1], clause 13.4.4.
	Initial condition: IUT is the AP. Tester is the AT.
	IUT is initialized and a connection is established with the Tester.
	Check that: To release a connection, the IUT sends a valid Connection Deletion Init message.
	Final pseudo state: The IUT is releasing a connection.
TP/AP/COC/CT/BV-001	Reference: TS 102 000 [1], clause 13.4.4.
	Initial condition: IUT is the AP. Tester is the AT.
	IUT is initialized, a connection is established with the Tester, and IUT has transmitted a valid
	Connection Deletion Init message.
	Check that: Upon receiving a valid Connection Deletion Ack message, the IUT:
	1) Starts T_RIcConnectionDeletionAck.
	2) Considers the connection released after T_RIcConnectionDeletionAck expires.
	Final pseudo state: The IUT is operational and the connection no longer exists.
TP/AP/COC/CT/BV-002	Reference: TS 102 000 [1], clause 13.4.4.
	Initial condition: IUT is the AP. Tester is the AT.
	IUT is initialized, has a valid connection with the Tester, has transmitted a Connection
	Deletion Init message, and started T_RIcConnectionDeletionInit.
	Check that: Upon T_RIcConnectionDeletionInit expiry without receiving a Connection
	Deletion Ack message, the IUT retransmits another valid Connection Deletion Init message.
	Final pseudo state: The IUT is releasing a connection.
TP/AP/COC/CT/BV-003	Reference: TS 102 000 [1], clause 13.4.4.
	Initial condition: IUT is the AP. Tester is the AT.
	IUT is initialized, has a valid connection with the Tester, has transmitted a Connection
	Deletion Init message, and started T_ RIcConnectionDeletionInit.
	Check that: Each time T_ RIcConnectionDeletionInit expires without the IUT having received
	a Connection Deletion Init message, the IUT:
	1) Retransmits another valid Connection Deletion Init message.
	2) And restarts T_ RIcConnectionDeletionInit upon sending this message.
	Final pseudo state: The IUT is releasing a connection.
	NOTE: The specification does not limit the number of times that this cycling can occur.

5.2.4.3.2 AT Initiated Connection Termination

TP/AP/COC/CT/BV-004	Reference: TS 102 000 [1], clause 13.4.4.
	Initial condition: IUT is the AP. Tester is the AT.
	IUT is initialized and a connection is established with the Tester.
	Check that: Upon receiving a valid Connection Deletion Init message, the IUT replies to the
	LT with a Connection Deletion Ack message.
	Final pseudo state: The IUT is releasing a connection.
TP/AP/COC/CT/BV-005	Reference: TS 102 000 [1], clause 13.4.4.
	Initial condition: IUT is the AP. Tester is the AT.
	IUT is initialized, a connection is established with the Tester, and the IUT has received a valid
	Connection Deletion Init message and then sent a valid Connection Deletion Ack message
	and started T_RIcConnectionDeletionAck.
	Check that: Upon T_RIcConnectionDeletionAck expiry and if no message has been received
	during this timer's duration, the IUT considers the connection released.
	Final pseudo state: The IUT is operational and the connection no longer exists.
TP/AP/COC/CT/BV-006	Reference: TS 102 000 [1], clause 13.4.4.
	Initial condition: IUT is the AP. Tester is the AT.
	IUT is initialized; a connection is established with the Tester; and the IUT has received a valid
	Connection Deletion Init message, then sent a valid Connection Deletion Ack message and
	started T RIcConnectionDeletionAck.
	Check that: Upon receiving a Connection Deletion Init message, the IUT transmits a valid
	Connection Deletion Ack message.
	Final pseudo state: The IUT is releasing a connection.
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TP/AP/COC/CT/BV-007	Reference: TS 102 000 [1], clause 13.4.4.
	Initial condition: IUT is the AP. Tester is the AT.
	IUT is initialized; a connection is established with the Tester; and the IUT has received a valid
	Connection Deletion Init message, then sent a valid Connection Deletion Ack message and
	started T_ RIcConnectionDeletionAck.
	Check that: Each time, upon receiving a Connection Deletion Init message, the IUT:
	1) Transmits a valid Connection Deletion Ack message.
	Restarts T_RIcConnectionDeletionAck upon sending this message.
	Final pseudo state: The IUT is releasing a connection.
	NOTE: The specification does not limit the number of times that this cycling can occur.

5.2.4.4 Multicast Connections

TP/AP/COC/MC/BV-000	Reference: TS 102 000 [1], clause 13.5. Initial condition: IUT is the AP. Tester is multiple ATs. IUT is initialized. Check that: To establish a multicast connection, the IUT establishes a Downlink unicast connection with each AT included in the multicast group assigning to each connection the
	same CID. Final pseudo state: The IUT is operational and a multicast group is formed.

5.3 Test purposes for AT

5.3.1 Initialization Control

5.3.1.1 Frequency scanning

5.3.1.1.1 Frequency scanning during first initialization

TP/AT/INC/FS/BV-000	 Reference: TS 102 000 [1], clause 10.3.1. Initial condition: IUT is the AT. Tester is the AP. IUT is initializing for the first time. The IUT begins the downlink frequency-scanning step. Check that: after powering up or starting the IUT, the IUT scans all allowed frequencies, orders them in descending signal strength order, and selects the frequency with the strongest signal power. Final pseudo state: The IUT has finished the downlink frequency-scanning step. NOTE: Test strategy could be to send at least two signals with different power, go through synchronization and APC identification, and then first send a Ranging Invitation message and a Ranging Grant on the weakest frequency. If the AT responds, the AT fails this Test Purpose. If the AT does not respond, then send a Ranging Invitation message and a Ranging on the strongest frequency. If the AT responds, the AT passes.

5.3.1.1.2 Frequency scanning during re-initialization

TP/AT/INC/FS/BV-001	Reference: TS 102 000 [1], clause 10.3.2.
	Initial condition: IUT is the AT. Tester is the AP. IUT has previously accomplished initialization.
	The IUT is required to re-initialize and must begin the downlink frequency-scanning step.
	Check that: the IUT selects the downlink frequency determined during the previous
	initialization.
	Final pseudo state: The IUT has finished the downlink frequency-scanning step for
	re-initialization.
TP/AT/INC/FS/BV-002	Reference: TS 102 000 [1], clause 10.3.2.
	Initial condition: IUT is the AT. Tester is the AP. IUT has previously accomplished initialization.
	The IUT is required to re-initialize and must begin the downlink frequency-scanning step. The
	frequency determined during the previous initialization is no longer available.
	Check that: the IUT goes to the next frequency in the ordered list determined during frequency
	scanning during first initialization.
	Final pseudo state: The IUT has finished the downlink frequency-scanning step for
	re-initialization.

5.3.1.2 Synchronization Acquisition

TP/AT/INC/SA/BV-000	Reference: TS 102 000 [1], clause 10.3.2.
	Initial condition: IUT is the AT. Tester is the AP. The IUT has accomplished downlink frequency scanning.
	Check that: After receiving valid downlink frames, the IUT synchronizes, in time and frequency, to the preamble of the downlink frame and successfully decodes the control zone. Final pseudo state: The IUT's PHY layer has synchronized with the received frame's preamble. NOTE: Test strategy could be to send several valid downlink frames and continue to APC identification with a valid APC-ID. If APC identification occurs, provoke a DL sync loss, which will cause the old frequency to be used and synchronization to occur again. Again send several valid downlink frames and continue to APC identification but this time with an invalid APC-ID. The bad APC-ID should cause automatic synchronization leading to a pass verdict. Elsewise, a fail or inconclusive verdict.
TP/AT/INC/SA/BV-001	Reference: TS 102 000 [1], figure 42.
	Initial condition: IUT is the AT. Tester is the AP. The IUT has accomplished the downlink
	frequency scanning, started the timer T_synchronization, and received downlink frames with a control zone that cannot be decoded.
	Check that: Upon decoding failure and expiration of this timer, the IUT selects the next
	powerful frequency determined during the frequency scanning.
	Final pseudo state: The IUT re-starts the synchronization step.
	NOTE: Test strategy could be to send an incorrectly coded control zone in a frame of the
	most strongest frequency and a correctly coded frame in the next strongest frequency. Verdict would be pass if Ranging Invitations/Grants are accepted but with
	a delay corresponding to T_sychronization plus some delta.

5.3.1.3 APC Identification

TP/AT/INC/SI/BV-000	Reference: TS 102 000 [1], clause 10.3.3. Initial condition: IUT is the AT. Tester is the AP. The IUT has accomplished the synchronization acquisition step. Check that: after having received a frame's control zone containing an APC-ID the same as an APC-ID stored in its non-volatile memory, the IUT proceeds with initialization. Final pseudo state: The IUT has accomplished the APC identification step. NOTE: Test strategy could be first send a bad APC and see if the IUT responds to a Ranging Grant after a Ranging Invitation message. If so, it fails. Then turn off and back on the IUT and then send the correct APC-ID to see if the IUT responds to a Ranging Invitation with pursuant Grant. If so, it passes. If not, it fails unless some other reason
	could lead to an Inconclusive verdict.

5.3.1.4 UL and DL Parameters Acquisition

TP/AT/INC/PA/BV-000	Reference: TS 102 000 [1], clause 10.3.4.
	Initial condition: IUT is the AT. Tester is the AP. The IUT has accomplished the APC
	identification step.
	Check that: The IUT waits for GBI messages.
	Final pseudo state: The IUT has completed the parameters acquisition.
	NOTE: A test strategy could be to check the Phy Mode used in the first Ranging Req
	received. Or a fail at any time if any of the parameters is not incorporated into the
	AT's functioning during further tests.

TP/AT/INC/RA/BV-000	Reference: TS 102 000 [1], clauses 10.4.1 and E.3.2.
	Initial condition: IUT is the AT. Tester is the AP. The IUT has completed the parameters acquisition step.
	Check that: Upon receiving a Ranging Grant without a valid Ranging Invitation message in the
	same frame, the IUT sends no message and does not change state.
	Final pseudo state: The IUT continues to wait for a valid Ranging Invitation message.
TP/AT/INC/RA/BV-001	Reference: TS 102 000 [1], clauses 10.4.1 and E.3.2.
	Initial condition: IUT is the AT. Tester is the AP. The IUT has completed the parameters
	acquisition step.
	Check that: Upon receiving repeated Ranging Grants without ever receiving a valid Ranging
	Invitation message, the IUT sends no message and does not change state.
TP/AT/INC/RA/BV-002	Final pseudo state: The IUT continues to wait for a valid Ranging Invitation message. Reference: TS 102 000 [1], clauses 10.4.1 and E.3.2.
11 /A1/INC/IA/DV-002	Initial condition: IUT is the AT. Tester is the AP. The IUT has completed the parameters
	acquisition step.
	Check that: Upon receiving a Ranging Invitation message with its MAC address and the
	corresponding TID but with no Ranging Grant for the IUT in the same frame, the IUT sends no
	message and does not change state.
	Final pseudo state: The IUT waits for a valid Ranging Grant to arrive in a following frame.
TP/AT/INC/RA/BV-003	Reference: TS 102 000 [1], clauses 10.4.1 and E.3.2.
	Initial condition: IUT is the AT. Tester is the AP. The IUT has completed the parameters acquisition step.
	Check that: Upon receiving repeated Ranging Invitation messages with its MAC address and
	the corresponding TID but with no Ranging Grant for the IUT in any following frame, the IUT
	sends no message and does not change state.
	Final pseudo state: The IUT waits for a valid Ranging Grant to arrive in a following frame.
TP/AT/INC/RA/BV-004	Reference: TS 102 000 [1], clauses 10.4.1 and E.3.2.
	Initial condition: IUT is the AT. Tester is the AP. The IUT has completed the parameters
	acquisition step.
	Check that: Upon receiving its first Ranging Invitation message and a Ranging Grant for the IUT which are both in the same frame, the IUT sends a valid Ranging Request message
	pursuant to the grant according to the parameters given in the GBI message.
	Final pseudo state: The IUT begins adjusting power levels to reach the AP.
TP/AT/INC/RA/BV-005	Reference: TS 102 000 [1], clauses 10.4.1 and E.3.2.
	Initial condition: IUT is the AT. Tester is the AP. The IUT has completed the parameters
	acquisition step and received its first Ranging Invitation message in a previous frame. This
	frame had no Ranging Grant for the IUT.
	Check that: Upon receiving a Ranging Grant in a following frame, the IUT sends a valid Ranging Request message pursuant to the grant according to the parameters given in the GBI
	message.
	Final pseudo state: The IUT is now begins adjusting power levels to reach the AP.
TP/AT/INC/RA/BV-006	Reference: TS 102 000 [1], clauses 10.4.1 and E.3.2.
	Initial condition: IUT is the AT. Tester is the AP. The IUT has completed the parameters
	acquisition step, received its first Ranging Invitation message, and transmitted a valid Ranging
	Request message.
	Check that: Upon receiving another Ranging Invitation message which has no Ranging Grant in the same frame, the IUT does not transmit any message and does not change state.
	Final pseudo state: The IUT is is adjusting power levels to reach the AP. The IUT is waiting for
	a Ranging Grant.
TP/AT/INC/RA/BV-007	Reference: TS 102 000 [1], clauses 10.4.1 and E.3.2.
	Initial condition: IUT is the AT. Tester is the AP. The IUT has completed the parameters
	acquisition step, received its first Ranging Invitation message, and transmitted a valid Ranging
	Request message.
	Check that: Upon receiving repeated successive Ranging Invitation messages each of which has no Ranging Grant in the same frame, the IUT does not transmit any message and does
	not change state.
	Final pseudo state: The IUT is adjusting power levels to reach the AP. The IUT is waiting for a
	Ranging Grant.
TP/AT/INC/RA/BV-008	Reference: TS 102 000 [1], clauses 10.4.1 and E.3.2.
	Initial condition: IUT is the AT. Tester is the AP. The IUT has completed the parameters
	acquisition step, received its first Ranging Invitation message, and transmitted a valid Ranging
	Request message. The IUT is now adjusting power levels.
	Check that: Upon receiving only a Ranging Grant in a frame, the IUT sends a valid Ranging Request message in the position given by the grant at the next power level and according to
	the information given in the GBI message.
	Final pseudo state: The IUT continues adjusting power levels to reach the AP.

