ETSI TS 101 823-2-1 V1.3.1 (2003-07)

Technical Specification
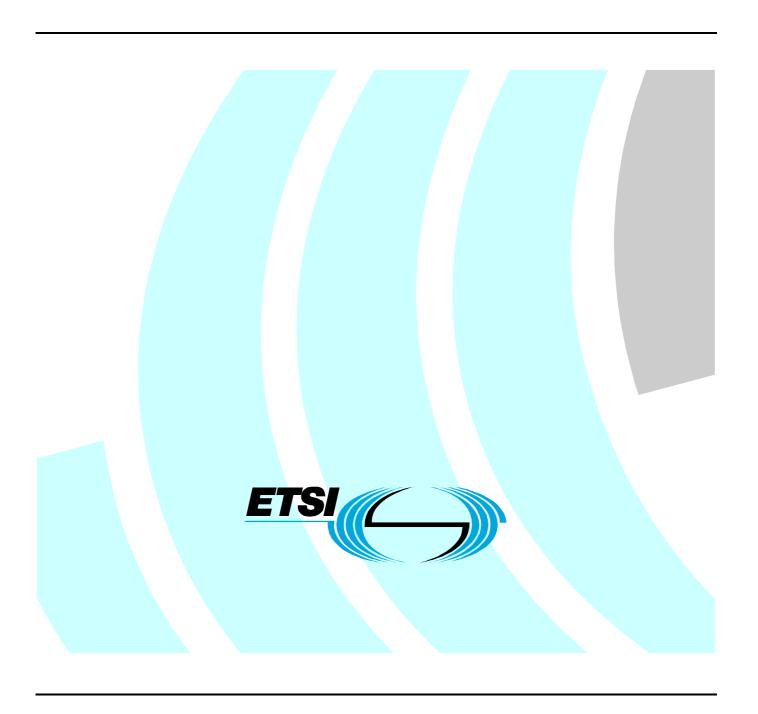
**Broadband Radio Access Networks (BRAN);
HIPERLAN Type 2;
Conformance testing for the Data Link Control (DLC) layer;
Part 2: Radio Link Control (RLC) sublayer;
Sub-part 1: Protocol Implementation Conformance
Statement (PICS) proforma**

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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, sub-part 1 of a multi-part deliverable. Full details of the entire series can be found in part 1, sub-part 1 [5].

Introduction

To evaluate conformance of a particular implementation, it is necessary to have a statement of which capabilities and options have been implemented for a telecommunication specification. Such a statement is called a Protocol Implementation Conformance Statement (PICS).

1 Scope

The present document provides the Protocol Implementation Conformance Statement (PICS) proforma for the Radio Link Control (RLC) layer of Hiperlan type 2 as defined in TS 101 761-2[1] in compliance with the relevant requirements, and in accordance with the relevant guidance given in ISO/IEC 9646-7 [4] and ETS 300 406 [2].

It details in tabular form the implementation options, i.e. the optional functions additional to those which are mandatory to implement.

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 101 761-2 (V1.3.1): "Broadband Radio Access Networks (BRAN); HIPERLAN Type 2; Data Link Control (DLC) Layer; Part 2: Radio Link Control (RLC) sublayer".

[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 9646-7: "Information technology - Open systems interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".

[5]   ETSI TS 101 823-1-1 (V1.3.1): "Broadband Radio Access Networks (BRAN); HIPERLAN Type 2; Conformance testing for the Data Link Control (DLC) layer; Part 1: Basic data transport functions; Sub-part 1: Protocol Implementation Conformance Statement (PICS) proforma".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in TS 101 761-2 [1], ISO/IEC 9646-1 [3] and ISO/IEC 9646-7 [4] and the following apply:

Implementation Conformance Statement (ICS): statement made by the supplier of an implementation or system claimed to conform to a given specification, stating which capabilities have been implemented. The ICS can take several forms: protocol ICS, profile ICS, profile specific ICS, information object ICS, etc.

ICS proforma: document, in the form of a questionnaire, which when completed for an implementation or system becomes an ICS

Protocol ICS (PICS): ICS for an implementation or system claimed to conform to a given protocol specification

3.2 Abbreviations

ACF	Association Control Function
AP	Access Point
CL	Convergence Layer
DCCH	Dedicated Control CHannel
DES	Data Encryption Standard
DFS	Dynamic Frequency Selection
DLC	Data Link Control
DM	Direct Mode
DUC	DLC User Connection
ICS	Implementation Conformance Statement
IUT	Implementation Under Test
MAC	Medium Access Control
MT	Mobile Terminal
PDU	Protocol Data Unit
PICS	Protocol ICS
RLC	Radio Link Control
RRC	Radio Resource Control
SCS	System Conformance Statement
SUT	System Under Test

4 Conformance to this PICS proforma specification

If it claims to conform to the present document, the actual PICS proforma to be filled in by a supplier shall be technically equivalent to the text of the PICS proforma given in annex A, and shall preserve the numbering/naming and ordering of the proforma items.

An PICS which conforms to the present document shall be a conforming PICS proforma completed in accordance with the guidance for completion given in clause A.1.

Annex A (normative):
Protocol ICS proforma for TS 101 761-2

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

A.1 Guidance for completing the PICS proforma

A.1.1 Purposes and structure

The purpose of this PICS proforma is to provide a mechanism whereby a supplier of an implementation of the requirements defined in TS 101 761-2 [1] may provide information about the implementation in a standardized manner.

The PICS proforma is subdivided into clauses for the following categories of information:

- guidance for completing the PICS proforma;

- identification of the implementation;

- identification of the TS 101 761-2;

- global statement of conformance;

- roles;

- Mobile Terminal MT:

    - major capabilities;

    - PDUs;

    - PDU parameters;

    - timers;

- Access Point AP:

    - major capabilities;

    - PDUs;

    - PDU parameters;

    - timers.

A.1.2 Abbreviations and conventions

The PICS proforma contained in this annex is comprised of information in tabular form in accordance with the guidelines presented in ISO/IEC 9646-7 [4].

Item column

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

Item description column

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

Status column

The following notations, defined in ISO/IEC 9646-7 [4], are used for the status column:

m   mandatory - the capability is required to be supported.

o   optional - the capability may be supported or not.

n/a   not applicable - in the given context, it is impossible to use the capability.

x   prohibited (excluded) - there is a requirement not to use this capability in the given context.

o.i   qualified optional - for mutually exclusive or selectable options from a set. "i" is an integer which identifies an unique group of related optional items and the logic of their selection which is defined immediately following the table.

ci   conditional - the requirement on the capability ("m", "o", "x" or "n/a") depends on the support of other optional or conditional items. "i" is an integer identifying an unique conditional status expression which is defined immediately following the table.

i   irrelevant (out-of-scope) - capability outside the scope of the reference specification. No answer is requested from the supplier.

   NOTE 1: This use of "i" status is not to be confused with the suffix "i" to the "o" and "c" statuses above.

Reference column

The reference column makes reference to TS 101 761-2 [1], except where explicitly stated otherwise.

Support column

The support column shall be filled in by the supplier of the implementation. The following common notations, defined in ISO/IEC 9646-7 [4], are used for the support column:

Y or y   supported by the implementation.

N or n   not supported by the implementation.

N/A, n/a or -   no answer required (allowed only if the status is n/a, directly or after evaluation of a conditional status).

If this PICS proforma is completed in order to describe a multiple-profile support in a system, it is necessary to be able to answer that a capability is supported for one profile and not supported for another. In that case, the supplier shall enter the unique reference to a conditional expression, preceded by "?" (e.g. ?3). This expression shall be given in the space for comments provided at the bottom of the table. It uses predicates defined in the SCS, each of which refers to a single profile and which takes the value TRUE if and only if that profile is to be used.

   EXAMPLE 1:   ?3: IF prof1 THEN Y ELSE N.

   NOTE 2: As stated in ISO/IEC 9646-7 [4], support for a received PDU requires the ability to parse all valid parameters of that PDU. Supporting a PDU while having no ability to parse a valid parameter is non-conformant. Support for a parameter on a PDU means that the semantics of that parameter are supported.

Values allowed column

The values allowed column contains the type, the list, the range, or the length of values allowed. The following notations are used:

- range of values: <min value> .. <max value>
  example: 5 .. 20

- list of values: <value1>, <value2>, ..., <valueN>
  example: 2 ,4 ,6 ,8, 9
  example: '1101'B, '1011'B, '1111'B
  example: '0A'H, '34'H, '2F'H

- list of named values: <name1>(<val1>), <name2>(<val2>), ..., <nameN>(<valN>)
  example: reject(1), accept(2)

- length: size (<min size> .. <max size>)
  example: size (1 .. 8)

Values supported column

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

References to items

For each possible item answer (answer in the support column) within the PICS proforma a unique reference exists, used, for example, in the conditional expressions. It is defined as the table identifier, followed by a solidus character "/", followed by the item number in the table. If there is more than one support column in a table, the columns are discriminated by letters (a, b, etc.), respectively.

EXAMPLE 2:   A.5/4 is the reference to the answer of item 4 in table A.5.

EXAMPLE 3:   A.6/3b is the reference to the second answer (i.e. in the second support column) of item 3 in table A.6.

Prerequisite line

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

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

A.1.3   Instructions for completing the PICS proforma

The supplier of the implementation shall complete the PICS proforma in each of the spaces provided. In particular, an explicit answer shall be entered, in each of the support or supported column boxes provided, using the notation described in clause A.1.2.

However, the tables containing in "user role" or "Mobile Terminal MT" clause shall only be completed for MT implementations, and the tables containing in "network role" or "Access Point AP" clause shall only be completed for AP implementations.

If necessary, the supplier may provide additional comments in space at the bottom of the tables or separately.

More detailed instructions are given at the beginning of the different clauses of the PICS proforma.

A.2 Identification of the implementation

Identification of the Implementation Under Test (IUT) and the system in which it resides (the System Under Test (SUT)) should be filled in so as to provide as much detail as possible regarding version numbers and configuration options.

The product supplier information and client information should both be filled in if they are different.

A person who can answer queries regarding information supplied in the PICS should be named as the contact person.

A.2.1 Date of the statement

....

A.2.2 Implementation Under Test (IUT) identification

IUT name:

....

....

IUT version:

....

A.2.3 System Under Test (SUT) identification

SUT name:

....

....

Hardware configuration:

....

....

....

Operating system:

....

A.2.4 Product supplier

Name:

....

Address:

....

 ....

....

Telephone number:

....

Facsimile number:

....

E-mail address:

....

Additional information:

....

....

....

A.2.5 Client (if different from product supplier)

Name:

....

Address:

....

....

....

Telephone number:

....

Facsimile number:

....

E-mail address:

....

Additional information:

....

....

A.2.6   PICS contact person

(A person to contact if there are any queries concerning the content of the PICS)

Name:

....

Telephone number:

....

Facsimile number:

....

E-mail address:

....

Additional information:

....

....

....

A.3   Identification of the protocol

This PICS proforma applies to the following standard:

TS 101 761-2: "Broadband Radio Access Networks (BRAN); HIPERLAN Type 2; Data Link Control (DLC) layer; Radio Link Control (RLC) sublayer".

A.4   Global statement of conformance

Are all mandatory capabilities implemented? (Yes/No) ....

> NOTE: Answering "No" to this question indicates non-conformance to the TS 101 761-2 specification. Non-supported mandatory capabilities are to be identified in the PICS, with an explanation of why the implementation is non-conforming, on pages attached to the PICS proforma.

A.5   Roles

Table A.1: Roles

Item	Role	Reference	Status	Support
1	Mobile Terminal MT	4	o.1	
2	Access Point AP	4	o.1	
o.1:	It is mandatory to support at least one of these items.			

Comments: ....

....

A.6 Mobile Terminal MT

This clause contains the PICS proforma tables related to the Mobile Terminal MT. They need to be completed for description of MT implementations only.

Prerequisite: A.1/1 -- Mobile Terminal MT

A.6.1 Major MT capabilities and functionalities of RLC

Table A.2: Major MT functionalities

Item	Services supporting:	Reference	Status	Support
1	Association Control Function ACF	5.1	m	
2	Radio Resource Control RRC	5.2	m	
3	DLC User Connection Control DUC	5.3	m	

A.6.1.1 Services supporting ACF: Association Control Function

The supplier of the implementation shall state the support of the implementation for the services required by each of the following ACF procedures and associated capabilities.

Table A.3: MT ACF procedures

Item	Services supporting:	Reference	Status	Support
1	Association functions	5.1.1	m	
2	Encryption	5.1.1.4, 5.1.2	m	
3	Authentication	5.1.1.5, 5.1.2	m	
4	Disassociation	5.1.3	m	
5	Multicast	5.1.4	o	
6	CL Broadcast	5.1.5	o	
7	Association Rejection	5.1.6	m	

Comments: ....

....

A.6.1.1.1 Association functions

Table A.4: MT Association functions

Item	Capabilities	Reference	Status	Support
1	MT receives Association message	5.1.1.1	m	
2	MT initiates Association request message	5.1.1.1	o	
3	MT initiates checking of Convergence Layer Ids	5.1.1.1	m	
4	MT supports multiple Convergence layers	5.1.1.1	o	
5	MT sends request for Mac ID assignment	5.1.1.2	m	
6	MT initiates exchange of link capabilities	5.1.1.3	m	
7	MT initiates info transfer procedure with AP (or with MT for Direct Link purpose)	5.1.1.8	o	

Table A.5: MT connection modes and link capabilities

Item	Capabilities	Reference	Status	Support
1	MT supports centralized mode	5.1.1.3	m	
2	MT supports direct mode	5.3.7	o	
3	MT supports two frequency bands	5.1.1.3	o	

A.6.1.1.2   Security functions

Table A.6: MT Security functions

Item	Capabilities	Reference	Status	Support
1	MT supports user data encryption and initiates encryption start-up	5.1.1.4	m	
2	MT supports authentication	5.1.1.5, 5.1.1.6	m	
3	MT supports Direct Mode common key distribution	5.1.1.7	c601	
c601:	IF A.5/2 -- If MT supports Direct mode; THEN m -- then mandatory; ELSE n/a.			

