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Foreword

This Technical Specification has been produced by the 3rd Generation Partnership Project (3GPP).

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

Version x.y.z

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- x the first digit:
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- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

Introduction

The definition of the Conformance Tests for UE in E-UTRAN will be a complex task as the complete test suite covers RF, EMC and Protocol aspects of the UE.

Each test requires a Test Environment to be defined in which the UE has to operate to defined standards, constraints and performance. The overall task can be simplified if there are a number of well defined and agreed Common Test Environments where every one can be used for a number of tests. Hence the present document defines testing conditions that are common to several tests avoiding the need to duplicate the same information for every single test.

The present document defines default values for a variety of common areas. Where values are not specified in test cases, the defaults in the present document will apply. If specified, the test case values will take precedence.

1 Scope

The present document contains definitions of reference conditions and test signals, default parameters, reference radio bearer configurations used in radio bearer interoperability testing, common radio bearer configurations for other test purposes, common requirements for test equipment and generic set-up procedures for use in conformance tests for the 3rd Generation E-UTRAN User Equipment (UE).

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, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document in the same Release as the present document.

[1]	3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
[2]	3GPP TS 23.003: "Numbering, addressing and identification".
[3]	3GPP TS 23.122: "Non-Access-Stratum functions related to Mobile Station (MS) in idle mode".
[4]	3GPP TS 24.008: "Mobile radio interface Layer 3 specification; Core network protocols; Stage 3".
[5]	3GPP TS 34.108: "Common Test Environments for User Equipment (UE); Conformance testing".
[6]	3GPP TS 34.109: "Terminal logical test interface; Special conformance testing functions".
[7]	3GPP TS 34.123-1: "User Equipment (UE) conformance specification; Part 1: Protocol conformance specification".
[8]	3GPP TS 34.123-2: "User Equipment (UE) conformance specification; Part 2: Implementation conformance statement (ICS) specification".
[9]	3GPP TS 34.123-3: "User Equipment (UE) conformance specification; Part 3: Abstract test suites (ATSs)".
[10]	3GPP TS 36.300: "Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Overall description; Stage 2".
[11]	3GPP TS 36.302: "Evolved Universal Terrestrial Radio Access (E-UTRA); Services provided by the physical layer".
[12]	3GPP TS 36.304: "Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) procedures in idle mode".
[13]	3GPP TS 36.306: "Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio access capabilities".
[14]	3GPP TS 36.321: "Evolved Universal Terrestrial Radio Access (E-UTRA); Medium Access Control (MAC) protocol specification".
[15]	3GPP TS 36.322: "Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Link Control (RLC) protocol specification".
[16]	3GPP TS 36.323: "Evolved Universal Terrestrial Radio Access (E-UTRA); Packet Data Convergence Protocol (PDCP) specification".

[17]	3GPP TS 36.331: "Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC); Protocol Specification".
[18]	3GPP TS 36.523-1: "Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification".
[19]	3GPP TS 36.523-2: "Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification".
[20]	3GPP TS 36.523-3: "Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 3: Abstract Test Suites (ATS)".
[21]	3GPP TS 36.521-1: "Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: conformance testing".
[22]	3GPP TS 36.521-2: "Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 2: Implementation Conformance Statement (ICS)".
[23]	3GPP TR 24.801: "3GPP System Architecture Evolution; CT WG1 aspects".
[24]	3GPP TS 23.401: "General Packet Radio Service (GPRS) enhancements for Evolved Universal Terrestrial Access Network (E-UTRAN) access".
[25]	3GPP TS 51.010-1: "Mobile Station (MS) conformance specification; Part 1: Conformance specification ".
[26]	ISO/IEC 9646 (all parts): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework".
[27]	3GPP TS 36.101: "Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio transmission and reception".
[28]	3GPP TS 24.301: "Non-Access-Stratum (NAS) protocol for Evolved Packet System (EPS); Stage 3".
[29]	3GPP TS 36.213: "Evolved Universal Terrestrial Radio Access (E-UTRA); Physical layer procedures".
[30]	3GPP TS 36.104: "Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) radio transmission and reception".
[31]	3GPP TS 33.401: "3GPP System Architecture Evolution (SAE); Security architecture".
[32]	3GPP TS 31.101: "UICC-terminal interface; Physical and logical characteristics".
[33]	3GPP TS 31.102: "Characteristics of the Universal Subscriber Identity Module (USIM) application".
[34]	3GPP TS 36.521-3: "Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 3: Radio Resource Management conformance testing".
[35]	3GPP TS 36.211: "Evolved Universal Terrestrial Radio Access (E-UTRA); Physical channels and modulation".
[36]	3GPP2 TSG-C C.S0038-B v1.0: "Signalling Conformance Specification for High Rate Packet Data Air Interface".
[37]	3GPP2 TSG-C C.S0043-A v1.0: "Signalling Conformance Test Specification for cdma2000 Spread Spectrum Systems".

[38]	3GPP TS 36.509: "Evolved Universal Terrestrial Radio Access (E-UTRA); Special conformance testing functions for User Equipment (UE)"
[39]	3GPP TS 36.133: "Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements for support of radio resource management"
[40]	3GPP TS 24.229: "IP multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3"
[41]	3GPP TS 23.402: "Architecture enhancements for non-3GPP accesses"
[42]	3GPP2 X.S0057-0-B v1.0 "E-UTRAN - eHRPD Connectivity and Interworking: Core Network Aspects"
[43]	3GPP TS 34.229-1: "Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification ".
[44]	3GPP2 C.S0024-B v3.0: "cdma2000 High Rate Packet Data Air Interface Specification".
[45]	3GPP TS 31.103: "Characteristics of the IP Multimedia Services Identity Module (ISIM) application".
[46]	3GPP TS 34.229-1: "Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification".
[47]	3GPP TS 34.229-3: "Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 3: Abstract Test Suite (ATS)".
[48]	3GPP2 C.S0065-B v2.0: "cdma2000 Application on UICC for Spread Spectrum Systems".
[49]	3GPP2 C.S0005-F v1.0: "Upper Layer (Layer 3) Signalling Standard for cdma2000 Spread Spectrum Systems – Release A, Addendum 2".
[50]	3GPP TS 34.121-1: "User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 1: Conformance specification ".
[51]	3GPP TS 34.122: "Terminal conformance specification; Radio transmission and reception (TDD)".
[52]	GSMA PRD IR.92: "IMS Profile for Voice and SMS".
[53]	3GPP TS 24.302: "Access to the 3GPP Evolved Packet Core (EPC) via non-3GPP access networks; Stage 3".
[54]	3GPP TS 23.402: "Architecture enhancements for non-3GPP accesses".
[55]	3GPP TS 33.402: "3GPP System Architecture Evolution (SAE);Security aspects of non-3GPP accesses".
[56]	GSMA PRD IR.88: "LTE and EPC Roaming Guidelines".

3 Definitions, symbols and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in TR 21.905 [1] apply, unless specified below:

B: a value followed by "B" is a binary value.

H: a value followed by "H" is a hexadecimal value.

3.2 Symbols

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

N_{DL} Downlink EARFCN

N_{RB} Transmission bandwidth configuration, expressed in units of resource blocks

 $N_{RB\ agg}$ Aggregated Transmission Bandwidth Configuration. The number of the aggregated RBs within the

fully allocated Aggregated Channel bandwidth.

N_{III.} Uplink EARFCN

3.3 Abbreviations

For the purposes of the present document, the abbreviations specified in TR 21.905 [1] apply, with any additional abbreviations specified below:

1xRTT 1x Radio Transmission Technology

CA Carrier Aggregation
CC Component Carrier
DRB (user) Data Radio Bearer

EARFCN E-UTRA Absolute Radio Frequency Channel Number

ECM EPS Connection Management EMM EPS Mobility Management

ENB Evolved Node B

EPRE Energy Per Resource Element
ESM EPS Session Management
HRPD High Rate Packet Data
MAC Media Access Control

OFDM Orthogonal Frequency Division Multiplexing

RBs Resource Blocks

ROHC Robust Header Compression

SS System Simulator
TH Temperature High
TL Temperature Low
TP Transmission Point
VH Higher extreme Voltage
VL Lower extreme Voltage

xCH_RA xCH-to-RS EPRE ratio for the channel xCH in all transmitted OFDM symbols not containing RS xCH_RB xCH-to-RS EPRE ratio for the channel xCH in all transmitted OFDM symbols containing RS

4 Common test environment

4.1 Environmental conditions

The requirements in this clause apply to all types of UE(s).

4.1.1 Temperature

The UE shall fulfil all the requirements in the full temperature range of:

Table 4.1.1-1: Temperature Test Environment

+15°C to +35°C for normal conditions (with relative humidity up to 75 %)	
-10°C to +55°C	for extreme conditions (see IEC publications 68-2-1 and 68-2-2)

Outside this temperature range the UE, if powered on, shall not make ineffective use of the radio frequency spectrum. In no case shall the UE exceed the transmitted levels as defined in TS 36.101 [27] for extreme operation.

The normative reference for this requirement is TS 36.101 [27] Annex E.1.

Some tests are performed also in extreme temperature conditions. These test conditions are denoted as TL (temperature low, -10° C) and TH (temperature high, $+55^{\circ}$ C).

4.1.2 Voltage

The UE shall fulfil all the requirements in the full voltage range, i.e. the voltage range between the extreme voltages.

The manufacturer shall declare the lower and higher extreme voltages and the approximate shutdown voltage. For the equipment that can be operated from one or more of the power sources listed below, the lower extreme voltage shall not be higher, and the higher extreme voltage shall not be lower than that specified below.

Power source Lower extreme **Normal conditions Higher extreme** voltage voltage voltage AC mains 0,9 * nominal 1,1 * nominal nominal 1,3 * nominal Regulated lead acid battery 0,9 * nominal 1,1 * nominal Non regulated batteries: Leclanché 0,85 * nominal Nominal Nominal 0,95 * nominal Lithium 1,1 * Nominal 1,1 * Nominal 0,90 * nominal Mercury/nickel & cadmium Nominal

Table 4.1.2-1: Voltage Test Environment

Outside this voltage range the UE if powered on, shall not make ineffective use of the radio frequency spectrum. In no case shall the UE exceed the transmitted levels as defined in TS 36.101 [27] for extreme operation. In particular, the UE shall inhibit all RF transmissions when the power supply voltage is below the manufacturer declared shutdown voltage.

The normative reference for this requirement is TS 36.101 [27] Annex E.2.

Some tests are performed also in extreme voltage conditions. These test conditions are denoted as VL (lower extreme voltage) and VH (higher extreme voltage).

4.2 Common requirements of test equipment

Mobile conformance testing can be categorized into 3 distinct areas:

- RF Conformance Testing.
- EMC Conformance Testing.
- Signalling Conformance Testing.

The test equipment required for each category of testing may or not be different, depending on the supplier of the test equipment. However, there will be some generic requirements of the test equipment that are essential for all three categories of test, and these are specified in this clause.

In addition, there will be requirements to test operation in multi-system configurations (e.g. EUTRAN plus UTRAN). However, these would not form a common test equipment requirement for the three test areas and are not considered in the present document.

The test equipment shall use the same number of Tx antennas for all parts of the tests, Initial condition and Test procedure, as specified in the minimum requirement.

4.2.1 General functional requirements

NOTE: This clause has been written such that it does not constrain the implementation of different architectures and designs of test equipment.

All test equipment used to perform conformance testing on a UE shall provide a platform suitable for testing UE's that are either:

- a) FDD Mode; or
- b) TDD Mode; or

c) both FDD/TDD Modes.

All test equipment shall provide (for the mode(s) supported) the following minimum functionality.

- The capability of emulating a single E-UTRA cell with the appropriate channels to allow the UE to register on the cell.
- The capability to allow the UE to set up an RRC connection with the system simulator, and to maintain the connection for the duration of the test.
- The capability (for the specific test):
 - to select and support an appropriate radio bearer for the downlink;
 - to set the appropriate downlink power levels;
 - to set up and support the appropriate radio bearer for the uplink;
 - to set and control the uplink power levels.

4.2.2 Minimum functional requirements

4.2.2.1 Supported Cell Configuration

The System Simulator shall provide the capability to simulate a minimum number of cells (of the appropriate E-UTRA Mode) whose number and capabilities are governed by the test cases that need to be performed (test cases are defined in 3GPP TS 36.523-1 [18](Signalling), 3GPP TS 36.521-1 [21] (RF) and 3GPP TS 36.521-3 [34] (RRM). For this purpose test cases can be split into two different categories: Tests that require only one cell and Tests that require several cells.

To perform test cases requiring one cell, the system simulator must provide a cell offering the capabilities to perform all the test cases in this category.

To perform test cases requiring several cells, additional cells must be provided by the system simulator. The additional cells, however, need only provide a minimum set of capabilities so as to support the first cell in carrying out the multicell test cases.

The type and number of channels (especially physical channels) constitute an important set of capabilities for a cell. The following clauses list possible channels that may be supported by the SS. Each channel type, however, and the minimum number of channels needed are only mandatory if specific test cases require them.

The mapping between Logical and Transport channels is as described in 3GPP TS 36.321 [14]. Similarly the mapping between Transport channels and Physical channels is as described in 3GPP TS 36.211, TS 36.302 and TS 36.212. The reference measurement channels (mapping between Transport channels and Physical channels for PDSCH/PDCCH) are defined in 3GPP TS 36.521-1[21] annex A

4.2.2.1.1 Supported Channels

4.2.2.1.1.1 Logical channels

Logical channel	Minimum number	Comments
BCCH	1	
CCCH	1	
DCCH	2	
PCCH	1	
DTCH	n <ffs></ffs>	Depending on SS's support for RB service testing (See clause 12 of 3GPP TS 36.523-1 [?]

4.2.2.1.1.2 Transport channels

Transport channel	Minimum number	Comments
BCH	1	
PCH	1	
RACH	1	
DL-SCH	n <ffs></ffs>	
UL-SCH	n <ffs></ffs>	

4.2.2.1.1.3 Physical channels

Physical channel	Minimum number	Comments
PBCH	1	Physical Broadcast Channel
PCFICH	1	The physical control format indicator channel carries information about the number of OFDM symbols used for transmission of PDCCHs in a subframe
PDCCH	1	The physical downlink control channel carries scheduling assignments and other control information.
PDSCH	1	Physical Downlink Shared Channel
PHICH	[1]	The PHICH carries the hybrid-ARQ ACK/NAK
PUCCH	1	The physical uplink control channel carries uplink control information
PUSCH	1	Physical Uplink Shared Channel
PRACH	1	Physical Random Access Channel

4.2.2.1.1.4 Physical signals

Physical signal	Minimum number	Comments
Demodulation reference signal	NA	UL
Sounding Reference signal	NA	UL TBD, if applicable
Cell-specific Reference Signal	NA	DL
UE-specific reference signal	NA	DL
Primary synchronisation signal	NA	DL
Secondary synchronisation signal	NA	DL

4.2.2.2 Support of T_{cell} timing offset

The timing offset in terms of frame start timing between any pair of TDD cells shall be < [3us]. For FDD cells there is no such restriction.

4.2.2.3 Supported Sidelink Configuration

The System Simulator shall provide the capability to simulate a minimum number of UEs whose number and capabilities are governed by the test cases that need to be performed (test cases are defined in 3GPP TS 36.523-1 [18] (Signalling), 3GPP TS 36.521-1 [21] (RF) and 3GPP TS 36.521-3 [34] (RRM). For this purpose test cases can be split into two different categories: Tests that require only one simulated UE and Tests that require several simulated UEs.

To perform test cases requiring one simulated UE, the system simulator shall provide a UE offering the capabilities to perform all the test cases in this category.

The type and number of sidelink channels (especially physical channels) constitute an important set of capabilities for a simulated UE. The following clauses list possible sidelink channels that may be supported by the SS. Each channel type, however, and the minimum number of channels needed are only mandatory if specific test cases require them.

The mapping between Logical and Transport channels is as described in 3GPP TS 36.321 [14]. Similarly the mapping between Transport channels and Physical channels is as described in 3GPP TS 36.211, TS 36.302 and TS 36.212.

4.2.2.3.1 Supported Sidelink Channels

4.2.2.3.1.1 Logical channels

Logical channel	Minimum number	Comments
STCH	1	
SBCCH	1	

4.2.2.3.1.2 Transport channels

Transport channel	Minimum number	Comments
SL-BCH	1	
SL-DCH	1	
SL-SCH	1	

4.2.2.3.1.3 Physical channels

Physical channel	Minimum number	Comments				
PSBCH	1	Physical Sidelink Broadcast CHannel				
PSCCH	1	Physical Sidelink Control CHannel				
PSDCH	1	Physical Sidelink Discovery CHannel				
PSSCH	1	Physical Sidelink Shared CHannel				

4.2.2.3.1.4 Physical signals

Physical signal	Minimum number	Comments
Sidelink	NA	Sidelink Synchronization
Synchronization		
Signals		

4.3 Reference test conditions

This clause contains the reference test conditions, which apply to all test cases unless otherwise specified.

4.3.1 Test frequencies

The test frequencies are based on the E-UTRA frequency bands defined in the core specifications.

The raster spacing is 100 KHz.

E-UTRA/FDD is designed to operate in paired bands of 3GPP TS 36.101 [27]. The reference test frequencies for the RF and Signalling test environment for each of the operating bands are defined in sub clause 4.3.1.1.

E-UTRA/TDD is designed to operate in unpaired bands of 3GPP TS 36.101 [27]. The reference test frequencies for the RF and Signalling test environment for each of the operating bands are defined in sub clause 4.3.1.2.

For non-CA Signalling testing, E-UTRA frequency to be tested is mid range and E-UTRA channel bandwidth to be tested is 5MHz for all operating bands for all test cases as the default configuration unless specific channel bandwidth is specified for the operating band below:

For Band 11, 13, 18 and 20, channel bandwidth to be tested is 10 MHz as the default configuration.

For Band 38, 39, 40 and 41, channel bandwidth to be tested is 20 MHz as the default configuration.

For CA Signalling testing with two component carriers, E-UTRA frequencies to be tested are according to sub clause 6.2.3.2 and the E-UTRA channel bandwidth combination is according to Table 4.3.1-1.

Table 4.3.1-1: Default E-UTRA channel bandwidth combinations for CA Signalling testing with two component carriers

CA configuration (Band(s),BW Class,BW Combination Set)	CA Channel Bandwidth combination carrier 1 + carrier 2 [MHz + MHz]	Comment
Intra-band contiguous and Bandwidth Class C	20+20	This channel bandwidth combination is used for all Intra-band contiguous CA configurations using Bandwidth Class C unless specific channel bandwidth combination is specified for a CA configuration or CA Bandwidth Combination Set by specific entries in this table below.
Intra-band contiguous and Bandwidth Class B	5+5	This channel bandwidth combination is used for all Intra-band contiguous CA configurations using Bandwidth Class B unless specific channel bandwidth combination is specified for a CA configuration or CA Bandwidth Combination Set by specific entries in this table below.
Inter-band CA and CA Bandwidth Class Combination A-A	10 + 10	This channel bandwidth combination is used for all Inter-band contiguous CA configurations using Bandwidth Class Combination A-A unless specific channel bandwidth combination is specified for a CA configuration or CA Bandwidth Combination Set by specific entries in this table below.
CA_1A-19A	15 + 10	This channel bandwidth combination is used for Inter-band contiguous CA configuration CA_1A-19A.
CA_1A-21A	15 + 15	This channel bandwidth combination is used for Inter-band contiguous CA configuration CA_1A-21A.
CA_3A-19A	20 + 10	This channel bandwidth combination is used for Inter-band contiguous CA configuration CA_3A-19A.
CA_19A-21A	10 + 15	This channel bandwidth combination is used for Inter-band contiguous CA configuration CA_19A-21A.
CA_39A-41A	20+20	This channel bandwidth combination is used for Inter-band CA configuration CA_39A-41A.
CA_39C	20 + 10	This channel bandwidth combination is used for Intra-band contiguous CA configuration CA_39C.

For RF testing, E-UTRA frequencies to be tested are low range, mid range and high range for all supported operating bands by default. E-UTRA channel bandwidths to be tested are lowest bandwidth, 5MHz bandwidth and highest bandwidth for all supported operating bands by default. Actual test configurations are specified case by case and stated in test case itself as the initial conditions.

The lowest bandwidth, 5MHz bandwidth and highest bandwidth are selected from the combined table which includes nominal and additional channel bandwidth.

In the case 5MHz bandwidth is not supported by the UE, E-UTRA channel bandwidth to be tested is only lowest bandwidth and highest bandwidth.

If channel bandwidth to be tested is equal to the lowest or highest channel bandwidth, then the same channel bandwidth is not required to be tested twice.

In addition to the default channel bandwidths to be tested specified above, for Bands 2, 4, 18, 19, 20 and 25, an industry requirement of testing in 10MHz channel bandwidth is allowed for test cases in chapters 6 and 7 in TS 36.521-1 [21].

Editor's note: For RF testing, an industry requirement of testing in 10MHz channel bandwidth is requested for Bands 2, 4, 18, 19, 20 and 25 for test cases in chapters 6 and 7 in TS 36.521-1[21], changing the existing test points to address this is being discussed in RAN5 and will be considered pending technical justification.

For A-GNSS testing in TS 37.571-1, the E-UTRA frequency and channel bandwidth to be tested follow the same rules as for Signalling testing above.

For intra-band non-contiguous CA (CA_XA-XA) test frequencies have been defined following the basic assumption that CC1 uses the Low Range frequency of the band, while CC2 the High Range frequency. Additional test frequencies not following this rule, are (should be) identified by notes.

For sidelink direct communication and sidelink direct discovery, operating band and bandwidth are specified in section 5.5D and 5.6D in TS 36.101 [27]. Sidelink direct communication and sidelink direct discovery operates in half duplex mode using the uplink frequency of corresponding band.

4.3.1.1 FDD Mode Test frequencies

4.3.1.1.1 FDD reference test frequencies for operating band 1

Table 4.3.1.1.1-1: Test frequencies for E-UTRA channel bandwidth for operating band 1

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	5	18025	1922.5	25	2112.5
Low Range	10	18050	1925	50	2115
Low Kange	15	18075	1927.5	75	2117.5
	20	18100	1930	100	2120
Mid Range	5/10/15/20	18300	1950	300	2140
	5	18575	1977.5	575	2167.5
High Dongs	10	18550	1975	550	2165
High Range	15	18525	1972.5	525	2162.5
	20	18500	1970	500	2160

4.3.1.1.1A FDD reference test frequencies for CA in operating band 1

Table 4.3.1.1.1A-1: Test frequencies for CA_1C

Range	CC- Combo / N _{RB_agg} [RB]			CC1 Note1					CC2 Note1		
		BW [RB]	N _{UL}	f _{UL} [MHz]	N _{DL}	f _{DL} [MHz]	BW [RB]	N _{UL}	f _{UL} [MHz]	N _{DL}	f _{DL} [MHz]
Low	75+75	75	18075	1927.5	75	2117.5	75	18225	1942.5	225	2132.5
	100+100	100	18100	1930	100	2120	100	18298	1949.8	298	2139.8
Mid	75+75	75	18225	1942.5	225	2132.5	75	18375	1957.5	375	2147.5
	100+100	100	18201	1940.1	201	2130.1	100	18399	1959.9	399	2149.9
High	75+75	75	18375	1957.5	375	2147.5	75	18525	1972.5	525	2162.5
	100+100	100	18302	1950.2	302	2140.2	100	18500	1970	500	2160
Note 1:	Carriers in in	ncreasing f	requency or	der.							

4.3.1.1.2 FDD reference test frequencies for operating band 2

Table 4.3.1.1.2-1: Test frequencies for E-UTRA channel bandwidth for operating band 2

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	1.4	18607	1850.7	607	1930.7
Low Range	3	18615	1851.5	615	1931.5
	5	18625	1852.5	625	1932.5

	10	18650	1855	650	1935
	15 ^[1]	18675	1857.5	675	1937.5
	20 [1]	18700	1860	700	1940
Mid Range	1.4/3/5/10 15 ^[1] /20 ^[1]	18900	1880	900	1960
	1.4	19193	1909.3	1193	1989.3
	3	19185	1908.5	1185	1988.5
High Dongs	5	19175	1907.5	1175	1987.5
High Range	10	19150	1905	1150	1985
	15 ^[1]	19125	1902.5	1125	1982.5
	20 [1]	19100	1900	1100	1980

NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.

4.3.1.1.2A FDD reference test frequencies for CA in operating band 2

Table 4.3.1.1.2A-1: Test frequencies for CA_2A-2A

	CC- Combo											
Range	N _{RB_agg} [RB]	CC1 Note1					Wgap [MHz]			CC2 Note1		
J		BW [RB]	N _{UL}	f _{UL} [MHz]	N _{DL}	f _{DL} [MHz]		BW [RB]	N _{UL}	f _{UL} [MHz]	N _{DL}	f _{DL} [MHz]
N/A	25+25	25	18625	1852.5	625	1932.5	50	25	19175	1907.5	1175	1987.5
	25+50	25	18625	1852.5	625	1932.5	45	50	19150	1905	1150	1985
		50	18650	1855	650	1935	45	25	19175	1907.5	1175	1987.5
	25+75	25	18625	1852.5	625	1932.5	40	75	19125	1902.5	1125	1982.5
		75	18675	1857.5	675	1937.5	40	25	19175	1907.5	1175	1987.5
	50+50	50	18650	1855	650	1935	40	50	19150	1905	1150	1985
	25+100	25	18625	1852.5	625	1932.5	35	100	19100	1900	1100	1980
		100	18700	1860	700	1940	35	25	19175	1907.5	1175	1987.5
	50+75	50	18650	1855	650	1935	35	75	19125	1902.5	1125	1982.5
		75	18675	1857.5	675	1937.5	35	50	19150	1905	1150	1985
	50+100	50	18650	1855	650	1935	30	100	19100	1900	1100	1980
		100	18700	1860	700	1940	30	50	19150	1905	1150	1985
	75+75	75	18675	1857.5	675	1937.5	30	75	19125	1902.5	1125	1982.5
	75+100	75	18675	1857.5	675	1937.5	25	100	19100	1900	1100	1980
		100	18700	1860	700	1940	25	75	19125	1902.5	1125	1982.5
	100+100	100	18700	1860	700	1940	20	100	19100	1900	1100	1980
Note 1:	Carriers in	increasir	ng freguen	cv order.								

4.3.1.1.3 FDD reference test frequencies for operating band 3

Table 4.3.1.1.3-1: Test frequencies for E-UTRA channel bandwidth for operating band 3

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	1.4	19207	1710.7	1207	1805.7
	3	19215	1711.5	1215	1806.5
Low Range	5	19225	1712.5	1225	1807.5
	10	19250	1715	1250	1810
	15 ^[1]	19275	1717.5	1275	1812.5
	20 ^[1]	19300	1720	1300	1815
Mid Range	1.4/3/5/10 15 ^[1] /20 ^[1]	19575	1747.5	1575	1842.5
	1.4	19943	1784.3	1943	1879.3
	3	19935	1783.5	1935	1878.5
High Dongo	5	19925	1782.5	1925	1877.5
High Range	10	19900	1780	1900	1875
	15 ^[1]	19875	1777.5	1875	1872.5
	^[1] 20	19850	1775	1850	1870

NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.

4.3.1.1.3A FDD reference test frequencies for CA in operating band 3

Table 4.3.1.1.3A-1: Test frequencies for CA_3C

Rang e	CC-Combo / N _{RB_agg} [RB]			CC1 Note1					CC2 Note1		
		BW [RB]	N _{UL}	f _{∪L} [MHz]	N _{DL}	f _{DL} [MHz]	BW [RB]	N _{UL}	f _{∪L} [MHz]	N _{DL}	f _{DL} [MHz]
Low	25+100	25	19233	1713.3	1233	1808.3	100	19350	1725	1350	1820
		100	19300	1720	1300	1815	25	19417	1731.7	1417	1826.7
	50+100	50	19255	1715.5	1255	1810.5	100	19399	1729.9	1399	1824.9
		100	19300	1720	1300	1815	50	19444	1734.4	1444	1829.4
	75+100	75	19278	1717.8	1278	1812.8	100	19449	1734.9	1449	1829.9
		100	19300	1720	1300	1815	75	19471	1737.1	1471	1832.1
	100+100	100	19300	1720	1300	1815	100	19498	1739.8	1498	1834.8
Mid	25+100	25	19483	1738.3	1483	1833.3	100	19600	1750.0	1600	1845.0
		100	19550	1745	1550	1840	25	19667	1756.7	1667	1851.7
	50+100	50	19481	1738.1	1481	1833.1	100	19625	1752.5	1625	1847.5
		100	19526	1742.6	1526	1837.6	50	19670	1757.0	1670	1852.0
	75+100	75	19478	1737.8	1478	1832.8	100	19649	1754.9	1649	1849.9
		100	19501	1740.1	1501	1835.1	75	19672	1757.2	1672	1852.2
	100+100	100	19476	1737.6	1476	1832.6	100	19674	1757.4	1674	1852.4
High	25+100	25	19733	1763.3	1733	1858.3	100	19850	1775	1850	1870
		100	19800	1770	1800	1865	25	19917	1781.7	1917	1876.7
	50+100	50	19706	1760.6	1706	1855.6	100	19850	1775	1850	1870
		100	19751	1765.1	1751	1860.1	50	19895	1779.5	1895	1874.5
	75+100	75	19679	1757.9	1679	1852.9	100	19850	1775	1850	1870
		100	19701	1760.1	1701	1855.1	75	19872	1777.2	1872	1872.2
	100+100	100	19652	1755.2	1652	1850.2	100	19850	1775	1850	1870
Note 1:	Carriers in inc	creasing f	requency	order.							

Table 4.3.1.1.3A-2: Test frequencies for CA_3A-3A

	CC- Combo											
Range	N _{RB_agg} [RB]			CC1 Note1			Wgap [MHz]	CC2 Note1				
		BW [RB]	N _{UL}	f _{∪L} [MHz]	N _{DL}	f _{DL} [MHz]		BW [RB]	N _{UL}	f _{UL} [MHz]	N _{DL}	f _{DL} [MHz]
N/A	25+25	25	19225	1712.5	1225	1807.5	65	25	19925	1782.5	1925	1877.5
	25+50	25	19225	1712.5	1225	1807.5	60	50	19900	1780	1900	1875
		50	19250	1715	1250	1810	60	25	19925	1782.5	1925	1877.5
	25+75	25	19225	1712.5	1225	1807.5	55	75	19875	1777.5	1875	1872.5
		75	19275	1717.5	1275	1812.5	55	25	19925	1782.5	1925	1877.5
	50+50	50	19250	1715	1250	1810	55	50	19900	1780	1900	1875
	25+100	25	19225	1712.5	1225	1807.5	50	100	19850	1775	1850	1870
		25	19575	1747.5	1575	1842.5	15 (Note 2)	100	19850	1775	1850	1870
		100	19300	1720	1300	1815	50	25	19925	1782.5	1925	1877.5
	50+75	50	19250	1715	1250	1810	50	75	19875	1777.5	1875	1872.5
		75	19275	1717.5	1275	1812.5	50	50	19900	1780	1900	1875
	50+100	50	19250	1715	1250	1810	45	100	19850	1775	1850	1870
		100	19300	1720	1300	1815	45	50	19900	1780	1900	1875
	75+75	75	19275	1717.5	1275	1812.5	45	75	19875	1777.5	1875	1872.5
	75+100	75	19275	1717.5	1275	1812.5	40	100	19850	1775	1850	1870
		100	19300	1720	1300	1815	40	75	19875	1777.5	1875	1872.5
	100+100	100	19300	1720	1300	1815	35	100	19850	1775	1850	1870
Note 1:	Carriers in	n increasi	ng frequer	ncy order.	•							

Note 2: Test point derived with regard to REFSENS requirements.