TP/AT/INC/RA/BV-009	Reference: TS 102 000 [1], clauses 10.4.1 and E.3.2. Initial condition: IUT is the AT. Tester is the AP. The IUT has completed the parameters acquisition step, received its first Ranging Invitation message, and transmitted a valid Ranging Request message. The IUT is now adjusting power levels to reach the AP. Check that: Upon receiving repeated successive Ranging Grants without any Ranging Invitation message in any of the frames containing the Ranging Grants, the IUT sends a valid Ranging Request message pursuant to each grant according to the information given in the GBI message and adjusts power levels. Final pseudo state: The IUT continues adjusting power levels to reach the AP. Reference: TS 102 000 [1], clauses 10.4.1 and E.3.2. Initial condition: IUT is the AT. Tester is the AP. The IUT has completed the parameters acquisition step, received its first Ranging Invitation message, and transmitted a valid Ranging Request message. The IUT is now adjusting power levels to reach the AP. Check that: Upon receiving only a Ranging Continue message in a frame without a Ranging Grant, the IUT transmits no message and does not change state. Final pseudo state: The IUT is now waiting a Ranging Grant to transmit a Ranging Req message.
TP/AT/INC/RA/BV-011	Reference: TS 102 000 [1], clauses 8.7.4, 10.4.1 and E.3.2. Initial condition: IUT is the AT. Tester is the AP. The IUT has completed the parameters acquisition step, received its first Ranging Invitation message, and transmitted a valid Ranging Request message. The IUT is now adjusting power levels to reach the AP. Check that: Upon receiving a Ranging Continue message followed by a Ranging Grant in the tenth or following frame of the Ranging Continue message, the IUT transmits a Ranging Request message pursuant to the Ranging Grant using the power corrections given in the Ranging Continue message. Final pseudo state: The IUT continues adjusting power.
TP/AT/INC/RA/BV-012	Reference: TS 102 000 [1], clauses 10.4.1 and E.3.2. Initial condition: IUT is the AT. Tester is the AP. The IUT has completed the parameters acquisition step, received its first Ranging Invitation message, and transmitted a valid Ranging Request message. The IUT is now adjusting power levels to reach the AP. Check that: Upon receiving only a Ranging Success message in a frame without a Ranging Grant, the IUT transmits no message and does not change state. Final pseudo state: The IUT has completed tuning and is now waiting a Ranging Grant to transmit a Ranging Ack message.
TP/AT/INC/RA/BV-013	Reference: TS 102 000 [1], clauses 8.7.4, 10.4.1 and E.3.2. Initial condition: IUT is the AT. Tester is the AP. The IUT has completed the parameters acquisition step, received its first Ranging Invitation message, and transmitted a valid Ranging Request message. The IUT is now using rough power levels to reach the AP. Check that: Upon receiving a Ranging Success message followed by a Ranging Grant in the tenth or following frame of the Ranging Success message, the IUT transmits a Ranging Ack message with the corrections given in the Ranging Success message. Final pseudo state: The IUT has completed ranging and continues initialization.
TP/AT/INC/RA/BV-014	Reference: TS 102 000 [1], clauses 8.7.4, 10.4.1 and E.3.2. Initial condition: IUT is the AT. Tester is the AP. The IUT has completed the parameters acquisition step, received a Ranging Invitation message, transmitted a valid Ranging Request message, and received a Ranging Continue message in a previous frame followed by a Ranging Grant in the tenth or later frame following the Ranging Continue message. Check that: Upon receiving successive Ranging Grants in following frames, the IUT transmits a Ranging Request message at the next rough power level in response to each Ranging Grant. Final pseudo state: The IUT continues adjusting power.
TP/AT/INC/RA/BV-015	Reference: TS 102 000 [1], clauses 10.4.1 and E.3.2. Initial condition: IUT is the AT. Tester is the AP. The IUTadjusting power. Check that: Upon receiving only a Ranging Success message in a frame without a Ranging Grant, the IUT transmits no message and does not change state. Final pseudo state: The IUT waits a Ranging Grant to send the Ranging Ack message to complete initialization.
TP/AT/INC/RA/BV-016	Reference: TS 102 000 [1], clauses 8.7.4, 10.4.1 and E.3.2. Initial condition: IUT is the AT. Tester is the AP. The IUT is adjusting power. Check that: Upon receiving a Ranging Success message followed by a Ranging Grant in the tenth or later frame after the Ranging Success's frame, the IUT transmits a Ranging Ack message with the corrections given in the Ranging Success message. Final pseudo state: The IUT has completed ranging and continues initialization.

the Ranging Success message. The IUT then transmitted a Ranging Ack.		
 a Ranging Success message followed by a Ranging Grant in the tenth or later frame containing the Ranging Success' message. The IUT then transmitted a Ranging Ack . Check that: Upon receiving only a Ranging Grant in a frame, the IUT transmits a Ranging Recement and the rease of the research of the researc	TP/AT/INC/RA/BV-017	
 containing the Ranging Success' message. The IUT then transmitted a Ranging Ack Check that Upon receiving only a Ranging Grant in a frame, the IUT transmits a Ranging Rec message with increased power. Final pseudo state: The IUT returns to increasing the power level. TP/AT/INC/RA/BV-018 Reference: TS 102 000 [1], clauses 8.7.4, 10.4.1 and E.3.2. Initial condition: IUT is the AT. Tester is the AP. The IUT is turning and has received a Ranging Success message followed by a Ranging Grant in the tenth or later frame after that containing the Ranging Success message. The IUT then transmitted a Ranging Ack. Check that Upon receiving aech successive Ranging Grant, the IUT transmits a Ranging Rec message with increased power. Final pseudo state: The IUT returns to increasing the power level. TP/AT/INC/RA/BV-019 Reference: TS 102 000 [1], clauses 8.7.4, 10.4.1 and E.3.2. Initial condition: IUT is the AT. Tester is the AP. The IUT has adjusted power and has receiven a Ranging Success message followed by a Ranging Grant in the tenth or later frame after that containing the Ranging Success message. The IUT transmits a Ranging Request message with the corrections given in the Ranging Continue message in a frame, then followed by a Ranging Grant in the tenth or following frame, the IUT transmits a Ranging Request message with the corrections given in the Ranging Grant in the tenth or later frame after that containing the Ranging Success. The IUT returns to adjusting power. TP/AT/INC/RA/BV-020 Reference: TS 102 000 [1], clauses 10.4.1 and E.3.2. Initial condition: IUT is the AT. Tester is the AP. The IUT transmits a Ranging Request message with increased power. Final pseudo state: The IUT returns to adjusting power. Final pseudo state: The IUT returns to ad		
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Check that: The IUT transmits no message and remains in the same state for the duration of timer T_RangingAck. Final pseudo state: The IUT has completed ranging. TP/AT/INC/RA/BV-022 Reference: TS 102 000 [1], clauses 10.4.1 and E.3.2. Initial condition: IUT is the AT. Tester is the AP. The IUT has adjusted power and has started timer T_RangingAck. Check that: Upon receiving only a Ranging Grant while the timer is running, the IUT transmits Ranging Request message with increased power. Final pseudo state: The IUT has returned to increasing power levels to reach the AT. TP/AT/INC/RA/BV-023 Reference: TS 102 000 [1], clauses 10.4.1 and E.3.2. Initial condition: IUT is the AT. Tester is the AP. The IUT has adjusted power and has started timer T_RangingAck. Check that: Upon receiving a Ranging Success message without a Ranging Grant in the same frame while the timer is running, the IUT transmits no message. Final pseudo state: The IUT is waiting a Ranging Grant to send a Ranging Ack message. TP/AT/INC/RA/BV-024 Reference: TS 102 000 [1], clauses 8.7.4, 10.4.1 and E.3.2. Initial condition: IUT is the AT. Tester is the AP. The IUT has adjusted power, started timer T_RangingAck, and received a Ranging Success message. TP/AT/INC/RA/BV-024 Reference: TS 102 000 [1], clauses 8.7.4, 10.4.1 and E.3.2. Initial condition: IUT is the AT. Tester is the AP. The IUT has adjusted power, started timer T_RangingAck, and received a Ranging Success message. Check that: Upon rece	11/A1/INC/INA/DV-021	
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Final pseudo state: The IUT is waiting a Ranging Grant to send a Ranging Ack message. TP/AT/INC/RA/BV-024 Reference: TS 102 000 [1], clauses 8.7.4, 10.4.1 and E.3.2. Initial condition: IUT is the AT. Tester is the AP. The IUT has adjusted power, started timer T_RangingAck, and received a Ranging Success message. Check that: Upon receiving only a Ranging Grant in the tenth or following frame of that containing the Ranging Success message, the IUT transmits a Ranging Ack message pursua to the Ranging Grant with the power corrections in the Ranging Success message. TP/AT/INC/RA/BV-025 Reference: TS 102 000 [1], clauses 10.4.1 and E.3.2.		
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Initial condition: IUT is the AT. Tester is the AP. The IUT has adjusted power, started timer T_RangingAck, and received a Ranging Success message. Check that: Upon receiving only a Ranging Grant in the tenth or following frame of that containing the Ranging Success message, the IUT transmits a Ranging Ack message pursual to the Ranging Grant with the power corrections in the Ranging Success message. Final pseudo state: The IUT returns to adjusting power. TP/AT/INC/RA/BV-025 Reference: TS 102 000 [1], clauses 10.4.1 and E.3.2.		
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Check that: Upon receiving only a Ranging Grant in the tenth or following frame of that containing the Ranging Success message, the IUT transmits a Ranging Ack message pursual to the Ranging Grant with the power corrections in the Ranging Success message. Final pseudo state: The IUT returns to adjusting power. TP/AT/INC/RA/BV-025 Reference: TS 102 000 [1], clauses 10.4.1 and E.3.2.		
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TP/AT/INC/RA/BV-025 Reference: TS 102 000 [1], clauses 10.4.1 and E.3.2.	1	
Initial condition: IU I is the AI. Lester is the AP. The IUT has adjusted power and has started	1 F/A I/INC/RA/BV-025	
timer T_RangingAck.		
		Check that: Upon receiving a Ranging Continue message without a Ranging Grant in the same
frame while the timer is running, the IUT transmits no message.		
Final pseudo state: The IUT is waiting a Ranging Grant to send a Ranging Req message.		
TP/AT/INC/RA/BV-026 Reference: TS 102 000 [1], clauses 8.7.4, 10.4.1 and E.3.2.	IP/AT/INC/RA/BV-026	
Initial condition: IUT is the AT. Tester is the AP. The IUT has adjusted power, started timer		
T_RangingAck, and received a Ranging Continue message.		
Check that: Upon receiving only a Ranging Grant in the tenth or following frame of that		
containing the Continue message, the IUT transmits a Ranging Req message with the power		
correction according to the GBI power increments.		
Final pseudo state: The IUT returns to adjusting power.	1	Final pseudo state: The IUT returns to adjusting power.