Table A.7: MT Encryption algorithm

Item	Capabilities	Reference	Status	Support
1	DES encryption	5.1.2.5	m	
2	Triple DES encryption	5.1.2.5	o	

Table A.8: MT Encryption keys

Item	Capabilities	Reference	Status	Support
1	DES encryption for unicast	5.1.2.5	m	
2	DES encryption for multicast	5.1.2.5	c801	
3	DES encryption for broadcast	5.1.2.5	c802	
4	Triple DES encryption for unicast	5.1.2.5	c803	
5	Triple DES encryption for multicast	5.1.2.5	c804	
6	Triple DES encryption for broadcast	5.1.2.5	c805	
c801:	IF A.3/5 -- If MT supports multicast; THEN m -- then mandatory; ELSE n/a.			
c802:	IF A.3/6 -- If MT supports broadcast; THEN m -- then mandatory; ELSE n/a.			
c803:	IF A.7/2 -- If MT supports Triple DES; THEN m -- then mandatory; ELSE n/a.			
c804:	IF A.3/5 AND A.7/2 -- If MT supports multicast AND Triple DES; THEN m -- then mandatory; ELSE n/a.			
c805:	IF A.3/6 AND A.7/2 -- If MT supports broadcast AND Triple DES; THEN m -- then mandatory; ELSE n/a.			

Table A.9: MT Key management

Item	Capabilities	Reference	Status	Support
1	MT refreshes unicast encryption key	5.1.2.2	m	
2	MT refreshes common encryption keys for multicast	5.1.2.3	c901	
3	MT refreshes common encryption keys for broadcast	5.1.2.3	c902	
c901:	IF A.3/5 -- If MT supports multicast; THEN m -- then mandatory; ELSE n/a.			
c902:	IF A.3/6 -- If MT supports Broadcast; THEN m -- then mandatory; ELSE n/a.			

Table A.10: Authentication protocols and key identifiers assigned in MT

Item	Capabilities	Reference	Status	Support
1	IEEE address	5.1.1.5.3.2	o.2	
2	Extended IEEE address	5.1.1.5.3.3	o.2	
3	Network access identifier	5.1.1.5.3.4	o.2	
4	Distinguished name X509	5.1.1.5.3.5	o.2	
5	Compressed type	5.1.1.5.3.6	o.2	
6	Generic type	5.1.1.5.3.7	o.2	
o.2	support of one of these items is mandatory, others are optional.			

Table A.11: MT Authentication algorithms

Item	Capabilities	Reference	Status	Support
1	Authentication with pre-shared key	5.1.1.6.1	m	
2	Public key based algorithm (RSA)	5.1.2.6.1	o	

Table A.12: MT Authentication with pre-shared key

Item	Capabilities	Reference	Status	Support
1	MD5 algorithm	5.1.2.6.1	m	
2	HMAC algorithm	5.1.2.6.1	m	

Table A.13: RSA Authentication protocols in MT

Prerequisite: A.11 /2 -- MT supports public key based authentication				
Item	Capabilities	Reference	Status	Support
1	RSA512 bit signature	5.1.1.6.2	o.3	
2	RSA768 bit signature	5.1.1.6.3	o.3	
3	RSA1024 bit signature	5.1.1.6.4	o.3	
o.3:	support at least one of these items if A.11/2 -- MT supports public key based authentication.			

A.6.1.1.3   Disassociation functions

Table A.14: MT Disassociation

Item	Procedures	MT Initiating			MT Receiving		
		Reference	Status	Support	Reference	Status	Support
1	Explicit disassociation	5.1.3	m		5.1.3	m	
2	Implicit disassociation initiated by MT	5.1.3	m			n/a	

A.6.1.1.4 Multicast functions

Table A.15: Multicast procedures

Item	Capabilities	Reference	Status	Support
Prerequisite: A.3/5 -- MT supports multicast				
1	Multicast with multicast addressing	5.1.4	o.4	
2	Multicast with N unicast addressing	5.1.4	o.4	
If prerequisite is achieved: o.4: It is mandatory to support at least one of these multicast modes.				

Table A.16: MT Multicast

Item	Capabilities	Reference	Status	Support
Prerequisite: A.3/5 -- MT supports multicast				
1	MT initiates multicast (group join)	5.1.4	m	
2	MT leaves multicast group (group-leave message is used)	5.1.4	m	

A.6.1.1.5 CL Broadcast functions

Table A.17: MT CL broadcast

Item	Capabilities	Reference	Status	Support
Prerequisite: A.3/6 -- MT supports CL Broadcast				
1	MT initiates Broadcast (broadcast join)	5.1.5	m	
2	MT leaves Broadcast (broadcast -leave message is used)	5.1.5	o	

A.6.1.2 Services supporting RRC: Radio Resource Control

The supplier of the implementation shall state the support of the implementation for the services required by each of the following RRC procedures and associated capabilities.

Table A.18: MT RRC procedures

Item	Capabilities	Reference	Status	Support
1	Handover	5.2.1	o	
2	DFS Dynamic Frequency Selection	5.2.2	m	
3	Uplink/Downlink Power Control	5.2.3	m	
4	Direct link Power Control	5.2.3	o	
5	MT alive	5.2.4	m	
6	MT absence	5.2.5	o	
7	MT sleep/power saving	5.2.6	o	

Comments: ....

....

Table A.19: MT Handover capabilities

Prerequisite: A.18 /1 -- MT supports handover				
Item	**Capabilities**	**Reference**	**Status**	**Support**
1	MT supports Sector handover	5.2.1.1	o	
2	MT supports Radio handover	5.2.1.2	o	
3	MT supports Network handover	5.2.1.3	o	
4	Token distribution for Network handover	5.2.1.4	o	
5	Handover Rejection	5.2.1.5	m	
6	MT performs Handover when forced by AP	5.2.1.6	o	
7	MT notifies AP of Handover (message RLC Handover Notify is used)	5.2.1.2	o	

Table A.20: MT DFS Dynamic Frequency Selection measurements

Item	**Capabilities**	**Reference**	**Status**	**Support**
1	MT performs and reports measurements requested by AP	5.2.2.3	m	
2	MT performs and reports self initiated measurements	5.2.2.3	o	
3	MT performs change of operating frequency requested by AP	5.2.2.6	c2001	
c2001: IF A.5/2 -- If MT supports two frequency bands; THEN m -- then mandatory; ELSE n/a.				

A.6.1.3   Services supporting DUC: DLC User Connection Control

The supplier of the implementation shall state the support of the implementation for the services required by each of the following DUC procedures and associated capabilities.

Table A.21: MT DUC procedures

Item	Procedures	Reference	Status	Support
1	MT supports Centralized mode Unicast radio connection setup	5.3.1	m	
2	MT supports Centralized mode Unicast radio connection setup initiated by AP	5.3.1.1	o	
3	MT supports Centralized mode Unicast radio connection release	5.3.2	m	
4	MT supports Centralized mode Unicast radio connection modify	5.3.3	o	
5	MT supports Centralized mode Unicast radio connection reset	5.3.4	m	
6	MT supports Centralized mode Multicast radio connection	5.3.5	c2101	
7	MT supports Centralized mode Broadcast radio connection	5.3.6	c2102	
8	MT supports Direct Link Unicast radio connection setup	5.3.7	c2103	
9	MT supports Direct Link Unicast radio connection release	5.3.8	c2103	
10	MT supports Direct Link Unicast radio connection modify	5.3.9	c2103	
11	MT supports Direct Link Unicast radio connection reset	5.3.10	c2103	
12	MT supports Direct Link Unicast DUC relay (setup, release, modify)	5.3.7, 5.3.8, 5.3.9	c2106	
13	MT supports Direct Link Multicast radio connection	5.3.11	c2104	
14	MT supports Direct Link Broadcast radio connection	5.3.12	c2105	
15	MT supports Unicast test mode	5.3.13	o	

```
c2101:    IF A.3/5    -- If MT supports multicast;
          THEN m    -- then mandatory;
          ELSE n/a.
c2102:    IF A.3/6    -- If MT supports broadcast;
          THEN m    -- then mandatory;
          ELSE n/a.
c2103:    IF A.5/2    -- If MT supports Direct mode;
          THEN o    -- then optional;
          ELSE n/a.
c2104:    IF A.3/5 AND A.5/2   -- If MT supports multicast AND Direct mode;
          THEN m    -- then mandatory;
          ELSE n/a.
c2105:    IF A.3/6 AND A.5/2    -- If MT supports broadcast AND Direct mode;
          THEN m        -- then mandatory;
          ELSE n/a.
c2106:    IF A.5/2    -- If MT supports Direct mode;
          THEN o    -- then optional;
          ELSE n/a.
```

A.6.2 RLC PDU descriptions, seen from MT.

In the following PDU tables, status with M or O are the only valid cases, due to the direction of the PDU. When not applicable to a given direction, status n/a is defined. On many occasions, the conditional support is expressed by a prerequisite statement.

A.6.2.1 PDU descriptions for ACF support

Table A.22: Association PDUs

Item	PDU	MT sending			MT receiving		
		Reference	Status	Support	Reference	Status	Support
1	RLC_RBCH_ASSOCIATION_REQ	5.1.1.1	o			n/a	
2	RLC_RBCH_ASSOCIATION		n/a		5.1.1.1	m	
3	RLC_MAC_ID_ASSIGN	5.1.1.2	m			n/a	
4	RLC_MAC_ID_ASSIGN_ACK		n/a		5.1.1.2	m	
5	RLC_MAC_ID_ASSIGN_NACK		n/a		5.1.1.2	m	
6	RLC_LINK_CAPABILITY	5.1.1.3	m			n/a	
7	RLC_LINK_CAPABILITY_ACK		n/a		5.1.1.3	m	
8	RLC_INFO	5.1.1.8	c2201			n/a	
9	RLC_INFO_ACK		n/a		5.1.1.8	c2201	
c2201:	IF A.4/7 -- MT supports info transfer; THEN m -- then mandatory; ELSE n/a.						

Comments: ....

....

Table A.23: Security PDUs

Prerequisite: none, encryption support is mandatory.							
Item	PDU	MT sending			MT receiving		
		Reference	Status	Support	Reference	Status	Support
1	RLC_KEY_EXCHANGE_MT_1	5.1.1.4	m			n/a	
2	RLC_KEY_EXCHANGE_MT_2	5.1.1.4	m			n/a	
3	RLC_KEY_EXCHANGE_AP_1		n/a		5.1.1.4	m	
4	RLC_KEY_EXCHANGE_AP_2		n/a		5.1.1.4	m	
5	RLC_DM_COMMON_KEY_DISTR	5.1.1.7	c2301			n/a	
6	RLC_DM_COMMON_KEY_DISTR_ACK		n/a		5.1.1.7	c2301	
7	RLC_UNICAST_KEY_REFRESH		n/a		5.1.2.2	m	
8	RLC_UNICAST_KEY_REFRESH_ACK	5.1.2.2	m			n/a	
9	RLC_UNICAST_KEY_ACTIVATE		n/a		5.1.2.2	m	
10	RLC_COMMON_KEY_REFRESH		n/a		5.1.2.3.3	m	
11	RLC_COMMON_KEY_REFRESH_ACK	5.1.2.3.3	m			n/a	
12	RLC_COMMON_KEY_ACTIVATE		n/a		5.1.2.3.3	m	
c2301:	IF A.5/2 MT supports Direct mode; THEN m -- then mandatory; ELSE n/a.						

Comments: ....

....

Table A.24: Authentication PDUs

Item	PDU	MT sending			MT receiving		
		Reference	Status	Support	Reference	Status	Support
1	RLC_AUTHENTICATION	5.1.1.5	m			n/a	
2	RLC_AUTHENTICATION_MT		n/a		5.1.1.5	m	
3	RLC_AUTHENTICATION_AP_1	5.1.1.6	m			n/a	
4	RLC_AUTHENTICATION_AP_2	5.1.1.6	c2401			n/a	
5	RLC_AUTHENTICATION_AP_3	5.1.1.6	c2402			n/a	
6	RLC_AUTHENTICATION_ACK_1		n/a		5.1.1.6	m	
7	RLC_AUTHENTICATION_ACK_2		n/a		5.1.1.6	c2401	
8	RLC_AUTHENTICATION_ACK_3		n/a		5.1.1.6	c2403	

Prerequisite: none, authentication support is mandatory

c2401: IF A.11 /2 -- MT supports public key based authentication;
THEN m -- then mandatory;
ELSE n/a.
c2402: IF A.13/2 OR A.13/3 -- MT supports RSA768 bit signature OR RSA1024 bit signature;
THEN m -- then mandatory;
ELSE n/a.
c2403: IF A.13/3 -- MT supports RSA1024 bit signature;
THEN m -- then mandatory;
ELSE n/a.

Comments: ....

....

Table A.25: Disassociation PDUs

Item	PDU	MT sending			MT receiving		
		Reference	Status	Support	Reference	Status	Support
1	RLC_DISASSOCIATION	5.1.3	m		5.1.3	m	
2	RLC_DISASSOCIATION_ACK	5.1.3	m		5.1.3	m	

Comments: ....

....

Table A.26: MULTICAST PDUs

Item	PDU	MT sending			MT receiving		
		Reference	Status	Support	Reference	Status	Support
1	RLC_GROUP_JOIN	5.1.4	m			n/a	
2	RLC_GROUP_JOIN_ACK		n/a		5.1.4	m	
3	RLC_GROUP_JOIN_NACK		n/a		5.1.4	m	
4	RLC_GROUP_LEAVE	5.1.4	m			n/a	
5	RLC_GROUP_LEAVE_ACK		n/a		5.1.4	m	

Prerequisite: A.3/5 MT supports Multicast.

Comments: ....

....

Table A.27: BROADCAST PDUs

Item	PDU	MT sending			MT receiving		
		Reference	Status	Support	Reference	Status	Support
1	RLC_CL_BROADCAST_JOIN	5.1.5	m			n/a	
2	RLC_CL_BROADCAST_JOIN _ACK		n/a		5.1.5	m	
3	RLC_CL_BROADCAST_LEAVE	5.1.5	c2701			n/a	
4	RLC_CL_BROADCAST_LEAVE _ACK		n/a		5.1.5	c2701	

Prerequisite: A.3/6 MT supports Broadcast

c2701: IF A.17/2 MT supports Broadcast leave message;
THEN m -- then mandatory;
ELSE n/a.

Comments: ....

....