4.3.1.1.4 FDD reference test frequencies for operating band 4

Table 4.3.1.1.4-1: Test frequencies for E-UTRA channel bandwidth for operating band 4

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	1.4	19957	1710.7	1957	2110.7
	3	19965	1711.5	1965	2111.5
Low Bongo	5	19975	1712.5	1975	2112.5
Low Range	10	20000	1715	2000	2115
	15	20025	1717.5	2025	2117.5
	20	20050	1720	2050	2120
Mid Range	1.4/3/5/10/15/20	20175	1732.5	2175	2132.5
	1.4	20393	1754.3	2393	2154.3
	3	20385	1753.5	2385	2153.5
Ligh Dongo	5	20375	1752.5	2375	2152.5
High Range	10	20350	1750	2350	2150
	15	20325	1747.5	2325	2147.5
	20	20300	1745	2300	2145

4.3.1.1.4A FDD reference test frequencies for CA in operating band 4

Table 4.3.1.1.4A-1: Test frequencies for CA_4A-4A

	CC- Combo / N _{RB_agg}	CC1				Wgap			CC2			
Range	[RB]	BW [RB]	N _{UL}	Note1 f _{UL} [MHz]	N _{DL}	f _{DL}	[MHz]	BW [RB]	N _{UL}	Note1 f _{UL} [MHz]	N _{DL}	f _{DL} [MHz]
N/A	25+25	25	19975	1712.5	1975	2112.5	35	25	20375	1752.5	2375	2152.5
	25+50	25	19975	1712.5	1975	2112.5	30	50	20350	1750	2350	2150
		50	20000	1715	2000	2115	30	25	20375	1752.5	2375	2152.5
	25+75	25	19975	1712.5	1975	2112.5	25	75	20325	1747.5	2325	2147.5
		75	20025	1717.5	2025	2117.5	25	25	20375	1752.5	2375	2152.5
	50+50	50	20000	1715	2000	2115	25	50	20350	1750	2350	2150
	25+100	25	19975	1712.5	1975	2112.5	20	100	20300	1745	2300	2145
		100	20050	1720	2050	2120	20	25	20375	1752.5	2375	2152.5
	50+75	50	20000	1715	2000	2115	20	75	20325	1747.5	2325	2147.5
		75	20025	1717.5	2025	2117.5	20	50	20350	1750	2350	2150
	50+100	50	20000	1715	2000	2115	15	100	20300	1745	2300	2145
		100	20050	1720	2050	2120	15	50	20350	1750	2350	2150
	75+75	75	20025	1717.5	2025	2117.5	15	75	20325	1747.5	2325	2147.5
	75+100	75	20025	1717.5	2025	2117.5	10	100	20300	1745	2300	2145
		100	20050	1720	2050	2120	10	75	20325	1747.5	2325	2147.5
	100+100	100	20050	1720	2050	2120	5	100	20300	1745	2300	2145
Note 1:	Carriers in	n increasi	ng frequer	ncy order.								

4.3.1.1.5 FDD reference test frequencies for operating band 5

Table 4.3.1.1.5-1: Test frequencies for E-UTRA channel bandwidth for operating band 5

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	1.4	20407	824.7	2407	869.7
Low Bongo	3	20415	825.5	2415	870.5
Low Range	5	20425	826.5	2425	871.5
	10 ^[1]	20450	829	2450	874
Mid Range	1.4/3/5 10 ^[1]	20525	836.5	2525	881.5
	1.4	20643	848.3	2643	893.3
Ligh Dongo	3	20635	847.5	2635	892.5
High Range	5	20625	846.5	2625	891.5
	10 ^[1]	20600	844	2600	889

NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.

4.3.1.1.6 FDD reference test frequencies for operating band 6

Table 4.3.1.1.6-1: Test frequencies for E-UTRA channel bandwidth for operating band 6

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N_{DL}	Frequency of Downlink [MHz]
Low Range	5	20675	832.5	2675	877.5
	10 ^[1]	20700	835	2700	880
Mid Range	5 10 ^[1]	20700	835	2700	880
High Range	5	20725	837.5	2725	882.5
	10 ^[1]	20700	835	2700	880

NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.

NOTE: For Band VI testing, the Mobile Country Code shall be set to (MCC = '442/443').

4.3.1.1.7 FDD reference test frequencies for operating band 7

Table 4.3.1.1.7-1: Test frequencies for E-UTRA channel bandwidth for operating band 7

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	5	20775	2502.5	2775	2622.5
Low Pongo	10	20800	2505	2800	2625
Low Range	15	20825	2507.5	2825	2627.5
	20 ^[1]	20850	2510	2850	2630
Mid Range	5/10/15 20 ^[1]	21100	2535	3100	2655
	5	21425	2567.5	3425	2687.5
High Range	10	21400	2565	3400	2685
	15	21375	2562.5	3375	2682.5
	20 ^[1]	21350	2560	3350	2680

NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.

4.3.1.1.7A FDD reference test frequencies for CA in operating band 7

Table 4.3.1.1.1A-1: Test frequencies for CA_7C

Range	CC-Combo / N _{RB_agg} [RB]		CC1 Note1					CC2 Note1				
		BW [RB]	N _{UL}	f _{∪L} [MHz]	N _{DL}	f _{DL} [MHz]	BW [RB]	N _{UL}	f _{∪L} [MHz]	N _{DL}	f _{DL} [MHz]	
Low	50+100	50	20805	2505.5	2805	2625.5	100	20949	2519.9	2949	2639.9	
		100	20850	2510	2850	2630	50	20994	2524.4	2994	2644.4	
	75+75	75	20825	2507.5	2825	2627.5	75	20975	2522.5	2975	2642.5	
	75+100	75	20828	2507.8	2828	2627.8	100	20999	2524.9	2999	2644.9	
		100	20850	2510	2850	2630	75	21021	2527.1	3021	2647.1	
	100+100	100	20850	2510	2850	2630	100	21048	2529.8	3048	2649.8	
Mid	50+100	50	21006	2525.6	3006	2645.6	100	21150	2540	3150	2660	
		100	21051	2530.1	3051	2650.1	50	21195	2544.5	3195	2664.5	
	75+75	75	21025	2527.5	3025	2647.5	75	21175	2542.5	3175	2662.5	
	75+100	75	21003	2525.3	3003	2645.3	100	21174	2542.4	3174	2662.4	
		100	21026	2527.6	3026	2647.6	75	21197	2544.7	3197	2664.7	
	100+100	100	21001	2525.1	3001	2645.1	100	21199	2544.9	3199	2664.9	
High	50+100	50	21206	2545.6	3206	2665.6	100	21350	2560	3350	2680	
		100	21251	2550.1	3251	2670.1	50	21395	2564.5	3395	2684.5	
	75+75	75	21225	2547.5	3225	2667.5	75	21375	2562.5	3375	2682.5	
	75+100	75	21179	2542.9	3179	2662.9	100	21350	2560	3350	2680	
		100	21201	2545.1	3201	2665.1	75	21372	2562.2	3372	2682.2	
	100+100	100	21152	2540.2	3152	2660.2	100	21350	2560	3350	2680	
Note 1:	Carriers in inc	creasing f	requency	order.				•				

Table 4.3.1.1.7A-2: Test frequencies for CA_7A-7A

	CC- Combo											
Range	N _{RB_agg} [RB]	CC1 Note1				Wgap [MHz]	CC2 Note1					
		BW [RB]	N _{UL}	f _{∪L} [MHz]	N _{DL}	f _{DL} [MHz]		BW [RB]	N _{UL}	f _{∪L} [MHz]	N_{DL}	f _{DL} [MHz]
	25+25	25	20775	2502.5	2775	2622.5	60	25	21425	2567.5	3425	2687.5
•	25+50	25	20775	2502.5	2775	2622.5	55	50	21400	2565	3400	2685
		50	20800	2505	2800	2625	55	25	21425	2567.5	3425	2687.5
	25+75	25	20775	2502.5	2775	2622.5	50	75	21375	2562.5	3375	2682.5
		75	20825	2507.5	2825	2627.5	50	25	21425	2567.5	3425	2687.5
N/A	50+50	50	20800	2505	2800	2625	50	50	21400	2565	3400	2685
	25+100	25	20775	2502.5	2775	2622.5	45	100	21350	2560	3350	2680
		100	20850	2510	2850	2630	45	25	21425	2567.5	3425	2687.5
	50+75	50	20800	2505	2800	2625	45	75	21375	2562.5	3375	2682.5
		75	20825	2507.5	2825	2627.5	45	50	21400	2565	3400	2685
	50+100	50	20800	2505	2800	2625	40	100	21350	2560	3350	2680
		100	20850	2510	2850	2630	40	50	21400	2565	3400	2685
	75+75	75	20825	2507.5	2825	2627.5	40	75	21375	2562.5	3375	2682.5
	75+100	75	20825	2507.5	2825	2627.5	35	100	21350	2560	3350	2680
		75	21025	2527.5	3025	2647.5	15 (Note 2)	100	21350	2560	3350	2680
		100	20850	2510	2850	2630	35	75	21375	2562.5	3375	2682.5
•	100+100	100	20850	2510	2850	2630	30	100	21350	2560	3350	2680
		100	21000	2525	3000	2645	15 (Note 2)	100	21350	2560	3350	2680
Note 1: Note 2:			ng frequer with regar	ncy order. d to REFS	ENS requ	irements.						

4.3.1.1.8 FDD reference test frequencies for operating band 8

Table 4.3.1.1.8-1: Test frequencies for E-UTRA channel bandwidth for operating band 8

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	1.4	21457	880.7	3457	925.7
Low Bongo	3	21465	881.5	3465	926.5
Low Range	5	21475	882.5	3475	927.5
	10 ^[1]	21500	885	3500	930
Mid Range	1.4/3/5 10 ^[1]	21625	897.5	3625	942.5
	1.4	21793	914.3	3793	959.3
High Bongo	3	21785	913.5	3785	958.5
High Range	5	21775	912.5	3775	957.5
	10 ^[1]	21750	910	3750	955

NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.

4.3.1.1.9 FDD reference test frequencies for operating band 9

Table 4.3.1.1.9-1: Test frequencies for E-UTRA channel bandwidth for operating band 9

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
Low Pongo	5	21825	1752.4	3825	1847.4
Low Range	10	21850	1754.9	3850	1849.9

	15 ^[1]	21875	1757.4	3875	1852.4
	20 ^[1]	21900	1759.9	3900	1854.9
Mid Range	5/10 15 ^[1] /20 ^[1]	21975	1767.4	3975	1862.4
	5	22125	1782.4	4125	1877.4
High Dongo	10	22100	1779.9	4100	1874.9
High Range	15 ^[1]	22075	1777.4	4075	1872.4
	20 ^[1]	22050	1774.9	4050	1869.9

NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.

4.3.1.1.10 FDD reference test frequencies for operating band 10

Table 4.3.1.1.10-1: Test frequencies for E-UTRA channel bandwidth for operating band 10

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	5	22175	1712.5	4175	2112.5
Low Range	10	22200	1715	4200	2115
Low Range	15	22225	1717.5	4225	2117.5
	20	22250	1720	4250	2120
Mid Range	5/10/15/20	22450	1740	4450	2140
	5	22725	1767.5	4725	2167.5
Lligh Dongo	10	22700	1765	4700	2165
High Range	15	22675	1762.5	4675	2162.5
	20	22650	1760	4650	2160

4.3.1.1.11 FDD reference test frequencies for operating band 11

Table 4.3.1.1.11-1: Test frequencies for E-UTRA channel bandwidth for operating band 11

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
Low Range	5	22775	1430.4	4775	1478.4
	10 ^[1]	22800	1432.9	4800	1480.9
Mid Range	5 / 10 ^[1]	22850	1437.9	4850	1485.9
High Range	5	22925	1445.4	4925	1493.4
NOTE 4 D I I I I	10 ^[1]	22900	1442.9	4900	1490.9

NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.

4.3.1.1.12 FDD reference test frequencies for operating band 12

Table 4.3.1.1.12-1: Test frequencies for E-UTRA channel bandwidth for operating band 12

Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
1.4	23017	699.7	5017	729.7
3	23025	700.5	5025	730.5
	23035	701.5	5035	731.5
10 ^[1]	23060	704	5060	734
1.4/3 5 ^[1] /10 ^[1]	23095	707.5	5095	737.5
1.4	23173	715.3	5173	745.3
3	23165	714.5	5165	744.5
	23155	713.5	5155	743.5
	23130	711	5130	741
	[MHz] 1.4 3 5 [1] 10 [1] 1.4/3 5 [1]/10 [1] 1.4 3 5 [1] 10 [1]	[MHz] 1.4 23017 3 23025 5 [1] 23035 10 [1] 23060 1.4/3 23095 5 [1]/10 [1] 23173 3 23165 5 [1] 23155 10 [1] 23130	[MHz] Uplink [MHz] 1.4 23017 699.7 3 23025 700.5 5 [1] 23035 701.5 10 [1] 23060 704 1.4/3 23095 707.5 5 [1]/10 [1] 23173 715.3 3 23165 714.5 5 [1] 23155 713.5 10 [1] 23130 711	[MHz] Uplink [MHz] 1.4 23017 699.7 5017 3 23025 700.5 5025 5 [1] 23035 701.5 5035 10 [1] 23060 704 5060 1.4/3

NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.

4.3.1.1.12A FDD reference test frequencies for CA in operating band 12

Table 4.3.1.1.12A-1: Test frequencies for CA_12B

Range	CC-Combo / N _{RB_agg} [RB]	CC1 Note1				CC2 Note1					
J		BW [RB]	N _{UL}	f _{∪L} [MHz]	N _{DL}	f _{DL} [MHz]	BW [RB]	N _{UL}	f _{∪∟} [MHz]	N _{DL}	f _{DL} [MHz]
Low	25+25	25	23035	701.5	5035	731.5	25	23083	706.3	5083	736.3
	25+50	25	23035	701.5	5035	731.5	50	23107	708.7	5107	738.7
		50	23060	704	5060	734	25	23132	711.2	5132	741.2
Mid	25+25	25	23070	705	5070	735	25	23118	709.8	5118	739.8
	25+50	25	23045	702.5	5045	732.5	50	23117	709.7	5117	739.7
		50	23070	705	5070	735	25	23142	712.2	5142	742.2
High	25+25	25	23107	708.7	5107	738.7	25	23155	713.5	5155	743.5
	25+50	25	23058	703.8	5058	733.8	50	23130	711	5130	741
		50	23083	706.3	5083	736.3	25	23155	713.5	5155	743.5
Note 1:	Carriers in increasing frequency order.										

4.3.1.1.13 FDD reference test frequencies for operating band 13

Table 4.3.1.1.13-1: Test frequencies for E-UTRA channel bandwidth for operating band 13

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]		
Low Dongs	5 ^[1]	23205	779.5	5205	748.5		
Low Range	10 ^[1]	23230	782	5230	751		
Mid Range	5 ^[1] /10 ^[1]	23230	782	5230	751		
High Dongo	5 ^[1]	23255	784.5	5255	753.5		
High Range	10 ^[1]	23230	782	5230	751		
NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement							
(TS 36.101 [27] Clause 7.3) is allowed.							

4.3.1.1.14 FDD reference test frequencies for operating band 14

Table 4.3.1.1.14-1: Test frequencies for E-UTRA channel bandwidth for operating band 14

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]		
Low Range	5 ^[1]	23305	790.5	5305	760.5		
Low Kange	10 ^[1]	23330	793	5330	763		
Mid Range	5 ^[1] /10 ^[1]	23330	793	5330	763		
High Range	5 ^[1]	23355	795.5	5355	765.5		
nigh Kange	10 ^[1]	23330	793	5330	763		
NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.							

4.3.1.1.15 FDD reference test frequencies for operating band 15

[FFS; not yet specified in TS 36.101]

4.3.1.1.16 FDD reference test frequencies for operating band 16

[FFS; not yet specified in TS 36.101]

4.3.1.1.17 FDD reference test frequencies for operating band 17

Table 4.3.1.1.17-1: Test frequencies for E-UTRA channel bandwidth for operating band 17

Test Frequency ID	Bandwidth	N _{UL}	Frequency of	N _{DL}	Frequency of
	[MHz]		Uplink [MHz]		Downlink [MHz]

Low Range	5 ^[1]	23755	706.5	5755	736.5
Low Kange	10 ^[1]	23780	709	5780	739
Mid Range	5 ^[1] /10 ^[1]	23790	710	5790	740
High Dange	5 ^[1]	23825	713.5	5825	743.5
High Range	10 ^[1]	23800	711	5800	741

NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.

4.3.1.1.18 FDD reference test frequencies for operating band 18

Table 4.3.1.1.18-1: Test frequencies for E-UTRA channel bandwidth for operating band 18

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	5	23875	817.5	5875	862.5
Low Range	10 ^[1]	23900	820	5900	865
	15 ^[1]	23925	822.5	5925	867.5
Mid Range	5/10 ^[1] /15 ^[1]	23925	822.5	5925	867.5
	5	23975	827.5	5975	872.5
High range	10 ^[1]	23950	825	5950	870
	15 ^[1]	23925	822.5	5925	867.5

NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.

4.3.1.1.19 FDD reference test frequencies for operating band 19

Table 4.3.1.1.19-1: Test frequencies for E-UTRA channel bandwidth for operating band 19

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	5	24025	832.5	6025	877.5
Low Range	10 ^[1]	24050	835	6050	880
	15 ^[1]	24075	837.5	6075	882.5
Mid Range	5/10 ^[1] /15 ^[1]	24075	837.5	6075	882.5
	5	24125	842.5	6125	887.5
High range	10 ^[1]	24100	840	6100	885
	15 ^[1]	24075	837.5	6075	882.5

NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.

4.3.1.1.20 FDD reference test frequencies for operating band 20

Table 4.3.1.1.19-1: Test frequencies for E-UTRA channel bandwidth for operating band 20

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]	
	5	24175	834.5	6175	793.5	
Low Range	10 ^[1]	24200	837	6200	796	
	15 ^[1]	24225	839.5	6225	798.5	
	20 ^[1]	24250	842	6250	801	
Mid Range	5/10 ^[1] /15 ^[1] /20 ^[1]	24300	847	6300	806	
	5	24425	859.5	6425	818.5	
High rongo	10 ^[1]	24400	857	6400	816	
High range	15 ^[1]	24375	854.5	6375	813.5	
	20 ^[1]	24350	852	6350	811	

NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.

4.3.1.1.21 FDD reference test frequencies for operating band 21

Table 4.3.1.1.21-1: Test frequencies for E-UTRA channel bandwidth for operating band 21

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	5	24475	1450.4	6475	1498.4
Low Range	10 ^[1]	24500	1452.9	6500	1500.9
	15 ^[1]	24525	1455.4	6525	1503.4
Mid Range	5/10 ^[1] /15 ^[1]	24525	1455.4	6525	1503.4
	5	24575	1460.4	6575	1508.4
High range	10 ^[1]	24550	1457.9	6550	1505.9
	15 ^[1]	24525	1455.4	6525	1503.4

NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.

4.3.1.1.22 FDD reference test frequencies for operating band 22

Table 4.3.1.1.22-1: Test frequencies for E-UTRA channel bandwidth for operating band 22

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	5	24625	3412.5	6625	3512.5
Low Range	10	24650	3415	6650	3515
	15	24675	3417.5	6675	3517.5
	20	24700	3420	6700	3520
Mid Range	5/10/15/20	25000	3450	7000	3550
	5	25375	3487.5	7375	3587.5
High Dongs	10	25350	3485	7350	3585
High Range	15	25325	3482.5	7325	3582.5
	20	25300	3480	7300	3580

4.3.1.1.23 FDD reference test frequencies for operating band 23

Table 4.3.1.1.23-1: Test frequencies for E-UTRA channel bandwidth for operating band 23

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	1.4	25507	2000.7	7507	2180.7
	3	25515	2001.5	7515	2181.5
Low Dongs	5	25525	2002.5	7525	2182.5
Low Range	10	25550	2005	7550	2185
	15	25575	2007.5	7575	2187.5
	20	25600	2010	7600	2190
Mid Range	1.4/3 5 /10 / 15 / 20	25600	2010	7600	2190
	1.4	25693	2019.3	7693	2199.3
	3	25685	2018.5	7685	2198.5
High Dangs	5	25675	2017.5	7675	2197.5
High Range	10	25650	2015	7650	2195
	15	25625	2012.5	7625	2192.5
	20	25600	2010	7600	2190

4.3.1.1.23A FDD reference test frequencies for CA in operating band 23

Table 4.3.1.1.23A-1: Test frequencies for CA_23A-23A

Range	CC- Combo / N _{RB_agg} [RB]			CC1 Note1			Wgap [MHz]			CC2 Note1		
		BW [RB]	N _{UL}	f _{∪L} [MHz]	N_{DL}	f _{DL} [MHz]		BW [RB]	N _{UL}	f _{∪∟} [MHz]	N_{DL}	f _{DL} [MHz]
N/A	25+50	25	25525	2002.5	7525	2182.5	5	50	25650	2015	7650	2195
Note 1:	Carriers	in increas	ing freque	ency order.	ı							

Table 4.3.1.1.23A-2: Test frequencies for CA_23B

Range	CC-Combo / N _{RB_agg} [RB]			CC1 Note1					CC2 Note1		
		BW [RB]	N _{UL}	f _{UL} [MHz]	N _{DL}	f _{DL} [MHz]	BW [RB]	N _{UL}	f _{∪L} [MHz]	N _{DL}	f _{DL} [MHz]
Low/Mid/High	25+75	25	25531	2003.1	7531	2183.1	75	25624	2012.4	7624	2192.4
	50+50	50	25551	2005.1	7551	2185.1	50	25650	2015	7650	2195
Note 1: Ca	rriers in increasi	ng freque	ncy order								

4.3.1.1.24 FDD reference test frequencies for operating band 24

Table 4.3.1.1.24-1: Test frequencies for E-UTRA channel bandwidth for operating band 24

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
Low Range	5	25725	1629	7725	1527.5
	10	25750	1631.5	7750	1530
Mid Range	5/10	25870	1643.5	7870	1542
High Dongs	5	26015	1658	8015	1556.5
High Range	10	25990	1655.5	7990	1554

4.3.1.1.25 FDD reference test frequencies for operating band 25

Table 4.3.1.1.25-1: Test frequencies for E-UTRA channel bandwidth for operating band 25

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	1.4	26047	1850.7	8047	1930.7
	3	26055	1851.5	8055	1931.5
Low Bongo	5	26065	1852.5	8065	1932.5
Low Range	10	26090	1855	8090	1935
	15 ^[1]	26115	1857.5	8115	1937.5
	20 [1]	26140	1860	8140	1940
Mid Range	1.4/3/5/10 15 ^[1] /20 ^[1]	26365	1882,5	8365	1962.5
	1.4	26683	1914.3	8683	1994.3
	3	26675	1913.5	8675	1993.5
High Dongs	5	26665	1912.5	8665	1992.5
High Range	10	26640	1910	8640	1990
	15 ^[1]	26615	1907.5	8615	1987.5
	20 ^[1]	26590	1905	8590	1985

NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.

4.3.1.1.25A FDD reference test frequencies for CA in operating band 25

Table 4.3.1.1.25A-1: Test frequencies for CA_25A-25A

	CC- Combo											
Range	N _{RB_agg} [RB]			CC1 Note1			Wgap [MHz]			CC2 Note1		
		BW [RB]	N _{UL}	f _{∪L} [MHz]	N _{DL}	f _{DL} [MHz]		BW [RB]	N _{UL}	f _{∪L} [MHz]	N _{DL}	f _{DL} [MHz]
N/A	25+25	25	26065	1852.5	8065	1932.5	55	25	26665	1912.5	8665	1992.5
	25+50	25	26065	1852.5	8065	1932.5	50	50	26640	1910	8640	1990
		25	26415	1887.5	8415	1967.5	15 (Note 2)	50	26640	1910	8640	1990
		50	26090	1855	8090	1935	50	25	26665	1912.5	8665	1992.5
	50+50	50	26090	1855	8090	1935	45	50	26640	1910	8640	1990
		50	26440	1890	8440	1970	10 (Note 2)	50	26640	1910	8640	1990
	25+100	25	26065	1852.5	8065	1932.5	40	100	26590	1905	8590	1985
		100	26140	1860	8140	1940	40	25	26665	1912.5	8665	1992.5
	50+75	50	26090	1855	8090	1935	40	75	26615	1907.5	8615	1987.5
		75	26115	1857.5	8115	1937.5	40	50	26640	1910	8640	1990
	50+100	50	26090	1855	8090	1935	35	100	26590	1905	8590	1985
		100	26140	1860	8140	1940	35	50	26640	1910	8640	1990
	75+75	75	26115	1857.5	8115	1937.5	35	75	26615	1907.5	8615	1987.5
	75+100	75	26115	1857.5	8115	1937.5	30	100	26590	1905	8590	1985
		100	26140	1860	8140	1940	30	75	26615	1907.5	8615	1987.5
	100+100	100	26140	1860	8140	1940	25	100	26590	1905	8590	1985

Note 1: Carriers in increasing frequency order.

Note 2: Test point derived with regard to REFSENS requirements.

4.3.1.1.26 FDD reference test frequencies for operating band 26

Table 4.3.1.1.26-1: Test frequencies for E-UTRA channel bandwidth for operating band 26

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	1.4	26697	814.7	8697	859.7
	3	26705	815.5	8705	860.5
Low Range	5	26715	816.5	8715	861.5
	10 ^[1]	26750	820	8750	865
	15 ^[1]	26775	822.5	8775	867.5
Mid Range	1.4/3/5/10 ^[1] 15 ^[1]	26865	831.5	8865	876.5
	1.4	27033	848.3	9033	893.3
	3	27025	847.5	9025	892.5
High Range	5	27015	846.5	9015	891.5
	10 ^[1]	26990	844	8990	889
NOTE 1: Pandwidt	^{ניז} 15	26965	841.5	8965	886.5

NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.

4.3.1.1.27 FDD reference test frequencies for operating band 27

Table 4.3.1.1.27-1: Test frequencies for E-UTRA channel bandwidth for operating band 27

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	1.4	27047	807.7	9047	852.7
Low Bongo	3	27055	808.5	9055	853.5
Low Range	5	27065	809.5	9065	854.5
	10 ^[1]	27090	812	9090	857
Mid Range	1.4/3/5/10 ^[1]	27125	815.5	9125	860.5
	1.4	27203	823.3	9203	868.3
High Dango	3	27195	822.5	9195	867.5
High Range	5	27185	821.5	9185	866.5
	10 ^[1]	27160	819	9160	864

NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.

4.3.1.1.27A FDD reference test frequencies for CA in operating band 27

Table 4.3.1.1.27A-1: Test frequencies for CA_27B

	CC-Combo /								CC2		
	\mathbf{N}_{RB_agg}			CC1					Note		
Range	[RB]			Note1			1				
		BW	N _{UL}	f∪∟	N_{DL}	f _{DL}	BW	N_{UL}	f∪∟	N_{DL}	f _{DL}
		[RB]		[MHz]		[MHz]	[RB]		[MHz]		[MHz]
Low	6+25	6	27048	807.8	9048	852.8	25	27078	810.8	9078	855.8
	15+25	15	27056	808.6	9056	853.6	25	27095	812.5	9095	857.5
	25+25	25	27065	809.5	9065	854.5	25	27113	814.3	9113	859.3
	6+50	6	27051	808.1	9051	853.1	50	27102	813.2	9102	858.2
	15+50	15	27059	808.9	9059	853.9	50	27119	814.9	9119	859.9
Mid	6+25	6	27101	813.1	9101	858.1	25	27131	816.1	9131	861.1
	15+25	15	27101	813.1	9101	858.1	25	27140	817.0	9140	862.0
	25+25	25	27101	813.1	9101	858.1	25	27149	817.9	9149	862.9
	6+50	6	27080	811.0	9080	856.0	50	27131	816.1	9131	861.1
	15+50	15	27079	810.9	9079	855.9	50	27139	816.9	9139	861.9
High	6+25	6	27155	818.5	9155	863.5	25	27185	821.5	9185	866.5
	15+25	15	27146	817.6	9146	862.6	25	27185	821.5	9185	866.5
	25+25	25	27137	816.7	9137	861.7	25	27185	821.5	9185	866.5
	6+50	6	27109	813.9	9109	858.9	50	27160	819.0	9160	864.0
	15+50	15	27100	813.0	9100	858.0	50	27160	819.0	9160	864.0
Note 1:	Carriers in inc	creasing f	requency	order.	•				•		

4.3.1.1.28 FDD reference test frequencies for operating band 28

Table 4.3.1.1.28-1: Test frequencies for E-UTRA channel bandwidth for operating band 28

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	3	27225	704.5	9225	759.5
]	5	27235	705.5	9235	760.5
Low Range	10 ^[1]	27260	708	9260	763
	15 ^[1]	27285	710.5	9285	765.5
	20 ^[1]	27310	713	9310	768
	3	27375	719.5	9375	774.5
·	5	27385	720.5	9385	775.5
Mid Range	10 ^[1]	27410	723	9410	778
	15 ^[1]	27435	725.5	9435	780.5
]	20 ^[1,2]	27460	728	9460	783
	3	27645	746.5	9645	801.5
	5	27635	745.5	9635	800.5
High Range	10[1]	27610	743	9610	798
	15[1]	27585	740.5	9585	795.5
	20[1]	27560	738	9560	793

NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.

NOTE 2: Mid Range for 20 MHz moved due to note 2 in Table 5.6.1-1 of TS 36.101 [27]. NOTE 3: For CA_18A-28A and CA_1A-18A-28A use test frequencies in Table 4.3.1.1.28-2.

Table 4.3.1.1.28-2: Test frequencies for E-UTRA channel bandwidth for operating band 28 in CA_18A-28A and CA_1A-18A-28A

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
Low Range	5	27235	705.5	9235	760.5
Low Range	10 ^[1]	27260	708	9260	763
Mid Range	5/10 ^[1]	27360	718	9360	773
High Range	5 10 ^[1]	27485 27460	730.5 728	9485 9460	785.5 783
NOTE 4. Daniel	امسم مامنمانی سمک مادانی را		: C		

NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.

4.3.1.1.29 FDD reference test frequencies for CA in operating band 29

Table 4.3.1.1.29-1: Test frequencies for E-UTRA channel bandwidth for operating band 29

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	3	NA ^[1]	NA	9675	718.5
Low Pange	5	NA ^[1]	NA	9685	719.5
Low Range	10	NA ^[1]	NA	9710	722
Mid Range	3 5 /10	NA ^[1]	NA	9715	722.5
High Range	3	NA ^[1]	NA	9755	726.5
	5	NA ^[1]	NA	9745	725.5
	10	NA ^[1]	NA	9720	723

NOTE 1: Restricted to E-UTRA operation when carrier aggregation is configured. The downlink operating band is paired with the uplink operating band (external) of the carrier aggregation configuration that is supporting the configured Pcell.

4.3.1.1.30 FDD reference test frequencies for operating band 30

Table 4.3.1.1.30-1: Test frequencies for E-UTRA channel bandwidth for operating band 30

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
Low Bongo	5	27685	2307.5	9795	2352.5
Low Range	10	27710	2310	9820	2355
Mid Range	5/10	27710	2310	9820	2355
Llink Danne	5	27735	2312.5	9845	2357.5
High Range	10	27710	2310	9820	2355

4.3.1.1.31 FDD reference test frequencies for operating band 31

Table 4.3.1.1.31-1: Test frequencies for E-UTRA channel bandwidth for operating band 31

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	1.4	27767	453.2	9877	463.2
Low Range	3 ^[1]	27775	454	9885	464
	5 ^[1]	27785	455	9895	465
Mid Range	1.4/3 ^[1] / 5 ^[1]	27785	455	9895	465
High Range	1.4	27803	456.8	9913	466.8
	3 ^[1]	27795	456	9905	466
	5 ^[1]	27785	455	9895	465

NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.

4.3.1.1.32 FDD reference test frequencies for CA in operating band 32

Table 4.3.1.1.32-1: Test frequencies for E-UTRA channel bandwidth for operating band 32

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	5	NA ^[1]	NA	9945	1454.5
Low Pongo	10	NA ^[1]	NA	9970	1457
Low Range	15	NA ^[1]	NA	9995	1459.5
	20	NA ^[1]	NA	10020	1462
Mid Range	5/10/15/20	NA ^[1]	NA	10140	1474
	5	NA ^[1]	NA	10335	1493.5
High Range	10	NA ^[1]	NA	10310	1491
	15	NA ^[1]	NA	10285	1488.5
	20	NA ^[1]	NA	10260	1486

NOTE 1: Restricted to E-UTRA operation when carrier aggregation is configured. The downlink operating band is paired with the uplink operating band (external) of the carrier aggregation configuration that is supporting the configured Pcell.