TP/AT/INC/RA/BV-027	Reference: TS 102 000 [1], clauses 10.4.1 and E3.2
	Initial condition: IUT is the AT. Tester is the AP. The IUT has completed ranging.
	Check that: Upon receiving a Ranging Invitation message, the IUT re-starts the ranging
	procedure.
	Final pseudo state: The IUT is in the ranging process.
TP/AT/INC/RA/BV-028	Reference: TS 102 000 [1], clause 11.2.2.
	Initial condition: IUT is the AT. Tester is the AP. The IUT is in the ranging process and has received the first Ranging Invitation message.
	Check that: The IUT ignores additional Ranging Invitation messages during the ranging process.
	Final pseudo state: The IUT continues the ranging process as if it had not received the
	additional Ranging Invitation messages.

5.3.1.6 Physical Capabilities Negotiation

TP/AT/INC/PN/BV-000	Reference: TS 102 000 [1], clause 10.5.1. Initial condition: IUT is the AT. Tester is the AP. The IUT has completed ranging. Check that: Upon receiving a Physical Capabilities Request message, the IUT transmits a valid Physical Capabilities Information message. Final pseudo state: The IUT continues Physical Capabilities Negotiation.
TP/AT/INC/PN/BV-001	Reference: TS 102 000 [1], clause 10.5.1. Initial condition: IUT is the AT. Tester is the AP. The IUT is in Physical Capabilities Negotiation and has transmitted a valid Physical Capabilities Information message. Check that: After receiving a Physical Capabilities Confirmation message, the IUT transmits no message and remains in the same state for the duration of timer T_PhyCapabilitiesCnf. Final pseudo state: The IUT has completed Physical Capabilities Negotiation.
TP/AT/INC/PN/BV-002	Reference: TS 102 000 [1], clause 10.5.1. Initial condition: IUT is the AT. Tester is the AP. The IUT is in Physical Capabilities Negotiation and has transmitted a valid Physical Capabilities Information message. Check that: After receiving another Physical Capabilities Request message, the IUT transmits another valid Physical Capabilities Information message. Final pseudo state: The IUT continues Physical Capabilities Negotiation.
TP/AT/INC/PN/BV-003	Reference: TS 102 000 [1], clause 10.5.1. Initial condition: IUT is the AT. Tester is the AP. The IUT has completed initialization. The IUT has received a Physical Capabilities Request message and transmitted a valid Physical Capabilities Information message. Check that: After the expiration of timer T_PhyCapabilitiesInfo, the IUT retransmits a valid Physical Capabilities Information message. Final pseudo state: The IUT continues Physical Capabilities Negotiation.
TP/AT/INC/PN/BV-004	Reference: TS 102 000 [1], clause 10.5.1. Initial condition: IUT is the AT. Tester is the AP. The IUT is in Physical Capabilities Negotiation, has transmitted a valid Physical Capabilities Information message, received a Physical Capabilities Confirmation message, and started timer T_PhyCapabilitiesCnf. Check that: After receiving another Physical Capabilities Confirmation message before the timer expires, the IUT transmits no message and remains in the same state for the duration of timer T_PhyCapabilitiesCnf. Final pseudo state: The IUT has completed Physical Capabilities Negotiation.
TP/AT/INC/PN/BV-005	Reference: TS 102 000 [1], clause 10.5.1. Initial condition: IUT is the AT. Tester is the AP. The IUT is in Physical Capabilities Negotiation, has transmitted a valid Physical Capabilities Information message, received a Physical Capabilities Confirmation message, and started timer T_PhyCapabilitiesCnf. Check that: Each time receiving another Physical Capabilities Confirmation message before the timer expires, the IUT transmits no message and restarts the timer T_PhyCapabilitiesCnf. Final pseudo state: The IUT continues Physical Capabilities Negotiation.

TP/AT/INC/OC/BV-000	Reference: TS 102 000 [1], clause 10.5.3.
	Initial condition: IUT is the AT. Tester is the AP. The IUT has completed Authentication.
	Check that: Upon receiving an Other Capabilities Request message, the IUT transmits a valid
	Other Capabilities Information message.
	Final pseudo state: The IUT continues Other Capabilities Negotiation.
TP/AT/INC/OC/BV-001	Reference: TS 102 000 [1], clause 10.5.3.
	Initial condition: IUT is the AT. Tester is the AP. The IUT is in Other Capabilities Negotiation
	and has transmitted a valid Other Capabilities Information message.
	Check that: After receiving an Other Capabilities Confirmation message, the IUT transmits no
	message and remains in the same state for the duration of timer T_OtherCapabilitiesCnf.
	Final pseudo state: The IUT has completed Physical Capabilities Negotiation.
TP/AT/INC/OC/BV-002	Reference: TS 102 000 [1], clause 10.5.3.
	Initial condition: IUT is the AT. Tester is the AP. The IUT is in Other Capabilities Negotiation
	and has transmitted a valid Other Capabilities Information message.
	Check that: After receiving another Other Capabilities Request message, the IUT transmits
	another valid Other Capabilities Information message.
	Final pseudo state: The IUT continues Other Capabilities Negotiation.
TP/AT/INC/OC/BV-003	Reference: TS 102 000 [1], clause 10.5.3.
	Initial condition: IUT is the AT. Tester is the AP. The IUT has completed initialization. The IUT
	has received an Other Capabilities Request message and transmitted a valid Other
	Capabilities Information message.
	Check that: After the expiration of timer T_ OtherCapabilitiesInfo, the IUT retransmits a valid
	Other Capabilities Information message.
	Final pseudo state: The IUT continues Other Capabilities Negotiation.
TP/AT/INC/OC/BV-004	Reference: TS 102 000 [1], clause 10.5.3.
	Initial condition: IUT is the AT. Tester is the AP. The IUT is in Other Capabilities Negotiation,
	has transmitted a valid Other Capabilities Information message, received an Other Capabilities
	Confirmation message, and started timer T_OtherCapabilitiesCnf.
	Check that: After receiving another Other Capabilities Confirmation message before the timer
	expires, the IUT transmits no message, restarts T_OtherCapabilitiesCnf and remains in the
	same state for the duration of timer T_ OtherCapabilitiesCnf.
	Final pseudo state: The IUT has completed Other Capabilities Negotiation.
TP/AT/INC/OC/BV-005	Reference: TS 102 000 [1], clause 10.5.3.
	Initial condition: IUT is the AT. Tester is the AP. The IUT is in Other Capabilities Negotiation,
	has transmitted a valid Other Capabilities Information message, received an Other Capabilities
	Confirmation message, and started timer T_OtherCapabilitiesCnf.
	Check that: Each time receiving another Other Capabilities Confirmation message before the
	timer expires, the IUT transmits no message and restarts the timer T_OtherCapabilitiesCnf and
	remains in the same state.
	Final pseudo state: The IUT continues Other Capabilities Negotiation.

5.3.2 Radio Resource Control

5.3.2.1 Link Supervision

TP/AT/RRC/LS/BV-000	Reference: TS 102 000 [1], clause 11.2.2.
	Initial condition: AT is the IUT. The tester is the AP. The IUT has been initialized and
	connected with its peer. The tester has transmitted an RIcRangingInvitation message and
	gives ranging grants to the IUT in a frame following that of the Invitation message. The IUT
	has traffic information to transmit to the tester.
	Check that: The IUT deletes all connection and security settings and starts re-initialization.
TP/AT/RRC/LS/BV-001	Reference: TS 102 000 [1], clause 11.2.2.
	Initial condition: AT is the IUT. The tester is the AP. The IUT has been initialized and
	connected with its peer. The tester gives ranging grants to the IUT without transmitting an
	RIcRangingInvitation message.
	Check that: The IUT ignores the ranging grants.
TP/AT/RRC/LS/BV-002	Reference: TS 102 000 [1], clause 11.2.2.
	Initial condition: AT is the IUT. The tester is the AP. The IUT has been initialized and
	connected with its peer. The tester has transmitted an RIcRangingInvitation message and
	gives normal grants to the IUT.
	Check that: The IUT ignores the normal grants.
	Reference: TS 102 000 [1], clause 11.2.2. Initial condition: AT is the IUT. The tester is the AP. The IUT has been initialized and connected with its peer. The tester gives ranging grants to the IUT without transmitting an RlcRangingInvitation message. Check that: The IUT ignores the ranging grants. Reference: TS 102 000 [1], clause 11.2.2. Initial condition: AT is the IUT. The tester is the AP. The IUT has been initialized and connected with its peer. The tester has transmitted an RlcRangingInvitation message and gives normal grants to the IUT.

TP/AT/RRC/LS/BV-003	Reference: TS 102 000 [1], clause 11.2.3. Initial condition: AT is the IUT. The tester is the AP. The IUT has been initialized and connected with its peer. The tester has transmitted an RlcInitializationCmd message with InitialisationCmd equal to rejectedFromNetwork. Check that: The IUT stops all transmissions and receptions and tries not to synchronize to the network again.
TP/AT/RRC/LS/BV-004	Reference: TS 102 000 [1], clause 11.2.3. Initial condition: AT is the IUT. The tester is the AP. The IUT has been initialized and connected with its peer. The tester has transmitted an RlcInitializationCmd message with InitialisationCmd equal to rejectedFromChannel. Check that: The IUT stops all transmissions and receptions and tries not to synchronize to the same RF channel again.
TP/AT/RRC/LS/BV-005	Reference: TS 102 000 [1], clause 11.2.3. Initial condition: AT is the IUT. The tester is the AP. The IUT has been initialized and connected with its peer. The tester has transmitted an RlcInitializationCmd message with InitialisationCmd equal to firstInitialization. Check that: The IUT stops all transmissions and performs a first initialization procedure on the same carrier, started with RlcRangingInvitation message.
TP/AT/RRC/LS/BV-006	Reference: TS 102 000 [1], clause 11.2.3. Initial condition: AT is the IUT. The tester is the AP. The IUT has been initialized and connected with its peer. The tester has transmitted an RIcInitializationCmd message with InitialisationCmd equal to transmissionStop. Check that: The IUT stops all transmissions and continues to receive and waits for further commands.
TP/AT/RRC/LS/BV-007	Reference: TS 102 000 [1], clause 11.2.3. Initial condition: AT is the IUT. The tester is the AP. The IUT has been initialized and connected with its peer. The tester has transmitted an RlcInitializationCmd message with InitialisationCmd equal to transmissionReStart. Check that: The IUT replies to all grants.
TP/AT/RRC/LS/BV-008	Reference: TS 102 000 [1], clause 11.2.2. Initial condition: AT is the IUT. The tester is the AP. The IUT has been initialized and connected with its peer. The tester has transmitted an RlcRangingInvitation message and gives a ranging grant to the IUT in the same frame as that of the Invitation message. The IUT has traffic information to transmit to the tester. Check that: The IUT deletes all connection and security settings and starts re-initialization.