A.6.2.2 PDU descriptions for RRC support

Table A.28: HANDOVER PDUs

Item	PDU	MT sending			MT receiving		
		Reference	Status	Support	Reference	Status	Support
1	RLC_SECTOR_HANDOVER_REQUEST	5.2.1.1	m			n/a	
2	RLC_SECTOR_HANDOVER_ACK		n/a		5.2.1.1	m	
3	RLC_HANDOVER_NOTIFY	5.2.1.2	c2804			n/a	
4	RLC_HANDOVER_REQUEST	5.2.1.2	m			n/a	
5	RLC_RADIO_HANDOVER_COMPLETE		n/a		5.2.1.2	c2802	
6	RLC_HANDOVER_ASSOCIATION		n/a		5.2.1.3	m	
7	RLC_HANDOVER_LINK_CAPABILITY_ ACK		n/a		5.2.1.3	m	
8	RLC_NW_SIGNALLING_HANDOVER	5.2.1.3	m			n/a	
9	RLC_NW_SIGNALLING_HANDOVER_A CK		n/a		5.2.1.3	m	
10	RLC_HO_INFO_DISTRIBUTION		n/a		5.2.1.4	m	
11	RLC_HO_INFO_DISTRIBUTION_ACK	5.2.1.4	m			n/a	
12	RLC_NETWORK_HANDOVER_COMPL ETE		n/a		5.2.1.4	m	
13	RLC_FORCE_HANDOVER		n/a		5.2.1.6	c2803	
14	RLC_FORCE_HANDOVER_ACK	5.2.1.6	c2803			n/a	
15	RLC_HANDOVER_REQUEST_NACK	5.2.1.5	n/a		5.2.1.5	m	

Prerequisite: A.18/1 -- MT supports handover.

c2802: IF A.19/2 -- MT supports Radio Handover;
THEN m -- then mandatory;
ELSE n/a.
c2803: IF A.19/5 -- MT supports Forced Handover;
THEN m -- then mandatory;
ELSE n/a.
c2804: IF A.19/7 -- MT notifies AP of Handover;
THEN m -- then mandatory;
ELSE n/a.

Comments: ....

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Table A.29: DFS measurement PDUs

Item	PDU	MT sending			MT receiving		
		Reference	Status	Support	Reference	Status	Support
1	RLC_AP_ABSENCE		n/a		5.2.2.4	c2902	
2	RLC_DFS_MEASUREMEN16 FRAMES_REQUEST		n/a		5.2.2.4	m	
3	RLC_DFS_MEASUREMENT_PERCENTILES_REQUEST		n/a		5.2.2.4	m	
4	RLC_DFS_MEASUREMENT_COMPLETE_REQUEST		n/a		5.2.2.4	m	
5	RLC_DFS_MT_INIT_REPORT_REQUEST	5.2.2.4	c2901			n/a	
6	RLC_DFS_MT_INIT_REPORT_REQUEST_ACK		n/a		5.2.2.4	c2901	
7	RLC_DFS_REPOR16 FRAMES	5.2.2.4	m			n/a	
8	RLC_DFS_REPORT_PERCENTILES	5.2.2.4	m			n/a	
9	RLC_DFS_REPORT_COMPLETE	5.2.2.4	m			n/a	

c2901: IF A.20/2 -- MT performs and reports self initiated measurements;
THEN m -- then mandatory;
ELSE n/a.
c2902: IF A.18/5 -- MT supports Absence;
THEN m -- then mandatory;
ELSE n/a,

Comments: ....

....

Table A.30: Change Frequency PDUs

Item	PDU	MT sending			MT receiving		
		Reference	Status	Support	Reference	Status	Support
1	RLC_CHANGE_FREQUENCY		n/a		5.2.2.6	m	

Table A.31: Transmission Power Control PDUs

Item	PDU	MT sending			MT receiving		
		Reference	Status	Support	Reference	Status	Support
1	RLC_UPLINK_PC_CALIBRATION		n/a		5.2.3	m	
2	RLC_MT_ALIVE_REQUEST		n/a		5.2.4	m	
3	RLC_MT_ALIVE_REQUEST_ACK	5.2.4	m			n/a	
4	RLC_MT_ALIVE	5.2.4	m			n/a	
5	RLC_MT_ALIVE_ACK		n/a		5.2.4	m	

Table A.32: MT Absence PDUs

Prerequisite: A.18/5 -- MT supports Absence.							
Item	PDU	MT sending			MT receiving		
		Reference	Status	Support	Reference	Status	Support
1	RLC_MT_ABSENCE_	5.2.5	m			n/a	
2	RLC_MT_ABSENCE_ACK		n/a		5.2.5	m	

Table A.33: Power saving/Power control PDUs

Item	PDU	MT sending			MT receiving		
		Reference	Status	Support	Reference	Status	Support
Prerequisite: A.18/6 -- MT supports Power saving							
1	RLC_SLEEP	5.2.6	m			n/a	
2	RLC_SLEEP_ACK		n/a		5.2.6	m	

A.6.2.3 PDU descriptions for DUC support

Table A.34: DUC setup PDUs

Item	PDU	MT sending			MT receiving (AP initiate)		
		Reference	Status	Support	Reference	Status	Support
1	RLC_SETUP	5.3.1.2	m		5.3.1.1	c3401	
2	RLC_CONNECT	5.3.1.1	c3401		5.3.1.2	m	
3	RLC_CONNECT_ACK	5.3.1.2	m		5.3.1.1	c3401	
c3401: IF A.21/2 -- MT supports Setup initiated by AP THEN m -- then mandatory ELSE n/a							

Comments: ....

....

Table A.35: DUC release PDUs

Item	PDU	MT sending			MT receiving		
		Reference	Status	Support	Reference	Status	Support
1	RLC_RELEASE	5.3.2.2	m		5.3.2.1	m	
2	RLC_RELEASE_ACK	5.3.2.1	m		5.3.2.2	m	

Comments: ....

....

Table A.36: DUC modify PDUs

Item	PDU	MT sending			MT receiving		
		Reference	Status	Support	Reference	Status	Support
Prerequisite: A.21/4 MT supports Modify radio connection.							
1	RLC_MODIFY_REQ	5.3.3.2	m		5.3.3.1	m	
2	RLC_MODIFY	5.3.3.1	m		5.3.3.2	m	
3	RLC_MODIFY_ACK	5.3.3.2	m		5.3.3.1	m	

Comments: ....

....

Table A.37: DUC reset PDUs

Item	PDU	MT sending			MT receiving		
		Reference	Status	Support	Reference	Status	Support
1	RLC_RESET	5.3.4.2	m		5.3.4.1	m	
2	RLC_RESET_ACK	5.3.4.1	m		5.3.4.2	m	

Comments: ....

....

Table A.38: Direct link DUC setup PDUs

Item	PDU	MT sending			MT receiving		
Prerequisite: A.5/2 MT supports Direct mode.							
		Reference	Status	Support	Reference	Status	Support
1	RLC_DM_SETUP	5.3.7.2			5.3.7.1	m	
2	RLC_DM_CONNECT	5.3.7.1	m		5.3.7.2	m	
3	RLC_DM_CONNECT_ACK	5.3.7.2	m		5.3.7.1	m	
4	RLC_DM_CONNECT_COMPLETE		n/a		5.3.7.1	m	
5	RLC_DM_CONNECT_COMPLETE_ACK	5.3.7.1	m			n/a	

Comments: ....

....

Table A.39: RLC_RELAY PDUs

Item	PDU	MT sending			MT receiving		
Prerequisite: A.5/2 AND A21/12MT supports Direct mode AND relay functions.							
		Reference	Status	Support	Reference	Status	Support
1	RLC_RELAY_SETUP	5.3.7.3	m			n/a	
2	RLC_RELAY_SETUP_ACK		n/a		5.3.7.3	m	

Comments: ....

....

Table A.40: Direct link DUC release PDUs

Item	PDU	MT sending			MT receiving		
Prerequisite: A.5/2 MT supports Direct mode							
		Reference	Status	Support	Reference	Status	Support
1	RLC_DM_RELEASE	5.3.8.2	m		5.3.8.1	m	
2	RLC_DM_RELEASE_ACK	5.3.8.1	m		5.3.8.2	m	

Comments: ....

....

Table A.41: Direct link DUC relay release PDUs

Item	PDU	MT sending			MT receiving		
		Reference	Status	Support	Reference	Status	Support
1	RLC_RELAY_RELEASE	5.3.8.3	m		5.3.8.3	m	
2	RLC_ RELAY _RELEASE_ACK	5.3.8.3	m		5.3.8.3	m	

Prerequisite: A.5/2 AND A21/12MT supports Direct mode AND relay functions.

Comments: ....

....

Table A.42: Direct link DUC modify PDUs

Item	PDU	MT sending			MT receiving		
		Reference	Status	Support	Reference	Status	Support
1	RLC_DM_MODIFY_REQ	5.3.9.2	m		5.3.9.1	m	
2	RLC_DM_MODIFY	5.3.9.1	m		5.3.9.2	m	
3	RLC_DM_MODIFY_ACK	5.3.9.2	m		5.3.9.1	m	
4	RLC_DM_MODIFY_COMPLETE		n/a		5.3.9.1	m	
5	RLC_DM_MODIFY_COMPLETE_ACK	5.3.9.1	m		6.3.7.1	m	

Prerequisite: A.5/2　　MT supports Direct mode.

Comments: ....

....

Table A.43: Direct link DUC relay modify PDUs

Item	PDU	MT sending			MT receiving		
		Reference	Status	Support	Reference	Status	Support
1	RLC_RELAY_MODIFY	5.3.9.3	m			n/a	
2	RLC_RELAY_MODIFY_ACK		n/a		5.3.9.3	m	

Prerequisite: A.5/2 AND A21/12MT supports Direct mode AND relay functions.

Comments: ....

....

Table A.44: Direct link DUC reset PDUs

Item	PDU	MT sending			MT receiving		
		Reference	Status	Support	Reference	Status	Support
1	RLC_DM_RESET	5.3.10.2	m		5.3.10.1	m	
2	RLC_DM_RESET_ACK	5.3.10.1	m		5.3.10.2	m	

Prerequisite: A.5/2　　MT supports Direct mode.

Comments: ....

....

Table A.45: Unicast Test Mode PDUs

Item	PDU	MT sending			MT receiving		
		Reference	Status	Support	Reference	Status	Support
1	RLC_TEST_MODE_SETUP	5.3.13	m		5.3.13	m	
2	RLC_ TEST_MODE _CONNECT	5.3.13	m		5.3.13	m	
3	RLC_ TEST_MODE _CONNECT_ACK	5.3.13	m		5.3.13	m	

Prerequisite: A.21/15 MT supports Test Mode.

Comments: ....

....

A.6.2.4   PDU description for unsupported messages

Table A.46: Unsupported message PDU

Item	PDU	MT sending			MT receiving		
		Reference	Status	Support	Reference	Status	Support
1	RLC_NO_SUPPORT	7	m		7	m	

A.6.3   PDU parameters, PDU values, Timers

See clauses A.8 to A.10, common to MT and AP

A.7   Access Point AP

This clause contains the PICS proforma tables related to the Access Point AP. They need to be completed only to describe AP implementations:

Prerequisite: A.1/2   Access Point AP.

A.7.1   Major AP capabilities and functionalities of RLC

Table A.47: Major AP functionalities

Item	Services supporting:	Reference	Status	Support
1	Association Control Function ACF	5.1	m	
2	Radio Resource Control RRC	5.2	m	
3	DLC User Connection Control DUC	5.3	m	

A.7.1.1   Services supporting ACF: Association Control Function

The supplier of the implementation shall state the support of the implementation for the services required by each of the following ACF procedures and associated capabilities.

Table A.48: AP ACF procedures

Item	Services supporting:	Reference	Status	Support
1	Association functions	5.1.1	m	
2	Encryption	5.1.1.4, 5.1.2	m	
3	Authentication	5.1.1.5, 5.1.2	m	
4	Disassociation	5.1.3	m	
5	Multicast	5.1.4	o	
6	CL Broadcast	5.1.5	o	
7	Association Rejection	5.1.6	m	

Comments: ....

....

A.7.1.1.1   Association functions

Table A.49: AP Association functions

Item	Capabilities	Reference	Status	Support
1	AP sends Association message	5.1.1.1	m	
2	AP receives Association request message	5.1.1.1	m	
3	AP assigns Mac ID	5.1.1.2	m	
4	AP defines link capabilities	5.1.1.3	m	
5	AP supports info transfer procedure	5.1.1.8	o	

Table A.50: AP connection modes and link capabilities

Item	Capabilities	Reference	Status	Support
1	AP supports centralized mode	5.1.1.3	m	
2	AP supports direct mode	5.1.1.3	o	
3	AP supports two frequency bands	5.1.1.3	o	

A.7.1.1.2   Security functions

Table A.51: AP Security functions

Item	Capabilities	Reference	Status	Support
1	AP supports user data encryption and initiates encryption start-up	5.1.1.4	m	
2	AP supports authentication	5.1.1.5, 5.1.1.6	m	
3	AP supports Direct Mode common key distribution	5.1.1.7	c5101	
c5101:	IF A.50/2 -- If AP supports Direct mode; THEN m -- then mandatory; ELSE n/a.			

Table A.52: AP Encryption algorithm

Item	Capabilities	Reference	Status	Support
1	DES encryption	5.1.2.5	m	
2	Triple DES encryption	5.1.2.5	o	

Table A.53: AP Encryption keys

Item	Capabilities	Reference	Status	Support
1	DES encryption for unicast	5.1.2.5	m	
2	DES encryption for multicast	5.1.2.5	c5301	
3	DES encryption for broadcast	5.1.2.5	c5302	
4	Triple DES encryption for unicast	5.1.2.5	c5303	
5	Triple DES encryption for multicast	5.1.2.5	c5304	
6	Triple DES encryption for broadcast	5.1.2.5	c5305	
c5301:	IF A.48/5 -- If AP supports multicast; THEN m -- then mandatory; ELSE n/a.			
c5302:	IF A.48/6 -- If AP supports broadcast; THEN m -- then mandatory; ELSE n/a.			
c5303:	IF A.52/2 -- If AP supports Triple DES; THEN m -- then mandatory; ELSE n/a.			
c5304:	IF A.48/5 AND A.52/2 -- If AP supports multicast AND Triple DES; THEN m -- then mandatory; ELSE n/a.			
c5305:	IF A.48/6 AND A.52/2 -- If AP supports broadcast AND Triple DES; THEN m -- then mandatory; ELSE n/a.			

Table A.54: AP Key management

Item	Capabilities	Reference	Status	Support
1	AP refreshes unicast encryption key	5.1.2.2	o	
2	AP refreshes common encryption keys for multicast	5.1.2.3	c5401	
3	AP refreshes common encryption keys for broadcast	5.1.2.3	c5402	
c5401:	IF A.48/5 -- If AP supports multicast; THEN o -- then optional; ELSE n/a.			
c5402:	IF A.48/6 -- If AP supports Broadcast; THEN o -- then optional; ELSE n/a.			