4.3.1.2 TDD Mode Test frequencies

4.3.1.2.1 TDD reference test frequencies for Operating Band 33

Table 4.3.1.2.1-1: Test frequencies for E-UTRA channel bandwidth for operating band 33

Test Frequency ID	Bandwidth [MHz]	EARFCN	Frequency (UL and DL) [MHz]
	5	36025	1902.5
Low Range	10	36050	1905
Low Range	15	36075	1907.5
	20	36100	1910
Mid Range	5/10/15/20	36100	1910
	5	36175	1917.5
High Range	10	36150	1915
High Range	15	36125	1912.5
	20	36100	1910

4.3.1.2.2 TDD reference test frequencies for Operating Band 34

Table 4.3.1.2.2-1: Test frequencies for E-UTRA channel bandwidth for operating band 34

Test Frequency ID	Bandwidth [MHz]	EARFCN	Frequency (UL and DL) [MHz]
	5	36225	2012.5
Low Range	10	36250	2015
	15	36275	2017.5
Mid Range	5/10/15	36275	2017.5
	5	36325	2022.5
High Range	10	36300	2020
	15	36275	2017.5

4.3.1.2.3 TDD reference test frequencies for Operating Band 35

Table 4.3.1.2.3-1: Test frequencies for E-UTRA channel bandwidth for operating band 35

Test Frequency ID	Bandwidth	EARFCN	Frequency (UL and DL)
	[MHz]	[MHz]	[MHz]
	1.4	36357	1850.7
	3	36365	1851.5
Low Range	5	36375	1852.5
Low Kange	10	36400	1855
	15	36425	1857.5
	20	36450	1860
Mid Range	1.4/3/5/10/15/20	36650	1880
	1.4	36943	1909.3
	3	36935	1908.5
High Dongo	5	36925	1907.5
High Range	10	36900	1905
	15	36875	1902.5
	20	36850	1900

4.3.1.2.4 TDD reference test frequencies for Operating Band 36

Table 4.3.1.2.4-1: Test frequencies for E-UTRA channel bandwidth for operating band 36

Test Frequency ID	Bandwidth	EARFCN	Frequency (UL and DL)
	[MHz]	[MHz]	[MHz]
	1.4	36957	1930.7
	3	36965	1931.5
Low Range	5	36975	1932.5
Low Range	10	37000	1935
	15	37025	1937.5
	20	37050	1940
Mid Range	1.4/3/5/10/15/20	37250	1960
	1.4	37543	1989.3
	3	37535	1988.5
High Range	5	37525	1987.5
r light Range	10	37500	1985
	15	37475	1982.5
	20	37450	1980

4.3.1.2.5 TDD reference test frequencies for Operating Band 37

Table 4.3.1.2.5-1: Test frequencies for E-UTRA channel bandwidth for operating band 37

Test Frequency ID	Bandwidth [MHz]	EARFCN [MHz]	Frequency (UL and DL) [MHz]
	5	37575	1912.5
Law Banga	10	37600	1915
Low Range	15	37625	1917.5
	20	37650	1920
Mid Range	5/10/15/20	37650	1920
	5	37725	1927.5
High Dongo	10	37700	1925
High Range	15	37675	1922.5
	20	37650	1920

4.3.1.2.6 TDD reference test frequencies for Operating Band 38

Table 4.3.1.2.6-1: Test frequencies for E-UTRA channel bandwidth for operating band 38

Test Frequency ID	Bandwidth [MHz]	EARFCN	Frequency (UL and DL) [MHz]
	5	37775	2572.5
Low Range	10	37800	2575
Low Range	15	37825	2577.5
	20	37850	2580
Mid Range	5/10/15/20	38000	2595
	5	38225	2617.5
High Dongs	10	38200	2615
High Range	15	38175	2612.5
	20	38150	2610

4.3.1.2.6A TDD reference test frequencies for CA in operating band 38

Table 4.3.1.2.6A-1: Test frequencies for CA_38C

Range	CC- Combo / N _{RB_agg} [RB]		CC1 Note1			CC2 Note1	
		BW [RB]	N _{UL/DL}	f _{UL/DL} [MHz]	BW [RB]	N _{UL/DL}	f _{UL/DL} [MHz]
Low	75+75	75	37825	2577.5	75	37975	2592.5
	100+100	100	37850	2580	100	38048	2599.8
Mid	75+75	75	37925	2587.5	75	38075	2602.5
	100+100	100	37901	2585.1	100	38099	2604.9
High	75+75	75	38025	2597.5	75	38175	2612.5
	100+100	100	37952	2590.2	100	38150	2610
Note 1:	Carriers in i	ncreasing fi	equency or	der.			

4.3.1.2.7 TDD reference test frequencies for Operating Band 39

Table 4.3.1.2.7-1: Test frequencies for E-UTRA channel bandwidth for operating band 39

Test Frequency ID	Bandwidth [MHz]	EARFCN	Frequency (UL and DL) [MHz]
	5	38275	1882.5
Law Danas	10	38300	1885
Low Range	15	38325	1887.5
	20	38350	1890
Mid Range	5/10/15/20	38450	1900
	5	38625	1917.5
High Dongs	10	38600	1915
High Range	15	38575	1912.5
	20	38550	1910

4.3.1.2.7A TDD reference test frequencies for CA in Operating Band 39

Table 4.3.1.2.7A-1: Test frequencies for CA_39C

Range	CC- Combo / N _{RB_agg} [RB]		CC1 Note1			CC2 Note1	
		BW [RB]	N _{UL/DL}	f _{UL/DL} [MHz]	BW [RB]	N _{UL/DL}	f _{UL/DL} [MHz]
Low	25+100	25	38283	1883.3	100	38400	1895.0
		100	38350	1890	25	38467	1901.7
	50+100	50	38305	1885.5	100	38449	1899.9
		100	38350	1890	50	38494	1904.4
	75+100	75	38328	1887.8	100	38499	1904.9
		100	38350	1890	75	38521	1907.1
Mid	25+100	25	38358	1890.8	100	38475	1902.5
		100	38425	1897.5	25	38542	1909.2
	50+100	50	38356	1890.6	100	38500	1905.0
		100	38401	1895.1	50	38545	1909.5
	75+100	75	38353	1890.3	100	38524	1907.4
		100	38376	1892.6	75	38547	1909.7
High	25+100	25	38433	1898.3	100	38550	1910
		100	38500	1905.0	25	38617	1916.7
	50+100	50	38406	1895.6	100	38550	1910
		100	38451	1900.1	50	38595	1914.5
	75+100	75	38379	1892.9	100	38550	1910
		100	38401	1895.1	75	38572	1912.2
Note 1:	Carriers in ir	ncreasing fr	equency order.				

4.3.1.2.8 TDD reference test frequencies for Operating Band 40

Table 4.3.1.2.8-1: Test frequencies for E-UTRA channel bandwidth for operating band 40

Test Frequency ID	Bandwidth [MHz]	EARFCN	Frequency (UL and DL) [MHz]
Low Range	5	38675	2302.5
	10	38700	2305
	15	38725	2307.5
	20	38750	2310
Mid Range	5/10/15/20	39150	2350
High Range	5	39625	2397.5
	10	39600	2395
	15	39575	2392.5
	20	39550	2390

4.3.1.2.8A TDD reference test frequencies for CA in operating band 40

Table 4.3.1.2.8A-1: Test frequencies for CA_40C

Range	CC- Combo / NRB_agg [RB]		CC1 Note1			CC2 Note1	
		BW [RB]	N _{UL/DL}	f _{UL/DL} [MHz]	BW [RB]	N _{UL/DL}	f _{UL/DL} [MHz]
Low	50+100	50	38705	2305.5	100	38849	2319.9
		100	38750	2310	50	38894	2324.4
	75+75	75	38725	2307.5	75	38875	2322.5
	75+100	75	38728	2307.8	100	38899	2324.9
		100	38750	2310	75	38921	2327.1
	100+100	100	38750	2310	100	38948	2329.8
Mid	50+100	50	39056	2340.6	100	39200	2355.0
		100	39101	2345.1	50	39245	2359.5
	75+75	75	39075	2342.5	75	39225	2357.5
	75+100	75	39053	2340.3	100	39224	2357.4
		100	39076	2342.6	75	39247	2359.7
	100+100	100	39051	2340.1	100	39249	2359.9
High	50+100	50	39406	2375.6	100	39550	2390
		100	39451	2380.1	50	39595	2394.5
	75+75	75	39425	2377.5	75	39575	2392.5
	75+100	75	39379	2372.9	100	39550	2390
		100	39401	2375.1	75	39572	2392.2
	100+100	100	39352	2370.2	100	39550	2390
Note 1:	Carriers in in	ncreasing fr	equency order.				

Table 4.3.1.2.8A-2: Test frequencies for CA_40D

			CC1			CC2			CC3	
Range	CC-Combo /	DW	Note1		DVA	Note1		Note1		
	N _{RB_agg}	BW		f _{UL/DL}	BW		f _{UL/DL}	BW		f _{UL/DL}
	[RB]	[RB]	N _{UL/DL}	[MHz]	[RB]	N _{UL/DL}	[MHz]	[RB]	N _{UL/DL}	[MHz]
Low	50+100+100	50	38705	2305.5	100	38849	2319.9	100	39047	2339.7
		100	38750	2310	50	38894	2324.4	100	39038	2338.8
		100	38750	2310	100	38948	2329.8	50	39092	2344.2
	75+100+100	75	38728	2307.8	100	38899	2324.9	100	39097	2344.7
		100	38750	2310	75	38921	2327.1	100	39092	2344.2
		100	38750	2310	100	38948	2329.8	75	39119	2346.9
	100+100+100	100	38750	2310	100	38948	2329.8	100	39146	2349.6
Mid	50+100+100	50	38957	2330.7	100	39101	2345.1	100	39299	2364.9
		100	39006	2335.6	50	39150	2350	100	39294	2364.4
		100	39002	2335.2	100	39200	2355	50	39344	2369.4
	75+100+100	75	38954	2330.4	100	39125	2347.5	100	39323	2367.3
		100	38979	2332.9	75	39150	2350	100	39321	2367.1
		100	38977	2332.7	100	39175	2352.5	75	39346	2369.6
	100+100+100	100	38952	2330.2	100	39150	2350	100	39348	2369.8
High	50+100+100	50	39208	2355.8	100	39352	2370.2	100	39550	2390
		100	39262	2361.2	50	39406	2375.6	100	39550	2390
		100	39253	2360.3	100	39451	2380.1	50	39595	2394.5
	75+100+100	75	39181	2353.1	100	39352	2370.2	100	39550	2390
		100	39208	2355.8	75	39379	2372.9	100	39550	2390
		100	39203	2355.3	100	39401	2375.1	75	39572	2392.2
	100+100+100	100	39154	2350.4	100	39352	2370.2	100	39550	2390
Note 1:	Carriers in inc	reasing	frequenc	y order.					-	-

4.3.1.2.9 TDD reference test frequencies for Operating Band 41

Table 4.3.1.2.9-1: Test frequencies for E-UTRA channel bandwidth for operating band 41

Test Frequency ID	Bandwidth [MHz]	EARFCN	Frequency (UL and DL) [MHz]
Low Range	5	39675	2498.5
	10	39700	2501
	15	39725	2503.5
	20	39750	2506
Mid Range	5/10/15/20	40620	2593
High Range	5	41565	2687.5
	10	41540	2685
	15	41515	2682.5
	20	41490	2680

4.3.1.2.9A TDD reference test frequencies for CA in operating band 41

Table 4.3.1.2.9A-1: Test frequencies for CA_41C

Range	CC- Combo / N _{RB_agg} [RB]		CC1 Note1			CC2 Note1	
		BW [RB]	N UL/DL	f _{UL/DL} [MHz]	BW [RB]	N _{UL/DL}	f _{UL/DL} [MHz]
Low	25+100	25	39683	2499.3	100	39800	2511
		100	39750	2506	25	39867	2517.7
	50+100	50	39705	2501.5	100	39849	2515.9
		100	39750	2506	50	39894	2520.4
	75+75	75	39725	2503.5	75	39875	2518.5
	75+100	75	39728	2503.8	100	39899	2520.9
		100	39750	2506	75	39921	2523.1
	100+100	100	39750	2506	100	39948	2525.8
Mid	25+100	25	40528	2583.8	100	40645	2595.5
		100	40595	2590.5	25	40712	2602.2
	50+100	50	40526	2583.6	100	40670	2598.0
		100	40571	2588.1	50	40715	2602.5
	75+75	75	40545	2585.5	75	40695	2600.5
	75+100	75	40523	2583.3	100	40694	2600.4
		100	40546	2585.6	75	40717	2602.7
	100+100	100	40521	2583.1	100	40719	2602.9
High	25+100	25	41373	2668.3	100	41490	2680
		100	41440	2675	25	41557	2686.7
	50+100	50	41346	2665.6	100	41490	2680
		100	41391	2670.1	50	41535	2684.5
	75+75	75	41365	2667.5	75	41515	2682.5
	75+100	75	41319	2662.9	100	41490	2680
		100	41341	2665.1	75	41512	2682.2
	100+100	100	41292	2660.2	100	41490	2680
Note 1:	Carriers in ir	ncreasing fr	equency order.				

Table 4.3.1.2.9A-2: Test frequencies for CA_41A-41A

	CC- Combo /							
Range	N _{RB_agg} [RB]		CC1 Note1		Wgap [MHz]		CC2 Note1	
		BW [RB]	N _{UL/DL}	f _{UL/DL} [MHz]		BW [RB]	N _{UL/DL}	f _{UL/DL} [MHz]
N/A	25+25	25	39675	2498.5	184	25	41565	2687.5
	25+50	25	39675	2498.5	179	50	41540	2685
		50	39700	2501	179	25	41565	2687.5
	25+75	25	39675	2498.5	174	75	41515	2682.5
		75	39725	2503.5	174	25	41565	2687.5
	50+50	50	39700	2501	174	50	41540	2685
	25+100	25	39675	2498.5	169	100	41490	2680
		100	39750	2506	169	25	41565	2687.5
	50+75	50	39700	2501	169	75	41515	2682.5
		75	39725	2503.5	169	50	41540	2685
	50+100	50	39700	2501	164	100	41490	2680
		100	39750	2506	164	50	41540	2685
	75+75	75	39725	2503.5	164	75	41515	2682.5
	75+100	75	39725	2503.5	159	100	41490	2680
		100	39750	2506	159	75	41515	2682.5
	100+100	100	39750	2506	154	100	41490	2680
Note 1:	Carriers in	n increasi	ng frequer	ncy order.				

Table 4.3.1.2.9A-3: Test frequencies for CA_41D

Range	CC-Combo /		CC1 Note1			CC2 Note1			CC3 Note1	
ivalige	N _{RB_agg}	BW	140161	f _{UL/DL}	BW	Note	f _{UL/DL}	BW	Note	f _{UL/DL}
	[RB]	[RB]	N _{UL/DL}	[MHz]	[RB]	N _{UL/DL}	[MHz]	[RB]	N _{UL/DL}	[MHz]
Low	50+75+100	50	39705	2501.5	75	39825	2513.5	100	39996	2530.6
		50	39705	2501.5	100	39849	2515.9	75	40020	2533
		75	39728	2503.8	50	39848	2515.8	100	39992	2530.2
		75	39728	2503.8	100	39899	2520.9	50	40043	2535.3
		100	39750	2506	50	39894	2520.4	75	40014	2532.4
		100	39750	2506	75	39921	2523.1	50	40041	2535.1
	50+100+100	50	39705	2501.5	100	39849	2515.9	100	40047	2535.7
		100	39750	2506	50	39894	2520.4	100	40038	2534.8
		100	39750	2506	100	39948	2525.8	50	40092	2540.2
	75+75+100	75	39728	2503.8	75	39878	2518.8	100	40049	2535.9
		75	39728	2503.8	100	39899	2520.9	75	40070	2538
		100	39750	2506	75	39921	2523.1	75	40071	2538.1
	75+100+100	75	39728	2503.8	100	39899	2520.9	100	40097	2540.7
		100	39750	2506	75	39921	2523.1	100	40092	2540.2
		100	39750	2506	100	39948	2525.8	75	40119	2542.9
	100+100+100	100	39750	2506	100	39948	2525.8	100	40146	2545.6
Mid	50+75+100	50	40452	2576.2	75	40572	2588.2	100	40743	2605.3
		50	40451	2576.1	100	40595	2590.5	75	40766	2607.6
		75	40477	2578.7	50	40597	2590.7	100	40741	2605.1
		75	40474	2578.4	100	40645	2595.5	50	40789	2609.9
		100	40499	2580.9	50	40643	2595.3	75	40763	2607.3
		100	40497	2580.7	75	40668	2597.8	50	40788	2609.8
	50+100+100	50	40427	2573.7	100	40571	2588.1	100	40769	2607.9
		100	40476	2578.6	50	40620	2593	100	40764	2607.4
		100	40472	2578.2	100	40670	2598	50	40814	2612.4
	75+75+100	75	40448	2575.8	75	40598	2590.8	100	40769	2607.9
		75	40449	2575.9	100	40620	2593	75	40791	2610.1
		100	40471	2578.1	75	40642	2595.2	75	40792	2610.2
	75+100+100	75	40424	2573.4	100	40595	2590.5	100	40793	2610.3
		100	40449	2575.9	75	40620	2593	100	40791	2610.1
		100	40447	2575.7	100	40645	2595.5	75	40816	2612.6
	100+100+100	100	40422	2573.2	100	40620	2593	100	40818	2612.8
High	50+75+100	50	41199	2650.9	75	41319	2662.9	100	41490	2680
		50	41197	2650.7	100	41341	2665.1	75	41512	2682.2
		75	41226	2653.6	50	41346	2665.6	100	41490	2680
		75	41220	2653	100	41391	2670.1	50	41535	2684.5
		100	41248	2655.8	50	41392	2670.2	75	41512	2682.2
		100	41244	2655.4	75	41415	2672.5	50	41535	2684.5
	50+100+100	50	41148	2645.8	100	41292	2660.2	100	41490	2680
		100	41202	2651.2	50	41346	2665.6	100	41490	2680
	75 75 122	100	41193	2650.3	100	41391	2670.1	50	41535	2684.5
	75+75+100	75	41169	2647.9	75	41319	2662.9	100	41490	2680
		75	41170	2648	100	41341	2665.1	75	41512	2682.2
		100	41191	2650.1	75	41362	2667.2	75	41512	2682.2
	75+100+100	75	41121	2643.1	100	41292	2660.2	100	41490	2680
		100	41148	2645.8	75	41319	2662.9	100	41490	2680
	100 100 100	100	41143	2645.3	100	41341	2665.1	75	41512	2682.2
	100+100+100	100	41094	2640.4	100	41292	2660.2	100	41490	2680
Note 1:	Carriers in inc	reasing	frequenc	y order.						

Table 4.3.1.2.9A-4: Test frequencies for CA_41C-41A

Range	CC-Combo /		CC1 Note1			CC2 Note1		Wgap [MHz]		CC3 Note1	
	N _{RB_agg} [RB]	BW [RB]	N _{UL/DL}	f _{UL/DL} [MHz]	BW [RB	N _{UL/DL}	f _{UL/DL} [MHz]		BW [RB]	N _{UL/DL}	f _{UL/DL} [MHz]
N/A	25+25+100	25	39683	2499.3	100	39800	2511	164	25	41565	2687.5
		100	39750	2506	25	39867	2517.7	164.05	25	41565	2687.5
	25+50+100	25	39683	2499.3	100	39800	2511	159	50	41540	2685
		50	39705	2501.5	100	39849	2515.9	159.1	25	41565	2687.5
		100	39750	2506	25	39867	2517.7	159.05	50	41540	2685
		100	39750	2506	50	39894	2520.4	159.1	25	41565	2687.5
	25+75+75	75	39725	2503.5	75	39875	2518.5	159	25	41565	2687.5
	25+75+100	25	39683	2499.3	100	39800	2511	154	75	41515	2682.5
		75	39728	2503.8	100	39899	2520.9	154.1	25	41565	2687.5
		100	39750	2506	25	39867	2517.7	154.05	75	41515	2682.5
		100	39750	2506	75	39921	2523.1	154.15	25	41565	2687.5
	50+50+100	50	39705	2501.5	100	39849	2515.9	154.1	50	41540	2685
		100	39750	2506	50	39894	2520.4	154.1	50	41540	2685
	50+75+75	75	39725	2503.5	75	39875	2518.5	154	50	41540	2685
	25+100+100	25	39683	2499.3	100	39800	2511	149	100	41490	2680
		100	39750	2506	25	39867	2517.7	149.05	100	41490	2680
		100	39750	2506	100	39948	2525.8	149.2	25	41565	2687.5
	50+75+100	50	39705	2501.5	100	39849	2515.9	149.1	75	41515	2682.5
		75	39728	2503.8	100	39899	2520.9	149.1	50	41540	2685
		100	39750	2506	50	39894	2520.4	149.1	75	41515	2682.5
		100	39750	2506	75	39921	2523.1	149.15	50	41540	2685
	75+75+75	75	39725	2503.5	75	39875	2518.5	149	75	41515	2682.5
	50+100+100	50	39705	2501.5	100	39849	2515.9	144.1	100	41490	2680
		100	39750	2506	50	39894	2520.4	144.1	100	41490	2680
L		100	39750	2506	100	39948	2525.8	144.2	50	41540	2685
	75+75+100	75	39725	2503.5	75	39875	2518.5	144	100	41490	2680
		75	39728	2503.8	100	39899	2520.9	144.1	75	41515	2682.5
		100	39750	2506	75	39921	2523.1	144.15	75	41515	2682.5
Ī	75+100+100	75	39728	2503.8	100	39899	2520.9	139.1	100	41490	2680
		100	39750	2506	75	39921	2523.1	139.15	100	41490	2680
		100	39750	2506	100	39948	2525.8	139.2	75	41515	2682.5
	100+100+100	100	39750	2506	100	39948	2525.8	134.2	100	41490	2680
Note 1:	Carriers in increasing fr	requency or	rder.								

Table 4.3.1.2.9A-5: Test frequencies for CA_41A-41C

Range	CC-Combo /		CC1 Note1		Wgap [MHz]		CC2 Note1			CC3 Note1	
Range	N _{RB_agg}	BW	110101	f _{UL/DL}	[2]	BW	Hoter	f _{UL/DL}	BW	110101	f _{UL/DL}
	[RB]	[RB]	N _{UL/DL}	[MHz]		[RB	N _{UL/DL}	[MHz]	[RB]	N _{UL/DL}	[MHz]
N/A	25+25+100	25	39675	2498.5	164.05	25	41373	2668.3	100	41490	2680
		25	39675	2498.5	164	100	41440	2675	25	41557	2686.7
	25+50+100	25	39675	2498.5	159.1	50	41346	2665.6	100	41490	2680
		25	39675	2498.5	159.1	100	41391	2670.1	50	41535	2684.5
		50	39700	2501	159.05	25	41373	2668.3	100	41490	2680
		50	39700	2501	159	100	41440	2675	25	41557	2686.7
	25+75+75	25	39675	2498.5	159	75	41365	2667.5	75	41515	2682.5
	25+75+100	25	39675	2498.5	154.15	75	41319	2662.9	100	41490	2680
		25	39675	2498.5	154.1	100	41341	2665.1	75	41512	2682.2
		75	39725	2503.5	154.05	25	41373	2668.3	100	41490	2680
		75	39725	2503.5	154	100	41440	2675	25	41557	2686.7
	50+50+100	50	39700	2501	154.1	50	41346	2665.6	100	41490	2680
		50	39700	2501	154.1	100	41391	2670.1	50	41535	2684.5
	25+100+100	25	39675	2498.5	149.2	100	41292	2660.2	100	41490	2680
		100	39750	2506	149.05	25	41373	2668.3	100	41490	2680
		100	39750	2506	149	100	41440	2675	25	41557	2686.7
	50+75+75	50	39700	2501	154	75	41365	2667.5	75	41515	2682.5
	50+75+100	50	39700	2501	149.15	75	41319	2662.9	100	41490	2680
		50	39700	2501	149.1	100	41341	2665.1	75	41512	2682.2
		75	39725	2503.5	149.1	50	41346	2665.6	100	41490	2680
		75	39725	2503.5	149.1	100	41391	2670.1	50	41535	2684.5
	75+75+75	75	39725	2503.5	149	75	41365	2667.5	75	41515	2682.5
	50+100+100	50	39700	2501	144.2	100	41292	2660.2	100	41490	2680
		100	39750	2506	144.1	50	41346	2665.6	100	41490	2680
		100	39750	2506	144.1	100	41391	2670.1	50	41535	2684.5
	75+75+100	75	39725	2503.5	144.15	75	41319	2662.9	100	41490	2680
		75	39725	2503.5	144.1	100	41341	2665.1	75	41512	2682.2
		100	39750	2506	144	75	41365	2667.5	75	41515	2682.5
	75+100+100	75	39725	2503.5	139.2	100	41292	2660.2	100	41490	2680
		100	39750	2506	139.15	75	41319	2662.9	100	41490	2680
		100	39750	2506	139.1	100	41341	2665.1	75	41512	2682.2
	100+100+100	100	39750	2506	134.2	100	41292	2660.2	100	41490	2680
Note 1:	Carriers in inci	reasing	frequency	y order.							

4.3.1.2.10 TDD reference test frequencies for Operating Band 42

Table 4.3.1.2.10-1: Test frequencies for E-UTRA channel bandwidth for operating band 42

Test Frequency ID	Bandwidth [MHz]	EARFCN	Frequency (UL and DL) [MHz]
Low Range	5	41615	3402.5
	10	41640	3405
	15	41665	3407.5
	20	41690	3410
Mid Range	5/10/15/20	42590	3500
High Range	5	43565	3597.5
	10	43540	3595
	15	43515	3592.5
	20	43490	3590

$4.3.1.2.10 \mbox{ATDD}$ reference test frequencies for CA in operating band 42

Table 4.3.1.2.10A-1: Test frequencies for CA_42C

	CC-Combo / NRB_agg		CC1			CC2	
Range	[RB]		Note1			Note1	
		BW [RB]	N _{UL/DL}	f _{UL/DL} [MHz]	BW [RB]	N _{UL/DL}	f _{UL/DL} [MHz]
Low	25+100	25	41623	3403.3	100	41740	3415
		100	41690	3410	25	41807	3421.7
	50+100	50	41645	3405.5	100	41789	3419.9
		100	41690	3410	50	41834	3424.4
	75+100	75	41668	3407.8	100	41839	3424.9
		100	41690	3410	75	41861	3427.1
	100+100	100	41690	3410	100	41888	3429.8
Mid	25+100	25	42498	3490.8	100	42615	3502.5
		100	42565	3497.5	25	42682	3509.2
	50+100	50	42496	3490.6	100	42640	3505
		100	42541	3495.1	50	42685	3509.5
	75+100	75	42493	3490.3	100	42664	3507.4
		100	42516	3492.6	75	42687	3509.7
	100+100	100	42491	3490.1	100	42689	3509.9
High	25+100	25	43373	3578.3	100	43490	3590
		100	43440	3585	25	43557	3596.7
	50+100	50	43346	3575.6	100	43490	3590
		100	43391	3580.1	50	43535	3594.5
	75+100	75	43319	3572.9	100	43490	3590
		100	43341	3575.1	75	43512	3592.2
	100+100	100	43292	3570.2	100	43490	3590
Note 1:	Carriers in incr	easing freq	uency order				

Table 4.3.1.2.10A-2: Test frequencies for CA_42A-42A

	CC- Combo /							
Range	N _{RB_agg} [RB]		CC1 Note1		Wgap [MHz]		CC2 Note1	
		BW [RB]	N _{UL/DL}	f _{UL/DL} [MHz]		BW [RB]	N _{UL/DL}	f _{UL/DL} [MHz]
N/A	25+25	25	41615	3402.5	190	25	43565	3597.5
	25+50	25	41615	3402.5	185	50	43540	3595
		50	41640	3405	185	25	43565	3597.5
	25+75	25	41615	3402.5	180	75	43515	3592.5
		75	41665	3407.5	180	25	43565	3597.5
	50+50	50	41640	3405	180	50	43540	3595
	25+100	25	41615	3402.5	175	100	43490	3590
		100	41690	3410	175	25	43565	3597.5
	50+75	50	41640	3405	175	75	43515	3592.5
		75	41665	3407.5	175	50	43540	3595
	50+100	50	41640	3405	170	100	43490	3590
		100	41690	3410	170	50	43540	3595
	75+100	75	41665	3407.5	165	100	43490	3590
		100	41690	3410	165	75	43515	3592.5
	100+100	100	41690	3410	160	100	43490	3590
Note 1:	Carriers i	n increasi	ng frequer	ncy order.		•		•

4.3.1.2.11 TDD reference test frequencies for Operating Band 43

Table 4.3.1.2.11-1: Test frequencies for E-UTRA channel bandwidth for operating band 43

Test Frequency ID	Bandwidth [MHz]	EARFCN	Frequency (UL and DL) [MHz]
Low Range	5	43615	3602.5
	10	43640	3605
	15	43665	3607.5
	20	43690	3610
Mid Range	5/10/15/20	44590	3700
High Range	5	45565	3797.5
	10	45540	3795
	15	45515	3792.5
	20	45490	3790

4.3.1.2.12 TDD reference test frequencies for Operating Band 44

Table 4.3.1.2.12-1: Test frequencies for E-UTRA channel bandwidth for operating band 44

Test Frequency ID	Bandwidth [MHz]	EARFCN	Frequency (UL and DL) [MHz]
Low Range	3	45605	704.5
	5	45615	705.5
	10	45640	708
	15	45665	710.5
	20	45690	713
Mid Range	3/5/10/15/20	46090	753
High Range	3	46575	801.5
	5	46565	800.5
	10	46540	798
	15	46515	795.5
	20	46490	793

4.3.1.3 HRPD Test frequencies

4.3.1.3.1 HRPD test frequencies for Band Class 0

Table 4.3.1.3.1-1: Test frequencies for HRPD in Band Class 0

Test Frequency ID	Bandwidth [MHz]	Channel Number	Frequency of Uplink [MHz]	Frequency of Downlink [MHz]
Low Range	1.23	1013	824.70	869.70
Mid Range	1.23	356	835.68	880.68
High Range	1.23	779	848.37	893.37

4.3.1.3.2 HRPD test frequencies for Band Class 1

Table 4.3.1.3.2-1: Test frequencies for HRPD in Band Class 1

Test Frequency ID	Bandwidth [MHz]	Channel Number	Frequency of Uplink [MHz]	Frequency of Downlink [MHz]
Low Range	1.25	25	1851.25	1931.25
Mid Range	1.25	600	1880.00	1960.00
High Range	1.25	1175	1908.75	1988.75

4.3.1.3.3 HRPD test frequencies for Band Class 3

Table 4.3.1.3.3-1: Test frequencies for HRPD in Band Class 3

Test Frequency ID	Bandwidth [MHz]	Channel Number	Frequency of Uplink [MHz]	Frequency of Downlink [MHz]
Low Range	1.25	1120	888.00	833.00
Mid Range	1.25	872	898.90	843.90
High Range	1.25	76	915.95	860.95

4.3.1.3.4 HRPD test frequencies for Band Class 4

Table 4.3.1.3.4-1: Test frequencies for HRPD in Band Class 4

Test Frequency ID	Bandwidth [MHz]	Channel Number	Frequency of Uplink [MHz]	Frequency of Downlink [MHz]
Low Range	1.25	100	1755.00	1845.00
Mid Range	1.25	300	1765.00	1855.00
High Range	1.25	525	1776.25	1866.25

4.3.1.3.5 HRPD test frequencies for Band Class 6

Table 4.3.1.3.5-1: Test frequencies for HRPD in Band Class 6

Test Frequency ID	Bandwidth [MHz]	Channel Number	Frequency of Uplink [MHz]	Frequency of Downlink [MHz]	
Low Range	1.25	125	1926.25	2116.25	
Mid Range	1.25	200	1930.00	2120.00	
High Range	1.25	350	1937.50	2127.50	

4.3.1.3.6 HRPD test frequencies for Band Class 10

Table 4.3.1.3.6-1: Test frequencies for HRPD in Band Class 10

Test Frequency ID	Bandwidth [MHz]	Channel Frequency of Number Uplink [MHz]		Frequency of Downlink [MHz]	
Low Range	1.25	100	808.50	853.50	
Mid Range	1.25	500	821.00	866.00	
High Range	1.25	820	898.50	937.50	

4.3.1.3.7 HRPD test frequencies for Band Class 15

Table 4.3.1.3.7-1: Test frequencies for HRPD in Band Class 15

Test Frequency ID	Bandwidth [MHz]	Channel Number	Frequency of Uplink [MHz]	Frequency of Downlink [MHz]
Low Range	1.25	75	1713.75	2113.75
Mid Range	1.25	450	1732.50	2132.50
High Range	1.25	800	1750.00	2150.00

4.3.1.4 1xRTT Test frequencies

4.3.1.4.1 1xRTT test frequencies for Band Class 0

Table 4.3.1.4.1-1: Test frequencies for 1xRTT in Band Class 0

Test Frequency ID	Bandwidth [MHz]	Channel Number	Frequency of Uplink [MHz]	Frequency of Downlink [MHz]	
Low Range	1.23	1013	824.70	869.70	
Mid Range	1.23	356	835.68	880.68	
High Range	1.23	779	848.37	893.37	

4.3.1.4.2 1xRTT test frequencies for Band Class 1

Table 4.3.1.4.2-1: Test frequencies for 1xRTT in Band Class 1

Test Frequency ID	Bandwidth [MHz]	Channel Frequency of Number Uplink [MHz]		Frequency of Downlink [MHz]	
Low Range	1.25	25	1851.25	1931.25	
Mid Range	1.25	600	1880.00	1960.00	
High Range	1.25	1175	1908.75	1988.75	

4.3.1.4.3 1xRTT test frequencies for Band Class 3

Table 4.3.1.4.3-1: Test frequencies for 1xRTT in Band Class 3

Test Frequency ID	Bandwidth [MHz]	Channel Number	Frequency of Uplink [MHz]	Frequency of Downlink [MHz]	
Low Range	1.25	1120	888.00	833.00	
Mid Range	1.25	872	898.90	843.90	
High Range	1.25	76	915.95	860.95	

4.3.1.4.4 1xRTT test frequencies for Band Class 4

Table 4.3.1.4.4-1: Test frequencies for 1xRTT in Band Class 4

Test Frequency ID	Bandwidth [MHz]	Channel Number	Frequency of Uplink [MHz]	Frequency of Downlink [MHz]	
Low Range	1.25	100	1755.00	1845.00	
Mid Range	1.25	300	1765.00	1855.00	
High Range	1.25	525	1776.25	1866.25	

4.3.1.4.5 1xRTT test frequencies for Band Class 6

Table 4.3.1.4.5-1: Test frequencies for 1xRTT in Band Class 6

Test Frequency ID	Bandwidth [MHz]	Channel Number	Frequency of Uplink [MHz]	Frequency of Downlink [MHz]	
Low Range	1.25	225	1931.25	2121.25	
Mid Range	1.25	275	1933.75	2123.75	
High Range	1.25	375	1938.75	2128.75	

4.3.1.4.6 1xRTT test frequencies for Band Class 10

Table 4.3.1.4.6-1: Test frequencies for 1xRTT in Band Class 10

Test Frequency ID	Bandwidth [MHz]	Channel Frequency of Number Uplink [MHz]		Frequency of Downlink [MHz]	
Low Range	1.25	100	808.50	853.50	
Mid Range	1.25	500	821.00	866.00	
High Range	1.25	820	898.50	937.50	

4.3.1.4.7 1xRTT test frequencies for Band Class 15

Table 4.3.1.4.7-1: Test frequencies for 1xRTT in Band Class 15

Test Frequency ID	Bandwidth [MHz]	Channel Number	Frequency of Uplink [MHz]	Frequency of Downlink [MHz]	
Low Range	1.25	75	1713.75	2113.75	
Mid Range	1.25	450	1732.50	2132.50	
High Range	1.25	800	1750.00	2150.00	

4.3.1.5 MFBI Test frequencies

Editor's Note: MFBI test frequencies are not used for TS 36.521-1, TS 36.521-3 and TS 37.571-1.