5.3.2.2 Change of PHY Mode, ATPC and ATTC

TP/AT/RRC/PT/BV-000	Reference: TS 102 000 [1], clause 11.3.2.
	Initial condition: AT is the IUT. The tester is the AP. The IUT has been initialized and
	connected with its peer. The tester has transmitted an uplink grant. The IUT has no traffic or
	management information to transmit to the tester.
	Check that: The IUT transmits a MAC dummy PDU pursuant to the grant.
TP/AT/RRC/PT/BV-001	Reference: TS 102 000 [1], clause 11.3.3.
	Initial condition: AT is the IUT. The tester is the AP. The IUT has been initialized and
	connected with its peer.
	Check that: The IUT transmits an RIcMeasurementReportData message after the expiration of
	the period given in PeriodReport of the DL GBI message.
TP/AT/RRC/PT/BV-002	Reference: TS 102 000 [1], clause 11.3.3.
	Initial condition: AT is the IUT. The tester is the AP. The IUT has been initialized and
	connected with its peer. The tester has transmitted an RIcMeasurementReportCriterium
	message with a valid PeriodReport parameter. The PeriodReport has expired.
	Check that: The IUT transmits an RIcMeasurementReportData message after the expiration of
	the period given in PeriodReport of the previously received RIcMeasurementReportCriterium
	message.
TP/AT/RRC/PT/BV-003	Reference: TS 102 000 [1], clause 11.3.3.
	Initial condition: AT is the IUT. The tester is the AP. The IUT has been initialized and
	connected with its peer.
	Check that: The IUT transmits an RIcMeasurementReportData message when certain C/(N+I)
	thresholds are crossed.
TP/AT/RRC/PT/BV-004	Reference: TS 102 000 [1], clause 11.3.3.
	Initial condition: AT is the IUT. The tester is the AP. The IUT has been initialized and
	connected with its peer. The tester has transmitted an RIcMeasurementReportCriterium
	message with a valid PeriodReport parameter stopping the measurement. The Previous
	PeriodReport has expired.
	Check that: The IUT does not transmit an RIcMeasurementReportData message.
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TP/AT/RRC/PT/BV-005	Reference: TS 102 000 [1], clause 11.3.3. Initial condition: AT is the IUT. The tester is the AP. The IUT has been initialized and connected with its peer. The tester has transmitted an RlcMeasurementReportCriterium message with a valid PeriodReport parameter stopping the measurement. The Previous PeriodReport has expired. The IUT has ceased transmitting RlcMeasurementReportData messages. Check that: The IUT transmits an RlcMeasurementReportData message when certain C/(N+I) thresholds are crossed.
TP/AT/RRC/PT/BV-006	Reference: TS 102 000 [1], clause 11.3.3. Initial condition: AT is the IUT. The tester is the AP. The IUT has been initialized and connected with its peer. The tester has transmitted an RlcMeasurementReportCriterium message with a valid PeriodReport parameter restarting the measurement. The PeriodReport has expired. Check that: The IUT transmits an RlcMeasurementReportData message after the expiration of the period given in PeriodReport of the previously received RlcMeasurementReportCriterium message.
TP/AT/RRC/PT/BV-007	Reference: TS 102 000 [1], clause 11.3.4. Initial condition: AT is the IUT. The tester is the AP. The IUT has initialized and connected its peer. The tester has transmitted an RlcDownlinkPhyModeChange message. Check that: The IUT transmits an RlcDownlinkPhyModeChangeAck message.
TP/AT/RRC/PT/BV-008	Reference: TS 102 000 [1], clause 11.3.4. Initial condition: AT is the IUT. The tester is the AP. The IUT has been initialized and connected with its peer. Conditions exist that cause AT to inform AP to allocate another PHY mode. Check that: The IUT transmits an RIcMeasurementReportData message with valid new DownlinkPhyMode wanted.
TP/AT/RRC/PT/BV-009	Reference: TS 102 000 [1], clause 11.3.4. Initial condition: AT is the IUT. The tester is the AP. The IUT has been initialized and connected with its peer. Conditions exist that cause AT to inform AP to allocate another PHY mode. The IUT has transmited an RIcMeasurementReportData message with valid new DownlinkPhyMode wanted. Check that: The IUT retransmits an RIcMeasurementReportData message if the timer T_MeasurementReportData expires.
TP/AT/RRC/PT/BV-010	Reference: TS 102 000 [1], clause 11.3.5. Initial condition: AT is the IUT. The tester is the AP. The IUT has been initialized and connected with its peer. The IUT has received an RIcUplinkCorrection message with the request for a report parameter. Check that: The IUT transmits an RIcMeasurementReportData message.

5.3.2.3 Load Levelling (Inter-Carrier Handover)

TP/AT/RRC/LL/BV-000	Reference: TS 102 000 [1], clause 11.6.
	Initial condition: AT is the IUT. The tester is the AP. The IUT has been initialized and
	connected with its peer. The IUT has received an RIcHandoverCmd message.
	Check that: The IUT transmits an RIcHandoverAck message.

5.3.3 Security Control

5.3.3.1 Initial Authentication

TP/AT/SEC/IA/BV-000	Reference: TS 102 000 [1], clause 12.2.1. Initial condition: IUT is the AT. Tester is the AP. IUT has completed physical capabilities negotiation. Phase 1 security measures are in effect. The IUT has received an RIcAuthCertificateReq message from the tester. Check that: the IUT ignores the message.
TP/AT/SEC/IA/BV-001	Reference: TS 102 000 [1], clause 12.2.1. Initial condition: IUT is the AT. Tester is the AP. IUT has completed physical capabilities negotiation. Phase 1 security measures are in effect. The IUT has received an RIcAuthKeyCmd message from the tester. Check that: the IUT ignores the message.

TP/AT/SEC/IA/BV-002	Reference: TS 102 000 [1], clause 12.3.2. Initial condition: IUT is the AT. Tester is the AP. IUT has completed physical capabilities negotiation. Phase 2 or Phase 3 security measures are in effect. The IUT has received an RIcAuthCertificateReq message from the tester. Check that: the IUT transmits a valid RIcAuthCertificateInfo message.
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TP/AT/SEC/IA/BV-003	Reference: TS 102 000 [1], clause 12.3.2. Initial condition: IUT is the AT. Tester is the AP. IUT has completed physical capabilities negotiation. Phase 2 or Phase 3 security measures are in effect. The tester has started T_ AuthCertificateReq and transmitted an RIcAuthCertificateReq message. The IUT then transmitted a valid RIcAuthCertificateInfo message. After T_AuthCertificateReq has expired, the tester then transmits another RIcAuthCertificateReq message identical to the first. Check that: the IUT transmits another valid RIcAuthCertificateInfo message.
TP/AT/SEC/IA/BV-004	Reference: TS 102 000 [1], clause 12.3.2. Initial condition: IUT is the AT. Tester is the AP. IUT has completed physical capabilities negotiation. Phase 2 or Phase 3 security measures are in effect. The IUT has received an RIcAuthCertificateReq message from the tester and then transmitted a valid RIcAuthCertificateInfo message. The IUT then receives a valid RIcAuthKeyCmd message from the tester.
	Check that: the IUT transmits a valid RIcAuthKeyAck message.
TP/AT/SEC/IA/BV-005	Reference: TS 102 000 [1], clause 12.3.2. Initial condition: IUT is the AT. Tester is the AP. IUT has completed physical capabilities negotiation. Phase 2 or Phase 3 security measures are in effect. The IUT has received an RIcAuthCertificateReq message from the tester and then transmitted a valid RIcAuthCertificateInfo message. Then, the tester has started T_AuthKeyCmd and transmitted a valid RIcAuthKeyAck message. After T_AuthKeyCmd has expired, the tester then transmits another RIcAuthKeyCmd message identical to the first. Check that: the IUT transmits another valid RIcAuthKeyAck message.
TP/AT/SEC/IA/BV-006	Reference: TS 102 000 [1], clause 12.3.2. Initial condition: IUT is the AT. Tester is the AP. IUT has completed physical capabilities negotiation. Phase 2 or Phase 3 security measures are in effect. The IUT has received an RIcAuthCertificateReq message from the tester and then transmitted a valid RIcAuthCertificateInfo message. The IUT then receives an RIcAuthKeyCmd message with an invalid HmacOfAuthKey. Check that: the IUT transmits a valid RIcAuthKeyNack message.

5.3.3.2 Reauthentication

TP/AT/SEC/RE/BV-000	Reference: TS 102 000 [1], clause 12.2.1. Initial condition: IUT is the AT. Tester is the AP. IUT has completed initialization. Phase 1 security measures are in effect. The tester has transmitted a valid RIcAuthKeyCmd message. Check that: the IUT ignores the message.
TP/AT/SEC/RE/BV-001	Reference: TS 102 000 [1], clause 12.3.3. Initial condition: IUT is the AT. Tester is the AP. IUT has completed initialization. Phase 2 or 3 security measures are in effect. The tester has transmitted a valid RlcAuthKeyCmd message. Check that: the IUT transmits a valid RlcAuthKeyAck message.
TP/AT/SEC/RE/BV-002	Reference: TS 102 000 [1], clause 12.3.3. Initial condition: IUT is the AT. Tester is the AP. IUT has completed initialization. Phase 2 or 3 security measures are in effect. The tester has transmitted an RIcAuthKeyCmd message with an invalid Hmac. Check that: the IUT transmits a valid RIcAuthKeyNack message.
TP/AT/SEC/RE/BV-003	Reference: TS 102 000 [1], clause 12.3.3. Initial condition: IUT is the AT. Tester is the AP. IUT has completed initialization. Phase 2 or 3 security measures are in effect. The tester has transmitted a valid RlcAuthKeyCmd message and started a timer of T_AuthKeyCmd duration . The IUT then transmits a valid RlcAuthKeyAck message. The timer then expires and the tester sends another valid RlcAuthKeyCmd message. Check that: the IUT transmits another valid RlcAuthKeyAck message with the same parameters.

5.3.3.3 Key Allocation

TP/AT/SEC/KA/BV-000	Reference: TS 102 000 [1], clause 12.2.1.
	Initial condition: IUT is the AT. Tester is the AP. IUT has completed physical capabilities negotiation. Phase 1 security measures are in effect. The tester has transmitted a valid
	RicTekAllocationFirst message.
	Check that: the IUT ignores the message.
TP/AT/SEC/KA/BV-001	Reference: TS 102 000 [1], clause 12.4.4
	Initial condition: IUT is the AT. Tester is the AP. The IUT has completed physical capabilities
	negotiation. Phase 2 or 3 security measures are in effect. First Authentication is completed.
	The tester has transmitted a valid RIcTekAllocationFirst message.
	Check that: the IUT transmits a valid RIcTekAllocationFirstAck message.
TP/AT/SEC/KA/BV-002	Reference: TS 102 000 [1], clause 12.4.4
	Initial condition: IUT is the AT. Tester is the AP. The IUT has completed physical capabilities
	negotiation. Phase 2 or 3 security measures are in effect. First Authentication is completed.
	The tester has transmitted a RIcTekAllocationFirst message with an invalid Hmac of a Tek.
	Check that: the IUT transmits a valid RIcTekAllocationFirstNack message.
TP/AT/SEC/KA/BV-003	Reference: TS 102 000 [1], clause 12.4.4
	Initial condition: IUT is the AT. Tester is the AP. The IUT has completed physical capabilities
	negotiation. Phase 2 or 3 security measures are in effect. First Authentication is completed.
	The tester has transmitted a valid RIcTekAllocationFirst message. The IUT has then
	transmitted a valid RIcTekAllocationFirstAck message. The tester has then again transmitted
	another valid RIcTekAllocationFirst message. Check that: the IUT transmits another valid RIcTekAllocationFirstAck message.
TP/AT/SEC/KA/BV-004	Reference: TS 102 000 [1], clause 12.4.4
11/A1/SEC/RA/BV-004	Initial condition: IUT is the AT. Tester is the AP. The IUT has completed physical capabilities
	negotiation. Phase 2 or 3 security measures are in effect. The IUT has a connection to setup.
	First Authentication is completed. The tester has transmitted a valid RIcTekAllocationFirst
	message. The IUT has then transmitted a valid RIcTekAllocationFirstAck message and started
	T_TekAllocationFirstAck.
	Check that: the IUT starts connection setup after T_TekAllocationFirstAck expires.