Table A.55: Authentication key identifiers assigned in AP

Item	Capabilities	Reference	Status	Support
1	IEEE address	5.1.1.5.3	o.5	
2	Extended IEEE address	5.1.1.5.3	o.5	
3	Network access identifier	5.1.1.5.3	o.5	
4	Distinguished name X509	5.1.1.5.3	o.5	
5	Compressed type	5.1.1.5.3	o.5	
6	Generic type	5.1.1.5.3	o.5	
o.5	Support of one of these items mandatory, others are optional.			

Table A.56: AP Authentication algorithms

Item	Capabilities	Reference	Status	Support
1	Authentication with pre-shared key	5.1.1.6.1	m	
2	Public key based algorithm (RSA)	5.1.2.6.1	o	

Table A.57: AP Authentication with pre-shared key

Item	Capabilities	Reference	Status	Support
1	MD5 algorithm	5.1.2.6.1	m	
2	HMAC algorithm	5.1.2.6.1	m	

Table A.58: RSA Authentication protocols in AP

Prerequisite: A.56/2 -- AP supports public key based authentication				
Item	**Capabilities**	**Reference**	**Status**	**Support**
1	RSA512 bit signature	5.1.1.6.2	o.6	
2	RSA768 bit signature	5.1.1.6.3	o.6	
3	RSA1024 bit signature	5.1.1.6.4	o.6	
o.6	Support at least one of these items.			

A.7.1.1.3   Disassociation functions

Table A.59: AP Disassociation

Item	**Procedures**	**AP receiving**			**AP sending**		
		Reference	**Status**	**Support**	**Reference**	**Status**	**Support**
1	Explicit disassociation	5.1.3	m		5.1.3	m	
2	Implicit disassociation initiated by MT	5.1.3	m			n/a	

A.7.1.1.4   Multicast functions

Table A.60: Multicast procedures

Prerequisite: A.48/5 -- AP supports multicast				
Item	**Capabilities**	**Reference**	**Status**	**Support**
1	Multicast with multicast addressing	5.1.4	o.7	
2	Multicast with N unicast addressing	5.1.4	o.7	
o.7	It is mandatory to support at least one of these multicast modes			

Table A.61: AP Multicast

Prerequisite: A.48/5 -- AP supports multicast				
Item	**Capabilities**	**Reference**	**Status**	**Support**
1	AP receives multicast group join	5.1.4	m	
2	AP receives group-leave message from MT	5.1.4	m	

A.7.1.1.5   CL Broadcast functions

Table A.62: AP CL broadcast

Prerequisite: A.48/6 -- AP supports CL Broadcast				
Item	**Capabilities**	**Reference**	**Status**	**Support**
1	AP receives broadcast join to initiate Broadcast	5.1.5	m	
2	AP receives broadcast leave to end Broadcast	5.1.5	o	

A.7.1.2 Services supporting RRC: Radio Resource Control

The supplier of the implementation shall state the support of the implementation for the services required by each of the following RRC procedures and associated capabilities.

Table A.63: AP RRC procedures

Item	Capabilities	Reference	Status	Support
1	Handover	5.2.1	o	
2	DFS Dynamic Frequency Selection	5.2.2	m	
3	Uplink/Downlink Power Control	5.2.3	m	
4	Direct link Power Control	5.2.3	o	
5	MT alive	5.2.4	m	
6	MT absence	5.2.5	o	
7	MT sleep / power saving	5.2.6	m	

Comments: ....

....

Table A.64: AP Handover capabilities

Prerequisite: A.63/1 -- AP supports handover.				
Item	Capabilities	Reference	Status	Support
1	AP supports Sector handover	5.2.1.1	o	
2	AP supports Radio handover	5.2.1.2	o	
3	AP supports Network handover	5.2.1.3	o	
4	Token distribution for Network handover	5.2.1.4	o	
5	Handover Rejection	5.2.1.5	m	
6	Handover is forced by AP	5.2.1.6	o	
7	AP is notified by MT of Handover (message RLC Handover Notify is used)	5.2.1.2	o	

Table A.65: AP DFS Dynamic Frequency Selection measurements

Item	Capabilities	Reference	Status	Support
1	AP requests MT for DFS measurements and reports	5.2.2.3	m	
2	AP accepts MT self initiated measurements reports	5.2.2.3	o	
3	AP requests change of operating frequency	5.2.2.6	c6501	
c6501	IF A.50/2 -- If AP supports two frequency bands; THEN m -- then mandatory; ELSE n/a.			

A.7.1.3   Services supporting DUC: DLC User Connection Control

The supplier of the implementation shall state the support of the implementation for the services required by each of the following DUC procedures and associated capabilities.

Table A.66: AP DUC procedures

Item	Procedures	Reference	Status	Support
1	AP supports Centralized mode Unicast radio connection setup	5.3.1	m	
2	AP initiates Centralized mode Unicast radio connection setup	5.3.1.1	o	
3	AP supports Centralized mode Unicast radio connection release	5.3.2	m	
4	AP supports Centralized mode Unicast radio connection modify	5.3.3	o	
5	AP supports Centralized mode Unicast radio connection reset	5.3.4	m	
6	AP supports Centralized mode Multicast radio connection	5.3.5	c6601	
7	AP supports Centralized mode Broadcast radio connection	5.3.6	c6602	
8	AP supports Direct Link Unicast radio connection setup	5.3.7	c6603	
9	AP supports Direct Link Unicast radio connection release	5.3.8	c6603	
10	AP supports Direct Link Unicast radio connection modify	5.3.9	c6603	
11	AP supports Direct Link Unicast radio connection reset	5.3.10	c6603	
12	AP supports Direct Link Unicast DUC relay setup, release, modify	5.3.7, 5.3.8, 5.3.9	c6603	
13	AP supports Direct Link Multicast radio connection	5.3.11	c6604	
14	AP supports Direct Link Broadcast radio connection	5.3.12	c6605	
15	AP supports Unicast test mode	5.3.13	o	
c6601:	IF A.48/5 -- If AP supports multicast; THEN m -- then mandatory; ELSE n/a.			
c6602:	IF A.48/6 -- If AP supports broadcast; THEN m -- then mandatory; ELSE n/a.			
c6603:	IF A.50/2 -- If AP supports Direct mode; THEN o -- then optional; ELSE n/a.			
c6604:	IF A.48/5 AND A.50/2 -- If AP supports multicast AND Direct mode; THEN m -- then mandatory; ELSE n/a.			
c6605:	IF A.48/6 AND A.50/2 -- If AP supports broadcast AND Direct mode; THEN m -- then mandatory; ELSE n/a.			
c6606:	IF A.50/2 -- If AP supports Direct mode; THEN o -- then optional; ELSE n/a.			

A.7.2   RLC PDU descriptions, seen from AP

In the following PDU tables, status with M or O are the only valid cases, due to the direction of the PDU. When not applicable to a given direction, status n/a is defined. On many occasions, the conditional support is expressed by a prerequisite statement or an explicit condition.

A.7.2.1   PDU descriptions for ACF support

Table A.67: Association PDUs

Item	PDU	AP receiving			AP sending		
		Reference	Status	Support	Reference	Status	Support
1	RLC_RBCH_ASSOCIATION_REQ	5.1.1.1	m			n/a	
2	RLC_RBCH_ASSOCIATION		n/a		5.1.1.1	m	
3	RLC_MAC_ID_ASSIGN	5.1.1.2	m			n/a	
4	RLC_MAC_ID_ASSIGN_ACK		n/a		5.1.1.2	m	
5	RLC_MAC_ID_ASSIGN_NACK		n/a		5.1.1.2	m	
6	RLC_LINK_CAPABILITY	5.1.1.3	m			n/a	
7	RLC_LINK_CAPABILITY_ACK		n/a		5.1.1.3	m	
8	RLC_INFO	5.1.1.8	c6701			n/a	
9	RLC_INFO_ACK		n/a		5.1.1.8	c6701	
c6701:	IF A.49/7 -- AP supports info transfer THEN m -- then mandatory ELSE n/a						

Comments: ....

....

Table A.68: Security PDUs

Prerequisite: none, encryption support is mandatory.							
Item	PDU	AP receiving			AP sending		
		Reference	Status	Support	Reference	Status	Support
1	RLC_KEY_EXCHANGE_MT_1	5.1.1.4	m			n/a	
2	RLC_KEY_EXCHANGE_MT_2	5.1.1.4	m			n/a	
3	RLC_KEY_EXCHANGE_AP_1		n/a		5.1.1.4	m	
4	RLC_KEY_EXCHANGE_AP_2		n/a		5.1.1.4	m	
5	RLC_DM_COMMON_KEY_DISTR	5.1.1.7	c6801			n/a	
6	RLC_DM_COMMON_KEY_DISTR_ACK		n/a		5.1.1.7	c6801	
7	RLC_UNICAST_KEY_REFRESH		n/a		5.1.2.2	o	
8	RLC_UNICAST_KEY_REFRESH_ACK	5.1.2.2	o			n/a	
9	RLC_UNICAST_KEY_ACTIVATE		n/a		5.1.2.2	o	
10	RLC_COMMON_KEY_REFRESH		n/a		5.1.2.3.3	o	
11	RLC_COMMON_KEY_REFRESH_ACK	5.1.2.3.3	o			n/a	
12	RLC_COMMON_KEY_ACTIVATE		n/a		5.1.2.3.3	o	
c6801:	A.50/2 AP supports Direct mode; THEN m then mandatory; ELSE n/a.						

Comments: ....

....

Table A.69: Authentication PDUs

Item	PDU	AP receiving			AP sending		
		Reference	Status	Support	Reference	Status	Support
1	RLC_AUTHENTICATION	5.1.1.5	m			n/a	
2	RLC_AUTHENTICATION_MT		n/a		5.1.1.5	m	
3	RLC_AUTHENTICATION_AP_1	5.1.1.6	m			n/a	
4	RLC_AUTHENTICATION_AP_2	5.1.1.6	c6901			n/a	
5	RLC_AUTHENTICATION_AP_3	5.1.1.6	c6902			n/a	
6	RLC_AUTHENTICATION_ACK_1		n/a		5.1.1.6	m	
7	RLC_AUTHENTICATION_ACK_2		n/a		5.1.1.6	c6901	
8	RLC_AUTHENTICATION_ACK_3		n/a		5.1.1.6	c6903	

c6901:   IF A.56/2 -- AP supports public key based authentication;
          THEN m -- then mandatory;
          ELSE n/a.
c6902:   IF A.58/2 OR A.58/3 -- AP supports RSA768 bit signature OR RSA1024 bit signature;
          THEN m -- then mandatory;
          ELSE n/a.
c6903:   IF A.58/3 -- AP supports RSA1024 bit signature;
          THEN m -- then mandatory;
          ELSE n/a.

Comments: ....

....

Table A.70: Disassociation PDUs

Item	PDU	AP receiving			AP sending		
		Reference	Status	Support	Reference	Status	Support
1	RLC_DISASSOCIATION	5.1.3	m		5.1.3	m	
2	RLC_DISASSOCIATION_ACK	5.1.3	m		5.1.3	m	

Comments: ....

....

Table A.71: MULTICAST PDUs

Item	PDU	AP receiving			AP sending		
		Reference	Status	Support	Reference	Status	Support

Prerequisite: A.48/5   AP supports Multicast.

Item	PDU	AP receiving			AP sending		
		Reference	Status	Support	Reference	Status	Support
1	RLC_GROUP_JOIN	5.1.4	m			n/a	
2	RLC_GROUP_JOIN_ACK		n/a		5.1.4	m	
3	RLC_GROUP_JOIN_NACK		n/a		5.1.4	m	
4	RLC_GROUP_LEAVE	5.1.4	m			n/a	
5	RLC_GROUP_LEAVE_ACK		n/a		5.1.4	m	

Comments: ....

....

Table A.72: BROADCAST PDUs

Item	PDU	AP receiving			AP sending		
		Reference	Status	Support	Reference	Status	Support
1	RLC_CL_BROADCAST_JOIN	5.1.5	m			n/a	
2	RLC_CL_BROADCAST_JOIN _ACK		n/a		5.1.5	m	
3	RLC_GROUP_LEAVE	5.1.4	c7201			n/a	
4	RLC_GROUP_LEAVE_ACK		n/a		5.1.4	c7201	

Prerequisite: A.48/6 AP supports Broadcast.

c7201:   IF A.62/2 AP supports broadcast leave message;
          THEN m   -- then mandatory;
          ELSE n/a.

Comments: ....

....

A.7.2.2   PDU descriptions for RRC support

Table A.73: HANDOVER PDUs

Item	PDU	AP receiving			AP sending		
		Reference	Status	Support	Reference	Status	Support
1	RLC_SECTOR_HANDOVER_REQUEST	5.2.1.1	c7301			n/a	
2	RLC_SECTOR_HANDOVER_ACK		n/a		5.2.1.1	c7301	
3	RLC_HANDOVER_NOTIFY	5.2.1.2	c7304			n/a	
4	RLC_HANDOVER_REQUEST	5.2.1.2	m			n/a	
5	RLC_RADIO_HANDOVER_COMPLETE		n/a		5.2.1.2	c7302	
6	RLC_HANDOVER_ASSOCIATION		n/a		5.2.1.3	m	
7	RLC_HANDOVER_LINK_CAPABILITY_ACK		n/a		5.2.1.3	m	
8	RLC_NW_SIGNALLING_HANDOVER	5.2.1.3	m			n/a	
9	RLC_NW_SIGNALLING_HANDOVER_ACK		n/a		5.2.1.3	m	
10	RLC_HO_INFO_DISTRIBUTION		n/a		5.2.1.4	m	
11	RLC_HO_INFO_DISTRIBUTION_ACK	5.2.1.4	m			n/a	
12	RLC_NETWORK_HANDOVER_COMPLETE		n/a		5.2.1.4	m	
13	RLC_FORCE_HANDOVER		n/a		5.2.1.6	c7303	
14	RLC_FORCE_HANDOVER_ACK	5.2.1.6	c7303			n/a	
15	RLC_HANDOVER_REQUEST_NACK	5.2.1.5	n/a		5.2.1.5	m	

Prerequisite: A.63/1 -- AP supports handover.

c7301:   IF A.64/1 -- AP supports Sector Handover;
          THEN m   -- then mandatory;
          ELSE n/a.
c7302:   IF A.64/2 -- AP supports Radio Handover;
          THEN m   -- then mandatory;
          ELSE n/a.
c7303:   IF A.64/5 -- AP supports Forced Handover;
          THEN m   -- then mandatory;
          ELSE n/a.
c7304:   IF A.64/7 -- AP is notified by MT of Handover;
          THEN m   -- then mandatory;
          ELSE n/a.