4.3.1.5.1 MFBI Test frequencies for operation band 2 overlapping with band 25

- same as per Table 4.3.1.1.2-1

4.3.1.5.2 MFBI Test frequencies for operation band 3 overlapping with band 9

Table 4.3.1.5.2-1: Test frequencies for E-UTRA channel bandwidth for operating band 3 overlapping with band 9

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	1.4	19606	1750.6	1606	1845.6
	3	19614	1751.4	1614	1846.4
Low Dongs	5	19624	1752.4	1624	1847.4
Low Range	10	19649	1754.9	1649	1849.9
	15 ^[1]	19674	1757.4	1674	1852.4
	20 ^[1]	19699	1759.9	1699	1854.9
Mid Range	1.4/3/5/10 15 ^[1] /20 ^[1]	19774	1767.4	1774	1862.4
	1.4	19942	1784.2	1942	1879.2
	3	19934	1783.4	1934	1878.4
	5	19924	1782.4	1924	1877.4
High Range	10	19899	1779.9	1899	1874.9
	15 ^[1]	19874	1777.4	1874	1872.4
NOTE 4 B 1 1 1	20 [1]	19849	1774.9	1849	1869.9

NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.

4.3.1.5.3 MFBI Test frequencies for operation band 4 overlapping with band 10

- same as per Table 4.3.1.1.4-1

4.3.1.5.4 MFBI Test frequencies for operation band 5 overlapping with band 18

Table 4.3.1.5.4-1: Test frequencies for E-UTRA channel bandwidth for operating band 5 overlapping with band 18

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	1.4	20407	824.7	2407	869.7
Low Range	3	20415	825.5	2415	870.5
	5	20425	826.5	2425	871.5
Mid Range	1.4/3/5	20430	827	2430	872
	1.4	20453	829.3	2453	874.3
High Range	3	20445	828.5	2445	873.5
	5	20435	827.5	2435	872.5

4.3.1.5.5 MFBI Test frequencies for operation band 5 overlapping with band 19

Table 4.3.1.5.5-1: Test frequencies for E-UTRA channel bandwidth for operating band 5 overlapping with band 19

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	1.4	20467	830.7	2467	875.7
Low Bongo	3	20475	831.5	2475	876.5
Low Range	5	20485	832.5	2485	877.5
	10 ^[1]	20510	835	2510	880
Mid Range	1.4/3/5 10 ^[1]	20535	837.5	2535	882.5
	1.4	20603	844.3	2603	889.3
High Dongs	3	20595	843.5	2595	888.5
High Range	5	20585	842.5	2585	887.5
	10 ^[1]	20560	840	2560	885

NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.

- 4.3.1.5.6 MFBI Test frequencies for operation band 5 overlapping with band 26
 - same as per Table 4.3.1.1.5-1
- 4.3.1.5.7 MFBI Test frequencies for operation band 9 overlapping with band 3
 - same as per Table 4.3.1.1.9-1
- 4.3.1.5.8 MFBI Test frequencies for operation band 10 overlapping with band 4

Table 4.3.1.5.8-1: Test frequencies for E-UTRA channel bandwidth for operating band 10 overlapping with band 4

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	5	22175	1712.5	4175	2112.5
Low Pongo	10	22200	1715	4200	2115
Low Range	15	22225	1717.5	4225	2117.5
	20	22250	1720	4250	2120
Mid Range	5/10/15/20	22375	1732.5	4375	2132.5
	5	22575	1752.5	4575	2152.5
High Dongo	10	22550	1750	4550	2150
High Range	15	22525	1747.5	4525	2147.5
	20	22500	1745	4500	2145

4.3.1.5.9 MFBI Test frequencies for operation band 12 overlapping with band 17

Table 4.3.1.5.9-1: Test frequencies for E-UTRA channel bandwidth for operating band 12 overlapping with band 17

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	1.4	23067	704.7	5067	734.7
Low Range	3	23075	705.5	5075	735.5
Low Kange	5 ^[1]	23085	706.5	5085	736.5
	10 ^[1]	23110	709	5110	739
Mid Range	1.4/3 5 ^[1] /10 ^[1]	23120	710	5120	740
	1.4	23173	715.3	5173	745.3
High Dange	3	23165	714.5	5165	744.5
High Range	5 ^[1]	23155	713.5	5155	743.5
	10 ^[1]	23130	711	5130	741

NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.

4.3.1.5.10 MFBI Test frequencies for operation band 17 overlapping with band 12

- same as per Table 4.3.1.1.17-1

4.3.1.5.11 MFBI Test frequencies for operation band 18 overlapping with band 5

Table 4.3.1.5.11-1: Test frequencies for E-UTRA channel bandwidth for operating band 18 overlapping with band 5

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	1.4	23947	824.7	5947	869.7
Low Range	3	23955	825.5	5955	870.5
	5	23965	826.5	5965	871.5
Mid Range	1.4/3/5	23970	827	5970	872
	1.4	23993	829.3	5993	874.3
High Range	3	23985	828.5	5985	873.5
	5	23975	827.5	5975	872.5

4.3.1.5.12 MFBI Test frequencies for operation band 18 overlapping with band 26

- same as per Table 4.3.1.1.18-1

4.3.1.5.13 MFBI Test frequencies for operation band 18 overlapping with band 27

Table 4.3.1.5.13-1: Test frequencies for E-UTRA channel bandwidth for operating band 18 overlapping with band 27

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	1.4	23857	815.7	5857	860.7
Low Range	3	23865	816.5	5865	861.5
	5	23875	817.5	5875	862.5
Mid Range	1.4/3/5	23895	819.5	5895	864.5
	1.4	23933	823.3	5933	868.3
High Range	3	23925	822.5	5925	867.5
	5	23915	821.5	5915	866.5

4.3.1.5.14 MFBI Test frequencies for operation band 19 overlapping with band 5

- same as per Table 4.3.1.1.19-1

4.3.1.5.15 MFBI Test frequencies for operation band 19 overlapping with band 26

- same as per Table 4.3.1.1.19-1

4.3.1.5.16 MFBI Test frequencies for operation band 25 overlapping with band 2

Table 4.3.1.5.16-1: Test frequencies for E-UTRA channel bandwidth for operating band 25 overlapping with band 2

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	1.4	26047	1850.7	8047	1930.7
Low Pongo	3	26055	1851.5	8055	1931.5
Low Range	5	26065	1852.5	8065	1932.5
	10	26090	1855	8090	1935

	15 ^[1]	26115	1857.5	8115	1937.5
	20 ^[1]	26140	1860	8140	1940
Mid Range	1.4/3/5/10 15 ^[1] /20 ^[1]	26340	1880	8340	1960
	1.4	26633	1909.3	8633	1989.3
	3	26625	1908.5	8625	1988.5
High Range	5	26615	1907.5	8615	1987.5
I light Kange	10	26590	1905	8590	1985
	15 ^[1]	26565	1902.5	8565	1982.5
	20 ^[1]	26540	1900	8540	1980

NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.

4.3.1.5.17 MFBI Test frequencies for operation band 26 overlapping with band 5

Table 4.3.1.5.17-1: Test frequencies for E-UTRA channel bandwidth for operating band 26 overlapping with band 5

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	1.4	26797	824.7	8797	869.7
	3	26805	825.5	8805	870.5
Low Range	5	26815	826.5	8815	871.5
	10 ^[1]	26840	829	8840	874
	15 ^[1]	26865	831.5	8865	876.5
Mid Range	1.4/3/5/10 ^[1] 15 ^[1]	26915	836.5	8915	881.5
	1.4	27033	848.3	9033	893.3
	3	27025	847.5	9025	892.5
High Range	5	27015	846.5	9015	891.5
	10 ^[1]	26990	844	8990	889
	15 ^[1]	26965	841.5	8965	886.5

NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.

4.3.1.5.18 MFBI Test frequencies for operation band 26 overlapping with band 18

Table 4.3.1.5.18-1: Test frequencies for E-UTRA channel bandwidth for operating band 26 overlapping with band 18

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	1.4	26707	815.7	8707	860.7
Low Pongo	3	26715	816.5	8715	861.5
Low Range	5	26725	817.5	8725	862.5
	10 ^[1]	26750	820	8750	865
Mid Range	1.4/3/5/10 ^[1]	26775	822.5	8775	867.5
	1.4	26843	829.3	8843	874.3
High Dongo	3	26835	828.5	8835	873.5
High Range	5	26825	827.5	8825	872.5
	10 ^[1]	26800	825	8800	870

NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.

4.3.1.5.19 MFBI Test frequencies for operation band 26 overlapping with band 19

Table 4.3.1.5.19-1: Test frequencies for E-UTRA channel bandwidth for operating band 26 overlapping with band 19

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	1.4	26857	830.7	8857	875.7
Low Pongo	3	26865	831.5	8865	876.5
Low Range	5	26875	832.5	8875	877.5
	10 ^[1]	26900	835	8900	880
Mid Range	1.4/3/5/10 ^[1] 15 ^[1]	26925	837.5	8925	882.5
	1.4	26993	844.3	8993	889.3
Ligh Dongo	3	26985	843.5	8985	888.5
High Range	5	26975	842.5	8975	887.5
	10 ^[1]	26950	840	8950	885
NOTE 1: Bandwidth	for which a relayat	ion of the spec	rified LIE receiver	sensitivity rea	uirement (TS

NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.

4.3.1.5.20 MFBI Test frequencies for operation band 26 overlapping with band 27

Table 4.3.1.5.20-1: Test frequencies for E-UTRA channel bandwidth for operating band 26 overlapping with band 27

Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
1.4	26697	814.7	8697	859.7
3	26705	815.5	8705	860.5
5	26715	816.5	8715	861.5
1.4/3/5	26740	819	8740	864
1.4	26783	823.3	8783	868.3
3	26775	822.5	8775	867.5
5	26765	821.5	8765	866.5
	1.4 3 5 1.4/3/5 1.4 3	[MHz] 1.4 26697 3 26705 5 26715 1.4/3/5 26740 1.4 26783 3 26775	[MHz] Uplink [MHz] 1.4 26697 814.7 3 26705 815.5 5 26715 816.5 1.4/3/5 26740 819 1.4 26783 823.3 3 26775 822.5	[MHz] Uplink [MHz] 1.4 26697 814.7 8697 3 26705 815.5 8705 5 26715 816.5 8715 1.4/3/5 26740 819 8740 1.4 26783 823.3 8783 3 26775 822.5 8775

NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.

4.3.1.5.21 MFBI Test frequencies for operation band 27 overlapping with band 18

Table 4.3.1.5.21-1: Test frequencies for E-UTRA channel bandwidth for operating band 27 overlapping with band 18

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	1.4	27127	815.7	9127	860.7
Low Range	3	27135	816.5	9135	861.5
	5	27145	817.5	9145	862.5
Mid Range	1.4/3/5	27165	819.5	9165	864.5
	1.4	27203	823.3	9203	868.3
High Range	3	27195	822.5	9195	867.5
	5	27185	821.5	9185	866.5

4.3.1.5.22 MFBI Test frequencies for operation band 27 overlapping with band 26

Table 4.3.1.5.22-1: Test frequencies for E-UTRA channel bandwidth for operating band 27 overlapping with band 26

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	1.4	27117	814.7	9117	859.7
Low Range	3	27125	815.5	9125	860.5
_	5	27135	816.5	9135	861.5
Mid Range	1.4/3/5	27160	819	9160	864
	1.4	27203	823.3	9203	868.3
High Range	3	27195	822.5	9195	867.5
	5	27185	821.5	9185	866.5

NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.

4.3.1.5.23 MFBI Test frequencies for operation band 33 overlapping with band 39

- same as per Table 4.3.1.2.1-1

4.3.1.5.24 MFBI Test frequencies for operation band 38 overlapping with band 41

- same as per Table 4.3.1.2.6-1

4.3.1.5.25 MFBI Test frequencies for operation band 39 overlapping with band 33

Table 4.3.1.5.25-1: Test frequencies for E-UTRA channel bandwidth for operating band 39 overlapping with band 33

Test Frequency ID	Bandwidth [MHz]	EARFCN	Frequency (UL and DL) [MHz]
	5	38475	1902.5
Low Pongo	10	38500	1905
Low Range	15	38525	1907.5
	20	38550	1910
Mid Range	5/10/15/20	38550	1910
	5	38625	1917.5
High Range	10	38600	1915
nigh Kange	15	38575	1912.5
	20	38550	1910

4.3.1.5.26 MFBI Test frequencies for operation band 41 overlapping with band 38

Table 4.3.1.5.26-1: Test frequencies for E-UTRA channel bandwidth for operating band 41 overlapping with band 38

Test Frequency ID	Bandwidth [MHz]	EARFCN	Frequency (UL and DL) [MHz]
	5	40415	2572.5
Low Dongs	10	40440	2575
Low Range	15	40465	2577.5
	20	40490	2580
Mid Range	5/10/15/20	40640	2595
	5	40865	2617.5
High Dongs	10	40840	2615
High Range	15	40815	2612.5
	20	40790	2610

4.3.1.6 WLAN Test frequencies

4.3.1.6.1 WLAN Test frequencies for 2.4 GHz ISM Band

Table 4.3.1.6.1-1: Test frequencies for WLAN for 2.4 GHz Band

Test Frequency ID	Bandwidth [MHz]	Channel Number	Centre Frequency (UL and DL)[MHz]
Low Range	20	1	2412
Mid Range	20	6	2437
High Range	20	11	2462

4.3.1.6.2 WLAN Test frequencies for 5 GHz ISM Band

Table 4.3.1.6.1-1: Test frequencies for WLAN for 5 GHz Band

Test Frequency ID	Bandwidth [MHz]	Channel Number	Centre Frequency (UL and DL)[MHz]
Low Range	20	48	5240
Mid Range	20	56	5280
High Range	20	64	5320

4.3.2 Radio conditions

4.3.2.1 Normal propagation condition

The downlink connection between the System Simulator and the UE is without Additive White Gaussian Noise, and has no fading or multipath effects.

The uplink connection between the UE and System Simulator is without Additive White Gaussian Noise, and has no fading or multipath effects.

4.3.3 Physical channel allocations

4.3.3.1 Antennas

If the UE has two Rx antennas, the same downlink signal is applied to each one. Both UE Rx antennas shall be connected unless otherwise stated in the test case.

If the UE has one Rx antenna, the downlink signal is applied to it.

4.3.3.2 Downlink physical channels and physical signals

The Downlink Physical channels and Physical signals used and their relative powers are specified for single SS Tx antenna in table 4.3.3.2-1 and for two SS Tx antennas in table 4.3.3.2-2. The details of downlink power allocation for PDSCH channel are described in TS 36.213 [29] clause 5.2.

Table 4.3.3.2-1: Power allocation for OFDM symbols and reference signals, single SS Tx antenna

Physical Channel	EPRE Ratio
PBCH	PBCH_RA = 0 dB
	PBCH_RB = 0 dB
PSS	PSS_RA = 0 dB
SSS	$SSS_RA = 0 dB$
PCFICH	PCFICH_RB = 0 dB
PDCCH	PDCCH_RA = 0 dB
	PDCCH_RB = 0 dB
PDSCH	PDSCH_RA = 0 dB
	PDSCH_RB = 0 dB
PHICH	PHICH_RB = 0 dB
PMCH	PMCH_RA = 0 dB
MBSFN RS	MBSFN RS_RA = 0dB

Table 4.3.3.2-2: Power allocation for OFDM symbols and reference signals, two SS Tx antennas

Physical Channel	EPRE Ratio
PBCH	PBCH_RA = 0 dB
	PBCH_RB = 0 dB
PSS	PSS_RA = 0 dB
SSS	$SSS_RA = 0 dB$
PCFICH	PCFICH_RB = 0 dB
PDCCH	PDCCH_RA = 0 dB
	PDCCH_RB = 0 dB
PDSCH	PDSCH_RA = -3 dB
	PDSCH_RB = -3 dB
PHICH	PHICH_RB = 0 dB
PMCH	PMCH_RA = 0 dB
MBSFN RS	MBSFN RS_RA = 0dB

NOTE: MBSFN RS is not defined downlink physical channels in TS 36.211 [35].

4.3.3.3 Mapping of downlink physical channels and signals to physical resources

Parameters for mapping of downlink physical channels and signals are specified as follows.

Normal Cyclic Prefix

 $N_{
m ID}^{
m cell}$, Physical layer cell identity =0 is used as the default physical layer cell identity

CFI = 3 for 1.4, 3 and 5 MHz system bandwidths

= 2 for 10, 15 and 20 MHz system bandwidths

= 2 if PMCH is configured ('mbsfn-SubframeConfiguration' is present in SIB2)

Ng = 1 PHICH duration = Normal

For Signalling testing, the default system bandwidth is 5/10/20 MHz and single SS Tx antenna is used unless specified otherwise in the test case. The mapping of downlink physical channels to physical resources for Single Tx Antenna is described in table 4.3.3.3-1 for 5/10MHz system bandwidth FDD and table 4.3.3.3-2 for 5/20MHz system bandwidth TDD.

For RF testing, the mapping of DL physical channels to resource element is defined TS 36.521-1 [21] Annex C.1.

Table 4.3.3.3-1: Mapping of DL Physical Channels to Resource Elements for Single SS Tx Antenna and 5/10 MHz System Bandwidth (FDD)

Physical channel	Time Domain Location	Frequency Domain Location	Note
PBCH	Symbols 0 to 3 of slot 1 of subframe 0 of each radio frame	Occupies 72 subcarriers centred on the DC subcarrier	Mapping rule is specified in TS36.211 [35] sub clause 6.6.4
PSS	Symbol 6 of slot 0 and 10 of each radio frame	Occupies 62 subcarriers centred on the DC subcarrier. Additional 10 subcarriers (5 on each side) adjacent to the centred 62 subcarriers are reserved.	Mapping rule is specified in TS36.211 [35] sub clause 6.11.1.2
SSS	Symbol 5 of slots 0 and 10 of each radio frame	Occupies 62 subcarriers centred on the DC subcarrier. Additional 10 subcarriers (5 on each side) adjacent to the centred 62 subcarriers are reserved.	Mapping rule is specified in TS36.211 [35] sub clause 6.11.2.2
PCFICH	Symbol 0 of each subframe	Maps into 4 REGs uniformly spread in the frequency domain over the whole system bandwidth.	Mapping rule is specified in TS36.211 [35] sub clause 6.7.4 - CELL_ID = 0
PHICH	Symbol 0 of each subframe	Each PHICH group maps into 3 REGs in the frequency domain on the REGs not assigned to PCFICH over the whole system bandwidth,	Mapping rule is specified in TS36.211 [35] sub clause 6.9.3 - CELL_ID = 0 - Number of PHICH groups = 4(BW=5 MHz)/7(BW=10MHz)
PDCCH	Symbols 0, 1, 2 of each subframe (BW=5MHz)	The remaining REGs not allocated to both PCFICH and PHICH are used for PDCCH	Mapping rule is specified in TS36.211 [35] sub clause 6.8.5 - CFI = 3 (BW=5MHz)
	Symbols 0, 1 of each subframe (BW=10MHz)		Mapping rule is specified in TS36.211 [35] sub clause 6.8.5 - CFI = 2(BW=10MHz)
	Symbols 0, 1 of each MBSFN subframe		Mapping rule is specified in TS36.211 [35] sub clause 6.8.5
PDSCH	All remaining OFDM symbols of each subframe not allocated to PDCCH	For Subframe 0, REs not allocated to RS, PSS, SSS and PBCH is allocated to PDSCH	
		For Subframe 5, REs not allocated to RS, PSS and SSS is allocated to PDSCH	
		For other subframes, REs not allocated to RS is allocated to PDSCH	
PMCH	MBSFN region of MBSFN subframes	REs not allocated to MBSFN RS is allocated to PMCH	

NOTE: In case a single cell-specific RS is configured, cell-specific RS shall be assume to be present on antenna ports 0 and 1 for the purpose of mapping a symbol-quadruplet to a REG (resource element group). (See TS 36.211 [35] sub clause 6.2.4).

Table 4.3.3.3-2: Mapping of DL Physical Channels to Resource Elements for Single SS Tx Antenna and 5/20 MHz System Bandwidth (TDD)

Physical channel	Time Domain Location	Frequency Domain Location	Note
PBCH	Symbols 0 to 3 of slot 1 of subframe 0 of each radio frame	Occupies 72 subcarriers centred on the DC subcarrier	Mapping rule is specified in TS36.211 [35] subclause 6.6.4
PSS	Symbol 2 of slot 2 and 12 of each radio frame	Occupies 62 subcarriers centred on the DC subcarrier. Additional 10 subcarriers (5 on each side) adjacent to the centred 62 subcarriers are reserved.	Mapping rule is specified in TS36.211 [35] subclause 6.11.1.2
SSS	Symbol 6 of slots 1 and 11 of each radio frame	Occupies 62 subcarriers centred on the DC subcarrier. Additional 10 subcarriers (5 on each side) adjacent to the centred 62 subcarriers are reserved.	Mapping rule is specified in TS36.211 [35] subclause 6.11.2.2
PCFICH	Symbol 0 of each downlink subframe and Special subframe	Maps into 4 REGs uniformly spread in the frequency domain over the whole system bandwidth.	Mapping rule is specified in TS36.211 [35] subclause 6.7.4 - CELL_ID = 0
PHICH	Symbol 0 of each downlink subframe and Special subframe	Each PHICH group maps into 3 REGs in the frequency domain on the REGs not assigned to PCFICH over the whole system bandwidth.	Mapping rule is specified in TS36.211 [35] subclause 6.9.3 - CELL_ID = 0 - Number of PHICH groups = 4(BW=5MHz)/13(BW=20MHz)
PDCCH	Symbols 0, 1 of subframe 1, 6 and Symbols 0, 1, 2 of other downlink subframes (BW=5MHz) Symbols 0, 1 of subframe 1, 6 and Symbols 0, 1 of other downlink subframes (BW=20MHz) Symbols 0, 1 of each MBSFN	The remaining REGs not allocated to both PCFICH and PHICH are used for PDCCH	Mapping rule is specified in TS36.211 [35] subclause 6.8.5 - CFI = 3 (BW=5MHz) Mapping rule is specified in TS36.211 [35] subclause 6.8.5 - CFI = 2 (BW=20MHz) Mapping rule is specified in
	subframe		TS36.211 [35] sub clause 6.8.5 - CFI = 2
PDSCH	All remaining OFDM symbols of each downlink subframe and DwPTS not allocated to PDCCH	For Subframe 0, REs not allocated to RS, SSS and PBCH is allocated to PDSCH	
		For Subframe 5, REs not allocated to RS and SSS is allocated to PDSCH	
		For Subframe 1 and 6, REs not allocated to RS, PSS, GP and UpPTS is allocated to PDSCH	
		For other downlink subframes, REs not allocated to RS is allocated to PDSCH	
PMCH	MBSFN region of MBSFN subframes	REs not allocated to MBSFN RS is allocated to PMCH	

NOTE 1: In case a single cell-specific RS is configured, cell-specific RS shall be assume to be present on antenna ports 0 and 1 for the purpose of mapping a symbol-quadruplet to a REG (resource element group). (See TS 36.211 [35] subclause 6.2.4)

NOTE 2: In case the default TDD configuration for subframe assignment and special subframe patterns (see subclause 4.6.3)

4.3.3.4 Uplink physical channels and physical signals

[FFS].

4.3.3.5 Mapping of uplink physical channels and signals to physical resources

[FFS].

4.3.4 Signal levels

4.3.4.1 Downlink signal levels

The downlink power settings in table 4.3.4.1-1 are used unless otherwise specified in a test case.

Table 4.3.4.1-1: Default Downlink power levels

	Unit	Channel bandwidth					
		1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz
Number of RBs		6	15	25	50	75	100
Channel BW Power	dBm	-66	-62	-60	-57	-55	-54
RS EPRE	dBm/15kHz	-85	-85	-85	-85	-85	-85

Note 1: The channel bandwidth powers are informative, based on -85dBm/15kHz RS_EPRE, then scaled according to the number of RBs and rounded to the nearest integer dBm value. Full RE allocation with no boost or deboost is assumed.

Note 2: The power level is specified at each UE Rx antenna.

It is [FFS] whether there is a requirement to specify constant power throughout all OFDM symbols, and if so how unallocated Resource elements should be treated.

The default signal level uncertainty is \pm -3dB at each test port, for any level specified. If the uncertainty value is critical for the test purpose a tighter uncertainty is specified for the related test case in TS 36.521-1 [21] Annex F or in TS 36.521-3 [34] Annex F

4.3.4.2 Uplink signal levels

[FFS]

4.3.5 Standard test signals

4.3.5.1 Downlink test signals

[FFS]

4.3.5.2 Uplink test signals

[FFS]

4.3.6 Physical layer parameters

4.3.6.1 Downlink physical layer parameters

4.3.6.1.1 Physical layer parameters for DCI format 0

Default physical layer parameters for DCI format 0 are specified in table 4.3.6.1.1-1.

Table 4.3.6.1.1-1: Physical layer parameters for DCI format 0

Parameter	Value	Value in binary
Flag for format 0/format 1A differentiation	format 0	"0"
Hopping flag	w/o Hopping	"0"
Resource block assignment and hopping resource allocation	Depending on test parameters	•
Modulation and coding scheme and redundancy version	Depending on test parameters	-
New data indicator	Set for every data transmission/retransmission according to the rules specified in TS 36.321	-
TPC command for scheduled PUSCH	0 dB (accumulated TPC)	"01"
Cyclic shift for DM RS	0	"000"
UL index (TDD only)	2 bits as defined in sections 5.1.1.1 and 8 of TS 36.213. This field is present only for TDD configuration 0	-
Downlink Assignment Index (TDD only)	2 bits as defined in Table 7.3-X in TS 36.213. It represents the total number of PDSCH subframes with and without PDCCH and PDCCH indicating downlink SPS release in the window. This field is present only for TDD configuration 1-6	-
CQI request	w/o aperiodic CQI	"0"

4.3.6.1.2 Physical layer parameters for DCI format 1

Default physical layer parameters for DCI format 1 are specified in table 4.3.6.1.2-1.

Table 4.3.6.1.2-1: Physical layer parameters for DCI format 1

Parameter	Value	Value in binary
Resource allocation header	Resource allocation type 0	"0"
Resource block assignment	Depending on test parameters	-
Modulation and coding scheme	Depending on test parameters	-
HARQ process number	Depending on test parameters, 3bits for FDD, 4 bits for TDD.	-
New data indicator	Set for every data transmission/retransmission according to the rules specified in TS 36.321	-
Redundancy version	Depending on test parameters	"00"
TPC command for PUCCH	0 dB (accumulated TPC)	"01"
Downlink Assignment Index (TDD only)	2 bits as defined in Table 7.3-X in TS 36.213. It represents the number of PDSCH with PDCCH and PDCCH indicating downlink SPS release in the window up to the present subframe. This is present for all the uplinkdownlink configurations and only applies to uplink-downlink configuration 1-6	

4.3.6.1.3 Physical layer parameters for DCI format 1A

Default physical layer parameters for DCI format 1A are specified in table 4.3.6.1.3-1.

Table 4.3.6.1.3-1: Physical layer parameters for DCI format 1A

Parameter	Value	Value in binary
Flag for format 0/format 1A differentiation	format 1A	"1"
Localized/Distributed VRB assignment flag	Localized VRB assignment	"0"
Resource block assignment	Depending on test parameters	-
Modulation and coding scheme	Depending on test parameters	-
HARQ process number	Depending on test parameters, 3bits for FDD, 4 bits for TDD.	-
New data indicator	Set for every data transmission/retransmission according to the rules specified in TS 36.321	-
Redundancy version	Depending on test parameters	"00"
TPC command for PUCCH	0 dB (accumulated TPC)	"01"
Downlink Assignment Index (TDD only)	2 bits as defined in Table 7.3-X in TS 36.213. It represents the number of PDSCH with PDCCH and PDCCH indicating downlink SPS release in the window up to the present subframe. This is present for all the uplinkdownlink configurations and only applies to uplink-downlink configuration 1-6	-

4.3.6.1.3A Physical layer parameters for DCI format 1B

Default physical layer parameters for DCI format 1B are specified in table 4.3.6.1.3A-1.

Table 4.3.6.1.3A-1: Physical layer parameters for DCI format 1B

Parameter	Value	Value in binary
Localized/Distributed VRB assignment flag	Localized VRB assignment	"0"
Resource block assignment	Depending on test parameters	-
Modulation and coding scheme	Depending on test parameters	-
HARQ process number	Depending on test parameters, 3bits for FDD, 4 bits for TDD.	-
New data indicator	Set for every data transmission/retransmission according to the rules specified in TS 36.321	-
Redundancy version	Depending on test parameters	"00"
TPC command for PUCCH	0 dB (accumulated TPC)	"01"
Downlink Assignment Index (TDD only)	2 bits as defined in Table 7.3-X in TS 36.213. It represents the number of PDSCH with PDCCH and PDCCH indicating downlink SPS release in the window up to the present subframe. This is present for all the uplinkdownlink configurations and only applies to uplink-downlink configuration 1-6	-
TPMI information for precoding	Set for codebook index according to TS 36.211 Table 6.3.4.2.3-1 for 2 Tx antenna ports and Table 6.3.4.2.3-2 for 4 Tx antenna ports corresponding to the single layer transmission	-
PMI confirmation for precoding	Set for every transmission, 1 for precoding according to the latest reported PMI on PUSCH,0 for precoding according to the indicated TPMI in the TPMI information field	-

4.3.6.1.4 Physical layer parameters for DCI format 1C

Default physical layer parameters for DCI format 1C are specified in table 4.3.6.1.4-1.

Table 4.3.6.1.4-1: Physical layer parameters for DCI format 1C

Parameter	Value	Value in binary
gap value (N_RB >= 50)	gap1	"0"
Resource block assignment	depending on test parameters	-
Transport block size index	depending on test parameters	-

4.3.6.1.5 Physical layer parameters for DCI format 2

Default physical layer parameters for DCI format 2 are specified in table 4.3.6.1.5-1.