5.3.3.4 Key Refresh

TP/AT/SEC/KR/BV-000	Reference: TS 102 000 [1], clause 12.2,1
	Initial condition: IUT is the AT. Tester is the AP. Initialization is complete. A connection has
	also been setup. Data has been exchanged. Phase 1 security measures are in effect. The
	tester has transmitted a valid RIcTekAllocationRefresh message.
	Check that: the IUT ignores the message.
TP/AT/SEC/KR/BV-001	Reference: TS 102 000 [1], clause 12.4.3
	Initial condition: IUT is the AT. Tester is the AP. Initialization is complete. A connection has
	also been setup. Data has been exchanged. Phase 2 or 3 security measures are in effect. The
	tester has transmitted a valid RIcTekAllocationRefresh message.
	Check that: The IUT transmits a valid RIcTekAllocationRefreshAck message.
TP/AT/SEC/KR/BV-002	Reference: TS 102 000 [1], clause 12.4.3
	Initial condition: IUT is the AT. Tester is the AP. Initialization is complete. A connection has
	also been setup. Data has been exchanged. Phase 2 or 3 security measures are in effect. The
	tester has transmitted an RIcTekAllocationRefresh message with an invalid Hmac of the Tek.
	Check that: The IUT transmits a valid RIcTekAllocationRefreshNack message.
TP/AT/SEC/KR/BV-003	Reference: TS 102 000 [1], clause 12.4.3
	Initial condition: IUT is the AT. Tester is the AP. Initialization is complete. A connection has
	also been setup. Data has been exchanged. Phase 2 or 3 security measures are in effect. The
	tester has transmitted a valid RIcTekAllocationRefresh message. The IUT has then
	transmitted a valid RIcTekAllocationRefreshAck message. The tester has then transmitted
	another valid RIcTekAllocationRefresh message identical to the first.
	Check that: The IUT transmits another valid RIcTekAllocationRefreshAck message identical to
	the first.