Comments: ....

....

Table A.74: DFS measurement PDUs

Item	PDU	AP receiving			AP sending		
		Reference	Status	Support	Reference	Status	Support
1	RLC_AP_ABSENCE		n/a		5.2.2.4	c7402	
2	RLC_DFS_MEASUREMEN16 FRAMES_REQUEST		n/a		5.2.2.4	m	
3	RLC_DFS_MEASUREMENT_PERCENTILES_REQUEST		n/a		5.2.2.4	m	
4	RLC_DFS_MEASUREMENT_COMPLETE_REQUEST		n/a		5.2.2.4	m	
5	RLC_DFS_MT_INIT_REPORT_REQUEST	5.2.2.4	c7401			n/a	
6	RLC_DFS_MT_INIT_REPORT_REQUEST_ACK		n/a		5.2.2.4	c7401	
7	RLC_DFS_REPOR16 FRAMES	5.2.2.4	m			n/a	
8	RLC_DFS_REPORT_PERCENTILES	5.2.2.4	m			n/a	
9	RLC_DFS_REPORT_COMPLETE	5.2.2.4	m			n/a	
c7401:	IF A.65/2 -- AP accepts MT self initiated measurement reports; THEN m -- then mandatory; ELSE n/a.						
c7402:	IF A.63/5 -- AP supports MT Absence; THEN m -- then mandatory; ELSE n/a.						

Comments: ....

....

Table A.75: Change Frequency PDUs

Item	PDU	AP receiving			AP sending		
		Reference	Status	Support	Reference	Status	Support
1	RLC_CHANGE_FREQUENCY		n/a		5.2.2.6	m	

Table A.76: Transmission Power Control PDUs

Item	PDU	AP receiving			AP sending		
		Reference	Status	Support	Reference	Status	Support
1	RLC_UPLINK_PC_CALIBRATION		n/a		5.2.3	m	
2	RLC_MT_ALIVE_REQUEST		n/a		5.2.4	m	
3	RLC_MT_ALIVE_REQUEST_ACK	5.2.4	m			n/a	
4	RLC_MT_ALIVE	5.2.4	m			n/a	
5	RLC_MT_ALIVE_ACK		n/a		5.2.4	m	

Table A.77: Absence PDUs

Item	PDU	AP receiving			AP sending		
Prerequisite: A.63/5 -- AP supports Absence.							
		Reference	Status	Support	Reference	Status	Support
1	RLC_MT_ABSENCE_	5.2.5	m			n/a	
2	RLC_MT_ABSENCE_ACK		n/a		5.2.5	m	

Table A.78: Power saving/Power control PDUs

Item	PDU	AP receiving			AP sending		
		Reference	Status	Support	Reference	Status	Support
	Prerequisite: none -- mandatory for AP to support Power saving.						
1	RLC_SLEEP	5.2.6	m			n/a	
2	RLC_SLEEP_ACK		n/a		5.2.6	m	

A.7.2.3   PDU descriptions for DUC support

Table A.79: DUC setup PDUs

Item	PDU	AP receiving			AP sending		
		Reference	Status	Support	Reference	Status	Support
1	RLC_SETUP	5.3.1.2	m		5.3.1.1	c7901	
2	RLC_CONNECT	5.3.1.1	c7901		5.3.1.2	m	
3	RLC_CONNECT_ACK	5.3.1.2	m		5.3.1.1	c7901	
c7901:	IF A.66 /2 -- AP initiates DUC setup; THEN m -- then mandatory; ELSE n/a.						

Table A.80: DUC release PDUs

Item	PDU	AP receiving			AP sending		
		Reference	Status	Support	Reference	Status	Support
1	RLC_RELEASE	5.3.2.2	m		5.3.2.1	m	
2	RLC_RELEASE_ACK	5.3.2.1	m		5.3.2.2	m	

Comments: ....

....

Table A.81: DUC modify PDUs

Item	PDU	AP receiving			AP sending		
		Reference	Status	Support	Reference	Status	Support
	Prerequisite: A.66/4 AP supports DUC modify.						
1	RLC_MODIFY_REQ	5.3.3.2	m		5.3.3.1	m	
2	RLC_MODIFY	5.3.3.1	m		5.3.3.2	m	
3	RLC_MODIFY_ACK	5.3.3.2	m		5.3.3.1	m	

Comments: ....

....

Table A.82: DUC reset PDUs

Item	PDU	AP receiving			AP sending		
		Reference	Status	Support	Reference	Status	Support
1	RLC_RESET	5.3.4.2	m		5.3.4.1	m	
2	RLC_RESET_ACK	5.3.4.1	m		5.3.4.2	m	

Comments: ....

....

Table A.83: Direct link DUC setup PDUs

Prerequisite: A.50/2 AP supports Direct mode.							
Item	**PDU**	**AP receiving**			**AP sending**		
		Reference	**Status**	**Support**	**Reference**	**Status**	**Support**
1	RLC_DM_SETUP	5.3.7.2			5.3.7.1	m	
2	RLC_DM_CONNECT	5.3.7.1	m		5.3.7.2	m	
3	RLC_DM_CONNECT_ACK	5.3.7.2	m		5.3.7.1	m	
4	RLC_DM_CONNECT_COMPLETE		n/a		5.3.7.1	m	
5	RLC_DM_CONNECT_COMPLETE_ACK	5.3.7.1	m			n/a	

Comments: ....

....

Table A.84: RLC_RELAY PDUs

Prerequisite: A.50/2 AP supports Direct mode, in which case, relay is mandatory for AP.							
Item	**PDU**	**AP receiving**			**AP sending**		
		Reference	**Status**	**Support**	**Reference**	**Status**	**Support**
1	RLC_RELAY_SETUP	5.3.7.3	m			n/a	
2	RLC_RELAY_SETUP_ACK		n/a		5.3.7.3	m	

Comments: ....

....

Table A.85: Direct link DUC release PDUs

Prerequisite: A.50/2 AP supports Direct mode.							
Item	**PDU**	**AP receiving**			**AP sending**		
		Reference	**Status**	**Support**	**Reference**	**Status**	**Support**
1	RLC_DM_RELEASE	5.3.8.2	m		5.3.8.1	m	
2	RLC_DM_RELEASE_ACK	5.3.8.1	m		5.3.8.2	m	

Comments: ....

....

Table A.86: Direct link DUC relay release PDUs

Prerequisite: A.50/2 AP supports Direct mode, in which case, relay is mandatory for AP.							
Item	**PDU**	**AP receiving**			**AP sending**		
		Reference	**Status**	**Support**	**Reference**	**Status**	**Support**
1	RLC_RELAY_RELEASE	5.3.8.3	m		5.3.8.3	m	
2	RLC_ RELAY _RELEASE_ACK	5.3.8.3	m		5.3.8.3	m	

Comments: ....

....

Table A.87: Direct link DUC modify PDUs

Prerequisite: A.50/2 AP supports Direct mode.							
Item	PDU	AP receiving			AP sending		
		Reference	Status	Support	Reference	Status	Support
1	RLC_DM_MODIFY_REQ	5.3.9.2	m		5.3.9.1	m	
2	RLC_DM_MODIFY	5.3.9.1	m		5.3.9.2	m	
3	RLC_DM_MODIFY_ACK	5.3.9.2	m		5.3.9.1	m	
4	RLC_DM_MODIFY_COMPLETE		n/a		5.3.9.1	m	
5	RLC_DM_MODIFY_COMPLETE_ACK	5.3.9.1	m		6.3.7.1	m	

Comments: ....

....

Table A.88: Direct link DUC relay modify PDUs

Prerequisite: A.50/2 AP supports Direct mode, in which case, relay is mandatory for AP.							
Item	PDU	AP receiving			AP sending		
		Reference	Status	Support	Reference	Status	Support
1	RLC_RELAY_MODIFY	5.3.9.3	m			n/a	
2	RLC_RELAY_MODIFY_ACK		n/a		5.3.9.3	m	

Comments: ....

....

Table A.89: Direct link DUC reset PDUs

Prerequisite: A.50/2 AP supports Direct mode.							
Item	PDU	AP receiving			AP sending		
		Reference	Status	Support	Reference	Status	Support
1	RLC_DM_RESET	5.3.10.2	m		5.3.10.1	m	
2	RLC_DM_RESET_ACK	5.3.10.1	m		5.3.10.2	m	

Comments: ....

....

Table A.90: Unicast Test Mode PDUs

Prerequisite: A.66/15 AP supports Test Mode.							
Item	PDU	MT sending			MT receiving		
		Reference	Status	Support	Reference	Status	Support
1	RLC_TEST_MODE_SETUP	5.3.13	m		5.3.13	m	
2	RLC_ TEST_MODE _CONNECT	5.3.13	m		5.3.13	m	
3	RLC_ TEST_MODE _CONNECT_ACK	5.3.13	m		5.3.13	m	

Comments: ....

....

A.7.2.4 PDU descriptions for unsupported messages

Table A.91: Unsupported message PDU

Item	PDU	AP receiving			AP sending		
		Reference	Status	Support	Reference	Status	Support
1	RLC_NO_SUPPORT	7	m		7	m	

A.7.3   PDU parameters, PDU values, Timers

See clauses A.8 to A.10, common to MT and AP

A.8   PDU parameters

Prerequisites are specified, according to PDU status conditions. They differ whether it is an AP or an MT.

A.8.1   Parameters of PDUs for ACF support

A.8.1.1 Association

Table A.92: RLC_RBCH_ASSOCIATION parameters

Prerequisite:				
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.1.1.1, annex B	m	
2	network-operator-id	5.1.1.1, annex B	o	
3	profile-vid-list	5.1.1.1, annex B	m	

Comments: ....

....

Table A.93: RLC_RBCH_ASSOCIATION_REQ parameters

Prerequisite:				
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.1.1.1, annex B	m	
2	ap-id	5.1.1.1, annex B	m	
3	net-id	5.1.1.1, annex B	m	
4	mac-id	5.1.1.1, annex B	m	

Comments: ....

....

Table A.94: RLC_MAC_ID_ASSIGN parameters

Prerequisite:				
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.1.1.2, annex B	m	
2	magic	5.1.1.2, annex B	m	
3	rlc-version	5.1.1.2, annex B	m	
4	mac-id	5.1.1.2, annex B	m	

Comments: ....

....

Table A.95: RLC_MAC_ID_ASSIGN_ACK parameters

Prerequisite:				
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.1.1.2, annex B	m	
2	magic	5.1.1.2, annex B	m	
3	mac-id	5.1.1.2, annex B	m	
4	mac-id1	5.1.1.2, annex B	m	

Comments: ....

....

Table A.96: RLC_MAC_ID_ASSIGN_NACK parameters

Prerequisite:				
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.1.1.2, annex B	m	
2	magic	5.1.1.2, annex B	m	

Comments: ....

....

Table A.97: RLC_LINK_CAPABILITY parameters

Prerequisite:				
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.1.1.3, annex B	m	
2	profile-vid-list	5.1.1.3, annex B	m	
3	freq-band	5.1.1.3, annex B	m	
4	rss-value	5.1.1.3, annex B	m	
5	support64QAM	5.1.1.3, annex B	m	
6	direct-mode-cap	5.1.1.3, annex B	m	
7	cyclic-prefix	5.1.1.3, annex B	m	
8	support-fca	5.1.1.3, annex B	m	
9	support-fsa	5.1.1.3, annex B	m	
10	time-gap-ach-uplink	5.1.1.3, annex B	m	
11	ho-cap	5.1.1.3, annex B	m	
12	cc-ho-cap	5.1.1.3, annex B	m	
13	duty-cycle	5.1.1.3, annex B	m	
14	arq-delay-rx	5.1.1.3, annex B	m	
15	arq-delay-tx	5.1.1.3, annex B	m	
16	authentication-encryption-list	5.1.1.3, annex B	m	
17	dm-attributes	5.1.1.3, annex B	c9701	
c9701: IF A.5/2 MT supports Direct mode or A.50/2 AP supports Direct mode; THEN mandatory; ELSE n/a .				

Comments: ....

....

Table A.98: RLC_LINK_CAPABILITY_ACK parameters

Item	Parameter	Reference	Status	Support
Prerequisite:				
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.1.1.3, annex B	m	
2	profile-vid-list-selected	5.1.1.3, annex B	m	
3	freq-band	5.1.1.3, annex B	m	
4	rss-value	5.1.1.3, annex B	m	
5	apt-address-length	5.1.1.3, annex B	m	
6	support64QAM	5.1.1.3, annex B	m	
7	direct-mode-use-common-key	5.1.1.3, annex B	m	
8	direct-mode-cap	5.1.1.3, annex B	m	
9	cyclic-prefix	5.1.1.3, annex B	m	
10	support-fca	5.1.1.3, annex B	m	
11	support-fsa	5.1.1.3, annex B	m	
12	cc-ho-cap	5.1.1.3, annex B	m	
13	arq-delay-rx	5.1.1.3, annex B	m	
14	arq-delay-tx	5.1.1.3, annex B	m	
15	auth-encr-selected	5.1.1.3, annex B	m	
16	dm-attributes	5.1.1.3, annex B	c9801	
c9801:	IF A.5/2 MT supports Direct mode or A.50/2 AP supports Direct mode THEN mandatory ELSE n/a			

Comments: ....

....

Table A.99: RLC_INFO parameters

Item	Parameter	Reference	Status	Support
Prerequisite:	A.4/7 -- MT supports info transfer or A.49/7 -- AP supports info transfer.			
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.1.1.8, annex B	m	
2	info-type	5.1.1.8, annex B	m	
3	info-count	5.1.1.8, annex B	m	
4	cl-data	5.1.1.8, annex B	o	
5	dlc-attributes	5.1.1.8, annex B	m	

Comments: ....

....

Table A.100: RLC_INFO_ACK parameters

Item	Parameter	Reference	Status	Support
Prerequisite:	A.4/7 -- MT supports info transfer or A.49/7 -- AP supports info transfer.			
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.1.1.8, annex B	m	
2	info-count	5.1.1.8, annex B	m	
3	cl-data	5.1.1.8, annex B	o	
4	dlc-attributes	5.1.1.8, annex B	m	

Comments: ....

....

A.8.1.2 Security

Table A.101: RLC_KEY_EXCHANGE_MT_1 parameters

Prerequisite				
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.1.1.4, annex B	m	
2	mt-dh-public-value-1	5.1.1.4, annex B	m	

Comments: ....

....