Table 4.3.6.1.5-1: Physical layer parameters for DCI format 2

Parameter	Value	Value in binary
Resource allocation header	Resource allocation type 0	"0"
Resource block assignment	Depending on test parameters	-
TPC command for PUCCH	0 dB (accumulated TPC)	"01"
Downlink Assignment Index (TDD only)	2 bits as defined in Table 7.3-X in TS 36.213. It represents the number of PDSCH with PDCCH and PDCCH indicating downlink SPS release in the window up to the present subframe. This is present for all the uplinkdownlink configurations and only applies to uplink-downlink configuration 1-6	
HARQ process number	Depending on test parameters, 3bits for FDD, 4 bits for TDD.	-
Transport block to codeword swap flag	No swap	"0"
Modulation and coding scheme (transport block 1)	Depending on test parameters	-
New data indicator (transport block 1)	Set for every data transmission/retransmission according to the rules specified in TS 36.321	-
Redundancy version (transport block 1)	Depending on test parameters	-
Modulation and coding scheme (transport block 2)	Depending on test parameters	-
New data indicator (transport block 2)	Set for every data transmission/retransmission according to the rules specified in TS 36.321	-
Redundancy version (transport block 2)	Depending on test parameters	-
Precoding information	Set for every transmission according to 36.212 Table 5.3.3.1.5-4 for 2 Tx antenna ports and Table 5.3.3.1.5-5 for 4 Tx antenna ports	-

4.3.6.1.6 Physical layer parameters for DCI format 2A

Default physical layer parameters for DCI format 2A are specified in table 4.3.6.1.6-1.

Table 4.3.6.1.6-1: Physical layer parameters for DCI format 2A

Parameter	Value	Value in binary
Resource allocation header	Resource allocation type 0	"0"
Resource block assignment	depending on test parameters	-
TPC command for PUCCH	0 dB (accumulated TPC)	"01"
Downlink Assignment Index (TDD only)	2 bits as defined in Table 7.3-X in TS 36.213. It represents the number of PDSCH with PDCCH and PDCCH indicating downlink SPS release in the window up to the present subframe. This is present for all the uplinkdownlink configurations and only applies to uplink-downlink configuration 1-6	-
HARQ process number	depending on test parameters, 3bits for FDD, and 4 bits for TDD.	-
Transport block to codeword swap flag	No swap	"0"
Modulation and coding scheme (transport block 1)	depending on test parameters	-
New data indicator (transport block 1)	Set for every data transmission/retransmission according to the rules specified in TS 36.321	-
Redundancy version (transport block 1)	depending on test parameters	-
Modulation and coding scheme (transport block 2)	depending on test parameters	-
New data indicator (transport block 2)	Set for every data transmission/retransmission according to the rules specified in TS 36.321	-
Redundancy version (transport block 2)	depending on test parameters	=
Precoding information	N/A for 2 Tx antenna ports. For 4 Tx antenna ports, set for every transmission according to 36.212 Table 5.3.3.1.5A-2	-

4.3.6.1.7 Physical layer parameters for DCI format 5

Default physical layer parameters for DCI format 5 are specified in table 4.3.6.1.7-1.

Table 4.3.6.1.7-1: Physical layer parameters for DCI format 5

Parameter	Value	Value in binary
Resource for PSCCH	Depending on test parameters	-
TPC command for PSCCH and PSSCH		"0"
Frequency hopping flag	w/o hopping	"0"
Resource block assignment and hopping resource allocation		
Time resource pattern	Depending on test parameters	

4.4 Reference system configurations

The reference system configurations specified in this sub clause apply to all test cases unless otherwise specified.

4.4.1 Simulated network scenarios

The UE will eventually have to operate in either single mode networks (FDD or TDD), dual mode networks (FDD+TDD), or inter-RAT networks ((FDD or TDD) + (UTRA FDD, UTRA TDD, GSM, HRPD or 1xRTT)).

Simulated network scenarios to be tested are listed in this sub clause.

NOTE 1: The number of cells specified does not necessarily correspond to the maximum number of resources to be configured simultaneously in test equipment. Please refer to Table 6.1-1 for such information.

NOTE 2: For NAS test cases see sub clause 6.3.2.

4.4.1.1 Single cell network scenarios

For FDD and TDD basic single cell environment, Cell 1 is used.

4.4.1.2 E-UTRA single mode multi cell network scenarios

For FDD or TDD basic intra-frequency multi cell environment, Cell 1, Cell 2 and Cell 4 are used.

For FDD or TDD basic inter-frequency multi cell environment, Cell 1, Cell 3 and Cell 6 are used.

For FDD or TDD basic inter-band cell environment, Cell 1 and Cell 10 are used.

For FDD or TDD multi tracking area intra-frequency multi cell environment, Cell 1 and Cell 11 are used.

For FDD or TDD multi tracking area inter-frequency multi cell environment, Cell 1 and Cell 23 are used.

For FDD or TDD multi PLMN inter-frequency multi cell environment, Cell 1, Cell 12, Cell 13 and Cell 14 are used.

4.4.1.3 E-UTRA dual mode multi cell network scenarios

For FDD and TDD basic multi cell environment, Cell 1, Cell 10 and Cell 31 are used.

For FDD and TDD multi PLMN multi cell environment, Cell 1, Cell 28, Cell 29 and Cell 30 are used.

In addition, E-UTRA single mode multi cell network scenarios defined in clause 4.4.1.2 are combined with the dual mode scenarios defined in this clause when additional intra or inter-frequency cells are used.

4.4.1.4 3GPP Inter-RAT network scenarios

For FDD and TDD basic inter-RAT cell environment with UTRA FDD or UTRA TDD, Cell 1 and Cell 5 are used.

For FDD and TDD inter-RAT cell environment with multi UTRA FDD or UTRA TDD cells, Cell 1 and Cell 7, Cell 8 and Cell 9 is used.

For FDD and TDD inter-RAT cell environment with GERAN, Cell 1 and Cell 24 are used.

For FDD and TDD inter-RAT cell environment with multi GERAN cells, Cell 1 and Cell 25, Cell 26 are used.

For FDD and TDD inter-RAT cell environment with (UTRA FDD or UTRA TDD) and GERAN, Cell 1, Cell 5 and Cell 24 are used.

4.4.1.5 3GPP2 Inter-RAT network scenarios

For FDD and TDD inter-RAT cell environment with HRPD, Cell 1 and Cell 15 are used.

For FDD and TDD inter-RAT cell environment with multi HRPD cells, Cell 1 and Cell 15, Cell 16 and Cell 17 are used.

For FDD and TDD inter-RAT cell environment with 1xRTT, Cell 1 and Cell 19 are used.

For FDD and TDD inter-RAT cell environment with multi 1xRTT cells, Cell 1 and Cell 19, Cell 20 and Cell 21 are used.

4.4.1.6 WLAN Inter-RAT network scenarios

For FDD and TDD inter-RAT cell environment with WLAN, Cell 1 and Cell 27 are used.

4.4.2 Simulated cells

NOTE: For NAS test cases see subclause 6.3.2.

NOTE: Test frequency and range defined in table 4.4.2-1 do not apply to 36.521-1 test cases.

Test frequencies and simulated cells are defined in table 4.4.2-1. For E-UTRA cells, f1 is the default test frequency. For UTRA cells, f8 is the default test frequency. For GERAN cells, f11 is the default test frequency. For CDMA 2000 HRPD cells, f14 is the default test frequency. For CDMA 2000 1xRTT cells, f17 is the default test frequency. For WLAN cells, f20 is the default test frequency.

Default parameters for simulated cells are specified in table 4.4.2-1A and table 4.4.2-2.

Common parameters for simulated cells are specified in subclauses 4.4.3 to 4.4.6A.

Other cell specific parameters are specified in subclause 4.4.7.

Table 4.4.2-1: Definition of test frequencies and simulated cells

Test frequency	RAT	Operating band	Range	Simulated cells
f1	E-UTRA	Operating band under test	Mid	Cell 1, Cell 2, Cell 4, Cell 11
	L-OTIVA	Operating band under test	(Note 1,	(Note 4)
			Note 5,	(14010-1)
			Note 8)	
f2	E-UTRA	Operating band under test	High	Cell 3, Cell 12, Cell 23
		Transmig tame amounted	(Note 1,	
			Note 6,	
			Note 8)	
f3	E-UTRA	Operating band under test	Low	Cell 6, Cell 13
			(Note 1,	
			Note 7,	
			Note 8)	
f4	E-UTRA	Operating band under test	(Note 1)	Cell 14
f5	E-UTRA	Operating band for inter-band cells	Mid	Cell 10, Cell 30, Cell 31
			(Note 1)	
f6	E-UTRA	Operating band for inter-band cells	High	Cell 28, Cell 29
			(Note 1)	
f7	E-UTRA	Operating band for inter-band cells	Low	
	<u> </u>		(Note 1)	
f8	UTRA	Operating band for UTRA cells	Mid	Cell 5, Cell 7
		0 16 1750	(Note 2)	0.110
f9	UTRA	Operating band for UTRA cells	High	Cell 8
64.0	LITDA	On anotic or broad for LITDA calls	(Note 2)	0-11-0
f10	UTRA	Operating band for UTRA cells	Low	Cell 9
f11	GERAN	Operating band for GERAN cells	(Note 2) Mid	Cell 24
111	GERAIN	Operating band for GERAN cells	(Note 3)	Cell 24
f12	GERAN	Operating band for GERAN cells	High	Cell 25
112	GLIVAIN	Operating band for GERAIN cells	(Note 3)	Gell 25
f13	GERAN	Operating band for GERAN cells	Low	Cell 26
113	OLIVAIN	Operating band for GETTAIN cells	(Note 3)	Gell 20
f14	CDMA2000	Operating band for CDMA2000	Mid	Cell 15, Cell 16
	HRPD	HRPD cells	1411.4	
f15	CDMA2000	Operating band for CDMA2000	High	Cell 17
	HRPD	HRPD cells	19	
f16	CDMA2000	Operating band for CDMA2000	Low	Cell 18
	HRPD	HRPD cells		
f17	CDMA2000	Operating band for CDMA2000	Mid	Cell 19, Cell 20
	1xRTT	1xRTT cells		
f18	CDMA2000	Operating band for CDMA2000	High	Cell 21
	1xRTT	1xRTT cells		
f19	CDMA2000	Operating band for CDMA2000	Low	Cell 22
	1xRTT	1xRTT cells		
f20	WLAN	Operating band for WLAN AP's	Mid	Cell 27
Note 1:	For cianallina to	st see clause 6.2.3		

- Note 1: For signalling test, see clause 6.2.3.
- Note 2: See TS 34.108 [5] clause 5.1.
- Note 3: For signalling test, see clause 6.3.1.4. For RRM test, see clause 7.2.2.1.
- Note 4: For signalling test, simultaneous co-existence of Cell 2 with Cell 11 is not allowed.
- Note 5: For RRM test with intra-band contiguous CA, both PCC and SCC are "Mid", with the test frequencies specified in clauses 4.3.1.1.xA for FDD and 4.3.1.2.xA for TDD
- Note 6: For RRM test with intra-band contiguous CA, both PCC and SCC are "High", with the test frequencies specified in clauses 4.3.1.1.xA for FDD and 4.3.1.2.xA for TDD
- Note 7: For RRM test with intra-band contiguous CA, both PCC and SCC are "Low", with the test frequencies specified in clauses 4.3.1.1.xA for FDD and 4.3.1.2.xA for TDD.
- Note 8: For RRM test with intra-band non-contiguous CA, the test frequencies are specified in clauses 4.3.1.1.xA for FDD and 4.3.1.2.xA for TDD without any regard to range. Thus "Low", "Mid" and "High" information in this table does not apply. Unless otherwise stated, test point with maximum Wgap is chosen.

Table 4.4.2-1A: Default E-UTRA parameters for simulated cells

cell ID	E-UTRAN Cell Ide	entifier	Physical layer cell identity	rootSequenceIndex FDD	rootSequenceIndex TDD
	eNB Identifier	Cell Identity			
Cell 1	'0000 0000 0000 0000 0001'B	'0000 0000'B	0	22	0
Cell 2	'0000 0000 0000 0000 0001'B	'0000 0010'B	2	86	8
Cell 3	'0000 0000 0000 0000 0010'B	'0000 0011'B	3	22	0
Cell 4	'0000 0000 0000 0000 0011'B	'0000 0100'B	4	150	16
Cell 6	'0000 0000 0000 0000 0100'B	'0000 0110'B	6	22	0
Cell 10	'0000 0000 0000 0000 0101'B	'0000 1010'B	10	22	0
Cell 11	'0000 0000 0000 0000 0110'B	'0000 1011'B	11	214	24
Cell 12	'0000 0000 0000 0000 0010'B	'0000 1100'B	12	86	8
Cell 13	'0000 0000 0000 0000 0100'B	'0000 1101'B	13	86	8
Cell 14	'0000 0000 0000 0000 0111'B	'0000 1110'B	14	22	0
Cell 23	'0000 0000 0000 0000 0110'B	'0001 0111'B	23	150	16
Cell 28	'0000 0000 0000 0000 0010'B	'0001 1100'B	28	86	8
Cell 29	'0000 0000 0000 0000 0100'B	'0001 1101'B	29	86	8
Cell 30	'0000 0000 0000 0000 0111'B	'0001 1110'B	30	22	0
Cell 31	'0000 0000 0000 0000 0110'B	'0001 1111'B	31	214	24

Table 4.4.2-2: Default NAS parameters for simulated cells

cell ID		Trackin	g Area		TA# list	(GUTI (Note 2)	
	TA#	PLI	MN	TAC	(Note 1)	MME Ide	ntifier	M-TMSI
		MCC	MNC			MME Group ID	MME Code	
Cell 1	TAI-1	(Not	e 3)	1	TAI-1	32769	1	Arbitrarily
Cell 2	TAI-1	(Not	e 3)	1	TAI-1	32769	1	selected
Cell 3	TAI-1	(Not	e 3)	1	TAI-1	32769	1	according to
Cell 4	TAI-1	(Not	e 3)	1	TAI-1	32769	1	TS 23.003
Cell 6	TAI-1	(Not	e 3)	1	TAI-1	32769	1	subclause 2.8
Cell 10	TAI-1	(Not	e 3)	1	TAI-1	32769	1	[2].
Cell 11	TAI-2	(Not	e 3)	2	TAI-2	32769	1	
Cell 23	TAI-2	(Not	e 3)	2	TAI-2	32769	1	
Cell 12,	TAI-3	002	11	1	TAI-3	32769	1	
Cell 28	TAL 4	000	04		TAL 4	00700	4	
Cell 13, Cell 29	TAI-4	003	21	1	TAI-4	32769	1	
Cell 14, Cell 30	TAI-5	004	31	1	TAI-5	32769	1	
Cell 31	TAI-2	(Not	e 3)	2	TAI-2	32769	1	

Note 1: The value(s) in the column TA# list indicates TAI(s) included in the response messages of the registration procedure (ATTACH ACCEPT or TRACKING AREA UPDATE ACCEPT) when the UE performs the registration procedure on a corresponding cell.

Note 2: The value in the column GUTI indicates GUTI included in the response messages of the registration procedure (ATTACH ACCEPT or TRACKING AREA UPDATE ACCEPT) when the UE performs the registration procedure on a corresponding cell.

Note 3: Set to the same Mobile Country Code and Mobile Network Code stored in EF_{IMSI} on the test USIM card (subclause 4.9.3).

Table 4.4.2-3: Default HRPD parameters for simulated cells

Cell ID	SectorID	ColorCode	Pilot PN Offset	CountryCode				
Cell 15	Set according to PIXIT parameter	Set according to PIXIT parameter	50	(Note 1)				
Cell 16	Set according to PIXIT parameter	Set according to PIXIT parameter	100	(Note 1)				
Cell 17	Set according to PIXIT parameter	Set according to PIXIT parameter	150	(Note 1)				
Cell 18	Set according to PIXIT parameter	Set according to PIXIT parameter	200	(Note 1)				
Note 1:	Note 1: Set to the same Mobile Country Code stored in EFIMSI on the test USIM card (subclause 4.9.3).							

Table 4.4.2-4: Default 1XRTT parameters for simulated cells

Cell ID	SID	NID	BASE_ID	Pilot PN Offset	REG_ZONE	MCC	IMSI_11_12
Cell 19	200	Set	Set according	50	1	Note	Note 2
		according	to PIXIT			1	
		to PIXIT	parameter				
		parameter					
Cell 20	200	Set	Set according	100	1	Note	Note 2
		according	to PIXIT			1	
		to PIXIT	parameter				
		parameter					
Cell 21	200	Set	Set according	150	2	Note	Note 2
		according	to PIXIT			1	
		to PIXIT	parameter				
		parameter					
Cell 22	200	Set	Set according	200	3	Note	Note 2
		according	to PIXIT			1	
		to PIXIT	parameter				
		parameter					
				MSI on the test USI			
Note 2: S	Set to the same M	obile Network (Code stored in EFI	MSI on the test US	IM card (subclau	se 4.9.3).	

Table 4.4.2-5: Neighbouring cell list for 1XRTT cells

Cell ID	Intra Frequency		Inter Frequency	Cells
Cell 19	cell 20	Cell 21	cell 22	X
Cell 20	cell 19	Cell 21	cell 22	X
Cell 21	X	cell 19	cell 20	cell 22
Cell 22	X	cell 19	cell 20	cell 21

4.4.3 Common parameters for simulated E-UTRA cells

The parameters specified in this sub clause apply to all simulated E-UTRA cells unless otherwise specified.

4.4.3.1 Common configurations of system information blocks

4.4.3.1.1 Combinations of system information blocks

The combination of system information blocks required by a test case depends on the test case scenario. In this clause, the following combinations of system information blocks are defined.

Combination 1 is the default combination which applies to the following test case scenarios:

- E-UTRA FDD single cell scenario
- E-UTRA TDD single cell scenario
- E-UTRA FDD intra-frequency multi cell scenario
- E-UTRA TDD intra-frequency multi cell scenario

- E-UTRA FDD and E-UTRA TDD dual mode multi cell roaming scenario

Combination 2 applies to the following test case scenarios:

- E-UTRA FDD intra-frequency multi cell scenario with neighbouring cell related information
- E-UTRA TDD intra-frequency multi cell scenario with neighbouring cell related information

Combination 3 applies to the following test case scenarios:

- E-UTRA FDD inter-frequency multi cell scenario
- E-UTRA TDD inter-frequency multi cell scenario
- E-UTRA FDD inter-band multi cell scenario
- E-UTRA TDD inter-band multi cell scenario
- E-UTRA FDD and E-UTRA TDD dual mode multi cell non-roaming scenario
- E-UTRA FDD intra-band carrier aggregation component carriers cell scenario
- E-UTRA FDD inter-band carrier aggregation component carriers cell scenario
- E-UTRA TDD intra-band carrier aggregation component carriers cell scenario

Combination 4 applies to the following test case scenarios:

- 3GPP inter-RAT E-UTRA FDD + UTRA FDD multi cell scenario
- 3GPP inter-RAT E-UTRA TDD + UTRA LCR TDD multi cell scenario
- 3GPP inter-RAT E-UTRA TDD + UTRA FDD multi cell scenario

Combination 5 applies to the following test case scenarios:

- 3GPP inter-RAT E-UTRA FDD + GERAN multi cell scenario
- 3GPP inter-RAT E-UTRA TDD + GERAN multi cell scenario

Combination 6 applies to the following test case scenarios:

- 3GPP2 inter-RAT E-UTRA FDD + HRPD multi cell scenario
- 3GPP2 inter-RAT E-UTRA TDD + HRPD multi cell scenario
- 3GPP2 inter-RAT E-UTRA FDD + 1xRTT multi cell scenario
- 3GPP2 inter-RAT E-UTRA TDD + 1xRTT multi cell scenario

Editor's note: 3GPP2 Inter-RAT multi cell scenarios with E-UTRA + HRPD + 1xRTT are FFS.

Combination 7 applies to the following test case scenarios:

- E-UTRA FDD + home eNB multi cell scenario
- E-UTRA TDD + home eNB multi cell scenario

Combination 8 applies to the following test case scenarios:

- E-UTRA FDD ETWS single cell scenario
- E-UTRA TDD ETWS single cell scenario

Combination 9 applies to the following test case scenarios:

- E-UTRA FDD inter-frequency + 3GPP inter-RAT UTRA multi-cell scenario
- E-UTRA TDD inter-frequency + 3GPP inter-RAT UTRA multi-cell scenario

Combination 10 applies to the following test case scenarios:

- 3GPP inter-RAT E-UTRA FDD + UTRA FDD + GERAN multi cell scenario
- 3GPP inter-RAT E-UTRA TDD + UTRA LCR TDD + GERAN multi cell scenario.

Combination 10a applies to the following test case scenarios:

- E-UTRA FDD inter-frequency + 3GPP inter-RAT E-UTRA FDD + UTRA FDD + GERAN multi cell scenario
- E-UTRA TDD inter-frequency + 3GPP inter-RAT E-UTRA TDD + UTRA LCR TDD + GERAN multi cell scenario

Combination 11 applies to the following test case scenarios:

- 3GPP inter-RAT E-UTRA FDD + UTRA FDD + home eNB multi cell scenario
- 3GPP inter-RAT E-UTRA TDD + UTRA LCR TDD + home eNB multi cell scenario

Combination 12 applies to the following test case scenarios:

- E-UTRA FDD inter-frequency + GERAN cell scenario
- E-UTRA TDD inter-frequency + GERAN cell scenario

Combination 13 applies to the following test case scenarios:

- E-UTRA FDD inter-frequency + home eNB
- E-UTRA TDD inter-frequency + home eNB

Combination 14 applies to the following test case scenarios:

- 3GPP inter-RAT E-UTRA FDD + GERAN + home eNB multi cell scenario
- 3GPP inter-RAT E-UTRA TDD + GERAN + home eNB multi cell scenario

Combination 15 applies to the following test case scenarios:

- 3GPP E-UTRA FDD single cell scenario + MBMS
- 3GPP E-UTRA TDD single cell scenario + MBMS
- 3GPP E-UTRA FDD intra-frequency multi cell scenario + MBMS
- 3GPP E-UTRA TDD intra-frequency multi cell scenario + MBMS

Combination 16 applies to the following test case scenarios:

- 3GPP E-UTRA FDD inter-frequency multi cell scenario + MBMS
- 3GPP E-UTRA TDD inter-frequency multi cell scenario + MBMS

Combination 17 applies to the following test case scenarios:

- 3GPP E-UTRA FDD + CMAS single cell scenario
- 3GPP E-UTRA TDD + CMAS single cell scenario

Combination 18 applies to the following test case scenarios:

- 3GPP E-UTRA FDD + MBMS inter-frequency multi cell scenario (non-MBMS cell broadcasting SIB15)
- 3GPP E-UTRA TDD + MBMS inter-frequency multi cell scenario (non-MBMS cell broadcasting SIB15)

Combination 19 applies to the following test case scenarios:

- 3GPP E-UTRA FDD + MBMS intra-frequency multi cell scenario (MBMS cell broadcasting SIB15)

- 3GPP E-UTRA TDD + MBMS intra-frequency multi cell scenario (MBMS cell broadcasting SIB15)

Combination 20 applies to the following test case scenarios:

- 3GPP E-UTRA FDD + MBMS inter-frequency multi cell scenario (MBMS cell broadcasting SIB15)
- 3GPP E-UTRA TDD + MBMS inter-frequency multi cell scenario (MBMS cell broadcasting SIB15)
- 3GPP E-UTRA FDD + MBMS inter-band multi cell scenario (MBMS cell broadcasting SIB15)
- 3GPP E-UTRA TDD + MBMS inter-band multi cell scenario (MBMS cell broadcasting SIB15)

Combination 21 applies to the following test case scenarios:

- E-UTRA FDD SIMTC single cell scenario
- E-UTRA TDD SIMTC single cell scenario

Combination 22 applies to the following test case scenarios:

- RAN assisted WLAN offload: E-UTRA FDD + WLAN AP scenarios
- RAN assisted WLAN offload: E-UTRA TDD + WLAN AP scenarios

Combination 23 is the default combination which applies to the following test case scenarios:

- E-UTRA FDD single cell scenario + sidelink direct communication
- E-UTRA TDD single cell scenario + sidelink direct communication
- E-UTRA FDD intra-frequency multi cell scenario + sidelink direct communication
- E-UTRA TDD intra-frequency multi cell scenario + sidelink direct communication

Combination 24 is the default combination which applies to the following test case scenarios:

- E-UTRA FDD single cell scenario + sidelink direct discovery
- E-UTRA TDD single cell scenario + sidelink direct discovery
- E-UTRA FDD intra-frequency multi cell scenario + sidelink direct discovery
- E-UTRA TDD intra-frequency multi cell scenario + sidelink direct discovery

Table 4.4.3.1.1-1: Combinations of system information blocks

		System information block type															
Combi- nation No.	SI B2	SI B3	SI B4	SI B5	SI B6	SI B7	SI B8	SI B9	SI B1 0	SI B1 1	SI B1 2	SI B1 3	SI B 14	SI B 15	SI B 17	SI B 18	SI B 19
1	Χ	Χ															
2	Χ	Χ	Χ														
3	Χ	Χ		Χ													
4	Χ	Χ			Χ												
5	Χ	Χ				Χ											
6	Χ	Χ					Χ										
7	Χ	Χ	Χ					Χ									
8	Χ	Χ							Χ	Χ							
9	Χ	Χ		Χ	Χ												
10	Χ	Χ			Χ	Χ											
10a	Χ	Χ		Χ	Χ	Χ											
11	Χ	Χ	Χ		Χ			Χ									
12	Χ	Χ		Χ		Χ											
13	Χ	Χ	Χ	Χ				Χ									
14	Χ	Χ	Χ			Χ		Χ									
15	Χ	Χ										Χ					
16	Χ	Χ		Χ								Χ					
17	Χ	Χ									Χ						
18	Χ	Χ		Χ										Χ			
19	Χ	Χ										Χ		Χ			
20	Χ	Χ		Χ								Χ		Χ			
21	Χ	Χ											Χ				
22	Χ	Χ													Χ		
23	Χ	Χ														Χ	
24	Χ	Χ															Χ

4.4.3.1.2 Scheduling of system information blocks

The scheduling configurations for combinations of system information blocks are defined in the following tables.

Table 4.4.3.1.2-1: Scheduling for combination 1

Scheduling Information No.	Periodicity [radio frames]	Mapping of system information blocks				
1	16	SIB2				
2	See sub clause 4.4.3.4	SIB3				

Table 4.4.3.1.2-2: Scheduling for combination 2

Scheduling Information No.	Periodicity [radio frames]	Mapping of system information blocks
1	16	SIB2
2	See sub clause 4.4.3.4	SIB3
3	See sub clause 4.4.3.4	SIB4

Table 4.4.3.1.2-3: Scheduling for combination 3

Scheduling Information No.	Periodicity [radio frames]	Mapping of system information blocks
1	16	SIB2
2	See sub clause 4.4.3.4	SIB3
3	See sub clause 4.4.3.4	SIB5

Table 4.4.3.1.2-4: Scheduling for combination 4

Scheduling Information No.	Periodicity [radio frames]	Mapping of system information blocks
1	16	SIB2
2	See sub clause 4.4.3.4	SIB3
3	See sub clause 4.4.3.4	SIB6

Table 4.4.3.1.2-5: Scheduling for combination 5

Scheduling Information No.	Periodicity [radio frames]	Mapping of system information blocks
1	16	SIB2
2	See sub clause 4.4.3.4	SIB3
3	See sub clause 4.4.3.4	SIB7

Table 4.4.3.1.2-6: Scheduling for combination 6

Scheduling Information No.	Periodicity [radio frames]	Mapping of system information blocks
1	16	SIB2
2	See sub clause 4.4.3.4	SIB3
3	See sub clause 4.4.3.4	SIB8

Table 4.4.3.1.2-7: Scheduling for combination 7

Scheduling Information No.	Periodicity [radio frames]	Mapping of system information blocks
1	16	SIB2
2	See sub clause 4.4.3.4	SIB3
3	See sub clause 4.4.3.4	SIB4
4	See sub clause 4.4.3.4	SIB9

Table 4.4.3.1.2-8: Scheduling for combination 8

Scheduling Information No.	Periodicity [radio frames]	Mapping of system information blocks
1	16	SIB2
2	See sub clause 4.4.3.4	SIB3
3	See sub clause 4.4.3.4	SIB11
4	See sub clause 4.4.3.4	SIB10

Table 4.4.3.1.2-9: Scheduling for combination 9

Scheduling Information No.	Periodicity [radio frames]	Mapping of system information blocks
1	16	SIB2
2	See sub clause 4.4.3.4	SIB3
3	See sub clause 4.4.3.4	SIB5, SIB6

Table 4.4.3.1.2-10: Scheduling for combination 10

Scheduling	Periodicity	Mapping of system information
Information No.	[radio frames]	blocks
1	16	SIB2
2	See sub clause 4.4.3.4	SIB3
3	See sub clause 4.4.3.4	SIB6
4	See sub clause 4.4.3.4	SIB7

Table 4.4.3.1.2-10a: Scheduling for combination 10a

Scheduling Information No.	Periodicity [radio frames]	Mapping of system information blocks
1	16	SIB2
2	See sub clause 4.4.3.4	SIB3
3	See sub clause 4.4.3.4	SIB5, SIB6
4	See sub clause 4.4.3.4	SIB7

Table 4.4.3.1.2-11: Scheduling for combination 11

Scheduling	Periodicity	Mapping of system information
Information No.	[radio frames]	blocks
1	16	SIB2
2	See sub clause 4.4.3.4	SIB3
3	See sub clause 4.4.3.4	SIB4
4	See sub clause 4.4.3.4	SIB6
5	See sub clause 4.4.3.4	SIB9

Table 4.4.3.1.2-12: Scheduling for combination 12

Scheduling Information No.	Periodicity [radio frames]	Mapping of system information blocks
1	16	SIB2
2	See sub clause 4.4.3.4	SIB3
3	See sub clause 4.4.3.4	SIB5
4	See sub clause 4.4.3.4	SIB7

Table 4.4.3.1.2-13: Scheduling for combination 13

Scheduling Information No.	Periodicity [radio frames]	Mapping of system information blocks
1	16	SIB2
2	See sub clause 4.4.3.4	SIB3
3	See sub clause 4.4.3.4	SIB4
4	See sub clause 4.4.3.4	SIB5

Table 4.4.3.1.2-14: Scheduling for combination 14

Scheduling Information No.	Periodicity [radio frames]	Mapping of system information blocks
1	16	SIB2
2	See sub clause 4.4.3.4	SIB3
3	See sub clause 4.4.3.4	SIB4
4	See sub clause 4.4.3.4	SIB7
5	See sub clause 4.4.3.4	SIB9

Table 4.4.3.1.2-15: Scheduling for combination 15

Scheduling Information No.	Periodicity [radio frames]	Mapping of system information blocks
1	16	SIB2
2	See sub clause 4.4.3.4	SIB3
3	See sub clause 4.4.3.4	SIB13

Table 4.4.3.1.2-16: Scheduling for combination 16

Scheduling Information No.	Periodicity [radio frames]	Mapping of system information blocks
1	16	SIB2
2	See sub clause 4.4.3.4	SIB3
3	See sub clause 4.4.3.4	SIB5
4	See sub clause 4.4.3.4	SIB13

Table 4.4.3.1.2-17: Scheduling for combination 17

Scheduling Information No.	Periodicity [radio frames]	Mapping of system information blocks
1	16	SIB2
2	See sub clause 4.4.3.4	SIB3
3	See sub clause 4.4.3.4	SIB12

Table 4.4.3.1.2-18: Scheduling for combination 18

Scheduling Information No.	Periodicity [radio frames]	Mapping of system information blocks
1	16	SIB2
2	See sub clause 4.4.3.4	SIB3
3	See sub clause 4.4.3.4	SIB5
4	See sub clause 4.4.3.4	SIB15

Table 4.4.3.1.2-19: Scheduling for combination 19

Scheduling Information No.	Periodicity [radio frames]	Mapping of system information blocks
1	16	SIB2
2	See sub clause 4.4.3.4	SIB3
3	See sub clause 4.4.3.4	SIB13
4	See sub clause 4.4.3.4	SIB15

Table 4.4.3.1.2-20: Scheduling for combination 20

Scheduling Information No.	Periodicity [radio frames]	Mapping of system information blocks	
1	16	SIB2	
2	See sub clause 4.4.3.4	SIB3	
3	See sub clause 4.4.3.4	SIB5	
4	See sub clause 4.4.3.4	SIB13	
5	See sub clause 4.4.3.4	SIB15	

Table 4.4.3.1.2-21: Scheduling for combination 21

Scheduling Information No.	Periodicity [radio frames]	Mapping of system information blocks
1	16	SIB2
2	See sub clause 4.4.3.4	SIB3
3	See sub clause 4.4.3.4	SIB14

Table 4.4.3.1.2-22: Scheduling for combination 22

Scheduling Information No.	Periodicity [radio frames]	Mapping of system information blocks
1	16	SIB2
2	See sub clause 4.4.3.4	SIB3
3	See sub clause 4.4.3.4	SIB17

Table 4.4.3.1.2-23: Scheduling for combination 23

Scheduling Information No.	Periodicity [radio frames]	Mapping of system information blocks
1	16	SIB2
2	See sub clause 4.4.3.4	SIB3
3	See sub clause 4.4.3.4	SIB18

Table 4.4.3.1.2-24: Scheduling for combination 24

Scheduling Information No.	Periodicity [radio frames]	Mapping of system information blocks
1	16	SIB2
2	See sub clause 4.4.3.4	SIB3
3	See sub clause 4.4.3.4	SIB19

4.4.3.2 Common contents of system information messages

MasterInformationBlock

The MasterInformationBlock includes the system information transmitted on BCH.