TP/AT/SEC/KU/BV-000	Reference: TS 102 000 [1], clause 12.4.6.
IT/AT/SEC/R0/BV-000	Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 1 security
	measures are in effect. A U-plane is established between the IUT and the Tester.
	Check that: The IUT sends correctly encrypted unicast UL MAC data PDUs. The EKS and
	(TEK, IVP) shall be the same as those for the DL.
TP/AT/SEC/KU/BV-001	Reference: TS 102 000 [1], clause 12.4.6.
	Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 1 security
	measures are in effect. A U-plane is established between the IUT and the Tester. The IUT is
	correctly encrypting unicast UL MAC data PDUs. The EKS and (TEK, IVP) are the same as
	those for the DL. The tester then increments the EKS modulo 4 in a DL frame.
	Check that: the IUT sends correctly encrypted unicast UL MAC data PDUs according to the
	new EKS within 1 000 frames of the DL frame containing the new EKS.
TP/AT/SEC/KU/BV-002	Reference: TS 102 000 [1], clause 12.4.6.
	Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 1 security
	measures are in effect. A U-plane is established between the IUT and the Tester. The IUT is
	correctly encrypting unicast UL MAC data PDUs. The EKS and (TEK, IVP) are the same as
	those for the DL. The tester then changes the EKS to EKS + 2 modulo 4 in a DL frame .
	Check that: the IUT sends correctly encrypted unicast UL MAC data PDUs according to the
	new EKS within 1 000 frames of the DL frame containing the new EKS.
TP/AT/SEC/KU/BV-003	Reference: TS 102 000 [1], clause 12.4.6.
	Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 1 security
	measures are in effect. A U-plane is established between the IUT and the Tester. The IUT is
	correctly encrypting unicast UL MAC data PDUs. The EKS and (TEK, IVP) are the same as
	those for the DL. The tester then changes the EKS to EKS + 3 modulo 4 in a DL frame.
	Check that: the IUT sends correctly encrypted unicast UL MAC data PDUs according to the
	new EKS within 1000 frames of the DL frame containing the new EKS.
TP/AT/SEC/KU/BV-004	Reference: TS 102 000 [1], clause 12.4.4.
IT/AT/SEC/R0/BV-004	Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security
	measures are in effect. A U-plane is established between the IUT and the Tester. Single-DES
	is active.
	Check that: The IUT sends correctly encrypted unicast UL MAC data PDUs. The EKS shall be
	EKSAllocated1 + 1 modulo 4 using (TEK, IVP)2.
11P/A1/SEC/KU/BV-005	Reference: IS 102 000 [1], clause 12.4.4.
TP/AT/SEC/KU/BV-005	Reference: TS 102 000 [1], clause 12.4.4.
TP/AT/SEC/K0/BV-005	Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security
TP/AT/SEC/KU/BV-005	Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. Optional
TP/AT/SEC/KU/BV-005	Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect. A U-plane is established between the IUT and the Tester. Optional Triple-DES is active.
TP/AT/SEC/KU/BV-005	Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. Optional Triple-DES is active. Check that: The IUT sends correctly encrypted unicast UL MAC data PDUs. The EKS shall be
	Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect. A U-plane is established between the IUT and the Tester. Optional Triple-DES is active.
TP/AT/SEC/KU/BV-005	Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. Optional Triple-DES is active. Check that: The IUT sends correctly encrypted unicast UL MAC data PDUs. The EKS shall be
	Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. Optional Triple-DES is active. Check that: The IUT sends correctly encrypted unicast UL MAC data PDUs. The EKS shall be EKSAllocated1 + 1 modulo 4 using (TEK, IVP)2. Reference: TS 102 000 [1], clause 12.4.3.
	Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. Optional Triple-DES is active. Check that: The IUT sends correctly encrypted unicast UL MAC data PDUs. The EKS shall be EKSAllocated1 + 1 modulo 4 using (TEK, IVP)2. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security
	Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. Optional Triple-DES is active. Check that: The IUT sends correctly encrypted unicast UL MAC data PDUs. The EKS shall be EKSAllocated1 + 1 modulo 4 using (TEK, IVP)2. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester
	Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. Optional Triple-DES is active. Check that: The IUT sends correctly encrypted unicast UL MAC data PDUs. The EKS shall be EKSAllocated1 + 1 modulo 4 using (TEK, IVP)2. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The IUT uses(TEK, IVP)n-1 to encode UL
	Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. Optional Triple-DES is active. Check that: The IUT sends correctly encrypted unicast UL MAC data PDUs. The EKS shall be EKSAllocated1 + 1 modulo 4 using (TEK, IVP)2. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The IUT uses(TEK, IVP)n-1 to encode UL MAC data PDUs. The tester then changes the EKS so that (TEK, IVP)n-1 encodes DL MAC
	 Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. Optional Triple-DES is active. Check that: The IUT sends correctly encrypted unicast UL MAC data PDUs. The EKS shall be EKSAllocated1 + 1 modulo 4 using (TEK, IVP)2. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The IUT uses(TEK, IVP)n-1 to encode UL MAC data PDUs. The tester then changes the EKS so that (TEK, IVP)n-1 encodes DL MAC data PDUs.
TP/AT/SEC/KU/BV-006	 Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. Optional Triple-DES is active. Check that: The IUT sends correctly encrypted unicast UL MAC data PDUs. The EKS shall be EKSAllocated1 + 1 modulo 4 using (TEK, IVP)2. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The IUT uses(TEK, IVP)n-1 to encode UL MAC data PDUs. The tester then changes the EKS so that (TEK, IVP)n-1 encodes DL MAC data PDUs. Check that: the IUT continues using (TEK, IVP)n-1 to encode UL MAC data PDUs.
	 Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. Optional Triple-DES is active. Check that: The IUT sends correctly encrypted unicast UL MAC data PDUs. The EKS shall be EKSAllocated1 + 1 modulo 4 using (TEK, IVP)2. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The IUT uses(TEK, IVP)n-1 to encode UL MAC data PDUs. The tester then changes the EKS so that (TEK, IVP)n-1 encodes DL MAC data PDUs.
TP/AT/SEC/KU/BV-006	 Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. Optional Triple-DES is active. Check that: The IUT sends correctly encrypted unicast UL MAC data PDUs. The EKS shall be EKSAllocated1 + 1 modulo 4 using (TEK, IVP)2. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The IUT uses(TEK, IVP)n-1 to encode UL MAC data PDUs. The tester then changes the EKS so that (TEK, IVP)n-1 encodes DL MAC data PDUs. Check that: the IUT continues using (TEK, IVP)n-1 to encode UL MAC data PDUs. Reference: TS 102 000 [1], clause 12.4.3.
TP/AT/SEC/KU/BV-006	 Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. Optional Triple-DES is active. Check that: The IUT sends correctly encrypted unicast UL MAC data PDUs. The EKS shall be EKSAllocated1 + 1 modulo 4 using (TEK, IVP)2. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The IUT uses(TEK, IVP)n-1 to encode UL MAC data PDUs. The tester then changes the EKS so that (TEK, IVP)n-1 encodes DL MAC data PDUs. Check that: the IUT continues using (TEK, IVP)n-1 to encode UL MAC data PDUs. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security
TP/AT/SEC/KU/BV-006	 Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. Optional Triple-DES is active. Check that: The IUT sends correctly encrypted unicast UL MAC data PDUs. The EKS shall be EKSAllocated1 + 1 modulo 4 using (TEK, IVP)2. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The IUT uses(TEK, IVP)n-1 to encode UL MAC data PDUs. The tester then changes the EKS so that (TEK, IVP)n-1 encodes DL MAC data PDUs. Check that: the IUT continues using (TEK, IVP)n-1 to encode UL MAC data PDUs. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-1 to encode UL MAC data PDUs. Check that: the IUT continues using (TEK, IVP)n-1 to encode UL MAC data PDUs. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester
TP/AT/SEC/KU/BV-006	 Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. Optional Triple-DES is active. Check that: The IUT sends correctly encrypted unicast UL MAC data PDUs. The EKS shall be EKSAllocated1 + 1 modulo 4 using (TEK, IVP)2. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The IUT uses(TEK, IVP)n-1 to encode UL MAC data PDUs. The tester then changes the EKS so that (TEK, IVP)n-1 encodes DL MAC data PDUs. Check that: the IUT continues using (TEK, IVP)n-1 to encode UL MAC data PDUs. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The tester then changes the EKS so that (TEK, IVP)n-1 encodes DL MAC data PDUs. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The IUT uses(TEK, IVP)n-1 to encode UL
TP/AT/SEC/KU/BV-006	 Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. Optional Triple-DES is active. Check that: The IUT sends correctly encrypted unicast UL MAC data PDUs. The EKS shall be EKSAllocated1 + 1 modulo 4 using (TEK, IVP)2. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The IUT uses(TEK, IVP)n-1 to encode UL MAC data PDUs. Check that: the IUT continues using (TEK, IVP)n-1 to encode UL MAC data PDUs. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The IUT uses(TEK, IVP)n-1 to encode UL MAC data PDUs. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The IUT uses(TEK, IVP)n-1 to encode UL MAC data PDUs. The tester then changes the EKS so that (TEK, IVP)n-1 encodes DL MAC
TP/AT/SEC/KU/BV-006	 Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. Optional Triple-DES is active. Check that: The IUT sends correctly encrypted unicast UL MAC data PDUs. The EKS shall be EKSAllocated1 + 1 modulo 4 using (TEK, IVP)2. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The IUT uses(TEK, IVP)n-1 to encode UL MAC data PDUs. The tester then changes the EKS so that (TEK, IVP)n-1 encodes DL MAC data PDUs. Check that: the IUT continues using (TEK, IVP)n-1 to encode UL MAC data PDUs. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT uses(TEK, IVP)n-1 to encode UL MAC data PDUs. Check that: the IUT continues using (TEK, IVP)n-1 to encode UL MAC data PDUs. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The IUT uses(TEK, IVP)n-1 to encode UL MAC data PDUs. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The IUT uses(TEK, IVP)n-1 to encode UL MAC data PDUs. The tester then changes the EKS so that (TEK, IVP)n-1 encodes DL MAC data PDUs.
TP/AT/SEC/KU/BV-006	 Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. Optional Triple-DES is active. Check that: The IUT sends correctly encrypted unicast UL MAC data PDUs. The EKS shall be EKSAllocated1 + 1 modulo 4 using (TEK, IVP)2. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The IUT uses(TEK, IVP)n-1 to encode UL MAC data PDUs. The tester then changes the EKS so that (TEK, IVP)n-1 encodes DL MAC data PDUs. Check that: the IUT continues using (TEK, IVP)n-1 to encode UL MAC data PDUs. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The IUT uses(TEK, IVP)n-1 to encode UL MAC data PDUs. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The IUT uses(TEK, IVP)n-1 to encode UL MAC data PDUs. The tester then changes the EKS so that (TEK, IVP)n-1 to encode UL MAC data PDUs. The tester then changes the EKS so that (TEK, IVP)n-1 encodes DL MAC data PDUs. Check that: after receiving a valid RICTekAllocation message, the IUT uses (TEK, IVP)n with
TP/AT/SEC/KU/BV-006 TP/AT/SEC/KU/BV-007	 Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. Optional Triple-DES is active. Check that: The IUT sends correctly encrypted unicast UL MAC data PDUs. The EKS shall be EKSAllocated1 + 1 modulo 4 using (TEK, IVP)2. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The IUT uses(TEK, IVP)n-1 to encode UL MAC data PDUs. The tester then changes the EKS so that (TEK, IVP)n-1 encodes DL MAC data PDUs. Check that: the IUT continues using (TEK, IVP)n-1 to encode UL MAC data PDUs. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester data PDUs. Check that: the IUT continues using (TEK, IVP)n-1 to encode UL MAC data PDUs. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The IUT uses(TEK, IVP)n-1 to encode UL MAC data PDUs. The tester then changes the EKS so that (TEK, IVP)n-1 encodes DL MAC data PDUs. Check that: after receiving a valid RIcTekAllocation message, the IUT uses (TEK, IVP)n with the corresponding EKS to encode UL MAC data PDUs.
TP/AT/SEC/KU/BV-006	 Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. Optional Triple-DES is active. Check that: The IUT sends correctly encrypted unicast UL MAC data PDUs. The EKS shall be EKSAllocated1 + 1 modulo 4 using (TEK, IVP)2. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The IUT uses(TEK, IVP)n-1 to encode UL MAC data PDUs. The tester then changes the EKS so that (TEK, IVP)n-1 encodes DL MAC data PDUs. Check that: the IUT continues using (TEK, IVP)n-1 to encode UL MAC data PDUs. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The IUT uses(TEK, IVP)n-1 to encode UL MAC data PDUs. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The IUT uses(TEK, IVP)n-1 to encode UL MAC data PDUs. The tester then changes the EKS so that (TEK, IVP)n-1 to encode UL MAC data PDUs. The tester then changes the EKS so that (TEK, IVP)n-1 encodes DL MAC data PDUs. Check that: after receiving a valid RICTekAllocation message, the IUT uses (TEK, IVP)n with
TP/AT/SEC/KU/BV-006 TP/AT/SEC/KU/BV-007	 Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. Optional Triple-DES is active. Check that: The IUT sends correctly encrypted unicast UL MAC data PDUs. The EKS shall be EKSAllocated1 + 1 modulo 4 using (TEK, IVP)2. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The IUT uses(TEK, IVP)n-1 to encode UL MAC data PDUs. The tester then changes the EKS so that (TEK, IVP)n-1 encodes DL MAC data PDUs. Check that: the IUT continues using (TEK, IVP)n-1 to encode UL MAC data PDUs. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester data PDUs. Check that: the IUT continues using (TEK, IVP)n-1 to encode UL MAC data PDUs. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The IUT uses(TEK, IVP)n-1 to encode UL MAC data PDUs. The tester then changes the EKS so that (TEK, IVP)n-1 encodes DL MAC data PDUs. Check that: after receiving a valid RICTekAllocation message, the IUT uses (TEK, IVP)n with the corresponding EKS to encode UL MAC data PDUs. Reference: TS 102 000 [1], clause 12.4.7.
TP/AT/SEC/KU/BV-006 TP/AT/SEC/KU/BV-007	 Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. Optional Triple-DES is active. Check that: The IUT sends correctly encrypted unicast UL MAC data PDUs. The EKS shall be EKSAllocated1 + 1 modulo 4 using (TEK, IVP)2. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The IUT uses(TEK, IVP)n-1 to encode UL MAC data PDUs. Check that: the IUT continues using (TEK, IVP)n-1 to encode UL MAC data PDUs. Check that: the IUT continues using (TEK, IVP)n-1 to encode UL MAC data PDUs. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester data PDUs. Check that: the IUT continues using (TEK, IVP)n-1 to encode UL MAC data PDUs. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The IUT uses(TEK, IVP)n-1 to encode UL MAC data PDUs. The tester then changes the EKS so that (TEK, IVP)n-1 encodes DL MAC data PDUs. Check that: after receiving a valid RIcTekAllocation message, the IUT uses (TEK, IVP)n with the corresponding EKS to encode UL MAC data PDUs. Reference: TS 102 000 [1], clause 12.4.7. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 3 security
TP/AT/SEC/KU/BV-006 TP/AT/SEC/KU/BV-007	 Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. Optional Triple-DES is active. Check that: The IUT sends correctly encrypted unicast UL MAC data PDUs. The EKS shall be EKSAllocated1 + 1 modulo 4 using (TEK, IVP)2. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The IUT uses(TEK, IVP)n-1 to encode UL MAC data PDUs. The tester then changes the EKS so that (TEK, IVP)n-1 to encode UL MAC data PDUs. Check that: the IUT continues using (TEK, IVP)n-1 to encode UL MAC data PDUs. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester data PDUs. Check that: the IUT continues using (TEK, IVP)n-1 to encode UL MAC data PDUs. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The IUT uses(TEK, IVP)n-1 to encode UL MAC data PDUs. Check that: after receiving a valid RICTekAllocation message, the IUT uses (TEK, IVP)n with the corresponding EKS to encode UL MAC data PDUs. Reference: TS 102 000 [1], clause 12.4.7. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 3 security measures are in effect. A U-plane is established between the IUT and the Tester. The IUT is
TP/AT/SEC/KU/BV-006 TP/AT/SEC/KU/BV-007	 Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. Optional Triple-DES is active. Check that: The IUT sends correctly encrypted unicast UL MAC data PDUs. The EKS shall be EKSAllocated1 + 1 modulo 4 using (TEK, IVP)2. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The IUT uses(TEK, IVP)n-1 to encode UL MAC data PDUs. The tester then changes the EKS so that (TEK, IVP)n-1 encodes DL MAC data PDUs. Check that: the IUT continues using (TEK, IVP)n-1 to encode UL MAC data PDUs. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester data PDUs. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The IUT uses(TEK, IVP)n-1 to encode UL MAC data PDUs. The tester then changes the EKS so that (TEK, IVP)n-1 encodes DL MAC data PDUs. Check that: after receiving a valid RIcTekAllocation message, the IUT uses (TEK, IVP)n with the corresponding EKS to encode UL MAC data PDUs. Reference: TS 102 000 [1], clause 12.4.7. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 3 security measures are in effect. A U-plane is established between the IUT and the Tester. The IUT is part of a multicast group. Single-DES is active.
TP/AT/SEC/KU/BV-006 TP/AT/SEC/KU/BV-007	Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. Optional Triple-DES is active. Check that: The IUT sends correctly encrypted unicast UL MAC data PDUs. The EKS shall be EKSAllocated1 + 1 modulo 4 using (TEK, IVP)2. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The IUT uses(TEK, IVP)n-1 to encode UL MAC data PDUs. The tester then changes the EKS so that (TEK, IVP)n-1 to encode UL MAC data PDUs. Check that: the IUT continues using (TEK, IVP)n-1 to encode UL MAC data PDUs. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The IUT uses(TEK, IVP)n-1 to encode UL MAC data PDUs. Check that: the IUT continues using (TEK, IVP)n-1 to ENCODE UL MAC data PDUs. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The IUT uses(TEK, IVP)n-1 to encode UL MAC data PDUs. The tester then changes the EKS so that (TEK, IVP)n-1 encodes DL MAC data PDUs. Check that: after receiving a valid RIcTekAllocation message, the IUT uses (TEK, IVP)n with the corresponding EKS to encode UL MAC data PDUs. Reference: TS 102 000 [1], clause 12.4.7. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 3 security measures are in effect. A U-plane is established between the IUT and the Tester. The IUT is part of a multicast group.
TP/AT/SEC/KU/BV-006 TP/AT/SEC/KU/BV-007 TP/AT/SEC/KU/BV-008	 Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. Optional Triple-DES is active. Check that: The IUT sends correctly encrypted unicast UL MAC data PDUs. The EKS shall be EKSAllocated1 + 1 modulo 4 using (TEK, IVP)2. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The IUT uses(TEK, IVP)n-1 to encode UL MAC data PDUs. Check that: the IUT continues using (TEK, IVP)n-1 to encode UL MAC data PDUs. Check that: the IUT continues using (TEK, IVP)n-1 to encode UL MAC data PDUs. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The IUT uses(TEK, IVP)n-1 to encode UL MAC data PDUs. Check that: after receiving a valid RICTekAllocation message, the IUT uses (TEK, IVP)n with the corresponding EKS to encode UL MAC data PDUs. Reference: TS 102 000 [1], clause 12.4.7. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 3 security measures are in effect. A U-plane is established between the IUT and the Tester. The IUT is part of a multicast group. Single-DES is active. Check that: The IUT correctly decrypts multicast DL MAC data PDUs. T
TP/AT/SEC/KU/BV-006 TP/AT/SEC/KU/BV-007	Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. Optional Triple-DES is active. Check that: The IUT sends correctly encrypted unicast UL MAC data PDUs. The EKS shall be EKSAllocated1 + 1 modulo 4 using (TEK, IVP)2. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The IUT uses(TEK, IVP)n-1 to encode UL MAC data PDUs. The tester then changes the EKS so that (TEK, IVP)n-1 encodes DL MAC data PDUs. Check that: the IUT continues using (TEK, IVP)n-1 to encode UL MAC data PDUs. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The IUT uses(TEK, IVP)n-1 to encode UL MAC data PDUs. Check that: the IUT continues using (TEK, IVP)n-1 to ENCODE UL MAC data PDUS. Check that: after receiving a valid RIcTekAllocation message, the IUT uses (TEK, IVP)n with the corresponding EKS to encode UL MAC data PDUs. Reference: TS 102 000 [1], clause 12.4.7. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 3 security measures are in effect. A U-plane is established between the IUT and the Tester. The IUT is part of a multicast group. Single-DES is active. Check that: The IUT correctly decrypts multicast DL MAC data PDUs. The decryption EKS shall be EKSAllocated1 modulo 4 using (TEK, IVP)1. Reference: TS 102 000 [1], clause 12.4.7.
TP/AT/SEC/KU/BV-006 TP/AT/SEC/KU/BV-007 TP/AT/SEC/KU/BV-008	Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. Optional Triple-DES is active. Check that: The IUT sends correctly encrypted unicast UL MAC data PDUs. The EKS shall be EKSAllocated1 + 1 modulo 4 using (TEK, IVP)2. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The IUT uses(TEK, IVP)n-1 to encode UL MAC data PDUs. The tester then changes the EKS so that (TEK, IVP)n-1 encodes DL MAC data PDUs. Check that: the IUT continues using (TEK, IVP)n-1 to encode UL MAC data PDUs. Check that: the IUT continues using (TEK, IVP)n-1 to encode UL MAC data PDUs. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The IUT uses(TEK, IVP)n-1 to encode UL MAC data PDUs. The tester then changes the EKS so that (TEK, IVP)n-1 encodes DL MAC data PDUs. Check that: after receiving a valid RICTekAllocation message, the IUT uses (TEK, IVP)n with the corresponding EKS to encode UL MAC data PDUs. Reference: TS 102 000 [1], clause 12.4.7. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 3 security measures are in effect. A U-plane is established between the IUT and the Tester. The IUT is part of a multicast group. Single-DES is active. Check that: The IUT correctly decrypts multicast DL MAC data PDUs. The decryption EKS shall be EKSAllocated1 modulo 4 using (TEK, IVP)1. Reference: TS 102 000 [1], clause 12.4.7. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 3 security
TP/AT/SEC/KU/BV-006 TP/AT/SEC/KU/BV-007 TP/AT/SEC/KU/BV-008	Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. Optional Triple-DES is active. Check that: The IUT sends correctly encrypted unicast UL MAC data PDUs. The EKS shall be EKSAllocated1 + 1 modulo 4 using (TEK, IVP)2. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The IUT uses(TEK, IVP)n-1 to encode UL MAC data PDUs. Check that: the IUT continues using (TEK, IVP)n-1 to encode UL MAC data PDUs. Check that: the IUT continues using (TEK, IVP)n-1 to encode UL MAC data PDUs. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The IUT uses(TEK, IVP)n-1 to encode UL MAC data PDUs. Check that: the IUT continues using (TEK, IVP)n-1 to EVENCE USES (TEK, IVP)n-1 to encode UL MAC data PDUs. Check that: after receiving a valid RIcTekAllocation message, the IUT uses (TEK, IVP)n vith the corresponding EKS to encode UL MAC data PDUs. Reference: TS 102 000 [1], clause 12.4.7. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 3 security measures are in effect. A U-plane is established between the IUT and the Tester. The IUT is part of a multicast group. Single-DES is active. Check that: The IUT correctly decrypts multicast DL MAC data PDUs. The decryption EKS shall be EKSAllocated1 modulo 4 using (TEK, IVP)1. Reference: TS 102 000 [1], clause 12.4.7.
TP/AT/SEC/KU/BV-006 TP/AT/SEC/KU/BV-007 TP/AT/SEC/KU/BV-008	Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. Optional Triple-DES is active. Check that: The IUT sends correctly encrypted unicast UL MAC data PDUs. The EKS shall be EKSAllocated1 + 1 modulo 4 using (TEK, IVP)2. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The IUT uses(TEK, IVP)n-1 to encode UL MAC data PDUs. Check that: the IUT continues using (TEK, IVP)n-1 to encode UL MAC data PDUs. Check that: the IUT continues using (TEK, IVP)n-1 to encode UL MAC data PDUs. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The IUT uses(TEK, IVP)n-1 to encode UL MAC data PDUs. Check that: after receiving a valid RIcTekAllocation message, the IUT uses (TEK, IVP)n-1 to encode UL MAC data PDUs. Check that: after receiving a valid RIcTekAllocation message, the IUT uses (TEK, IVP)n with the corresponding EKS to encode UL MAC data PDUs. Reference: TS 102 000 [1], clause 12.4.7. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 3 security measures are in effect. A U-plane is established between the IUT and the Tester. The IUT is part of a multicast group. Single-DES is active. Check that: The IUT correctly decrypts multicast DL MAC data PDUs. The decryption EKS shall be EKSAllocated1 modulo 4 using (TEK, IVP)1. Reference: TS 102 000 [1], clause 12.4.7. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 3 security measures are in effect. A U-plane is established between the IUT and the Tester.
TP/AT/SEC/KU/BV-006 TP/AT/SEC/KU/BV-007 TP/AT/SEC/KU/BV-008	Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. Optional Triple-DES is active. Check that: The IUT sends correctly encrypted unicast UL MAC data PDUs. The EKS shall be EKSAllocated1 + 1 modulo 4 using (TEK, IVP)2. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The IUT uses(TEK, IVP)n-1 to encode UL MAC data PDUs. The tester then changes the EKS so that (TEK, IVP)n-1 to encode UL MAC data PDUs. The tester then changes the EKS so that (TEK, IVP)n-1 encodes DL MAC data PDUs. Check that: the IUT continues using (TEK, IVP)n-1 to encode UL MAC data PDUs. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The IUT uses(TEK, IVP)n-1 to encode UL MAC data PDUs. The tester then changes the EKS so that (TEK, IVP)n-1 encodes DL MAC data PDUs. Check that: after receiving a valid RIcTekAllocation message, the IUT uses (TEK, IVP)n with the corresponding EKS to encode UL MAC data PDUs. Reference: TS 102 000 [1], clause 12.4.7. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 3 security measures are in effect. A U-plane is established between the IUT and the Tester. The IUT is part of a multicast group. Single-DES is active. Check that: The IUT correctly decrypts multicast DL MAC data PDUs. The decryption EKS shall be EKSAllocated1 modulo 4 using (TEK, IVP)1. Reference: TS 102 000 [1], clause 12.4.7. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 3 security measures are in effect. A U-plane
TP/AT/SEC/KU/BV-006 TP/AT/SEC/KU/BV-007 TP/AT/SEC/KU/BV-008	Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. Optional Triple-DES is active. Check that: The IUT sends correctly encrypted unicast UL MAC data PDUs. The EKS shall be EKSAllocated1 + 1 modulo 4 using (TEK, IVP)2. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The IUT uses(TEK, IVP)n-1 to encode UL MAC data PDUs. Check that: the IUT continues using (TEK, IVP)n-1 to encode UL MAC data PDUs. Check that: the IUT continues using (TEK, IVP)n-1 to encode UL MAC data PDUs. Reference: TS 102 000 [1], clause 12.4.3. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 2 security measures are in effect A U-plane is established between the IUT and the Tester. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The IUT uses(TEK, IVP)n-1 to encode UL MAC data PDUs. Check that: after receiving a valid RIcTekAllocation message, the IUT uses (TEK, IVP)n-1 to encode UL MAC data PDUs. Check that: after receiving a valid RIcTekAllocation message, the IUT uses (TEK, IVP)n with the corresponding EKS to encode UL MAC data PDUs. Reference: TS 102 000 [1], clause 12.4.7. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 3 security measures are in effect. A U-plane is established between the IUT and the Tester. The IUT is part of a multicast group. Single-DES is active. Check that: The IUT correctly decrypts multicast DL MAC data PDUs. The decryption EKS shall be EKSAllocated1 modulo 4 using (TEK, IVP)1. Reference: TS 102 000 [1], clause 12.4.7. Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 3 security measures are in effect. A U-plane is established between the IUT and the Tester.