Table A.102: RLC_KEY_EXCHANGE_MT_2 parameters

Prerequisite				
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.1.1.4, annex B	m	
2	mt-dh-public-value-2	5.1.1.4, annex B	m	

Comments: ....

....

Table A.103: RLC_KEY_EXCHANGE_AP_1 parameters

Prerequisite				
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.1.1.4, annex B	m	
2	ap-dh-public-value-1	5.1.1.4, annex B	m	

Comments: ....

....

Table A.104: RLC_KEY_EXCHANGE_AP_2 parameters

Prerequisite				
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.1.1.4, annex B	m	
2	ap-dh-public-value-2	5.1.1.4, annex B	m	

Comments: ....

....

Table A.105: RLC_DM_COMMON_KEY_DISTR parameters

Prerequisite: A.5/2 MT supports Direct mode or Prerequisite: A.50/2 AP supports Direct mode.				
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.1.1.7, annex B	m	
2	dm-encr-alg	5.1.1.7, annex B	m	
3	key-id	5.1.1.7, annex B	m	
4	common-key	5.1.1.7, annex B	m	

Comments: ....

....

Table A.106: RLC_DM_COMMON_KEY_DISTR_ACK parameters

Prerequisite: A.5/2 MT supports Direct mode or				
Prerequisite: A.50/2 AP supports Direct mode.				
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.1.1.7, annex B	m	
2	dm-encr-alg	5.1.1.7, annex B	m	
3	md5-on-key	5.1.1.7, annex B	m	

Comments: ....

....

Table A.107: RLC_UNICAST_KEY_REFRESH parameters

Prerequisite				
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.1.2.2, annex B	m	
2	nonce	5.1.2.2, annex B	m	

Comments: ....

....

Table A.108: RLC_UNICAST_KEY_REFRESH_ACK parameters

Prerequisite				
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.1.2.2, annex B	m	
2	md5-on-nonce	5.1.2.2, annex B	m	

Comments: ....

....

Table A.109: RLC_UNICAST_KEY_ACTIVATE parameters

Prerequisite				
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.1.2.2, annex B	m	
2	last-mac-frame	5.1.2.2, annex B	m	

Comments: ....

....

Table A.110: RLC_COMMON_KEY_REFRESH parameters

Prerequisite				
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.1.2.3.3, annex B	m	
2	encr-info	5.1.2.3.3, annex B	m	
3	key-id	5.1.2.3.3, annex B	m	
4	common-key	5.1.2.3.3, annex B	m	

Comments: ....

....

Table A.111: RLC_COMMON_KEY_REFRESH_ACK parameters

Prerequisite				
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.1.2.3.3, annex B	m	
2	encr-info	5.1.2.3.3, annex B	m	
3	md5-on-key	5.1.2.3.3, annex B	m	

Comments: ....

....

Table A.112: RLC_COMMON_KEY_ACTIVATE parameters

Prerequisite				
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.1.2.3.3, annex B	m	
2	key-id	5.1.2.3.3, annex B	m	
3	last-mac-frame	5.1.2.3.3, annex B	m	

Comments: ....

....

A.8.1.3   Authentication

Table A.113: RLC_AUTHENTICATION parameters

Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.1.1.5, annex B	m	
2	more	5.1.1.5, annex B	m	
3	mt-auth-id-type	5.1.1.5, annex B	m	
4	mt-auth-id-content	5.1.1.5, annex B	m	

Comments: ....

....

Table A.114: RLC_AUTHENTICATION_MT parameters

Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.1.1.5, annex B	m	
2	challenge-to-mt	5.1.1.5, annex B	m	

Comments: ....

....

Table A.115: RLC_AUTHENTICATION_AP_1 parameters

Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.1.1.6, annex B	m	
2	challenge-to-ap	5.1.1.6, annex B	m	
3	mt-response-1	5.1.1.6, annex B	m	

Comments: ....

....

Table A.116: RLC_AUTHENTICATION_AP_2 parameters

Prerequisite:	A.11 /2	MT supports public key based authentication or		
	A.56/2	AP supports public key based authentication.		
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.1.1.6, annex B	m	
2	mt-response-2	5.1.1.6, annex B	m	

Comments: ....

....

Table A.117: RLC_AUTHENTICATION_AP_3 parameters

Prerequisite:	A.13/2 OR A.13/3	-- MT supports RSA768 bit signature OR		
	RSA1024 bit signature or			
	A.58/2 OR A.58/3	-- AP supports RSA768 bit signature OR		
	RSA1024 bit signature.			
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.1.1.6, annex B	m	
2	mt-response-2	5.1.1.6, annex B	m	

Comments: ....

....

Table A.118: RLC_AUTHENTICATION_ACK-1 parameters

Prerequisite				
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.1.1.6, annex B	m	
2	ap-response-2	5.1.1.6, annex B	m	

Comments: ....

....

Table A.119: RLC_AUTHENTICATION_ACK-2 parameters

Prerequisite:	A.11 /2	MT supports public key based authentication or		
	A.56/2	AP supports public key based authentication		
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.1.1.6, annex B	m	
2	ap-response-2	5.1.1.6, annex B	m	

Comments: ....

....

Table A.120: RLC_AUTHENTICATION_ACK-3 parameters

Prerequisite:	A.58/3	AP supports RSA1024 bit signature or		
	A.13/3	MT supports RSA1024 bit signature.		
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.1.1.6, annex B	m	
2	ap-response-2	5.1.1.6, annex B	m	

Comments: ....

....

A.8.1.4 Disassociation

Table A.121: RLC_DISASSOCIATION parameters

Prerequisite				
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.1.3, annex B	m	
2	disassociation-cause	5.1.3, annex B	m	
3	mac-id	5.1.3, annex B	m	

Comments: ....

....

Table A.122: RLC_DISASSOCIATION_ACK parameters

Prerequisite				
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.1.3, annex B	m	
2	mac-id	5.1.3, annex B	m	

Comments: ....

....

A.8.1.5 Multicast

Table A.123: RLC_GROUP_JOIN parameters

Prerequisite: A.3/5 MT supports Multicast or A.48/5 AP supports Multicast.				
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.1.4, annex B	m	
2	cl-data	5.1.4, annex B	m	
3	encryption-algorithm-proposal	5.1.4, annex B	m	

Comments: ....

....

Table A.124: RLC_GROUP_JOIN_ACK parameters

Prerequisite: A.3/5 MT supports Multicast or A.48/5 AP supports Multicast.				
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.1.4, annex B	m	
2	more-joins	5.1.4, annex B	m	
3	mac-id-and-cl-data-list	5.1.4, annex B	m	
4	encryption-algorithm-selected	5.1.4, annex B	m	
5	key-id	5.1.4, annex B	m	
6	common-key	5.1.4, annex B	m	

Comments: ....

....

Table A.125: RLC_GROUP_JOIN_NACK parameters

Prerequisite:	A.3/5	MT supports Multicast or			
	A.48/5	AP supports Multicast.			
Item	**Parameter**		**Reference**	**Status**	**Support**
1	rlc-pdu-type		5.1.4, annex B	m	
2	cl-data		5.1.4, annex B	m	

Comments: ....

....

Table A.126: RLC_GROUP_LEAVE parameters

Prerequisite:	A.3/5	MT supports Multicast or			
	A.48/5	AP supports Multicast.			
Item	**Parameter**		**Reference**	**Status**	**Support**
1	rlc-pdu-type		5.1.4, annex B	m	
2	cl-data		5.1.4, annex B	m	

Comments: ....

....

Table A.127: RLC_GROUP_LEAVE_ACK parameters

Prerequisite:	A.3/5	MT supports Multicast or			
	A.48/5	AP supports Multicast.			
Item	**Parameter**		**Reference**	**Status**	**Support**
1	rlc-pdu-type		5.1.4, annex B	m	
2	cl-data		5.1.4, annex B	m	

Comments: ....

....

A.8.1.6   Broadcast

Table A.128: RLC_CL_BROADCAST_JOIN parameters

Prerequisite:	A.3/6	MT supports Broadcast or			
	A.48/6	AP supports Broadcast.			
Item	**Parameter**		**Reference**	**Status**	**Support**
1	rlc-pdu-type		5.1.5, annex B	m	
2	cl-data		5.1.5, annex B	m	
3	encryption-algorithm-proposal		5.1.5, annex B	m	

Comments: ....

....

Table A.129: RLC_CL_BROADCAST_JOIN_ACK parameters

Prerequisite:	A.3/6 MT supports Broadcast or A.48/6 AP supports Broadcast.			
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.1.5, annex B	m	
2	more-joins	5.1.5, annex B	m	
3	error-corr-mode	5.1.5, annex B	m	
4	window-size	5.1.5, annex B	m	
5	mac-id-and-cl-data-list	5.1.5, annex B	m	
6	encryption-algorithm-selected	5.1.5, annex B	m	
7	key-id	5.1.5, annex B	m	
8	common-key	5.1.5, annex B	m	

Comments: ....

....

Table A.130: RLC_CL_BROADCAST_LEAVE parameters

Prerequisite:	A.3/6 MT supports Broadcast AND A.17/2 MT supports Broadcast leave message or A.48/6 AP supports Broadcast AND A.62/2 AP supports Broadcast leave message.			
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.1.5, annex B	m	
2	cl-data	5.1.5, annex B	m	

Comments: ....

....

Table A.131: RLC_CL_BROADCAST_LEAVE_ACK parameters

Prerequisite:	A.3/6 MT supports Broadcast AND A.17/2 MT supports Broadcast leave message or A.48/6 AP supports Broadcast AND A.62/2 AP supports Broadcast leave message.			
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.1.5, annex B	m	
2	cl-data	5.1.5, annex B	m	

Comments: ....

....

A.8.2 Parameters of PDUs for RRC support

A.8.2.1 Handover

Table A.132: RLC_SECTOR_HANDOVER_REQUEST parameters

Prerequisite:	A.18 /1 -- MT supports handover or A.63/1 -- AP supports handover AND A.64/1 AP supports Sector Handover.			
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.2.1.1, annex B	m	
2	sector-id-new	5.2.1.1, annex B	m	
3	mac-id	5.2.1.1, annex B	m	

Comments: ....

....

Table A.133: RLC_SECTOR_HANDOVER_ACK parameters

Prerequisite:	A.18 /1 MT supports handover or A.63/1 AP supports handover AND A.64/1 AP supports Sector Handover.			
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.2.1.1, annex B	m	

Comments: ....

....

Table A.134: RLC_HANDOVER_NOTIFY parameters

Prerequisite:	A.18 /1 MT supports handover AND A.19/7 MT notifies AP of Handover or A.63/1 AP supports handover AND A.64/7 AP is notified by MT of Handover.			
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.2.1.2, annex B	m	
2	handover-cause	5.2.1.2, annex B	m	
3	ap-id	5.2.1.2, annex B	m	
4	net-id	5.2.1.2, annex B	m	
5	mac-id	5.2.1.2, annex B	m	

Comments: ....

....

Table A.135: RLC_HANDOVER_REQUEST parameters

Prerequisite:	A.18 /1 -- MT supports handover or			
	A.63/1 -- AP supports handover.			
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.2.1.2, annex B	m	
2	ap-Id-old	5.2.1.2, annex B	m	
3	mac-Id-old	5.2.1.2, annex B	m	
4	net-Id-old	5.2.1.2, annex B	m	
5	duc-established	5.2.1.2, annex B	m	
6	mac-Id0	5.2.1.2, annex B	m	

Comments: ....

....

Table A.136: RLC_RADIO_HANDOVER_COMPLETE parameters

Prerequisite:	A.18 /1 MT supports handover AND A.19/2 MT supports Radio			
	Handover or			
	A.63/1 AP supports handover AND A.64/2 AP supports Radio			
	Handover.			
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.2.1.2, annex B	m	
2	mac-id-old	5.2.1.2, annex B	m	
3	ap-id-old	5.2.1.2, annex B	m	
4	net-id-old	5.2.1.2, annex B	m	
5	mac-id-new	5.2.1.2, annex B	m	
6	cl-id	5.2.1.2, annex B	m	
7	duc-ext-ind	5.2.1.2, annex B	m	
8	cl-conn-attr-length	5.2.1.2, annex B	m	
9	duc-descr-list	5.2.1.2, annex B	m	

Comments: ....

....

Table A.137: RLC_HANDOVER_ASSOCIATION parameters

Prerequisite:	A.18 /1 MT supports handover or			
	A.63/1 AP supports handover.			
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.2.1.3, annex B	m	
2	mac-id-old	5.2.1.3, annex B	m	
3	ap-id-old	5.2.1.3, annex B	m	
4	net-id-old	5.2.1.3, annex B	m	
5	mac-id-new	5.2.1.3, annex B	m	

Comments: ....

....

Table A.138: RLC_HANDOVER_LINK_CAPABILITY_ACK parameters

Prerequisite:	A.18 /1 MT supports handover or			
	A.63/1 AP supports handover.			
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.2.1.3, annex B	m	
2	profile-vid-list	5.2.1.3, annex B	m	
3	freq-band	5.2.1.3, annex B	m	
4	rss-value	5.2.1.3, annex B	m	
5	apt-address-length	5.2.1.3, annex B	m	
6	support64QAM	5.2.1.3, annex B	m	
7	direct-mode-cap	5.2.1.3, annex B	m	
8	dm-use-common-key	5.2.1.3, annex B	m	
9	cyclic-prefix	5.2.1.3, annex B	m	
10	support-fca	5.2.1.3, annex B	m	
11	support-fsa	5.2.1.3, annex B	m	
12	cc-ho-cap	5.2.1.3, annex B	m	
13	arq-delay-rx	5.2.1.3, annex B	m	
14	arq-delay-tx	5.2.1.3, annex B	m	
15	auth-encr-selected	5.2.1.3, annex B	m	
16	start-encryption	5.2.1.3, annex B	m	
17	start-authentication	5.2.1.3, annex B	m	
18	send-NW-Token	5.2.1.3, annex B	m	
19	start-DUC-set-up	5.2.1.3, annex B	m	
20	keep-connections	5.2.1.3, annex B	m	
21	start-info-transfer	5.2.1.3, annex B	m	
22	dm-attributes	5.2.1.3, annex B	c13801	
c13801:	IF A.5/2 MT supports Direct mode or A.50/2 AP supports Direct mode;			
	THEN mandatory;			
	ELSE n/a.			

Comments: ....

....

Table A.139: RLC_NW_SIGNALLING_HANDOVER parameters

Prerequisite:	A.18 /1 MT supports handover or			
	A.63/1 AP supports handover.			
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.2.1.3, annex B	m	
2	mt-token-auth-encr	5.2.1.3, annex B	c	

Comments: ....