Table 4.4.3.2-1: MasterInformationBlock

Derivation Path: 36.331 clause 6.2.2			
Information Element	Value/remark	Comment	Condition
MasterInformationBlock ::= SEQUENCE {			
dl-Bandwidth	Downlink system bandwidth under test.		
phich-Config SEQUENCE {}	PHICH-Config-DEFAULT	See subclause 4.6.3	
systemFrameNumber	A valid value as defined in TS 36.331 [17]		
spare	'0000 0000 00'B		
}			

- SystemInformation

The *SystemInformation* message is used to convey one or more System Information Blocks. All the SIBs included are transmitted with the same periodicity.

Table 4.4.3.2-2: SystemInformation

Derivation Path: 36.331 clause 6.2.2			
Information Element	Value/remark	Comment	Condition
SystemInformation ::= SEQUENCE {			
criticalExtensions CHOICE {			
systemInformation-r8 SEQUENCE {			
sib-TypeAndInfo SEQUENCE (SIZE	See subclause 4.4.3.1		
(1maxSIB)) OF CHOICE {}			
<pre>criticalExtensionsFuture SEQUENCE {}</pre>	Not present		
}			
}			
}			

SystemInformationBlockType1 contains information relevant when evaluating if a UE is allowed to access a cell and defines the scheduling of other system information.

Table 4.4.3.2-3: SystemInformationBlockType1

Derivation Path: 36.331 clause 6.2.2			
Information Element	Value/remark	Comment	Condition
SystemInformationBlockType1 ::=			
SEQUENCE {			
cellAccessRelatedInfo SEQUENCE {			
plmn-IdentityList SEQUENCE (SIZE (16))	1 entry		
OF SEQUENCE {			
plmn-Identity[1] SEQUENCE {			
mcc SEQUENCE (SIZE (3)) OF MCC-	See table 4.4.2-2	For NAS test cases, see table	
NMC-Digit		6.3.2.2-1.	
mnc SEQUENCE (SIZE (23)) OF MCC-	See table 4.4.2-2	For NAS test cases, see table	
NMC-Digit		6.3.2.2-1.	
}			
cellReservedForOperatorUse[1]	notReserved		
}			
trackingAreaCode	See table 4.4.2-2	For NAS test cases, see table 6.3.2.2-1.	
cellIdentity	Cell ID for the		
	simulated cell		
cellBarred	notBarred		
intraFreqReselection	notAllowed		
csg-Indication	FALSE		
csg-Identity	Not present		
}			
cellSelectionInfo SEQUENCE {			
q-RxLevMin	-70 (-140 dBm)	For RF/RRM test cases	
	-106 dBm	For signalling test cases	
q-RxLevMinOffset	Not present		
}			
p-Max	Not present		
freqBandIndicator	Operating band		
	under test.		
schedulingInfoList SEQUENCE (SIZE	See subclause		
(1maxSI-Message)) OF SEQUENCE {}	4.4.3.1		
tdd-Config SEQUENCE {}	Not present		FDD
tdd-Config SEQUENCE {}	TDD-Config-	See subclause 4.6.3	TDD
	DEFAULT		
si-WindowLength	ms20	To allow sufficient number of	
		retransmissions.	
systemInfoValueTag	0		
nonCriticalExtension SEQUENCE {			
lateNonCriticalExtension	Not present		
nonCriticalExtension SEQUENCE {			
ims-EmergencySupport-r9	True	Support IMS emergency call in limited service mode.	
cellSelectionInfo-v920 SEQUENCE {}	Not present		
cellSelectionInfo-v920 SEQUENCE {			QBASED
q-QualMin-r9	-20 (-20dB)		
q-QualMinOffset-r9	Not present		
}			
nonCriticalExtension SEQUENCE {	Not present		
tdd-Config-v1130	Not present		
cellSelectionInfo-v1130	Not present		
nonCriticalExtension	Not present		
nonCriticalExtension SEQUENCE {			UECAT0
cellAccessRelatedInfo-v12xy			
SEQUENCE {			
category0Allowed-r12	True	Cat 0 Allowed	
}			

cellSelectionInfo-v12xy	Not present	
nonCriticalExtension	Not present	
}		
}		
}		
}		
}		

Condition	Explanation
FDD	FDD cell environment
TDD	TDD cell environment
QBASED	This condition applies to Quality based cell (re)selection signalling test cases.
UECAT0	This condition applies when UE under test is a UE of Category 0.

4.4.3.3 Common contents of system information blocks

- SystemInformationBlockType2

The IE *SystemInformationBlockType2* contains radio resource configuration information that is common for all UEs.

Table 4.4.3.3-1: SystemInformationBlockType2

Derivation Path: 36.331 clause 6.3.1			
Information Element	Value/remark	Comment	Condition
SystemInformationBlockType2 ::=			
SEQUENCE {			
ac-BarringInfo SEQUENCE {}	Not present		
radioResourceConfigCommon SEQUENCE {}	RadioResourceCo	See subclause 4.6.3	
	nfigCommonSIB-		
	DEFAULT		
ue-TimersAndConstants SEQUENCE {			
t300	ms1000	Typical value in real network	
t301	ms1000	Typical value in real network	
t310	ms1000	Typical value in real network	
n310	n1		
t311	ms10000	Typical value in real network	
n311	n1		
}			
freqInfo SEQUENCE {			
ul-CarrierFreq	Not present	Default UL EARFCN applies	
ul-Bandwidth	Not Present		
additionalSpectrumEmission	1 (NS_01)	A-MPR doesn't apply by	
		default.	
		See TS 36.101 table 6.2.4-1.	
}			
mbsfn-SubframeConfigList	Not present		
mbsfn-SubframeConfigList SEQUENCE			MBMS
(SIZE (1maxMBSFN-Allocations)) OF			
SEQUENCE {			
radioframeAllocationPeriod	n4		
radioframeAllocationOffset	1		FDD
	0		TDD
subframeAllocation CHOICE{			
oneFrame	'100000' B		FDD
	'000010' B		TDD
}			
}			
timeAlignmentTimerCommon	sf750	'sf750' is applicable to the	
		widest range of mobility (up to	
		about 360km/h).	
}			

Condition	Explanation

MBMS	MBMS cell environment
FDD	FDD cell environment
TDD	TDD cell environment

The IE *SystemInformationBlockType3* contains cell re-selection information common for intra-frequency, interfrequency and/or inter-RAT cell re-selection (i.e. applicable for more than one type of cell re-selection but not necessarily all) as well as intra-frequency cell re-selection information other than neighbouring cell related.

Table 4.4.3.3-2: SystemInformationBlockType3

Value/remark	Comment	Condition
	To reduce interference between intra-frequency multiple cells	
Not present		
, ,	real network	
4	A middle value in the range has been selected.	
-70 (-140 dBm)	For RF/RRM test cases	
-106 dBm	For signalling test cases	
Not present		
Not present		
Not present	The downlink bandwidth of the serving cell applies.	
FALSE		
TRUE	At least two cell- specific antenna ports are used in all neighbouring cells.	All neighCells with port1
'01'B (No MBSFN subframes are present in all neighbour cells)	MBSFN doesn't apply by default.	
0	Typical value in real network	
Not present		
Not present		
-20 (-20dB)		QBASED
Not present 3 (3dB)		QBASED
3 (302)		QD/ (OLD
	Not present Not present 0 (0 dB) 4 -70 (-140 dBm) -106 dBm Not present Not present Not present Not present Not present Not present Not present Not present Not present In all neighbour cells) Not present Not present	dB0 To reduce interference between intrafrequency multiple cells Not present Not present Typical value in real network A middle value in the range has been selected. -70 (-140 dBm) For RF/RRM test cases Not present Not present Not present Not present The downlink bandwidth of the serving cell applies. FALSE TRUE At least two cell-specific antenna ports are used in all neighbouring cells. '01'B (No MBSFN subframes are present in all neighbour cells) 0 Typical value in real network MBSFN doesn't apply by default. In the downlink bandwidth of the serving cell applies. True The downlink bandwidth of the serving cell applies. FALSE TRUE At least two cell-specific antenna ports are used in all neighbouring cells. MBSFN doesn't apply by default. In the range has been selected.

Condition	Explanation
QBASED	See the definition below table 4.4.3.2-3.
All neighCells with port1	Used for all neighbouring cells with at least two cell-specific antenna ports

The IE *SystemInformationBlockType4* contains neighbouring cell related information relevant only for intra-frequency cell re-selection. The IE includes cells with specific re-selection parameters as well as blacklisted cells.

Table 4.4.3.3-3: SystemInformationBlockType4

Information Element Value/remark Comment Condition	Derivation Path: 36.331 clause 6.3.1			
intraFreqNeighCellList SEQUENCE (SIZE (1maxCellIntra)) OF SEQUENCE {} Not present Not required unless Qoffset configuration is tested. When Qoffset configuration is tested, see table 6.3.1.1-1. intraFreqBlackCellList SEQUENCE (SIZE (1maxCellBlack)) OF SEQUENCE {} Not present Not required unless Blacklisted cell list configuration is tested. When Blacklisted cell list configuration is tested. When Blacklisted cell list configuration is tested, see table 6.3.1.1-1. csg-PhysCellIdRange SEQUENCE {} Not present NonCSG csg-PhysCellIdRange SEQUENCE {} Not present NonCSG CSG	Information Element	Value/remark	Comment	Condition
(1maxCellIntra)) OF SEQUENCE {} unless Qoffset configuration is tested. When Qoffset configuration is tested, see table 6.3.1.1-1. intraFreqBlackCellList SEQUENCE (SIZE (1maxCellBlack)) OF SEQUENCE {} Not present Not required unless Blacklisted cell list configuration is tested. When Blacklisted cell list configuration is tested. When Blacklisted cell list configuration is tested, see table 6.3.1.1-1. csg-PhysCellIdRange SEQUENCE {} Not present NonCSG CSG				
(1maxCellBlack)) OF SEQUENCE {} unless Blacklisted cell list configuration is tested. When Blacklisted cell list configuration is tested, see table 6.3.1.1-1. csg-PhysCellIdRange SEQUENCE {} Not present NonCSG CSG		Not present	unless Qoffset configuration is tested. When Qoffset configuration is tested, see table	
csg-PhysCellIdRange SEQUENCE { CSG		Not present	unless Blacklisted cell list configuration is tested. When Blacklisted cell list configuration is tested, see table	
	csg-PhysCellIdRange SEQUENCE {}	Not present		
start Physical Cell ID of the	csg-PhysCellIdRange SEQUENCE {			CSG
cell on which this SIB is transmitted	start			
range Not present The UE shall apply value 1 in case the field is absent, in which case only the physical cell identity value indicated by start applies.	range	Not present	apply value 1 in case the field is absent, in which case only the physical cell identity value indicated by start	
}	}			

Condition	Explanation
NonCSG	SIB4 transmitted on a non-CSG cell
CSG	SIB4 transmitted on a CSG cell

SystemInformationBlockType5

The IE *SystemInformationBlockType5* contains information relevant only for inter-frequency cell re-selection i.e. information about other E-UTRA frequencies and inter-frequency neighbouring cells relevant for cell re-selection. The IE includes cell re-selection parameters common for a frequency as well as cell specific re-selection parameters.

Table 4.4.3.3-4: SystemInformationBlockType5

Derivation Path: 36.331 clause 6.3.1			
Information Element	Value/remark	Comment	Condition
SystemInformationBlockType5 ::= SEQUENCE {			
interFreqCarrierFreqList SEQUENCE (SIZE	The same number of	n denotes the	
(1maxFreq)) OF SEQUENCE {	entries as the configured	index of the entry	

	T	I	ı
	inter-freq carriers. For Signalling test cases except NAS, see table 6.3.1.2-1. For NAS test cases when cells are on same PLMN, see table 6.3.2.3.2-1.		
dl-CarrierFreq[n]	Downlink EARFCN under test For Signalling test cases except NAS, see table 6.3.1.2-1. For NAS test cases when cells are on same PLMN, see table 6.3.2.3.2-1.		
q-RxLevMin[n]	-65 (-130 dBm) -106 dBm	For RF/RRM test cases For signalling test	
NA 5.3	1.11	cases	
p-Max[n]	Not present		
t-ReselectionEUTRA[n]	0	Typical value in real network	
t-ReselectionEUTRA-SF[n]	Not present	Not required unless speed-dependent cell reselection is tested.	
threshX-High[<i>n</i>]	2 (4 dB)	This value should be higher than threshServingLow of the serving cell to avoid ping-pong with lower priority cells.	
threshX-Low[n]	1 (2 dB)		
allowedMeasBandwidth[<i>n</i>]	See subclause 4.4.3.4	Channel- bandwidth- dependent parameter	
presenceAntennaPort1[n]	FALSE		
	TRUE	At least two cell- specific antenna ports are used in all neighbouring cells.	All neighCells with port1
cellReselectionPriority[n]	4	The same priority as the one used for serving cell in SIB 3.	
neighCellConfig[n]	'01'B (No MBSFN subframes are present in all neighbour cells)	MBSFN doesn't apply by default.	
q-OffsetFreq[n]	dB0	Q _{offset} doesn't apply by default.	
interFreqNeighCellList[n] SEQUENCE (SIZE (1maxCellInter)) OF SEQUENCE {}	Not present	Not required unless Qoffset configuration is tested.	
interFreqBlackCellList[n] SEQUENCE (SIZE (1maxCellBlack)) OF SEQUENCE {}	Not present	Not required unless Blacklisted cell list configuration is tested.	
q-QualMin-r9[<i>n</i>]	Not present -20 (-20dB)		QBASED
threshX-Q-r9[n] SEQUENCE {}	Not present		
threshX-Q-r9[n] SEQUENCE {			QBASED
threshX-HighQ-r9	5 (5dB)		

threshX-LowQ-r9	5 (5dB)	
}		
}		
}		

Condition	Explanation
QBASED	See the definition below table 4.4.3.2-3.
All neighCells with	Used for all neighbouring cells with at least two cell-specific antenna ports
port1	

The IE *SystemInformationBlockType6* contains information relevant only for inter-RAT cell re-selection i.e. information about UTRA frequencies and UTRA neighbouring cells relevant for cell re-selection. The IE includes cell re-selection parameters common for a frequency.

Table 4.4.3.3-5: SystemInformationBlockType6

Derivation Path: 36.331 clause 6.3.1			
Information Element	Value/remark	Comment	Condition
SystemInformationBlockType6 ::= SEQUENCE {			
carrierFreqListUTRA-FDD SEQUENCE (SIZE	Not present		UTRA-TDD
(1maxUTRA-FDD-Carrier)) OF SEQUENCE {}			
carrierFreqListUTRA-FDD SEQUENCE (SIZE	The same number of	n denotes the	UTRA-FDD
(1maxUTRA-FDD-Carrier)) OF SEQUENCE {	entries as the configured	index of the entry	
	UTRA FDD carriers		
	For Signalling test cases,		
	see table 6.3.1.3-1		
carrierFreq[<i>n</i>]	Downlink UARFCN under		
	test		
	For Signalling test cases, see table 6.3.1.3-1		
cellReselectionPriority[n]	3		
threshX-High[n]	2 (4 dB)		
threshX-Low[n]	1 (2 dB)		
q-RxLevMin[n]	-40 (-79 dBm)	The same value	
q TXXLGVIVIIII[I/]	40 (73 dBill)	as defined in TS	
		34.108 [5], table	
		6.1.1.	
p-MaxUTRA[n]	21 (21 dBm)	The same value	
	,	as defined in TS	
		34.108 [5], table	
		6.1.1.	
q-QualMin[<i>n</i>]	-24 (-24 dB)	The same value	
		as defined in TS	
		34.108 [5], table	
# 1 V O OF 1 OF OUT NOT ()	N	6.1.1.	
threshX-Q-r9[n] SEQUENCE {}	Not present		ODAGED
threshX-Q-r9[n] SEQUENCE {			QBASED
threshX-HighQ-r9	9 (9dB)		
threshX-LowQ-r9	9 (9dB)		
}	3 (3dB)		
}			
carrierFreqListUTRA-TDD SEQUENCE (SIZE	Not present		UTRA-FDD
(1maxUTRA-TDD-Carrier)) OF SEQUENCE {}			
carrierFreqListUTRA-TDD SEQUENCE (SIZE	The same number of	n denotes the	UTRA-TDD
(1maxUTRA-TDD-Carrier)) OF SEQUENCE {	entries as the configured	index of the entry	
,	UTRA TDD carriers		
	For Signalling test cases,		
	see table 6.3.1.3-1		
carrierFreq[<i>n</i>]	Downlink UARFCN under		
	test		
	For Signalling test cases,		
	see table 6.3.1.3-1		

cellReselectionPriority[n]	3	
threshX-High[n]	2 (4 dB)	
threshX-Low[n]	1 (2 dB)	
q-RxLevMin[<i>n</i>]	-41 (-81 dBm)	The same value as defined in TS 34.108 [5], table 6.1.6a
p-MaxUTRA[<i>n</i>]	21 (21 dBm)	The same value as defined in TS 34.108 [5], table 6.1.6a
}		
t-ReselectionUTRA	0	Typical value in real network
t-ReselectionUTRA-SF	Not present	
}		

Condition	Explanation
UTRA-FDD	UTRA FDD cell environment
UTRA-TDD	UTRA TDD cell environment
QBASED	See the definition below table 4.4.3.2-3.

Editor's note: Need for condition 'UTRA-FDD-TDD' where both UTRA FDD cell and UTRA TDD cell exist simultaneously is FFS.

- SystemInformationBlockType7

The IE *SystemInformationBlockType7* contains information relevant only for inter-RAT cell re-selection i.e. information about GERAN frequencies relevant for cell re-selection. The IE includes cell re-selection parameters for each frequency.

Table 4.4.3.3-6: SystemInformationBlockType7

Derivation Path: 36.331 clause 6.3.1			
Information Element	Value/remark	Comment	Condition
SystemInformationBlockType7 ::= SEQUENCE {			
t-ReselectionGERAN	0		
t-ReselectionGERAN-SF	Not present		
carrierFreqsInfoListSEQUENCE (SIZE	The same number of	n denotes the	
(1maxGNFG)) OF SEQUENCE {	entries as the configured	index of the entry	
	GERAN carriers	,	
	For RRM test cases, see		
	table 7.2.2.1-1		
	For Signalling test cases,		
	see table 6.3.1.4-1		
carrierFreqs [n] SEQUENCE {			
startingARFCN[n]	Set the corresponding		
	starting ARFCN of the		
	GERAN cells under test.		
	For RRM test cases, see		
	table 7.2.2.1-1		
	For Signalling test cases,		
	see table 6.3.1.4-1		
bandIndicator[n]	Set according to the		
	band used for GERAN		
faller de la DEON-Lei OLIOIOE (cells under test		
followingARFCNs[n] CHOICE {	0-4 45		
explicitListOfARFCNs[n]	Set the corresponding		
	ARFCN of GERAN cells under test		
	For RRM test cases, see		
	table 7.2.2.1-1		
	For Signalling test cases,		
	see table 6.3.1.4-1		
}	000 14010 0.0.1.11		
}			
commonInfo[n] SEQUENCE {			
cellReselectionPriority[n]	2		
ncc-Permitted[n]	'01000000'B	NCC=1 permitted	
q-RxLevMin[n]	2		
p-MaxGERAN[<i>n</i>]	0		
threshX-High[n]	2		
threshX-Low[n]	2		
}			
}			
}			

The IE *SystemInformationBlockType8* contains information relevant only for inter-RAT cell re-selection i.e. information about CDMA2000 frequencies and CDMA2000 neighbouring cells relevant for cell re-selection. The IE includes cell re-selection parameters common for a frequency as well as cell specific re-selection parameters.

Table 4.4.3.3-7: SystemInformationBlockType8

Derivation Path: 36.331 clause 6.3.1			
Information Element	Value/remark	Comment	Condition
SystemInformationBlockType8 ::= SEQUENCE {			
systemTimeInfo SEQUENCE {			
cdma-EUTRA-Synchronisation	TRUE		
cdma-SystemTime CHOICE {			
synchronousSystemTime	A valid value as per TS 36.331 and calculated by the SS		
}			
}			

a a a rah Window Cino		1	
searchWindowSize parametersHRPD SEQUENCE {}	5 Not present		1XRTT
parametersHRPD SEQUENCE {	Not present		HRPD
preRegistrationInfoHRPD SEQUENCE {			TIKLE
preRegistrationAllowed	FALSE		
preRegistrationZoneId	Not present		
secondaryPreRegistrationZoneldList	Not present		
}			
cellReselectionParametersHRPD SEQUENCE {			
bandClassList SEQUENCE (SIZE (1maxCDMA	1 entry		
-BandClass)) OF SEQUENCE {			
bandClass	Operating band class under test.	ENUMERATED (bc0, bc1, bc2, bc3, bc4, bc5, bc6, bc7, bc8, bc9, bc10, bc11, bc12, bc13, bc14, bc15, bc16, bc17, spare14, spare13, spare12, spare11, spare8, spare9, spare8, spare5, spare4, spare1, spare10, spare10, spare5, spare4, spare3, spare2, spare1,	
		}	
cellReselectionPriority	1	INITEGED (2. 22)	
threshX-High	30(-30)	INTEGER (063)	
threshX-Low	32(-32)	INTEGER (063)	
neighCellList SEQUENCE (SIZE (116)) OF SEQUENCE {	1 entry		
bandClass	Operating band class under test	ENUMERATED {bc0, bc1, bc2, bc3, bc4, bc5, bc6, bc7, bc8, bc9, bc10, bc11, bc12, bc13, bc14, bc15, bc16, bc17, spare14, spare13, spare12, spare11, spare10, spare9, spare8, spare7, spare6, spare5, spare4, spare1,}	
neighCellsPerFreqList SEQUENCE (SIZE (116)) OF SEQUENCE {	The same number of entries as the configured CDMA2000 HRPD frequencies For Signalling test cases, see table 6.3.1.5-1	n denotes the index of the entry	
arfcn[n]	ARFCN of the CDMA2000 HRPD frequency For Signalling test cases, see table 6.3.1.5-1	INTEGER (02047)	
physCellIdList[n] SEQUENCE (SIZE (116)) OF {INTEGER (0maxPNOffset) }	Physical Cell ID List of the CDMA2000 HRPD frequency For Signalling test cases, see table 6.3.1.5-1	INTEGER (0maxPNOffset)	
}			
t-ReselectionCDMA2000	0	INTEGED (0. 7)	
t-ReselectionCDMA2000 t-ReselectionCDMA2000-SF	Not Present	INTEGER (07)	
についさらではいいしいいいれたといい。	THULFIESCHL		1

1	T	1	
<i>f</i>			
parameters1XRTT SEQUENCE {}	Not present		HRPD
parameters1XRTT SEQUENCE {			1XRTT
csfb-RegistrationParam1XRTT SEQUENCE {			
IongCodeState1XRTT	A valid value, calculated and updated by the SS	BIT STRING (SIZE (42)) OPTIONAL	
cellReselectionParameters1XRTT SEQUENCE {			
bandClassList SEQUENCE (SIZE (1maxCDMA -BandClass)) OF SEQUENCE {	1 entry		
bandClass	Operating band class under test	ENUMERATED {bc0, bc1, bc2, bc3, bc4, bc5, bc6, bc7, bc8, bc9, bc10, bc11, bc12, bc13, bc14, bc15, bc16, bc17, spare14, spare13, spare12, spare11, spare10, spare9, spare8, spare7, spare6, spare5, spare4, spare1,}	
cellReselectionPriority	0		
threshX-High	30(-30)	INTEGER (063)	
threshX-Low	32(-32)	INTEGER (063)	
}		, ,	
neighCellList SEQUENCE (SIZE (116)) OF SEQUENCE {	1 entry		
bandClass	Operating band class under test	ENUMERATED {bc0, bc1, bc2, bc3, bc4, bc5, bc6, bc7, bc8, bc9, bc10, bc11, bc12, bc13, bc14, bc15, bc16, bc17, spare14, spare13, spare12, spare9, spare8, spare7, spare6, spare5, spare4, spare1,}	
neighCellsPerFreqList SEQUENCE (SIZE (116)) OF SEQUENCE {	The same number of entries as the configured CDMA2000 1xRTT frequencies For Signalling test cases, see table 6.3.1.6-1	n denotes the index of the entry	
arfcn[n]	ARFCN of the CDMA2000 1xRTT frequency For Signalling test cases, see table 6.3.1.6-1	INTEGER (02047)	
physCellIdList[n] SEQUENCE (SIZE (116)) OF {INTEGER (0maxPNOffset) }	Physical Cell ID List of the CDMA2000 1xRTT frequency For Signalling test cases, see table 6.3.1.6-1	INTEGER (0maxPNOffset)	
}			
t-ReselectionCDMA2000	0	INTEGER (07)	
t-ReselectionCDMA2000 t-ReselectionCDMA2000-SF	Not Present	HAILGEN (U/)	
1-1/23010011011011VIAZ000*3F	INOLI IESEIIL	1	1

}		
}		
}		

Condition	Explanation	
HRPD	CDMA2000 HRPD cell environment	
1XRTT	CDMA2000 1XRTT cell environment	

Editor's note: Need for condition 'HRPD-1XRTT' where both CDMA2000 HRPD cell and CDMA2000 1xRTT cell exist simultaneously is FFS.

SystemInformationBlockType9

The IE SystemInformationBlockType9 contains a home eNB name (HNB Name).

Table 4.4.3.3-8: SystemInformationBlockType9

Derivation Path: 36.331 clause 6.3.1			
Information Element	Value/remark	Comment	Condition
SystemInformationBlockType9 ::= SEQUENCE {			
hnb-Name	"3gppTest"		
}			

SystemInformationBlockType10

The IE SystemInformationBlockType10 contains an ETWS primary notification.

Table 4.4.3.3-9: SystemInformationBlockType10

Derivation Path: 36.331 clause 6.3.1			
Information Element	Value/remark	Comment	Condition
SystemInformationBlockType10 ::= SEQUENCE {			
messageIdentifier	'0001 0001 0000 0010'B	ETWS message identifier for earthquake and tsunami message [see TS 23.041]	
serialNumber	'0011 0000 0000 0000'B		
- Geographical Scope (2 bit)	Octet 1 bit 7 ~ 6	Cell wide;	
- Message Code (10 bit)	Octet 1 bit 5 ~ Octet 2 bit 4	'11 0000 0000'B	
- Emergency User Alert (1 bit)	Octet 1 bit 5	Activate emergency user alert;	
- Popup (1 bit)	Octet 1 bit 4	Activate popup;	
- Update Number (4 bit)	Octet 2 bit 3 ~ 0	For each update, incremented by one. [see TS 23.041]	
warningType	'0000 0101 1000 0000'B		
- Warning Type Value (7 bit)	Octet 1 bit 7 ~ 1	Earthquake and Tsunami;	
- Emergency User Alert (1 bit)	Octet 1 bit 0	Activate emergency user alert;	
- Popup (1 bit)	Octet 2 bit 7	Activate Popup. [see TS 23.041]	
- Padding (7 bit)	Octet 2 bit 6 ~ bit 0	'000 0000'B	
warningSecurityInfo	Not present		
}			

The IE SystemInformationBlockType11 contains an ETWS secondary notification.

Table 4.4.3.3-10: SystemInformationBlockType11 (1st Segment)

Derivation Path: 36.331 clause 6.3.1			
Information Element	Value/remark	Comment	Condition
SystemInformationBlockType11 ::= SEQUENCE {			
messageldentifier	'0001 0001 0000 0010'B	ETWS message identifier for earthquake and tsunami message [see TS 23.041]	
serialNumber	'0011 0000 0000 0000'B		
- Geographical Scope (2 bit)	Octet 1 bit 7 ~ 6	Cell wide;	
- Message Code (10 bit)	Octet 1 bit 5 ~ Octet 2 bit 4	'11 0000 0000'B	
- Emergency User Alert (1 bit)	Octet 1 bit 5	Activate emergency user alert;	
- Popup (1 bit)	Octet 1 bit 4	Activate popup;	
- Update Number (4 bit)	Octet 2 bit 3 ~ 0	For each update, incremented by one. [see TS 23.041]	
warningMessageSegmentType	notLastSegment		
warningMessageSegmentNumber	0		
warningMessageSegment	Octetstring of N	where N ≥ 1 and less than 1246. [see TS 23.041]	
dataCodingScheme	Bitstring (8) ID of the alphabet/coding and the applied language [see TS 23.041]		
}			

Table 4.4.3.3-11: SystemInformationBlockType11 (2nd Segment)

Derivation Path: 36.331 clause 6.3.1			
Information Element	Value/remark	Comment	Condition
SystemInformationBlockType11 ::= SEQUENCE {			
messageldentifier	'0001 0001 0000 0010'B	ETWS message identifier for earthquake and tsunami message [see TS 23.041]	
serialNumber	'0011 0000 0000 0000'B		
- Geographical Scope (2 bit)	Octet 1 bit 7 ~ 6	Cell wide;	
- Message Code (10 bit)	Octet 1 bit 5 ~ Octet 2 bit 4	'11 0000 0000'B	
- Emergency User Alert (1 bit)	Octet 1 bit 5	Activate emergency user alert;	
- Popup (1 bit)	Octet 1 bit 4	Activate popup;	
- Update Number (4 bit)	Octet 2 bit 3 ~ 0	For each update, incremented by one. [see TS 23.041]	
warningMessageSegmentType	notLastSegment		
warningMessageSegmentNumber	1		
warningMessageSegment	Octetstring of N	where N ≥ 1 and less than 1246. [see TS 23.041]	
dataCodingScheme	Not present		
}			

Table 4.4.3.3-12: SystemInformationBlockType11 (3rd Segment)

Derivation Path: 36.331 clause 6.3.1			
Information Element	Value/remark	Comment	Condition
SystemInformationBlockType11 ::= SEQUENCE {			
messageldentifier	'0001 0001 0000 0010'B	ETWS message identifier for earthquake and tsunami message [see TS 23.041]	
serialNumber	'0011 0000 0000 0000'B		
- Geographical Scope (2 bit)	Octet 1 bit 7 ~ 6	Cell wide;	
- Message Code (10 bit)	Octet 1 bit 5 ~ Octet 2 bit 4	'11 0000 0000'B	
- Emergency User Alert (1 bit)	Octet 1 bit 5	Activate emergency user alert;	
- Popup (1 bit)	Octet 1 bit 4	Activate popup;	
- Update Number (4 bit)	Octet 2 bit 3 ~ 0	For each update, incremented by one. [see TS 23.041]	
warningMessageSegmentType	lastSegment		
warningMessageSegmentNumber	2		
warningMessageSegment	Octetstring of N	where N ≥ 1 and less than 1246. [see TS 23.041]	
dataCodingScheme	Not present		
}			

The IE SystemInformationBlockType12contains an CMAS notification.