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TP/AT/SEC/KU/BV-010	Reference: TS 102 000 [1], clause 12.4.7.
	Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 3 security
	measures are in effect A U-plane is established between the IUT and the Tester. The IUT is
	part of a multicast group. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The
	IUT and tester then successfully complete an RIcTekAllocationRefresh procedure. The tester
	does not change the DL EKS.
	Check that: after transmitting the RIcTekAllocationRefreshAck message, the IUT continues to
	correctly decrypt multicast DL MAC data PDUs using the (TEK, IVP)n-2.
TP/AT/SEC/KU/BV-011	Reference: TS 102 000 [1], clause 12.4.7.
	Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 3 security
	measures are in effect A U-plane is established between the IUT and the Tester. The IUT is
	part of a multicast group. The tester uses (TEK, IVP)n-2 to encode DL MAC data PDUs. The
	IUT and tester then successfully complete an RIcTekAllocationRefresh procedure for (TEK,
	IVP)n and the corresponding EKS. The tester then changes the EKS so that (TEK, IVP)n-1
	encodes DL MAC data PDUs.
	Check that: after receiving the new EKS associated with (TEK, IVP)n-1, the IUT correctly
	decrypts multicast DL MAC data PDUs pursuant to the new EKS and (TEK, IVP)n-1.
TP/AT/SEC/KU/BV-012	Reference: TS 102 000 [1], clause 12.2.2
	Initial condition: IUT is the AT. Tester is the AP. The IUT is initialized. Phase 1, 2, or 3 security
	measures are in effect. A U-plane is established between the IUT and the Tester. The tester
	transmits an RIcGeneralBroadcastInformation message with the EncryptionMode field set to
	OFF.
	Check that: the IUT ceases encryption of all UL data PDUs.

5.3.4 Connection Control

5.3.4.1 Connection Establishment

5.3.4.1.1 AP Initiated Connection Establishment

TP/AT/COC/CE/BV-000	Reference: TS 102 000 [1], clause 13.4.2.2. Initial condition: IUT is the AT. Tester is the AP.
	IUT is initialized.
	Check that: Upon receiving the Connection Addition Setup message, the IUT replies to the LT
	with a Connection Addition Ack message.
	Final pseudo state: The IUT is establishing a connection.
TP/AT/COC/CE/BV-001	Reference: TS 102 000 [1], clause 13.4.2.2.
	Initial condition: IUT is the AT. Tester is the AP.
	IUT is initialized and has received a Connection Addition Setup message and then sent an
	Connection Addition Ack message and started T_RIcConnectionAdditionAck.
	Check that: Upon expiry of T_RIcConnectionAdditionAck and if no message has been
	received during this timer's duration, the IUT considers the connection established.
	Final pseudo state: The IUT is operational and the connection is established.
TP/AT/COC/CE/BV-002	Reference: TS 102 000 [1], clause 13.4.2.2.
	Initial condition: IUT is the AT. Tester is the AP.
	IUT is initialized has received a Connection Addition Setup message, and then transmitted a
	Connection Addition Ack message and started T_RIcConnectionAdditionAck.
	Check that: Upon receiving another Connection Addition Setup message within this timer's
	duration, the IUT transmits another valid Connection Addition Ack message.
	Final pseudo state: The IUT is establishing a connection.
TP/AT/COC/CE/BV-003	Reference: TS 102 000 [1], clause 13.4.2.2.
	Initial condition: IUT is the AT. Tester is the AP.
	IUT is initialized, has received a Connection Addition Setup message, then transmitted a
	Connection Addition Ack message and started T_RIcConnectionAdditionAck.
	Check that: Each time the IUT receives a Connection Addition Setup message during this
	timer's duration, the IUT:
	1) Transmits another valid Connection Addition Ack message.
	2) And restarts T_RIcConnectionAdditionAck upon sending this Connection Addition Ack
	message.
	Final pseudo state: The IUT is establishing a connection.
	NOTE: The number of these repetitions is unlimited in the specification.

TP/AT/COC/CE/BV-004	Reference: TS 102 000 [1], clause 13.4.2.1.
	Initial condition: IUT is the AT. Tester is the AP.
	IUT is initialized.
	Check that: To establish a connection, the IUT sends a valid Connection Addition Init
	message.
	Final pseudo state: The IUT is establishing a connection.
TP/AT/COC/CE/BV-005	Reference: TS 102 000 [1], clause 13.4.2.1.
	Initial condition: IUT is the AT. Tester is the AP.
	IUT is initialized and has sent a valid Connection Addition Init message. Check that: Upon receiving a valid Connection Addition Setup message, the IUT transmits to
	the LT a valid Connection Addition Ack message.
	Final pseudo state: The IUT is establishing a connection.
TP/AT/COC/CE/BV-006	Reference: TS 102 000 [1], clause 13.4.2.1.
	Initial condition: IUT is the AT. Tester is the AP.
	IUT is initialized, has sent a valid Connection Addition Init message, then received a valid
	Connection Addition Setup message, and then transmitted a valid Connection Addition Ack
	message and started T_RIcConnectionAdditionAck.
	Check that: Upon this timer's expiry and the IUT having received no message during this
	timer's duration, the IUT considers the connection established.
	Final pseudo state: The IUT is operational and the connection is established.
TP/AT/COC/CE/BV-007	Reference: TS 102 000 [1], clause 13.4.2.1.
	Initial condition: IUT is the AT. Tester is the AP.
	The IUT is initialized.
	IUT is initialized, has sent a valid Connection Addition Init message and started
	T_RIcConnectionAdditionInit.
	Check that: Upon this timer's expiry and the IUT having received no valid Connection Addition
	Setup message with this timer's duration, the IUT retransmits the Connection Addition Init
	message.
	Final pseudo state: The IUT is establishing a connection.
TP/AT/COC/CE/BV-008	Reference: TS 102 000 [1], clause 13.4.2.1.
	Initial condition: IUT is the AT. Tester is the AP.
	The IUT is initialized and has sent a valid Connection Addition Init message.
	Check that: Each time T_RIcConnectionAddInit expires without the reception of a valid
	Connection Addition Setup message within the timer's duration, the IUT:
	1) Retransmits the Connection Addition Init message;
	2) And restarts T_RIcConnectionAddInit upon sending this message.
	Final pseudo state: The IUT is establishing a connection.
	NOTE: The number of these repetitions is unlimited in the specification.
TP/AT/COC/CE/BV-009	Reference: TS 102 000 [1], clause 13.4.2.1.
	Initial condition: IUT is the AT. Tester is the AP.
	The IUT is initialized, has sent a valid Connection Addition Init message and received a valid
	Connection Addition Setup message to which it transmits a valid Connection Addition Ack message and starts T_ RIcConnectionAdditionAck.
	Check that: After receiving a valid Connection Addition Setup message, the IUT transmits a
	valid Connection Addition Ack message.
	Final pseudo state: The IUT is establishing a connection.
TP/AT/COC/CE/BV-010	Reference: TS 102 000 [1], clause 13.4.2.1.
	Initial condition: IUT is the AT. Tester is the AP.
	The IUT is initialized, has sent a valid Connection Addition Init message and received a valid
	Connection Addition Setup message to which it transmits a valid Connection Addition Ack
	message and starts T_ RIcConnectionAdditionAck.
	Check that: Each time upon receiving a valid Connection Addition Setup message, the IUT:
	1) Transmits a Connection Addition Ack message.
	2) And restarts T_RIcConnectionAdditionAck upon sending this message.
	Final pseudo state: The IUT is establishing a connection.
	NOTE: The specification does not limit the number of times that this cycling can occur.
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5.3.4.1.2 AT Initiated Connection Establishment