....

Table A.140: RLC_NW_SIGNALLING_HANDOVER_ACK parameters

Prerequisite:	A.18 /1 MT supports handover or			
	A.63/1 AP supports handover.			
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.2.1.3, annex B	m	
2	ap-token-auth-encr	5.2.1.3, annex B	c	

Comments: ....

....

Table A.141: RLC_HO_INFO_DISTRIBUTION parameters

Prerequisite:	A.18 /1 MT supports handover or A.63/1 AP supports handover.			
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.2.1.4, annex B	m	
2	token	5.2.1.4, annex B	m	

Comments: ....

....

Table A.142: RLC_HO_INFO_DISTRIBUTION_ACK parameters

Prerequisite:	A.18 /1 MT supports handover or A.63/1 AP supports handover.			
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.2.1.4, annex B	m	
2	mac-id	5.2.1.4, annex B	m	

Comments: ....

....

Table A.143: RLC_NETWORK_HANDOVER_COMPLETE parameters

Prerequisite:	A.18 /1 MT supports handover or A.63/1 AP supports handover.			
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.2.1.4, annex B	m	
2	cl-id	5.2.1.4, annex B	m	
3	duc-ext-ind	5.2.1.4, annex B	m	
4	cl-conn-attr-length	5.2.1.4, annex B	m	
5	duc-descr-list	5.2.1.4, annex B	m	

Comments: ....

....

Table A.144: RLC_HANDOVER_REQUEST_NACK parameters

Prerequisite:	A.18 /1 MT supports handover or A.63/1 AP supports handover.			
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.2.1.5, annex B	m	
2	mac-id-old	5.2.1.5, annex B	m	
3	ap-id-old	5.2.1.5, annex B	m	
4	net-id-old	5.2.1.5, annex B	m	

Table A.145: RLC_FORCE_HANDOVER parameters

Prerequisite:	A.18 /1 MT supports handover AND A.19/5 MT supports Forced Handover or A.63/1 AP supports handover AND A.64/5 AP supports Forced Handover.			
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.2.1.6, annex B	m	
2	return-flag	5.2.1.6, annex B	m	
3	force-handover-cause	5.2.1.6, annex B	m	
4	frequency-index	5.2.1.6, annex B	m	
5	ap-id	5.2.1.6, annex B	m	
6	net-id	5.2.1.6, annex B	m	

Comments: ....

....

Table A.146: RLC_FORCE_HANDOVER_ACK parameters

Prerequisite:	A.18 /1 MT supports handover AND A.19/5 MT supports Forced Handover or A.63/1 AP supports handover AND A.64/5 AP supports Forced Handover			
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.2.1.6, annex B	m	
2	mac-id	5.2.1.6, annex B	m	

A.8.2.2 Dynamic Frequency Selection (DFS)

Table A.147: RLC_AP_ABSENCE parameters

Prerequisite				
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.2.2.4, annex B	m	
2	first-mac-frame	5.2.2.4, annex B	m	
3	last-mac-frame	5.2.2.4, annex B	m	

Comments: ....

....

Table A.148: RLC_DFS_MEASUREMEN16 FRAMES_REQUEST parameters

Prerequisite				
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.2.2.4, annex B	m	
2	frequency-index	5.2.2.4, annex B	m	
3	use-omni-antenna	5.2.2.4, annex B	m	
4	start-of-measurement	5.2.2.4, annex B	m	
5	measurement-window	5.2.2.4, annex B	m	
6	maximum-age-of-bch-measurement	5.2.2.4, annex B	m	

Comments: ....

....

Table A.149: RLC_DFS_MEASUREMENT_PERCENTILES_REQUEST parameters

Prerequisite				
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.2.2.4, annex B	m	
2	frequency-index	5.2.2.4, annex B	m	
3	use-omni-antenna	5.2.2.4, annex B	m	
4	start-of-measurement	5.2.2.4, annex B	m	
5	measurement-window	5.2.2.4, annex B	m	
6	rss-index-list	5.2.2.4, annex B	m	

Comments: ....

....

Table A.150: RLC_DFS_MEASUREMENT_COMPLETE_REQUEST parameters

Prerequisite				
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.2.2.4, annex B	m	
2	frequency-index	5.2.2.4, annex B	m	
3	use-omni-antenna	5.2.2.4, annex B	m	
4	start-of-measurement	5.2.2.4, annex B	m	
5	measurement-window	5.2.2.4, annex B	m	
6	maximum-age-of-bch-measurement	5.2.2.4, annex B	m	
7	rss-index-list	5.2.2.4, annex B	m	

Comments: ....

....

Table A.151: RLC_DFS_MT_INIT_REPORT_REQUEST parameters

Prerequisite:	A.20/2 MT performs and reports self initiated measurements or A.65/2 AP accepts MT self initiated measurement reports.			
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.2.2.4, annex B	m	
2	measurement-type	5.2.2.4, annex B	m	
3	frequency-index	5.2.2.4, annex B	m	
4	adjacent-ch-interference	5.2.2.4, annex B	m	
5	mac-id	5.2.2.4, annex B	m	

Comments: ....

....

Table A.152: RLC_DFS_MT_INIT_REPORT_REQUEST_ACK parameters

Prerequisite:	A.20/2 MT performs and reports self initiated measurements or			
	A.65/2 AP accepts MT self initiated measurement reports.			
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.2.2.4, annex B	m	
2	reporting-initialized	5.2.2.4, annex B	m	

Comments: ....

....

Table A.153: RLC_DFS_REPOR16 FRAMES parameters

Prerequisite				
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.2.2.4, annex B	m	
2	frequency-index	5.2.2.4, annex B	m	
3	omni-antenna-used	5.2.2.4, annex B	m	
4	age-of-measurement	5.2.2.4, annex B	m	
5	last-own-bch-rx-level	5.2.2.4, annex B	m	
6	bch-found	5.2.2.4, annex B	m	
7	traffic-load	5.2.2.4, annex B	m	
8	ap-id	5.2.2.4, annex B	m	
9	tx-level	5.2.2.4, annex B	m	
10	net-Id	5.2.2.4, annex B	m	
11	bch-rx-Level	5.2.2.4, annex B	m	

Comments: ....

....

Table A.154: RLC_DFS_REPORT_PERCENTILES parameters

Prerequisite				
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.2.2.4, annex B	m	
2	frequency-index	5.2.2.4, annex B	m	
3	omni-antenna-used	5.2.2.4, annex B	m	
4	last-own-bch-rx-level	5.2.2.4, annex B	m	
5	number-of-samples	5.2.2.4, annex B	m	
6	rss-index-list	5.2.2.4, annex B	m	
7	rss-statistics-list	5.2.2.4, annex B	m	

Comments: ....

....

Table A.155: RLC_DFS_REPORT_COMPLETE parameters

Prerequisite				
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.2.2.4, annex B	m	
2	frequency-index	5.2.2.4, annex B	m	
3	omni-antenna-used	5.2.2.4, annex B	m	
4	age-of-measurement	5.2.2.4, annex B	m	
5	last-own-bch-rx-level	5.2.2.4, annex B	m	
6	number-of-samples	5.2.2.4, annex B	m	
7	bch-found	5.2.2.4, annex B	m	
8	traffic-load	5.2.2.4, annex B	m	
9	ap-id	5.2.2.4, annex B	m	
10	tx-level	5.2.2.4, annex B	m	
11	net-Id	5.2.2.4, annex B	m	
12	bch-rx-Level	5.2.2.4, annex B	m	
13	rss-index-list	5.2.2.4, annex B	m	
14	rss-statistics-list	5.2.2.4, annex B	m	

Comments: ....

....

A.8.2.3   Change frequency

Table A.156: RLC_CHANGE_FREQUENCY parameters

Prerequisite				
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.2.2.6, annex B	m	
2	first-mac-frame	5.2.2.6, annex B	m	
3	last-mac-frame	5.2.2.6, annex B	m	
4	frequency-index	5.2.2.6, annex B	m	

Comments: ....

....

A.8.2.4   Uplink power control

Table A.157: RLC_UPLINK_PC_CALIBRATION parameters

Prerequisite				
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.2.3.1, annex B	m	
2	pc-offset	5.2.3.1, annex B	m	

Comments: ....

....

A.8.2.5 MT alive

Table A.158: RLC_MT_ALIVE_REQUEST parameters

Prerequisite				
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.2.4, annex B	m	
2	no-of-mt-alive-procedures	5.2.4, annex B	m	
3	mt-alive-interval	5.2.4, annex B	m	

Comments: ....

....

Table A.159: RLC_MT_ALIVE_REQUEST_ACK parameters

Prerequisite				
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.2.4, annex B	m	
2	mac-id	5.2.4, annex B	m	

Comments: ....

....

Table A.160: RLC_MT_ALIVE parameters

Prerequisite				
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.2.4, annex B	m	
2	mac-id	5.2.4, annex B	m	

Comments: ....

....

Table A.161: RLC_MT_ALIVE_ACK parameters

Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.2.4, annex B	m	

Comments: ....

....

A.8.2.6 MT absence

Table A.162: RLC_MT_ABSENCE parameters

Prerequisite:	A.18/5	MT supports Absence or		
	A.63/5	AP supports Absence.		
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.2.5, annex B	m	
2	mt-absence-time	5.2.5, annex B	m	
3	mac-id	5.2.5, annex B	m	

Comments: ....

....

Table A.163: RLC_MT_ABSENCE_ACK parameters

Prerequisite:	A.18 /5	MT supports Absence or		
	A.63/5	AP supports Absence.		
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.2.5, annex B	m	

Comments: ....

....

A.8.2.7 Power saving

Table A.164: RLC_SLEEP parameters

Prerequisite:	A.18 /6	MT supports Power saving or		
	none	mandatory for AP to support Power saving.		
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.2.6, annex B	m	
2	care-of-broadcast	5.2.6, annex B	m	
3	sleep-group	5.2.6, annex B	m	
4	mac-id	5.2.6, annex B	m	

Comments: ....

....

Table A.165: RLC_SLEEP_ACK parameters

Prerequisite:	A.18 /6	MT supports Power saving or		
	none	mandatory for AP to support Power saving.		
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.2.6, annex B	m	
2	care-of-broadcast	5.2.6, annex B	m	
3	sleep-group	5.2.6, annex B	m	
4	offset	5.2.6, annex B	m	

Comments: ....

....

A.8.3 Parameters of PDUs for DUC support

A.8.3.1 DUC setup

Table A.166: RLC_SETUP parameters

Prerequisite				
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.3.1.1, annex B	m	
2	cl-id	5.3.1.1, annex B	m	
3	duc-ext-ind	5.3.1.1, annex B	m	
4	cl-conn-attr-length	5.3.1.1, annex B	m	
5	duc-descr-list	5.3.1.1, annex B	m	

Comments: ....

....

Table A.167: RLC_CONNECT parameters

Prerequisite				
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.3.1.1, annex B	m	
2	cl-id	5.3.1.1, annex B	m	
3	cl-conn-attr-length	5.3.1.1, annex B	m	
4	duc-descr-list	5.3.1.1, annex B	m	

Comments: ....

....

Table A.168: RLC_CONNECT_ACK parameters

Prerequisite				
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.3.1.1, annex B	m	
2	cl-id	5.3.1.1, annex B	m	
3	cl-conn-attr-length	5.3.1.1, annex B	m	
4	dlcc-descr-list	5.3.1.1, annex B	m	

Comments: ....

....

A.8.3.2 DUC release

Table A.169: RLC_RELEASE parameters

Prerequisite				
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.3.2.1, annex B	m	
2	release-cause	5.3.2.1, annex B	m	
3	dlcc-id-list	5.3.2.1, annex B	m	

Comments: ....

....

Table A.170: RLC_RELEASE_ACK parameters

Prerequisite				
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.3.2.1, annex B	m	
2	dlcc-id-list	5.3.2.1, annex B	m	

Comments: ....

....

A.8.3.3 DUC modify

Table A.171: RLC_MODIFY_REQ parameters

Prerequisite:	A.21/4 MT supports Modify radio connection or A.66/4 AP supports DUC modify.			
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.3.3.1, annex B	m	
2	duc-ext-ind	5.3.3.1, annex B	m	
3	cl-conn-attr-length	5.3.3.1, annex B	m	
4	duc-descr-list	5.3.3.1, annex B	m	

Comments: ....

....

Table A.172: RLC_MODIFY parameters

Prerequisite:	A.21/4 MT supports Modify radio connection or A.66/4 AP supports DUC modify.			
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.3.3.1, annex B	m	
2	cl-conn-attr-length	5.3.3.1, annex B	m	
3	duc-descr-list	5.3.3.1, annex B	m	

Comments: ....

....

Table A.173: RLC_MODIFY_ACK parameters

Prerequisite:	A.21/4 MT supports Modify radio connection or			
	A.66/4 AP supports DUC modify.			
Item	Parameter	Reference	Status	Support
1	rlc-pdu-type	5.3.3.1, annex B	m	
2	cl-conn-attr-length	5.3.3.1, annex B	m	
3	dlcc-descr-list	5.3.3.1, annex B	m	

Comments: ....

....

Table A.174: RLC_RESET parameters

Prerequisite				
Item	Parameter	Reference	Status	Support
1	rlc-pdu-type	5.3.4.1, annex B	m	
2	dlcc-id-list	5.3.4.1, annex B	m	

Comments: ....

....

Table A.175: RLC_RESET_ACK parameters

Prerequisite				
Item	Parameter	Reference	Status	Support
1	rlc-pdu-type	5.3.4.1, annex B	m	
2	dlcc-id-list	5.3.4.1, annex B	m	

Comments: ....

....

A.8.3.4   Direct Mode DUC setup

Table A.176: RLC_DM_SETUP parameters

Prerequisite:	A.5/2 MT supports Direct mode or			
	A.50/2 AP supports Direct mode.			
Item	Parameter	Reference	Status	Support
1	rlc-pdu-type	5.3.7.1, annex B	m	
2	peer-mac-id	5.3.7.1, annex B	m	
3	cl-id	5.3.7.1, annex B	m	
4	duc-ext-ind	5.3.7.1, annex B	m	
5	cl-conn-attr-length	5.3.7.1, annex B	m	
6	duc-descr-list	5.3.7.1, annex B	m	
7	cl-common-attr	5.3.7.1, annex B	m	

Table A.177: RLC_DM_CONNECT parameters

Prerequisite:	A.5/2	MT supports Direct mode or		
	A.50/2	AP supports Direct mode.		
Item	Parameter	Reference	Status	Support
1	rlc-pdu-type	5.3.7.1, annex B	m	
2	peer-mac-id	5.3.7.1, annex B	m	
3	cl-id	5.3.7.1, annex B	m	
4	cl-conn-attr-length	5.3.7.1, annex B	m	
5	duc-descr-list	5.3.7.1, annex B	m	

Comments: ....