Table 4.4.3.3-12a: SystemInformationBlockType12 (1st Segment)

Derivation Path: 36.331 clause 6.3.1			
Information Element	Value/remark	Comment	Condition
SystemInformationBlockType11 ::= SEQUENCE {			
messageldentifier-r9	'0001 0001 0001 0010'B	CMAS CBS Message Identifier for CMAS Presidential Level Alerts (see TS 23.041])	
serialNumber-r9	'0011 0000 0000 0000'B	-	
warningMessageSegmentType	notLastSegment		
warningMessageSegmentNumber	0		
warningMessageSegment	Octetstring of N	where N ≥ 1 and less than 1246. (see TS 23.041)	
dataCodingScheme	-Bitstring (8) ID of the alphabet/coding and the applied language [see TS 23.041]	Provided as PIXITs [see TS 36.523-3 [20] cl. 9]	
lateNonCriticalExtension }	Not present		

Table 4.4.3.3-12b: SystemInformationBlockType12 (2nd Segment)

Derivation Path: 36.331 clause 6.3.1			
Information Element	Value/remark	Comment	Condition
SystemInformationBlockType11 ::= SEQUENCE {			
messageIdentifier-r9	'0001 0001 0001 0010'B	CMAS CBS Message Identifier for CMAS Presidential Level Alerts (see TS 23.041)	
serialNumber-r9	'0011 0000 0000 0000'B		
warningMessageSegmentType	notLastSegment		
warningMessageSegmentNumber	1		
warningMessageSegment	Octetstring of N	where N ≥ 1 and less than 1246. (see TS 23.041)	
dataCodingScheme	Not present		
lateNonCriticalExtension	Not present		
}			

Table 4.4.3.3-12c: SystemInformationBlockType12 (3rd Segment)

Derivation Path: 36.331 clause 6.3.1			
Information Element	Value/remark	Comment	Condition
SystemInformationBlockType11 ::= SEQUENCE {			
messageIdentifier-r9	'0001 0001 0001 0010'B	CMAS CBS Message Identifier for CMAS Presidential Level Alerts (see TS 23.041)	
serialNumber-r9	'0011 0000 0000 0000'B		
warningMessageSegmentType	lastSegment		
warningMessageSegmentNumber	2		
warningMessageSegment	Octetstring of N	where N ≥ 1 and less than 1246. (see TS 23.041)	
dataCodingScheme	Not present		
lateNonCriticalExtension }	Not present		

The IE *SystemInformationBlockType13* contains the information required to acquire the MBMS control information associated with one or more MBSFN areas.

Table 4.4.3.3-13: SystemInformationBlockType13

Derivation Path: 36.331 clause 6.3.1			
Information Element	Value/remark	Comment	Condition
SystemInformationBlockType13 ::= SEQUENCE {			
mbsfn-AreaInfoList-r9 SEQUENCE			
(SIZE(1maxMBSFN-Area)) OF SEQUENCE {			
mbsfn-Areald-r9	0		
non-MBSFNregionLength	2		
notificationIndicator-r9	0		
mcch-Config-r9 SEQUENCE {			
mcch-RepetitionPeriod-r9	rf32		
mcch-Offset-r9	1		FDD
	0		TDD
mcch-ModificationPeriod-r9	rf512		
sf-AllocInfo-r9	'100000'B		FDD
	'000010'B		TDD
signallingMCS-r9	n2		
}			
}			
notificationConfig-r9 SEQUENCE {			
notificationRepetitionCoeff-r9	n4		
notificationOffset-r9	1		FDD
	0		TDD
notificationSF-Index-r9	1	Subframe #1	FDD
	5	Subframe #9	TDD
}			
}			

Condition	Explanation
FDD	FDD cell environment
TDD	TDD cell environment

SystemInformationBlockType14

The IE SystemInformationBlockType14 contains the EAB parameters.

Table 4.4.3.3-13A: SystemInformationBlockType14

Derivation Path: 36.331 clause 6.3.1			
Information Element	Value/remark	Comment	Condition
SystemInformationBlockType14-r11 ::= SEQUENCE			
{			
eab-Param-r11 CHOICE {			
EAB-Config-r11 ::= SEQUENCE {			
eab-Category-r11	а	EAB applies to all UEs in the PLMN ENUMERATED {a, b, c}	
eab-BarringBitmap-r11	'1111111111'B	All UE classes 0-9 BIT STRING (SIZE (10))	
}			
}			
lateNonCriticalExtension	Not Present		
}			

The IE *SystemInformationBlockType15* contains the MBMS Service Area Identities (SAI) of the current and/ or neighbouring carrier frequencies.

Table 4.4.3.3-14: SystemInformationBlockType15

Derivation Path: 36.331 clause 6.3.1			
Information Element	Value/remark	Comment	Condition
SystemInformationBlockType15 ::= SEQUENCE {			
mbms-SAI-IntraFreq-r11[1] SEQUENCE (SIZE (1maxSAI-MBMS-r11)) OF { INTEGER (065535) }	1	1 entry INTEGER (065535)	
mbms-SAI-InterFreqList-r11	Not present		MBMS_intra Freq
mbms-SAI-InterFreqList-r11[n] SEQUENCE (SIZE (1maxFreq)) OF SEQUENCE {	The same number of entries as the configured inter-freq carriers providing the MBMS service in the test case (including additional bands, if any)	n denotes the index of the entry	MBMS_inter Freq,
dl-CarrierFreq-r11	Downlink EARFCN under test, see table 6.3.1.2-1.		
mbms-SAI-List-r11[<i>n</i>] SEQUENCE (SIZE (1maxSAI-MBMS-r11)) OF { INTEGER (065535) }	The same number of entries as the configured MBMS SAIs providing the MBMS service in the test case for the specific frequency	n denotes the index of the entry INTEGER (065535)	
lateNonCriticalExtension	Not present		MBMS_intra Freq, MBMS_inter Freq,

Condition	Explanation
MBMS_intraFreq	SIB15 transmitted for a MBMS intra-band cell environment (MBMS service only provided for intra-frequency cells).
MBMS_interFreq	SIB15 transmitted for a MBMS inter-frequency cell environment (MBMS service provided
·	on multiple frequencies within a band).

The IE SystemInformationBlockType17 contains information relevant for RAN Assisted WLAN interworking

Table 4.4.3.3-15: SystemInformationBlockType17

Derivation Path: 36.331 clause 6.3.1			
Information Element	Value/remark	Comment	Condition
SystemInformationBlockType17-r12 ::= SEQUENCE {			
wlan-OffloadInfoPerPLMN-List-r12 [1] SEQUENCE (SIZE (1maxPLMN-r11)) OF {		1 Entry	
wlan-OffloadConfigCommon-r12	WLAN-OffloadConfig- DEFAULT		
wlan-ld-List-r12 [1] SEQUENCE (SIZE		1 Entry	
(1maxWLAN-ld-r12)) OF {			
wlan-Identifiers SEQUENCE{			
ssid-r12	Set as per Table 4.4.8-1	OCTET STRING (SIZE (132)) Service Set Identifier (SSID) defined in IEEE 802.11-2012	
bssid-r12	Not present		
hessid-r12	Not present		
}			
}			
}			
lateNonCriticalExtension	Not present		
}			

- SystemInformationBlockType18

The IE SystemInformationBlockType18 contains the resource pool information for sidelink direct communication.

Table 4.4.3.3-16: SystemInformationBlockType18

Derivation Path: 36.331 clause 6.3.1			
Information Element	Value/remark	Comment	Condition
SystemInformationBlockType18 ::= SEQUENCE {			
commConfig-r12 SEQUENCE {			
commRxPool-r12	A valid configuration as per TS 36.331	sidelink direct communication reception pool	
commTxPoolNormalCommon-r12	Not present	sidelink direct communication transmission pool for UE autonomous resource selection mode only	
commTxPoolExceptional-r12	A valid configuration as per TS 36.331	sidelink direct communication transmission pool for scheduled resource allocation mode only	
commSyncConfig-r12	A valid configuration as per TS 36.331	Synchronization configuration	
lateNonCriticalExtension	Not present		

The IE SystemInformationBlockType19 contains the resource pool information for sidelink direct discovery.

Table 4.4.3.3-17: SystemInformationBlockType19

Derivation Path: 36.331 clause 6.3.1		T	
Information Element	Value/remark	Comment	Condition
SystemInformationBlockType19 ::= SEQUENCE {			
discConfig-r12 SEQUENCE {			
discRxPool-r12	A valid configuration as per TS 36.331	sidelink direct discovery reception pool	
discTxPoolCommon-r12	Not present	sidelink direct discovery transmission pool for UE autonomous resource selection mode only	
discTxPowerInfo-r12 SEQUENCE {}	Not Present		
discTxPowerInfo-r12 SEQUENCE {			Tx
	0	Value for Short range sidelink direct discovery	
	12	Value for Medium range sidelink direct discovery	
	23	Value for Long range sidelink direct discovery	
}			
discSyncConfig-r12	Not present		
}			
lateNonCriticalExtension	Not present		
}	<u> </u>		

Conditional presence	Explanation
Tx	The field is mandatory present if <i>discTxPoolCommon</i> is included. Otherwise the field is
	optional present, need OR.

4.4.3.4 Channel-bandwidth-dependent parameters in system information blocks

The default values of parameters in system information blocks which depend on the channel bandwidth are defined in table 4.4.3.4-1.

Table 4.4.3.4-1: Channel-bandwidth-dependent parameters

Information				Comment			
Element	1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20MHz	
SIB3	64	64	32	32	32	32	
periodicity							
SIB4	128	128	64	64	64	64	
periodicity							
SIB5	128	128	64	64	64	64	
periodicity							
SIB6	128	128	64	64	64	64	
periodicity							
SIB7	128	128	64	64	64	64	
periodicity							
SIB8	128	128	64	64	64	64	
periodicity							
measurement	mbw6	mbw15	mbw25	mbw50	mbw75	mbw100	
Bandwidth in							
SIB5							
SIB9	128	128	64	64	64	64	
periodicity							
SIB10	64	64	32	32	32	32	
periodicity							
SIB11	64	64	32	32	32	32	
periodicity							
SIB12	64	64	32	32	32	32	
periodicity							
SIB13	64	64	32	32	32	32	
periodicity							
SIB15	64	64	32	32	32	32	
periodicity							
SIB17	128	128	64	64	64	64	
periodicity							
SIB18			32	32	-	32	
periodicity							
SIB19			64	64	64	64	
periodicity							

4.4.4 Common parameters for simulated UTRA cells

The parameters specified in this subclause apply to all simulated UTRA cells unless otherwise specified.

Default UTRA parameters for simulated cells are specified in table 4.4.4-1 and table 4.4.4-2.

Other parameters are specified in TS 34.108 [5].

Table 4.4.4-1: Default parameters for simulated UTRA cells

cell ID	Primary scrambling code for FDD	Cell parameters ID for TDD
Cell 5	100	0
Cell 7	150	4
Cell 8	200	8
Cell 9	250	12

Table 4.4.4-2: Default NAS parameters for simulated UTRA cells

PL	PLMN		Location Area Identification		g Area ication	TMSI	P-TMSI signature
MCC	MNC	LA#	LAC	RA#	RAC		

Cell 5	(Note 1)	LAI-1	1	RAI-1	1	Arbitrarily selected	Arbitrarily selected				
Cell 7	(Note 1)	LAI-1	1	RAI-1	1	according to	according to				
Cell 8	(Note 1)	LAI-1	1	RAI-1	1	TS 23.003	TS 23.003				
Cell 9	(Note 1)	LAI-1	1	RAI-1	1	subclause 2.4 [2].	subclause 2.7 [2].				
Note 1:	Con C (Moto I)										

4.4.4.1 Common contents of system information blocks for UTRA cells

- System Information Block type 19

The system information block type 19 contains Inter-RAT frequency and priority information to be used in the cell.

Table 4.4.4.1-1: System Information Block type 19

Derivation Path: 25.331 clause 11.3			
Information Element	Value/remark	Comment	Condition
SysInfoType19 ::= SEQUENCE {			
utra-PriorityInfoList SEQUENCE {			
utra-ServingCell SEQUENCE {			
priority	3		
s-PrioritySearch1	0 (0dB)		
s-PrioritySearch2	Not present	default value is 0	
threshServingLow	0 (0dB)		
}			
utran-FDD-FrequencyList SEQUENCE	Not present		
(SIZE(1maxNumFDDFreqs)) OF SEQUENCE {}			
utran-TDD-FrequencyList SEQUENCE	Not present		
(SIZE(1maxNumTDDFreqs)) OF SEQUENCE {}			
gsm-PriorityInfoList SEQUENCE (SIZE	Not present		
(1maxNumGSMCellGroup)) OF SEQUENCE {}			
eutra-FrequencyAndPriorityInfoList SEQUENCE	The same number of	n denotes the	ļ ļ
(SIZE (1maxNumEUTRAFreqs)) OF SEQUENCE	entries as the configured	index of the entry	
	eutra carriers		
	For Signalling test cases,		
	see table 6.3.1.7-1		
earfcn[n]	Downlink EARFCN under		
	test		
	For Signalling test cases, see table 6.3.1.7-1		
measurementBandwidth[n]	Set according to EUTRA		
measurementbandwidth[n]	band ChBw in Table 5.6-		
	1 of TS36.104.		
priority[n]	4		
qRxLevMinEUTRA[n]	-53 (-106 dBm)	For signalling test	
qrozerranzerra (m	00 (100 dBiii)	cases	
	-70 (-140 dBm)	For RF/RRM test	
	' ' (' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	cases	
threshXhigh[n]	2 (4 dB)		
threshXlow[n]	1 (2 dB)		
eutra-blackListedCellList[n]	Not present		
eutraDetection[n]	TRUE		
}			
v920NonCriticalExtensions SEQUENCE {}	Not present		
v920NonCriticalExtensions SEQUENCE {			QBASED
sysInfoType19-v920ext SEQUENCE {	_		
utra-PriorityInfoList-v920ext SEQUENCE {			
threshServingLow2	7 (7dB)	default value is 0	
}			
eutra-FrequencyAndPriorityInfoList-v920ext			
(SIZE (1maxNumEUTRAFreqs)) OF SEQUENCE {			
qQualMinEUTRA[n]	-20 (-20dB)		
threshXhigh2[n]	5 (5dB)		
threshXlow2[n]	5 (5dB)		
}			
}			
nonCriticalExtensions SEQUENCE {}	Not present		
}			
}			

Condition	Explanation
QBASED	See the definition below table 4.4.3.2-3.

4.4.4.2 UTRA SIB scheduling for inter EUTRA - UTRA test

Table 4.4.4.2-1: UTRA SIB schedule

Block	MIB	SB1	SIB1	SIB2	SIB3	SIB4	SIB5/SIB5bis	SIB6	SIB7	SIB11	SIB12	SIB18	SIB19
Type													
SIB_REP	8	16	64	64	64	64	64	64	16	64	64	64	64
SEG_	1	1	1	1	1	1	4	4	1	3	1	1	2
COUNT													

Table 4.4.4.2-2: UTRA SIB-repeat period

Frame No / SIB_POS	0	2	4	6	8	10	12	14
Block Type	MIB	SB1	SIB7	SIB6	MIB	SIB6	SIB6	SIB6
Frame No / SIB_POS	16	18	20	22	24	26	28	30
Block Type	MIB	SB1	SIB7/SIB3	SIB1/SIB2	MIB	SIB12	SIB19	SIB19
Frame No / SIB_POS	32	34	36	38	40	42	44	46
Block Type	MIB	SB1	SIB7/SIB18	SIB5/	MIB	SIB5/	SIB5/	SIB5/
				SIB5bis		SIB5bis	SIB5bis	SIB5bis
Frame No / SIB_POS	48	50	52	54	56	58	60	62
Block Type	MIB	SB1	SIB7/SIB4	-	MIB	SIB11	SIB11	SIB11

4.4.4.3 UTRA SIB scheduling for inter EUTRA – UTRA - GERAN test

Table 4.4.4.3-1: UTRA SIB schedule

Block Type	MIB	SB1	SIB1	SIB2	SIB3	SIB4	SIB5/ SIB5bis	SIB7	SIB11	SIB16	SIB18	SIB19
SIB Rep	8	16	128	128	64	64	128	32	128	128	128	128
Max. No of seq.	1	2	1	1	1	1	4	1	3	8	1	3

Table 4.4.4.3-2: UTRA SIB-repeat period

Frame No / SIB_POS	0	2	4	6	8	10	12	14
Block Type	MIB	SB1	SB1	-	MIB	SIB1	SIB18	SIB2
	•	•						
Frame No / SIB_POS	16	18	20	22	24	26	28	30
Block Type	MIB	SB1	SB1	SIB7	MIB	SIB3	-	SIB4
Frame No / SIB_POS	32	34	36	38	40	42	44	46
Block Type	MIB	SB1	SB1	SIB5/ SIB5bis	MIB	SIB5/ SIB5bis	SIB5/ SIB5bis	SIB5/ SIB5bis
Frame No / SIB_POS	48	50	52	54	56	58	60	62
Block Type	MIB	SB1	SB1	SIB7	MIB	SIB11	SIB11	SIB11
Frame No / SIB_POS	64	66	68	70	72	74	76	78
Block Type	MIB	SB1	SB1	SIB16	MIB	SIB16	SIB16	SIB16
Frame No / SIB_POS	80	82	84	86	88	90	92	94
Block Type	MIB	SB1	SB1	SIB7	MIB	SIB3	SIB19	SIB4
Frame No / SIB_POS	96	98	100	102	104	106	108	110
Block Type	MIB	SB1	SB1	SIB16	MIB	SIB16	SIB16	SIB16
Frame No / SIB_POS	112	114	116	118	120	122	124	126
Block Type	MIB	SB1	SB1	SIB7	MIB	SIB19	SIB19	-

4.4.5 Common parameters for simulated GERAN cells

The parameters specified in this subclause apply to all simulated GERAN cells unless otherwise specified.

See TS 51.010 [25].

The contents of SYSTEM INFORMATION TYPE 2 Quarter message specified below are identical for all GERAN cells.

Table 4.4.5-1: System Information 2 Quater

Derivation Path: 44.018 Table 10.5.2.33b.1			
Information Element	Value/remark	Comment	Condit ion
System information 2Quater			
L2 pseudo length	1		
PROTOCOL DISCRIMINATOR	'0110'B	RR management Protocol	
SKIP INDICATOR	'0000'B		
MESSAGE TYPE	'00000111'B		
SI 2QUATER REST OCTETS			
BA Indicator	0		
3G BA Indicator	0		
MP Change Mark	0		
SI2Q Index	0		
SI2Q Count	0		
Measurement_Parameters Description	0	Not Present	
GPRS_Real Time Difference Description	0	Not Present	
GPRS_BSIC Description	0	Not Present	
GPRS_REPORT PRIORITY Description	0	Not Present	

ODDO MENCUPEMENT D		In the
GPRS_MEASUREMENT_Parameters Description	0	Not Present
NC Measurement Parameters	0	Not Present
extension length	0	Not Present
3G Neighbour Cell Description	0	Not Present
3G Measurement Parameters Description	0	Not Present
GPRS_3G_MEASUREMENT Parameters	0	Not Present
Description		
Additions in release 5	Н	
3G Additional Measurement Parameters	0	Not Present
Description		
3G ADDITIONAL MEASUREMENT Parameters	0	Not Present
Description 2		
Additions in release 6	Н	
3G_CCN_ACTIVE	0	
Additions in release 7	Н	
700_REPORTING_OFFSET	0	Not Present
810 REPORTING OFFSET	0	Not Present
Additions in release 8	H	
Priority and E-UTRAN Parameters Description	1	Present
Serving Cell Priority Parameters Description	1	Present
Serving Cell Filonty Farameters Description	'	i lesent
		Note : Values as
		defined from TS
		45.008, section 10.4
		1
OFDAN, BRIODITY		Table 3
GERAN_PRIORITY	2	
THRESH_Priority_Search	15 (always)	
THRESH_GSM_low	0	
H_PRIO	0	
T_Reselection	0	
3G Priority Parameters Description	0	Not Present
E-UTRAN Parameters Description	1	Present
E-UTRAN_CCN_ACTIVE	0	CCN not supported
E-UTRAN_Start	1	
E-UTRAN_Stop	1	
E-UTRAN Measurement Parameters Description	0	Not Present
GPRS E-UTRAN Measurement Parameters	0	Not Present
Description		
Repeated E-UTRAN Neighbour Cells	1	Present
{	·	
EARFCN	Same as cell 1	This field specifies the
271111 011		E-UTRA Absolute
		Radio Frequency
		Channel Number as
		defined in
		3GPP TS 36.104.
Measurement Bandwidth	Set according to EUTRA	
	band under test	
E-UTRAN_PRIORITY	'100'B	Same as cell 1 as
		defined in
		3GPP TS 36.104.
THRESH_E-UTRAN_high	'00010'B	Actual value =4 dB
THRESH_E-UTRAN_low	'00010'B	Actual value =4 dB
E-UTRAN_QRXLEVMIN	17 (-106 dBm)	For signalling test
	1. (100 05.11)	cases
	0 (-140 dBm)	For RF/RRM test
	0 (140 dBiii)	cases
1	1	しはらせる

} ** 0		End of Repeated E- UTRAN Neighbour cells structure Note: When this message is used in Tics where more than one E-UTRA cells are active, this structure needs to be specified for each cell. EARFCN and EUTRAN_PRIORITY will then need to be configured to the corresponding EUTRAN cell
Repeated E-UTRAN Not Allowed Cells	0	Not Present
Repeated E-UTRAN PCID to TA mapping	0	Not Present
3G CSG Description	0	
E-UTRAN CSG Description	0	
Additions in release 9	L	
spare padding	spare padding	

4.4.6 Common parameters for simulated CDMA2000 cells

The parameters specified in this subclause apply to all simulated HRPD or 1xRTT cells unless otherwise specified.

See C.S0038-B [36] for HRPD cells and C.S0043-A [37] for 1xRTT cells.

4.4.7 Default parameters specific for simulated cells

Default parameters specific for simulated cells are specified in this subclause.

4.4.7.1 Common contents of HRPD Overhead messages

QuickConfig

The QuickConfig message is used to indicate a change in the overhead messages' contents and to provide frequently changing information.

Table 4.4.7.1-1: QuickConfig

Derivation Path: C.S0024-B clause 7.11.6. Information Element	Value/remark	Comment	Condition
MessageID	0x0	0-255;	
ColorCode	See table 4.4.2-3	0 – 255	
SectorID24	Least significant 24 bits of Sector ID given in table 4.4.2-3	24 bits	
SectorSignature	A valid value and same as used for SectorParameters	16 bits	
AccessSignature	A valid value and same as used for AccessParameter s	16 bits	
Redirect	0X0	0-1	
RPCCount63To0	A valid value corresponding to the value of px_MACIndex	0-63	
ForwardTrafficValid63To0	A valid value corresponding to the value of px_MACIndex	0-1; RPCCount63To0 occurrences	
RPCCount127To64Included	A valid value corresponding to the value of px_MACIndex	0 or 1 bits	
RPCCount127To64	A valid value corresponding to the value of px_MACIndex	0 or 6 bits	
ForwardTrafficValid127To64	A valid value corresponding to the value of px_MACIndex	0 or 1 bits;RPCCount127To64 occurrences	
RPCCount130To383Included	Not Present or a valid value corresponding to the value of px_MACIndex	0 or 1 bits	
RPCCount130To383	Not Present or a valid value corresponding to the value of px_MACIndex	0 or 8 bits	
ForwardTrafficValid130To383	Not Present or a valid value corresponding to the value of px_MACIndex	0 or 1 bits	
Reserved	0X0	0 – 7 bits as needed all set to zero	

- SectorParameters

The SectorParameters message is used to convey sector specific information to the access terminals.

Table 4.4.7.1-2: SectorParameters

Derivation Path: C.S0024-B clause 7.11.6.2.2			
Information Element	Value/remark	Comment	Condition
MessageID	0x01	0-255	
CountryCode	See table 4.4.2-3	0 - 999:Depends on test case	

SectorID	See table 4.4.2-3	128 bit value	
SubnetMask	0x40	8 bits	
SectorSignature	Any valid value	16 bits	
Latitude	Any valid value	22 bits	
Longitude	Any valid value	23 bits	
	0x0	11 bits	
RouteUpdateRadiusOverhead		8 bits	
LeapSeconds	'A valid value, calculated and	8 DITS	
	updated by the		
Landing Office	SS'	44 1:4-	
LocalTimeOffset	Any valid value	11 bits	
ReverseLinkSilenceDuration	0x1 or 0x0	2 bits	
ReverseLinkSilencePeriod	0x1 or 0x0	2 bits	
ChannelCount	0x1 or 0x0	5 bits	
Channel		24 bits; ChannelCount	
		occurrences;	
		Sub-clause 13.1 in 3GPP2	
		C.S0024-B v3.0	
SystemType	0x00	8 bits	
BandClass	Set according to	5 bits; Depends on test case	
	PIXIT parameter	<u> </u>	
ChannelNumber	Set according to	11 bits; Depends on	
	PIXIT parameter	BandClass	
NeighborCount		5 bits	No_NeighPN
3	0x0		Inc
	16		NeighPNInc
NeighborPilotPN	Not Present		No_NeighPN
Trongingori noti iv	140t i 1000iit		Inc
	Pilots PN's of		NeighPNInc
	configured cells		I Weight Wille
	[FFS]		
NeighborChannelIncluded	0x0	1 bit; NeighbourCount	NeighPNInc
Neighboronanneimoldded	UXU	occurrences	iveight ivinc
	Not Present	occurrences	No_NeighPN
	Not Present		Inc
NeighborChannel	Not Dropont	O or 24 hits. NaighbourCount	IIIC
NeighborChannei	Not Present	0 or 24 bits; NeighbourCount	
N : 11 O 1 N/: 1 O: 1 1 1	0.0	occurrences	
NeighborSearchWindowSizeIncluded	0x0	1 bit	
NeighborSearchWindowSize	Not Present	0 or 4 bits; NeighbourCount	
		occurrences	
NeighborSearchWindowOffsetIncluded	0x0	1 bit	
NeighborSearchWindowOffset	Not Present	0 or 3 bits; NeighbourCount	
		occurrences	
ExtendedChannelIncluded	0x0 or Not	0 or 1 bits;	
	Present	The number of cdma2000 high	
		rate packet data extended	
		channels available to the	
		access terminal on this sector;	
		Note 1;	
ExtendedChannelCount	Not Present	0 or 5 bits	
ExtendedChannel	Not Present	24 bits; 0 or	
		ExtendedChannelCount	
		occurrences	
AccessHashingChannelMaskIncluded	0x0 or Not	0 or 1 bits;	
<u> </u>	Present	AccessHashingChannelMaskL	
		ength occurrences of this field	
		and	
		AccessHashingChannelMask	
		if set as	
		AccessHashingChannelMask;	
		Note 1;	
AccessHashingMaskLength	Not Present	0 or 4 bits;	
		0<=AccessHashingChannelMa	
		skLength<=(ChannelCount +	
		ExtendedChannelCount),	
AccessHashingChannelMaskSameAsPrevious	Not Present	1 bit:	
/ Noccosi idaningonamientinaskoamenai levious	INOLI IGOGIIL	AccessHashingChannelMaskL	
		/ 1000000 IdollingOndillibliviasKL	<u> </u>

		ength occurrences of this field
		and
		AccessHashingChannelMask
		if set as
		AccessHashingChannelMask
AccessHashingChannelMask	Not Present	0 or
9		AccessHashingMaskLength+1
RouteUpdateTriggerCodeIncluded	0x0 or Not	0 or 1 bits; Note 1;
	Present	
RouteUpdateTriggerCode	Not Present	0 or 12 bits
RouteUpdateTriggerMaxAge	Not Present	0 or 4 bits
PriorSessionGAUP	0x0 or Not	0 or 1 bits; Note 1;
	Present	
FPDCHSupportedInclude	0x0 or Not	0 or 1 bits; Note 1;
	Present	
FPDCHSupported	Not Present	0 or 1 bits
SecondaryColorCodeIncluded	0x0 or Not	0 or 1 bits; Note 1;
	Present	
SecondaryColorCodeCount	Not Present	0 or 3 bits
SecondaryColorCode	Not Present	8 bits
PilotGroupIDLoopIncluded	0x0 or Not	0 or 1 bits; Note 1;
	Present	
PilotGroupIDIncluded	Not Present	0 or 1 bits
PilotGroupID	Not Present	0 or 3 bits
IsSectorMultiCarrierCapable	0x0 or Not	0 or 1 bits; Note 1;
	Present	
ReverseBandClass	Not Present	0 or 5 bits
ReverseChannelNumber	Not Present	0 or 11 bits
Reserved	0X0	0 – 7 bits as needed all set to
		zero

Condition	Explanation
No_NeighPNInc	No neighbour Pilot PN included
NeighPNInc	Neighbor Pilot PN's included

- AccessParameters

0x0.

The AccessParameters message is used to convey Access Channel information to the access terminals.

Table 4.4.7.1-3: AccessParameters

Derivation Path: C.S0024-B clause 9.4.6.2 Information Element	Value/remark	Comment	Condition
MessageID	0x1	0-255	Condition
Access Cycle Duration	16 slots or 64	16,12,64,128 slots	
Access Cycle Daration	slots	10, 12,04, 120 31013	
Access Signature	Any valid value	16 bits	
Access Signature	Arry valid value	Note1.	
OpenLoopAdjust	Set according to	8bits(-84 – 115 dB); Actual	
Орепеоор/ кајазт	PIXIT parameter	value is -1 times	
	for default open	value is 1 times	
	loop adjust		
ProbelnitialAdjust	0x0(0 dB)	5 bits(-16 – 15 db)	
ProbeNumStep	0x5	4bits(1 – 15)	
PowerStep	0x8(4 dB)	4 bits(0 – 7.5 dB)	
PreambleLength	0x2	3bits(1 – 7)	
CapsuleLengthMax	0x2 or 0x4	4 bits	
APersistence	0x0 or 0x1	6 bits; 'NACMPAPersist = 4'	
		occurrences	
APersistence	0x0 or 0x1	6 bits	
APersistence	0x0 or 0x1	6 bits	
APersistence	0x0 or 0x1	6 bits	
Reserved	0X0	0 - 7 bits as needed all set to	
		zero	
Note 1: The value specified is the value change of content of AccessPar		essParameters is being sent first ting remented by 1.	ne. At every

- Sync

The access network broadcasts the Sync message to convey basic network and timing information

Table 4.4.7.1-4: Sync

Derivation Path: C.S0024-B clause 7.3.6.2	.1		
Information Element	Value/remark	Comment	Condition
MessageID	0x0	0-255	
MaximumRevision	0x1	8 bits ; Clause 1.15 of 3GPP2 C.S0024-B v3.0	
MinimumRevision	0x1	8 bits; Clause 1.15 of 3GPP2 C.S0024-B v3.0	
Pilot PN Offset	See table 4.4.2-3	0 – 511	
CDMA System Time	A valid value, calculated and updated by the SS	37 bits	

Editor's Note: This section is reserved for cell specific default parameters.

4.4.7.2 Common contents of 1XRTT Overhead messages

4.4.7.2.1 Configuration sequence number

In general, a base station maintains a configuration sequence number CONFIG_SEQ for configuration messages transmitted on the Paging channel and increments by 1 modulo 64 whenever any of the following messages being transmitted are modified:

System Parameters Message

Neighbor List Message (Band Class 0 only)

CDMA Channel List Message

Extended System Parameters Message

Extended Neighbor List Message (band classes other than Band Class 0).

For simplicity resaons the System Simulator may use any value for this configuration sequence number CONFIG_SEQ.