5.3.4.2 Connection Modification

5.3.4.2.1 AP Initiated Connection Modification

TP/AT/COC/CM/BV-000	Reference: TS 102 000 [1], clause 13.4.3.
	Initial condition: IUT is the AT. Tester is the AP.
	IUT is initialized and a connection is established with the tester.
	Check that: Upon receiving the Connection Change Setup message, the IUT replies to the LT
	with a Connection Change Ack message.
	Final pseudo state: The IUT is modifying a connection.
TP/AT/COC/CM/BV-001	Reference: TS 102 000 [1], clause 13.4.3.
	Initial condition: IUT is the AT. Tester is the AP.
	IUT is initialized and a connection is established with the tester.
	IUT has received a Connection Change Setup message, replied to it with a Connection
	Change Ack, and started T_RIcConnectionChangeAck.
	Check that: Upon expiry of T_RIcConnectionChangeAck and if no message has been
	received during this timer's duration, the IUT considers the connection modified.
	Final pseudo state: The IUT is operational and the connection continues as modified.
TP/AT/COC/CM/BV-002	Reference: TS 102 000 [1], clause 13.4.3.
	Initial condition: IUT is the AT. Tester is the AP.
	IUT is initialized and a connection is established with the tester.
	IUT has received a Connection Change Setup message, and then transmitted a Connection
	Change Ack message and started T_RIcConnectionChangeAck.
	Check that: Upon receiving another Connection Change Setup message within this timer's
	duration, the IUT transmits another valid Connection Change Ack message.
	Final pseudo state: The IUT is modifying a connection.
TP/AT/COC/CM/BV-003	Reference: TS 102 000 [1], clause 13.4.3.
	Initial condition: IUT is the AT. Tester is the AP.
	IUT is initialized and a connection is established with the tester.
	IUT has received a Connection Change Setup message, then transmitted a Connection
	Change Ack message and started T_RIcConnectionChangeAck.
	Check that: Each time the IUT receives a Connection Change Setup message during this
	timer's duration, the IUT:
	1) Transmits another valid Connection Change Ack message.
	2) Restarts T_RIcConnectionChangeAck when sending this Connection Change Ack
	message.
	Final pseudo state: The IUT is modifying a connection.
	NOTE: The specification does not limit the number of times that this cycling can occur.

5.3.4.2.2 AT Initiated Connection Modification

TP/AT/COC/CM/BV-004	Reference: TS 102 000 [1], clause 13.4.3.
	Initial condition: IUT is the AT. Tester is the AP.
	IUT is initialized and a connection is established with the tester.
	Check that: To modify a connection, the IUT sends a valid Connection Change Init message.
	Final pseudo state: The IUT is modifying a connection.
TP/AT/COC/CM/BV-005	Reference: TS 102 000 [1], clause 13.4.3.
	Initial condition: IUT is the AT. Tester is the AP.
	IUT is initialized, a connection is established with the tester, and the IUT has sent a valid
	Connection Change Init message.
	Check that: Upon receiving a valid Connection Change Setup message, the IUT replies to the
	LT with a valid Connection Change Ack message.
	Final pseudo state: The IUT is modifying a connection.
TP/AT/COC/CM/BV-006	Reference: TS 102 000 [1], clause 13.4.3.
	Initial condition: IUT is the AT. Tester is the AP.
	IUT is initialized; a connection is established with the tester; and the IUT has sent a valid
	Connection Change Init message and then received a valid Connection Change Setup
	message, and then transmitted a valid Connection Change Ack message and started
	T_RIcConnectionChangeAck.
	Check that: Upon this timer's expiry and the IUT having received no message during this
	timer's duration, the IUT considers the connection modified.
	Final pseudo state: The IUT is operational and the connection continues as modified.

TP/AT/COC/CM/BV-007	Reference: TS 102 000 [1], clause 13.4.3.
	Initial condition: IUT is the AT. Tester is the AP.
	IUT is initialized and a connection is established with the tester message and started
	T_RIcConnectionChangeInit.
	Check that: Upon this timer's expiry and the IUT having received no valid Connection Change
	Setup message with this timer's duration, the IUT retransmits the Connection Change Init
	message.
	Final pseudo state: The IUT is modifying a connection.
TP/AT/COC/CM/BV-008	Reference: TS 102 000 [1], clause 13.4.3.
	Initial condition: IUT is the AT. Tester is the AP.
	The IUT is initialized, a connection is established with the tester, and the IUT has sent a valid
	Connection Change Init message.
	Check that: Each time T_RIcConnectionChangeInit expires without the reception of a valid
	Connection Change Setup message within the timer's duration, the IUT:
	1) Retransmits the Connection Change Init message.
	And restarts T_RIcConnectionChangeInit upon sending this message.
	Final pseudo state: The IUT is modifying a connection.
	NOTE: The number of these repetitions is unlimited in the specification.
TP/AT/COC/CM/BV-009	Reference: TS 102 000 [1], clause 13.4.3.
	Initial condition: IUT is the AT. Tester is the AP.
	The IUT is initialized, a connection is established with the tester, and the IUT has sent a valid
	Connection Change Init message and received a valid Connection Change Setup message to
	which it transmits a valid Connection Change Ack message and starts T_
	RIcConnectionChangeAck.
	Check that: After receiving a valid Connection Change Setup message, the IUT transmits a
	valid Connection Change Ack message.
	Final pseudo state: The IUT is modifying a connection.
TP/AT/COC/CM/BV-0010	Reference: TS 102 000 [1], clause 13.4.3.
	Initial condition: IUT is the AT. Tester is the AP.
	The IUT is initialized, a connection is established with the tester, and the IUT has sent a valid
	Connection Change Init message and received a valid Connection Change Setup message to
	which it transmitted a valid Connection Change Ack message and started T_
	RIcConnectionChangeAck.
	Check that: Each time upon receiving a valid Connection Change Setup message, the IUT:
	1) Transmits a Connection Change Ack message.
	2) And restarts T_RIcConnectionChangeAck upon sending this message.
	Final pseudo state: The IUT is modifying a connection.
	NOTE: The specification does not limit the number of times that this cycling can occur.

5.3.4.3 Connection Termination

5.3.4.3.1 AP Initiated Connection Termination

TP/AT/COC/CT/BV-000	Reference: TS 102 000 [1], clause 13.4.4.
	Initial condition: IUT is the AT. Tester is the AP.
	IUT is initialized and a connection is established with the Tester.
	Check that: Upon receiving a valid Connection Deletion Init message, the IUT replies to the
	LT with a Connection Deletion Ack message.
	Final pseudo state: The IUT is releasing a connection.
TP/AT/COC/CT/BV-001	Reference: TS 102 000 [1], clause 13.4.4.
	Initial condition: IUT is the AT. Tester is the AP.
	IUT is initialized, a connection is established with the Tester, and the IUT has received a valid
	Connection Deletion Init message and then sent a valid Connection Deletion Ack message.
	Check that: Upon T_RIcConnectionDeletionAck expiry and if no message has been received
	during this timer's duration, the IUT considers the connection released.
	Final pseudo state: The IUT is operational and the connection no longer exists.
TP/AT/COC/CT/BV-002	Reference: TS 102 000 [1], clause 13.4.4.
	Initial condition: IUT is the AT. Tester is the AP.
	IUT is initialized; a connection is established with the Tester; and the IUT has received a valid
	Connection Deletion Init message, then sent a valid Connection Deletion Ack message and
	started T_ RIcConnectionDeletionAck.
	Check that: Upon receiving a Connection Deletion Init message, the IUT transmits a valid
	Connection Deletion Ack message.
	Final pseudo state: The IUT is releasing a connection.

TP/AT/COC/CT/BV-003	Reference: TS 102 000 [1], clause 13.4.4.
	Initial condition: IUT is the AT. Tester is the AP.
	IUT is initialized; a connection is established with the Tester; and the IUT has received a valid
	Connection Deletion Init message, then sent a valid Connection Deletion Ack message and
	started T_ RIcConnectionDeletionAck.
	Check that: Each time, upon receiving a Connection Deletion Init message, the IUT:
	1) Transmits a valid Connection Deletion Ack message.
	 Restarts T_RIcConnectionDeletionAck upon sending this message.
	Final pseudo state: The IUT is releasing a connection.
	NOTE: The specification does not limit the number of times that this cycling can occur.

5.3.4.3.2 AT Initiated Connection Termination

TP/AT/COC/CT/BV-004	Reference: TS 102 000 [1], clause 13.4.4.
	Initial condition: IUT is the AT. Tester is the AP.
	UT is initialized and a connection is established with the Tester.
	Check that: To release a connection, the IUT sends a relevant Connection Deletion Init
	message.
	Final pseudo state: The IUT is releasing a connection.
TP/AT/COC/CT/BV-005	Reference: TS 102 000 [1], clause 13.4.4.
	Initial condition: IUT is the AT. Tester is the AP.
	IUT is initialized, a connection is established with the Tester, and IUT has transmitted a valid
	Connection Deletion Init message.
	Check that: Upon receiving a valid Connection Deletion Ack message, the IUT:
	1) Starts T_RIcConnectionDeletionAck.
	2) Considers the connection released after T_RIcConnectionDeletionAck expires.
	Final pseudo state: The IUT is operational and the connection no longer exists.
TP/AT/COC/CT/BV-006	Reference: TS 102 000 [1], clause 13.4.4.
	Initial condition: IUT is the AT. Tester is the AP.
	IUT is initialized, has a valid connection with the Tester, has transmitted a Connection
	Deletion Init message, and started T_RIcConnectionDeletionInit.
	Check that: After T_RIcConnectionDeletionInit expires without receiving a Connection
	Deletion Ack message; the IUT retransmits another valid Connection Deletion Init message.
	Final pseudo state: The IUT is releasing a connection.
TP/AT/COC/CT/BV-007	Reference: TS 102 000 [1], clause 13.4.4.
	Initial condition: IUT is the AT. Tester is the AP.
	IUT is initialized, has a valid connection with the Tester, has transmitted a Connection
	Deletion Init message, and started T_ RIcConnectionDeletionInit.
	Check that: Each time T_ RIcConnectionDeletionInit expires without the IUT having received a
	Connection Deletion Init message, the IUT:
	1) Retransmits another valid Connection Deletion Init message.
	2) And restarts T_ RIcConnectionDeletionInit upon sending this message.
	Final pseudo state: The IUT is releasing a connection.
	NOTE: The specification does not limit the number of times that this cycling can occur.

• ITU-T Recommendation X.290: "OSI conformance testing methodology and framework for protocol Recommendations for ITU-T applications - General concepts".

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- ITU-T Recommendation X.291: "OSI conformance testing methodology and framework for protocol Recommendations for ITU-T applications Abstract test suite specification".
- ETSI TS 102 149-1: "Broadband Radio Access Networks (BRAN); HIPERACCESS; Conformance testing for the Data Link Control (DLC) layer; Part 1: Protocol Implementation Conformance Statement (PICS) proforma".

History

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