....

Table A.178: RLC_DM_CONNECT_ACK parameters

Prerequisite:	A.5/2	MT supports Direct mode or		
	A.50/2	AP supports Direct mode		
Item	Parameter	Reference	Status	Support
1	rlc-pdu-type	5.3.7.1, annex B	m	
2	peer-mac-id	5.3.7.1, annex B	m	
3	cl-id	5.3.7.1, annex B	m	
4	cl-conn-attr-length	5.3.7.1, annex B	m	
5	dlcc-descr-list	5.3.7.1, annex B	m	

Comments: ....

....

Table A.179: RLC_DM_CONNECT_COMPLETE parameters

Prerequisite:	A.5/2	MT supports Direct mode or		
	A.50/2	AP supports Direct mode.		
Item	Parameter	Reference	Status	Support
1	rlc-pdu-type	5.3.7.1, annex B	m	
2	peer-mac-id	5.3.7.1, annex B	m	
3	dlcc-id-list	5.3.7.1, annex B	m	

Comments: ....

....

Table A.180: RLC_DM_COMPLETE_ACK parameters

Prerequisite:	A.5/2	MT supports Direct mode or		
	A.50/2	AP supports Direct mode.		
Item	Parameter	Reference	Status	Support
1	rlc-pdu-type	5.3.7.1, annex B	m	
2	peer-mac-id	5.3.7.1, annex B	m	
3	mac-id	5.3.7.1, annex B	m	

Comments: ....

....

Table A.181: RLC_RELAY_SETUP parameters

Prerequisite:	A.5/2 MT supports Direct mode AND A.21/12 MT supports relay functions or A.50/2 AP supports Direct mode.			
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.3.7.3, annex B	m	
2	peer-mac-id	5.3.7.3, annex B	m	
3	cl-id	5.3.7.3, annex B	m	
4	duc-ext-ind	5.3.7.3, annex B	m	
5	cl-conn-attr-length	5.3.7.3, annex B	m	
6	duc-descr-list	5.3.7.3, annex B	m	
7	cl-common-attr	5.3.7.3, annex B	m	

Table A.182: RLC_RELAY_SETUP_ACK parameters

Prerequisite:	A.5/2MT supports Direct mode AND A.21 /12 MT supports relay functions or A.50/2 AP supports Direct mode.			
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.3.7.3, annex B	m	
2	peer-mac-id	5.3.7.3, annex B	m	
3	cl-conn-attr-length	5.3.7.3, annex B	m	
4	dlcc-descr-list	5.3.7.3, annex B	m	

Comments: ....

....

A.8.3.5   Direct Mode DUC release

Table A.183: RLC_DM_RELEASE parameters

Prerequisite:	A.5/2 MT supports Direct mode or A.50/2 AP supports Direct mode.			
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.3.8.1, annex B	m	
2	peer-mac-id	5.3.8.1, annex B	m	
3	release-cause	5.3.8.1, annex B	m	
4	dlcc-id-list	5.3.8.1, annex B	m	

Comments: ....

....

Table A.184: RLC_DM_RELEASE_ACK parameters

Prerequisite:	A.5/2 MT supports Direct mode or A.50/2 AP supports Direct mode.			
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.3.8.1, annex B	m	
2	peer-mac-id	5.3.8.1, annex B	m	
3	dlcc-id-list	5.3.8.1, annex B	m	

Comments: ....

....

A.8.3.6   DUC relay release

Table A.185: RLC_RELAY_RELEASE parameters

Prerequisite:	A.5/2 MT supports Direct mode AND A.21 /12 MT supports relay functions or A.50/2 AP supports Direct mode			
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.3.8.3, annex B	m	
2	peer-mac-id	5.3.8.3, annex B	m	
3	release-cause	5.3.8.3, annex B	m	
4	dlcc-id-list	5.3.8.3, annex B	m	

Comments: ....

....

Table A.186: RLC_RELAY_RELEASE_ACK parameters

Prerequisite:	A.5/2 MT supports Direct mode AND A.21 /2 MT supports relay functions or A.50/1 AP supports Direct mode			
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.3.8.3, annex B	m	
2	peer-mac-id	5.3.8.3, annex B	m	
3	dlcc-id-list	5.3.8.3, annex B	m	

Comments: ....

....

A.8.3.7   Direct Mode DUC modify

Table A.187: RLC_DM_MODIFY_REQ parameters

Prerequisite:	A.5/1 MT supports Direct mode or A.50/1 AP supports Direct mode.			
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.3.9.1, annex B	m	
2	peer-mac-id	5.3.9.1, annex B	m	
3	cl-conn-attr-length	5.3.9.1, annex B	m	
4	duc-descr-list	5.3.9.1, annex B	m	

Comments: ....

....

Table A.188: RLC_DM_MODIFY parameters

Prerequisite:	A.5/1 MT supports Direct mode or A.50/1 AP supports Direct mode.			
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.3.9.1, annex B	m	
2	peer-mac-id	5.3.9.1, annex B	m	
3	cl-conn-attr-length	5.3.9.1, annex B	m	
4	duc-descr-list	5.3.9.1, annex B	m	

Comments: ....

....

Table A.189: RLC_DM_MODIFY_ACK parameters

Prerequisite:	A.5/1 MT supports Direct mode or A.50/1 AP supports Direct mode.			
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.3.9.1, annex B	m	
2	peer-mac-id	5.3.9.1, annex B	m	
3	cl-conn-attr-length	5.3.9.1, annex B	m	
4	dlcc-descr-list	5.3.9.1, annex B	m	

Comments: ....

....

Table A.190: RLC_DM_MODIFY_COMPLETE parameters

Prerequisite:	A.5/1 MT supports Direct mode or A.50/1 AP supports Direct mode.			
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.3.9.1, annex B	m	
2	peer-mac-id	5.3.9.1, annex B	m	
3	dlcc-descr-list	5.3.9.1, annex B	m	

Comments: ....

....

Table A.191: RLC_DM_MODIFY_COMPLETE_ACK parameters

Prerequisite:	A.5/1 MT supports Direct mode or A.50/1 AP supports Direct mode.			
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.3.9.1, annex B	m	
2	peer-mac-id	5.3.9.1, annex B	m	
3	mac-id	5.3.9.1, annex B	m	

Comments: ....

....

Table A.192: RLC_RELAY_MODIFY parameters

Prerequisite:	A.5/2 MT supports Direct mode AND A.21/12 MT supports relay functions or A.50/2 AP supports Direct mode			
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	5.3.9.3, annex B	m	
2	peer-mac-id	5.3.9.3, annex B	m	
3	cl-conn-attr-length	5.3.9.3, annex B	m	
4	duc-descr-list	5.3.9.3, annex B	m	

Comments: ....

....

Table A.193: RLC_RELAY_MODIFY_ACK parameters

Prerequisite:	A.5/2 MT supports Direct mode AND A.21/12 MT supports relay functions or A.50/2 AP supports Direct mode.			
Item	Parameter	Reference	Status	Support
1	rlc-pdu-type	5.3.9.3, annex B	m	
2	peer-mac-id	5.3.9.3, annex B	m	
3	cl-conn-attr-length	5.3.9.3, annex B	m	
4	dlcc-descr-list	5.3.9.3, annex B	m	

Comments: ....

....

Table A.194: RLC_TEST_MODE_SETUP parameters

Prerequisite:	A.21/2 MT supports Test Mode or A.66/2 AP supports Test Mode			
Item	Parameter	Reference	Status	Support
1	rlc-pdu-type	5.3.13, annex B	m	
2	test-mode	5.3.13, annex B	m	
3	test-mode-duc-fwbw-descr	5.3.13, annex B	m	

Comments: ....

....

Table A.195: RLC_TEST_MODE_CONNECT parameters

Prerequisite:	A.21/2 MT supports Test Mode or A.66/2 AP supports Test Mode.			
Item	Parameter	Reference	Status	Support
1	rlc-pdu-type	5.3.13, annex B	m	
2	test-mode	5.3.13, annex B	m	
3	test-mode-duc-fwbw-descr	5.3.13, annex B	m	

Comments: ....

....

Table A.196: RLC_TEST_MODE_CONNECT_ACK parameters

Prerequisite:	A.21/2 MT supports Test Mode or A.66/2 AP supports Test Mode.			
Item	Parameter	Reference	Status	Support
1	rlc-pdu-type	5.3.13, annex B	m	
2	test-mode-dlcc-fwbw-descr	5.3.13, annex B	m	

Comments: ....

....

A.8.4   Parameters of PDU for non support

Table A.197: RLC_NO_SUPPORT parameters

Prerequisite				
Item	**Parameter**	**Reference**	**Status**	**Support**
1	rlc-pdu-type	7, annex B	m	
2	sch-lch	7, annex B	m	
3	no-support-pdu-type	7, annex B	m	
4	extension-type	7, annex B	m	
5	mac-id	7, annex B	m	

Comments: ....

....

A.9   Values of PDUs Parameters

As there are no options in the definition of the parameter values, refer to the Technical specifications in
TS 101 761-2 [1] and to the ASN.1 description in annex D.4, for a complete definition of the parameter values.

A.10 Timers

Table A.198: MT Timers

Item	<Item description>	Reference	Status	Support	Value	
					Allowed	**Supported**
1	T_rbch_association_req	annex C	m		16 frames	
2	T_mac_id_assign	annex C	m		16 frames	
3	T_link_capability	annex C	m		16 frames	
4	T_key_exchange_mt	annex C	m		2 048 frames	
5	T_authentication	annex C	m		128 frames	
6	T_authentication_ap	annex C	m		1 024 frames	
7	T_authentication-ap	annex C	m		128 frames	
8	T_dm_common_key_distr_ack	annex C	m		16 frames	
9	T_info	annex C	m		16 frames	
10	T_group_join	annex C	m		16 frames	
11	T_group_leave	annex C	m		16 frames	
12	T_cl_broadcast_join	annex C	m		16 frames	
13	T_cl_broadcast_leave	annex C	m		16 frames	
14	T_disassociation_mt	annex C	m		16 frames	
15	T_connect_ack	annex C	m		16 frames	
16	T_setup_mt	annex C	m		16 frames	
17	T_connect_mt	annex C	m		16 frames	
18	T_release_mt	annex C	m		16 frames	
19	T_modify_req_mt	annex C	m		128 frames	
20	T_modify_mt	annex C	m		128 frames	
21	T_reset_mt	annex C	m		16 frames	
22	T_dfs_mt_init_report	annex C	m		16 frames	
23	T_sector_handover_req	annex C	m		16 frames	
24	T_handover_request	annex C	m		16 frames	
25	T_handover_notify	annex C	m		256 frames	
26	T_nw_signalling_handover	annex C	m		128 frames	
27	T_force_handover_return	annex C	m		256 frames	
28	T_sleep_request	annex C	m		16 frames	
29	T_mt_alive	annex C	m		16 frames	
30	T_dm_setup_mt	annex C	m		16 frames	
31	T_dm_connect_mt	annex C	m		16 frames	
32	T_dm_connect_cmpt_mt	annex C	m		128 frames	
33	T_relay_setup_mt	annex C	m		128 frames	
34	T_dm_release_mt	annex C	m		128 frames	
35	T_relay_release_mt	annex C	m		128 frames	
36	T_dm_modify_req_mt	annex C	m		16 frames	
37	T_dm_modify_mt	annex C	m		16 frames	
38	T_dm_modify_cmpt_mt	annex C	m		128 frames	
39	T_relay_modify_mt	annex C	m		128 frames	
40	T_dm_reset_mt	annex C	m		128 frames	
41	T_test_mode_setup_mt	annex C	m		16 frames	
42	T_test_mode_connect_mt	annex C	m		16 frames	
43	T_prepare_test_mode_mt	annex C	m		16 frames	

Table A.199: AP Timers

Item	<Item description>	Reference	Status	Support	Value	
					Allowed	**Supported**
1	T_mac_id_assign_ack	annex C	m		16 frames	
2	T_link_capability_ack	annex C	m		16 frames	
3	T_key_exchange_ap	annex C	m		2 048 frames	
4	T_authentication_mt	annex C	m		1 024 frames	
5	T_authentication_ack	annex C	m		1 024 frames	
6	T_dm_common_key_distr	annex C	m		16 frames	
7	T_nw_signalling_handover_ack	annex C	m		16 frames	
8	T_info_ack	annex C	m		16 frames	
9	T_disassociation_ap	annex C	m		16 frames	
10	T_unicast_key_refresh	annex C	m		128 frames	
11	T_common_key_refresh	annex C	m		128 frames	
12	T_connect_ap	annex C	m		16 frames	
13	T_setup_ap	annex C	m		16 frames	
14	T_release_ap	annex C	m		16 frames	
15	T_modify_ap	annex C	m		128 frames	
16	T_modify_req_ap	annex C	m		128 frames	
17	T_reset_ap	annex C	m		16 frames	
18	T_force_handover	annex C	m		16 frames	
19	T_force_handover_return	annex C	m		256 frames	
20	T_handover_association	annex C	m		16 frames	
21	T_handover_link_capability_ack	annex C	m		16 frames	
22	T_handover_notify	annex C	m		256 frames	
23	T_nw_signalling_handover_ack	annex C	m		16 frames	
24	T_nw_handover_complete	annex C	m		16 frames	
25	T_ho_info_distribution	annex C	m		16 frames	
26	T_mt_alive_request	annex C	m		16 frames	
27	T_mt_absence	annex C	m		16 frames	
28	T_dm_setup_ap	annex C	m		16 frames	
29	T_dm_connect_ap	annex C	m		16 frames	
30	T_dm_connect_cmpt_ap	annex C	m		16 frames	
31	T_dm_release_ap	annex C	m		16 frames	
32	T_dm_modify_req_ap	annex C	m		16 frames	
33	T_dm_modify_ap	annex C	m		16 frames	
34	T_dm_modify_cmpt_ap	annex C	m		16 frames	
35	T_dm_reset_ap	annex C	m		16 frames	
36	T_test_mode_setup_ap	annex C	m		16 frames	
37	T_test_mode_connect_ap	annex C	m		16 frames	
38	T_prepare_test_mode_ap	annex C	m		16 frames	

History

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