4.4.7.2.2 Over Head messages

- CDMA Channel List Message

Table 4.4.7.2.2-1: CDMA Channel List Message

Derivation Path: C.S0005 clause 3.7.2.3.2.4			
Information Element	Value/remark	Comment	Condition
PILOT_PN	See table 4.4.2-4	9 bits;	
CONFIG_MSG_SEQ	Set to ' CONFIG_SEQ' of base station as per clause 4.4.7.2.1	6 bits;	
CDMA_FREQ	Set according to PIXIT parameter or as per clause 4.3.1.4	11 bits	

System Parameters Message

Table 4.4.7.2.2-2: System Parameters Message

Derivation Path: C.S0005 clause 3.7.2.3.2	.1		
Information Element	Value/remark	Comment	Condition
PILOT_PN	See table 4.4.2-4	9 bits	
CONFIG_MSG_SEQ	Set to '	6 bits	
	CONFIG_SEQ' of		
	base station as		
	per clause		
	4.4.7.2.1		
SID	See table 4.4.2-4	15 bits	
NID	See table 4.4.2-4	16 bits	
REG_ZONE	See table 4.4.2-4	12 bits	
TOTAL_ZONES	1	3 bits	
ZONE_TIMER	0 or 1	3 bits; 1 or 2 minutes	
MULT_SIDS	0 or 1	1 bits; Mobile shall not or shall	
		store SID_NID_List containing	
		different SID's	
MULT_NIDS	0 or 1	1 bits; Mobile shall not or shall	
		store SID_NID_List containing	
		different NID's	
BASE_ID	See table 4.4.2-4	16 bits	
BASE_CLASS	1	4 bits	BandClass1 _4
	0		Not BandClass1 _4
PAGE_CHAN	1	3 bits; Number of Paging	
	-	Channels	
MAX_SLOT_CYCLE_INDEX	1 or 0	3 bits; Maximum Slot Cycle	
		index	
HOME_REG	1	1 bits; Home registration	
		enabled	
FOR_SID_REG	1	1 bits; SID roamer registration	
		enabled	
FOR_NID_REG	1	1 bits; NID roamer registration	
201122 112 222		enabled	
POWER_UP_REG	1	1 bits; power-up registration	
DOWER BOWN DEC		enabled	
POWER_DOWN_REG	Set according to	1 bits; power-down registration	
	PIXIT parameter	enabled as per PIXIT	
PARAMETER_REG	0 or 1	1 bits; parameter change	
		registration disabled or	

REG_PRD 0 7 bits; registration period; No timer Based Registration BASE_LAT Any valid value 22 bits; Base Station Latitude BASE_LONG Any valid value 23 bits; Base Station Latitude Longitude REG_DIST 0 11 bits; Distance based registration disabled SRCH_WIN_A 8 4 bits; Search Window size for Active Set; 60 PN Chips SRCH_WIN_N 8 4 bits; Search Window Size for	
timer Based Registration BASE_LAT Any valid value 22 bits; Base Station Latitude 23 bits; Base Station Longitude REG_DIST 0 11 bits; Distance based registration disabled SRCH_WIN_A 8 4 bits; Search Window size for Active Set; 60 PN Chips SRCH_WIN_N 8 4 bits; Search Window Size for	
BASE_LAT BASE_LONG Any valid value Any valid value 22 bits; Base Station Latitude 23 bits; Base Station Longitude 11 bits; Distance based registration disabled SRCH_WIN_A 8 4 bits; Search Window size for Active Set; 60 PN Chips SRCH_WIN_N 8 4 bits; Search Window Size for	
BASE_LONG Any valid value 23 bits; Base Station Longitude 11 bits; Distance based registration disabled SRCH_WIN_A 8 4 bits; Search Window size for Active Set; 60 PN Chips SRCH_WIN_N 8 4 bits; Search Window Size for	
REG_DIST 0 11 bits; Distance based registration disabled SRCH_WIN_A 8 4 bits; Search Window size for Active Set; 60 PN Chips SRCH_WIN_N 8 4 bits; Search Window Size for	
Distance based registration disabled SRCH_WIN_A 8 4 bits; Search Window size for Active Set; 60 PN Chips SRCH_WIN_N 8 4 bits; Search Window Size for	
disabled SRCH_WIN_A	
SRCH_WIN_A 8 4 bits; Search Window size for Active Set; 60 PN Chips SRCH_WIN_N 8 4 bits; Search Window Size for	
SRCH_WIN_N Active Set; 60 PN Chips 4 bits; Search Window Size for	
SRCH_WIN_N 8 4 bits; Search Window Size for	
the neighbor set; 60 PN Chips	
SRCH_WIN_R 8 4 bits; Search window size for	
the remaining set; 60 PN	
Chips NGHBR_MAX_AGE	
age	
DWP_PED_THPESH 5 hits: Power control reporting	
0, 1 or 5	
DWP_RED_EDAMES 4 hits: power control reporting	
0, 4 or 7 frame count; 5 or 28 frames	
PWR THRESH ENABLE 1 bits: threshold report mode	
0 disabled	
PWR_PERIOD_ENABLE 1 hits: periodic report mode	
0 disabled	
PWR_REP_DELAY 0 or 14 5 bits; 0 or 56 frames	
RESCAN 1 hit: re-initialize and re-	
0 acquire the system	
T_ADD 6bits; Pilot detection threshold	
28 (-14 dB Ec/lo) (-14 dB Ec/lo)	
T_DROP 6 bits; Pilot drop threshold (-16	
32 dB Ec/lo)	
T_COMP 4; Active set versus candidate	
set comparison threshold (2.5	
5 dB)	
T_TDROP 3 4 bits; Drop timer value (4 sec)	
EXT_SYS_PARAMETER 1 bit; Extended System	
Parameters message present EXT_NGHBR_LST 1 bit; Extended neighbor list Band	Class1
1 1 1 1 1 1 1 1 1 1	
Not	
	Class1
3_4	
GEN_NGHBR_LST 0 1 bit; General neighbor list not	
sent	
GLOBAL_REDIRECT 0 1 bit; Global service redirection	
message not transmitted	
PRI_NGHBR_LST 0 1 bit; Private neighbor list	
message not transmitted	
USER_ZONE_ID 0 1 bit; User zone Identification	·
not transmitted	
EXT_GLOBAL_REDIRECT 0 1 bit; Extended global	
redirection not transmitted	
EXT_CHAN_LST 0 1 bit; Extended channel list not	
sent	

Condition	Explanation
BandClass1_4	If Band Class is 1 or 4
BandClass1_3_4	If Band Class is 1 or 3 or 4

Access Parameters Message

Table 4.4.7.2.2-3: Access Parameters message

Derivation Path: C.S0005 clause 3.7.2.3.2.2 Information Element	Value/remark	Commant	Condition
PILOT_PN		Comment	Condition
	See table 4.4.2-4	9 bits;	
ACC_MSG_SEQ		6 bits; Access Message	
		Sequence; 0 is used in initial transmission and incremented	
	0,1,263	by 1 modulo 64 every time	
	, , ==	Access Parameters message	
		is modified;	
		for simplicity reasons any	
		value may be used	
ACC_CHAN	0	5 bits; Number of access	
	Ŭ	channels -1	
NOM_PWR		4 bits; Nominal transmit power	
	0	offset in dB	
INIT_PWR	0	5 bits; Initial power offset in dB	
PWR_STEP	1 or 3	3 bits; Power increment	
NUM_STEP		4 bits; 5 access probes/	
	Any valid value	sequence	
MAX_CAP_SZ	2 or 7	3 bits; Maximum Access	
WAX_CAP_32	2017	channel message capsule size	
DAM 07	A	=2 or 7 +3 frames	
PAM_SZ	Any valid value	4 bits; Access Channel	
	-	preamble length = 2+1 frames	
PSIST(0-9)	0	6 bits; Persistence value for	
		access overload classes 0-9	
PSIST(10)	0	3 bits; Persistence value for	
		access overload classes 10	
PSIST(11)	0	3 bits; Persistence value for	
, ,		access overload classes 11	
		(emergency)	
PSIST(12)	0	3 bits; Persistence value for	
. 5.5.()		access overload classes 12	
PSIST(13)	0	3 bits; Persistence value for	
1 6161(10)		access overload classes 13	
PSIST(14)	0	3 bits; Persistence value for	
F3131(14)	0	access overload classes 14	
PSIST(15)	0	3 bits; Persistence value for	
P3131(15)	0		
MOO POIOT		access overload classes 15	
MSG_PSIST	0	3 bits; Persistence modifier for	
		access channel attempts for	
		message transmissions	
REG_PSIST	0	3 bits; Persistence modifier for	
		Access Channel attempts for	
		registrations	
PROBE_PN_RAN	4 or 0	4 bits; Time Randomization for	
		Access Channel probes= 0 to	
		15 PN chips	
ACC_TMO	3, 4 or 5	4 bits; Acknowledgement	
_	,	timeout = (value +2) * 80 ms	
PROBE_BKOFF	1 or 0	4 bits; Access Channel probe	
	1 31 0	back off = no back off	
BKOFF	1 or 0	4 bits; Access channel probe	
	1 01 0	sequence backoff range =no	
MAY DEO CEO	A m. e. e. e. l l l	back off	
MAX_REQ_SEQ	Any valid value	4 bits; Max number of access	
		probe sequences for an	
		access channel request	
MAX_RSP_SEQ	Any valid value	4 bits; Max number of access	
		probe sequences for an	
		access channel response	
		O 1 11 N 11 C C 1 1	
AUTH	0	2 bits; No authentication data in access channel messages	

RAND	Not present	0 or 32 bits	
NOM_PWR_EXT	0	1 bits; Extended nominal	
		transmit power	

Extended System Parameters Message

Table 4.4.7.2.2-4: Extended System Parameters Message

Derivation Path: C.S0005 clause 3.7.2.3.2.13			
Information Element	Value/remark	Comment	Condition
PILOT_PN	See table 4.4.2-4	9 bits	
CONFIG_MSG_SEQ	Set to '	6 bits	
	CONFIG_SEQ' of		
	base station as		
	per clause		
DELETE FOR THOU	4.4.7.2.1	ALM DILL (TMO)	
DELETE_FOR_TMSI	0	1 bits; Delete foreign TMSI	
USE_TMSI	0 or 1	1 bits; Use TMSI indicator	
PREF_MSID_TYPE	3	2 bits; Preferred Access Channel MSID Type	
MCC	See table 4.4.2-4	10 bits	
IMSI_11_12	See table 4.4.2-4	7 bits; 11th and 12th digits of	
		the IMSI	
TMSI_ZONE_LEN	1 or 0	4 bits	
TMSI_ZONE	1 or Not present	8 bits if present	
BCAST_INDEX	0	3 bits	
IMSI_T_SUPPORTED	0	1 bits	
P_REV	6	8 bits	
MIN_P_REV	6	8 bits	
SOFT_SLOPE	0	6 bits	
ADD_INTERCEPT	0	6 bits; 0 dB	
DROP_INTERCEPT	0	6 bits; 0 dB	
PACKET_ZONE_ID	0	8 bits; Packet data service	
		zone not supported	
MAX_NUM_ALT_SO	0	3 bits	
RESELECT_INCLUDED	0	1 bits; System reselection	
		parameters not included	
EC_THRESH	Not present	0 or 5 bits	
EC_I0_THRESH	Not present	0 or 5 bits	
PILOT_REPORT		1 bits; Pilot Report indicator;	
	4 0 0	the MS reports or does not	
	1 or 0	report additional pilots which	
		have strengths exceeding T_ADD	
NGHBR_SET_ENTRY_INFO	0	1 bits	
ACC_ENT_HO_ORDER	Not present	0 or 1 bits	
NGHBR_SET_ACCESS_INFO	0	1 bits	
ACCESS_HO	Not present	0 or 1 bits	
ACCESS_HO_MSG_RSP	Not present	0 or 1 bits	
ACCESS_PROBE_HO	Not present	0 or 1 bits	
ACC_HO_LIST_UPD	Not present	0 or 1 bits	
ACC_PROBE_HO_OTHER_MSG	Not present	0 or 1 bits	
MAX_NUM_PROBE_HO	Not present	0 or 3 bits	
NGHBR_SET_SIZE	Not present	0 or 6 bits	
ACCESS_ENTRY_HO	•	1 bits; Access Entry Handoff	
	Not present	not permitted	
ACCESS_HO_ALLOWED	Not present	1 bits	
BROADCAST_GPS_ASST		1 bits; Broad cast GPS not	
	0	supported	
QPCH_SUPPORTED		1 bits; Quick PCH not	
	0	supported	
NUM_QPCH	Not present	0 or 2 bits	
QPCH_RATE	Not present	0 or 1 bits	
QPCH_POWER_LEVEL_PAGE	Not present	0 or 3 bits	
QPCH_CCI_SUPPORTED	Not present	0 or 1 bits	

QPCH_POWER_LEVEL_CONFIG	Not present	0 or 3 bits	
SDB_SUPPORTED	0	1 bits; Short Data burst not	
		supported	
RLGAIN_TRAFFIC_PILOT	0	6 bits; 0 dB Gain adjustment of	
		Reverse traffic channel	
REV_PWR_CNTL_DELAY_INCL	0	1 bits	
REV_PWR_CNTL_DELAY	Not present	0 or 2 bits	

Neighbor List Message

Table 4.4.7.2.2-6: Neighbor List Message

This message is sent when EXT_NGHBR_LST in Systems parameter message is set as '0'B i.e. the band class is 0;

Derivation Path: C.S0005 clause 3.7.2.3.2.3			
Information Element	Value/remark	Comment	Condition
PILOT_PN	See table 4.4.2-4	9 bits	
CONFIG_MSG_SEQ	Set to ' CONFIG_SEQ' of base station as per clause 4.4.7.2.1	6 bits	
PILOT_INC	10 or 1	4 bits; Pilot PN Sequence offset index increment = n * 50	
NGHBR_CONFIG(n)	0 or Not present		
NGHBR_PN(n)	See table 4.4.2-4 or Not Present	9 bits if present	
Note 1: the elements with index n are repeated as per table 4.4.2-5			

Extended Neighbor List Message

Table 4.4.7.2.2-7: Extended Neighbor List Message

This message is sent when EXT_NGHBR_LST in Systems parameter message is set as '1'B i.e. the band class is not 0;

Information Element	Value/remark	Comment	Condition
PILOT_PN	See table 4.4.2-4	9 bits	
CONFIG_MSG_SEQ	Set to ' CONFIG_SEQ' of base station as per clause 4.4.7.2.1	6 bits	
PILOT_INC	10 or 1	4 bits; Pilot PN Sequence offset index increment = n * 50	
NGHBR_CONFIG(n)	0 or Not present	3 bits if present; Neighbor configuration where neighbor base station has same number of frequencies having paging channels as the current base station;	
NGHBR_PN(n)	See table 4.4.2-4 or Not present	9 bits if present	
SEARCH_PRIORITY(n)	1, 2 or Not present	2 bits if present; Medium search priority	
FREQ_INCL(n)	1	1 bit	InterFreqCell
	0 or Not present		
NGHBR_BAND(n)	Set according to PIXIT parameter	0 or 5 bits	InterFreqCell
	Not present		
NGHBR_FREQ(n)	Set according to PIXIT parameter	0 or 11 bits	InterFreqCell
	Not Present		

frequency cell information. The parameters for the first cell should be set as per table 4.4.2-4.

Condition	Explanation
InterFreqCell	If the configured neighbour cell is on a different frequency compared to the cell in which
	Extended Neighbour list message is being transmitted

Sync channel Messages

Table 4.4.7.2.2-8: Sync Channel Message

Derivation Path: C.S0005 clause 3.7.2.3.2.	26		
Information Element	Value/remark	Comment	Condition
P_REV	6	8 bits; Protocol revision level	
MIN_P_REV	6	8 bits; Minimum protocol	
		revision level	
SID	See table 4.4.2-4	15 bits	
NID	See table 4.4.2-4	16 bits	
PILOT_PN	See table 4.4.2-4	9 bits	
LC_STATE	A valid value,	42 bits; Long code State	
	calculated and		
	updated by the SS		
SYS_TIME	A valid value,	36 bits; System time	
	calculated and		
	updated by the SS		
LP_SEC	A valid value,	8 bits; The number of leap	
	calculated and	seconds	
	updated by the SS		
LTM_OFF	A valid value,	6 bits; Offset of local time from	
	calculated and	System time	
	updated by the SS		
DAYLT	A valid value,	1 bits; Daylight savings	
	calculated and	indicator	
	updated by the SS		
PRAT	0	2 bits; Paging Channel Data	
		rate=9600 bps	
CDMA_FREQ	Set according to	11 bits; Frequency assignment	
	PIXIT parameter		
	or as per clause		
EVE ODMA EDEO	4.3.1.4	AA hita. Estan da difea essa	
EXT_CDMA_FREQ	Set according to	11 bits; Extended frequency	
	PIXIT parameter	assignment	
	or as per clause		
	4.3.1.4	1	

4.4.8 Common parameters for simulated WLAN AP's

The parameters specified in this subclause apply to all simulated WLAN AP's unless otherwise specified.

Default WLAN parameters for simulated AP's are specified in table 4.4.8-1.

Table 4.4.8-1: Default parameters for simulated WLAN AP's

Parameter	Value
SSID	3GPP WLAN
	InterWorking
Security	[WPA2]
Hot Spot 2.0 Support	Yes
Trusted/Un-Trusted non	Un-Trusted
3GPP Access	
EAP-AKA Procedure	CHAP

Editors Note: Further important parameters needed for WLAN AP are FFS

4.5 Generic procedures

This clause describes UE test states which can be used in the initial condition of many test cases defined in TS 36.521-1 [21], TS 36.523-1 [18] and TS 36.523-3 [34] or other procedures defined in this specification. This section also defines a set of procedures to bring the UE into these states.

4.5.1 UE test states

NOTE: The need to have a procedure for the transition from State 4/State 3 to State 2 is for further study and it can added if the technical motivation for this procedure can be justified.

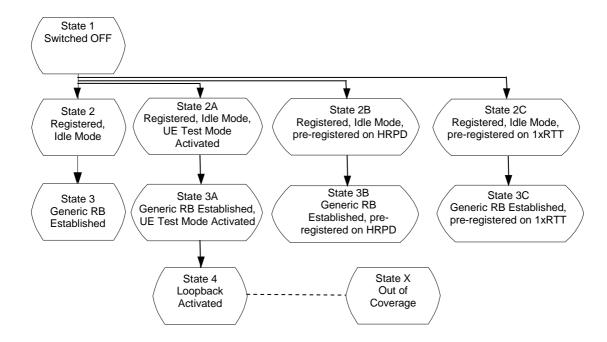


Figure 4.5.1-1: E-UTRAN UE Test States for Basic Generic Procedures

NOTE: Transition to state X is performed only when Test Loop Mode E is required to be performed when UE is out of coverage.

In order that the UE can set up a call or session in E-UTRAN, there are a number of procedures to be undertaken in a hierarchical sequence to move between known states. The sequences are shown in figure 4.5.1-1 and the status of the relevant protocols in the UE in the different states are given in table 4.5.1-1.

		RRC	ECM	EMM	ESM	UE Test Mode
State 1	Switched OFF					
State 2	Registered, Idle Mode	RRC_IDLE	ECM-IDLE	EMM-REGISTERED	1 default EPS bearer context active. 2 default EPS bearer contexts active (only for RAN Assisted WLAN interworking)	Not active

Table 4.5.1-1: The E-UTRAN UE states

State 2A	Registered, Idle Mode, UE Test Mode Activated	RRC_IDLE	ECM-IDLE	EMM-REGISTERED	1 default EPS bearer context active.	Active
State 2B	Registered, Idle Mode, pre-registered on HRPD	RRC_IDLE	ECM-IDLE	EMM-REGISTERED	1 default EPS bearer context active.	Active
State 2C	Registered, Idle Mode, pre-registered on 1xRTT	RRC_IDLE	ECM-IDLE	EMM-REGISTERED	1 default EPS bearer context active.	Active
State 3	Generic RB Established	RRC_CONNECT ED 1 + N (0 ≤ N ≤ 7) data radio bearers configured as specified in the test cases. 2 + N (0 ≤ N ≤ 7) data radio bearers configured as specified in the test cases (only for for RAN Assisted WLAN interworking)	ECM-CONNECTED	EMM-REGISTERED	1 default EPS bearer context active and N (0 ≤ N ≤ 7) dedicated EPS bearers active as specified in the test cases. 2 default EPS bearer contexts active and N (0 ≤ N ≤ 7) dedicated EPS bearers active as specified in the test cases (only for RAN Assisted WLAN interworking)	Not active
State 3A	Generic RB Established, UE Test Mode Activated	RRC_CONNECT ED 1 + N (0 ≤ N ≤ 7) data radio bearers configured as specified in the test cases	ECM-CONNECTED	EMM-REGISTERED	1 default EPS bearer context active and N (0 ≤ N ≤ 7) dedicated EPS bearers active as specified in the test cases	Active
State 3B	Generic RB Established, pre-registered on HRPD	RRC_CONNECT ED 1 + N (0 ≤ N ≤ 7) data radio bearers configured as specified in the test cases	ECM-CONNECTED	EMM-REGISTERED	1 default EPS bearer context active and N (0 ≤ N ≤ 7) dedicated EPS bearers active as specified in the test cases	Active
State 3C	Generic RB Established, pre-registered on 1xRTT	RRC_CONNECT ED 1 + N (0 ≤ N ≤ 7) data radio bearers configured as specified in the test cases	ECM-CONNECTED	EMM-REGISTERED	1 default EPS bearer context active and N (0 ≤ N ≤ 7) dedicated EPS bearers active as specified in the test cases	Active
State 4	Loopback Activated	RRC_CONNECT ED 1 + N (0 ≤ N ≤ 7) data radio bearers configured as specified in the test cases	ECM-CONNECTED	EMM-REGISTERED	1 default EPS bearer context active and N (0 ≤ N ≤ 7) dedicated EPS bearers active as specified in the test cases	Active
State X	Out of Coverage	Any Cell Selection state				Active

NOTE: Refer to TS 24.301 [28] subclause 5.5.1.1 for more details on the ESM state.

NOTE: Refer to TS 36.509 [38] for details regarding UE test mode and UE Loopback.

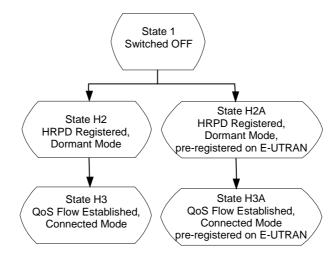


Figure 4.5.1-2: HRPD UE Test States for Basic Generic Procedures

In order for the UE to set up a session in an HRPD RAN, there is a number of procedures that need to be performed in a certain sequence to move between known UE states. These states and sequences are shown in figure 4.5.1-2. HRPD UE states are described in table 4.5.1-2.

Table 4.5.1-2: Description of HRPD UE states

State	Description
H2	The UE is registered on the HRPD network, but has no active connection to the network. The Inter-
	RAT Idle State Protocol (IR-ISP) is in Monitor State. The UE should be ready to perform a non-
	optimised cell reselection to E-UTRAN (as per [41] cl. 8 and [42] cl. 14.1).
H3	The UE is registered on the HRPD network, and has an active network connection. The UE should be
	ready to perform a non-optimised handover to E-UTRAN (as per [41] cl. 8).
H2A	Same state as State H2, but the UE is also pre-registered in E-UTRAN. The UE should be ready to
	perform an optimised cell reselection to E-UTRAN (as per [41] cl. 9.6).
H3A	Same state as State H3, but the UE is also pre-registered in E-UTRAN. The UE should be ready to
	perform an optimised handover to E-UTRAN (as per [41] cl. 9.5).

4.5.2 UE Registration (State 2)

Editor's Note: The UE Registration assumptions below are still in progress - they represent the assumptions on which the test specification is based in the present version of TS 36.508.

UE Registration depends on the specific configuration of a UE, which is expressed by PICS according to TS 36.523-2 [19]. In order to reduce complexity and to achieve testability several assumptions and definitions are made:

- An IMS capable UE is compliant to GSMA PRD IR.92 [52];
- During initial UE registration the UE requests for one or two PDN connectivities;
- When the UE requests for two PDN connectivities:
 - it re-uses the existing RRC connection for signalling regarding the 2nd PDN connectivity;
 - one of the PDN connectivities is for IMS;
- If the UE is configured with an APN for XCAP only usage (pc_XCAP_only_APN==true), connectivity to this PDN is not established during the initial UE registration;
- As for any 2nd PDN connectivity request security protection is already established the UE provides a valid APN in the PDN CONNECTIVITY REQUEST.

In detail the following UE configurations are supported:

Configuration	Condition	Explanation
IMS_Only	pc_IMS AND NOT	UE is configured to request for IMS PDN connectivity only
	pc_Provide_Internet_as_second_APN	
	AND NOT	
	pc_Provide_IMS_as_second_APN	
Internet_Only	NOT pc_IMS	UE does not support IMS
IMS_Internet	pc_IMS AND	UE is configured to request for IMS PDN connectivity first
	pc_Provide_Internet_as_second_APN	and then to request for an internet PDN connectivity
Internet_IMS	pc_IMS AND	UE is configured to request for an internet PDN connectivity
	pc_Provide_IMS_as_second_APN	first and then to request for the IMS PDN connectivity
NOTE: pc_Provide_Internet_as_second_APN and pc_F		Provide_IMS_as_second_APN are mutually exclusive i.e. shall
not be	e true at the same time.	

Further auxiliary definitions:

Configuration	Condition
PDN1_IMS	IMS_Only OR IMS_Internet
PDN2_IMS	Internet_IMS
MULTI_PDN	IMS_Internet OR Internet_IMS
XCAP_SIGNALLING	test case requires XCAP signalling

4.5.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.
- The procedure shall be performed under ideal radio conditions as defined in clause 5

User Equipment:

- The Test UICC shall be inserted. This shall contain either ISIM and USIM applications or only a USIM application on UICC.
- If RAN Assisted WLAN interworking test cases are being performed for ANDSF rules using RAN provided thresholds, ANDSF rules to match the RAN rules defined in TS 36.304 shall be available in the UE.

4.5.2.2 Definition of system information messages

The default system information messages are used.

4.5.2.3 Procedure

Table 4.5.2.3-1: UE registration procedure (state 1 to state 2)

Step	Procedure		Message Sequence
-		U - S	Message
1		<	RRC: SYSTEM INFORMATION (BCCH)
2	UE transmits an RRCConnectionRequest	>	RRC: RRCConnectionRequest
	message.		
3	SS transmits an RRCConnectionSetup	<	RRC: RRCConnectionSetup
	message.		
4	The UE transmits an RRCConnectionSetupComplete message to confirm the successful completion of the connection establishment and to initiate the Attach procedure by including the ATTACH REQUEST message. The PDN	>	RRC: RRCConnectionSetupComplete NAS: ATTACH REQUEST NAS: PDN CONNECTIVITY REQUEST
	CONNECTIVITY REQUEST message is piggybacked in ATTACH REQUEST		
5	The SS transmits an AUTHENTICATION REQUEST message to initiate the EPS authentication and AKA procedure.	<	RRC: DLInformationTransfer NAS: AUTHENTICATION REQUEST

6	The UE transmits an AUTHENTICATION RESPONSE message and establishes mutual authentication.	>	RRC: ULInformationTransfer NAS: AUTHENTICATION RESPONSE
7	The SS transmits a NAS SECURITY MODE COMMAND message to activate NAS security.	<	RRC: DLInformationTransfer NAS: SECURITY MODE COMMAND
8	The UE transmits a NAS SECURITY MODE COMPLETE message and establishes the initial security configuration.	>	RRC: ULInformationTransfer NAS: SECURITY MODE COMPLETE
-	EXCEPTION: Steps 9a1 to 9a2 describe behaviour that depends on UE configuration; the "lower case letter" identifies a step sequence that take place if the UE has ESM information which needs to be transferred.	-	-
9a1	IF the UE sets the ESM information transfer flag in the last PDN CONNECTIVITY REQUEST message THEN the SS transmits an ESM INFORMATION REQUEST message to initiate exchange of protocol configuration options and/or APN.	<	RRC: DLInformationTransfer NAS: ESM INFORMATION REQUEST
9a2	The UE transmits an ESM INFORMATION RESPONSE message to transfer protocol configuration options and/or APN.	>	RRC: ULInformationTransfer NAS: ESM INFORMATION RESPONSE
10	The SS transmits a SecurityModeCommand message to activate AS security.	<	RRC: SecurityModeCommand
11	The UE transmits a SecurityModeComplete message and establishes the initial security configuration.	>	RRC: SecurityModeComplete
12	The SS transmits a <i>UECapabilityEnquiry</i> message to initiate the UE radio access capability transfer procedure.	<	RRC: UECapabilityEnquiry
13	The UE transmits a <i>UECapabilityInformation</i> message to transfer UE radio access capability.	>	RRC: UECapabilityInformation
14	The SS transmits an RRCConnectionReconfiguration message to establish the default bearer with condition SRB2-DRB(1, 0) according to 4.8.2.2.1.1. This message includes the ATTACH ACCEPT message. The ACTIVATE DEFAULT EPS BEARER CONTEXT REQUEST message is piggybacked in ATTACH ACCEPT.	<	RRC: RRCConnectionReconfiguration NAS: ATTACH ACCEPT NAS: ACTIVATE DEFAULT EPS BEARER CONTEXT REQUEST
15	The UE transmits an RRCConnectionReconfigurationComplete message to confirm the establishment of default bearer.	>	RRC: RRCConnectionReconfigurationComplete
-	EXCEPTION: In parallel to the event described in step 16 below, if initiated by the UE the generic procedure for IP address allocation in the U-plane specified in TS 36.508 subclause 4.5A.1 takes place performing IP address allocation in the U-plane.		
-	EXCEPTION: IF PDN1_IMS THEN in parallel to the event described in step 16 below the generic procedure for IMS signalling in the Uplane specified in TS 36.508 subclause 4.5A.3 takes place if requested by the UE		
16	This message includes the ATTACH COMPLETE message. The ACTIVATE DEFAULT EPS BEARER CONTEXT ACCEPT message is piggybacked in ATTACH COMPLETE.	>	RRC: ULInformationTransfer NAS: ATTACH COMPLETE NAS: ACTIVATE DEFAULT EPS BEARER CONTEXT ACCEPT
-	EXCEPTION: Steps 16a1 to 16c1 describe behaviour that depends on UE configuration; the "lower case letter" identifies a step sequence that takes place when the UE is configured in a certain way.	-	-

16a1	IF IMS voice not supported and	>	RRC: ULInformationTransfer
	pc_voice_PS_1_CS_2, pc_attach and		NAS: TRACKING AREA UPDATE
	pc_TAU_connected _in_IMS are set to TRUE		REQUEST
	(Note 1) THEN		
	The UE transmits a TRACKING AREA		
	UPDATE REQUEST message.		
16a2	The SS transmits a TRACKING AREA	<	RRC: DLInformationTransfer
TOUZ	UPDATE ACCEPT message.		NAS: TRACKING AREA UPDATE
	Of DATE ACCELT THESSage.		ACCEPT
40-0	The LIE transmite a TDACKING ADEA		
16a3	The UE transmits a TRACKING AREA	>	RRC: ULInformationTransfer
	UPDATE COMPLETE message.		NAS: TRACKING AREA UPDATE
			COMPLETE
16b1	ELSE IF IMS voice not supported and	<	RRC: RRCConnectionRelease
	pc_voice_PS_1_CS_2, pc_attach and		
	pc_TAU_idle _in_IMS are set to TRUE (Note		
	2) THEN		
	The SS transmits an RRCConnectionRelease		
	message to release the RRC connection.		
16b2	The UE transmits an RRCConnectionRequest	>	RRC: RRCConnectionRequest
	message.		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
16b3	The SS transmit an RRCConnectionSetup	<	RRC: RRCConnectionSetup
1000	message.	`	
16b4	The UE transmits an	>	RRC: RRCConnectionSetupComplete
1004	RRCConnectionSetupComplete message		NAS: TRACKING AREA UPDATE
	including a TRACKING AREA UPDATE		REQUEST
401.5	REQUEST message.		550 511 f T . f
16b5	The SS transmits a TRACKING AREA	<	RRC: DLInformationTransfer
	UPDATE ACCEPT message.		NAS: TRACKING AREA UPDATE
			ACCEPT
16b6	The UE transmits a TRACKING AREA	>	RRC: ULInformationTransfer
	UPDATE COMPLETE message.		NAS: TRACKING AREA UPDATE
			COMPLETE
16c1	ELSE IF MULTI_PDN = TRUE THEN	-	-
	The generic procedure for UE establishing		
	additional PDN connectivity as specified in TS		
	36.508 subclause 4.5A.16 takes place		
17	The SS transmits an RRCConnectionRelease	<	RRC: RRCConnectionRelease
	message to release RRC connection and		
	move to RRC_IDLE (State 2).		
_	EXCEPTION: Steps18a1 to 18b1 describe		
	behaviour that depends on UE		
	capabilities/configuration and test		
	requirements; the "lower case letter" identifies		
	a step sequence that takes place if one of		
	those is supported/configured.		
1001			
18a1	IF MULTI_PDN AND (pc_XCAP_only_APN	-	-
	OR NOT XCAP_SIGNALLING)		
	AND		
	pc_UE_supports_user_initiated_PDN_discon		
	nect THEN		
	the non-IMS PDN shall be released as		
	specified in TS 36.508 subclause 4.5A.17		
18a2	IF MULTI_PDN AND (pc_XCAP_only_APN	-	-
	OR NOT XCAP_SIGNALLING)		
	AND NOT		
	pc_UE_supports_user_initiated_PDN_discon		
	nect THEN		
	the non-IMS PDN shall be released as		
	specified in TS 36.508 subclause 4.5A.18		
NOTE	1: The procedure is used with specific message	with no	IMS voice network support. The UE is
_	,		1 P = 2 = 2 = 2

NOTE 1: The procedure is used with specific message with no IMS voice network support. The UE is configured for voice domain preference IMS PS voice preferred, CS Voice as secondary and to initiate EPS attach. The UE implementation supports TAU in connected mode,

NOTE 2: The procedure is used with specific message withno IMS voice network support. The UE is configured for voice domain preference IMS PS voice preferred, CS Voice as secondary and to initiate EPS attach. The UE implementation supports TAU in idle mode,

4.5.2.4 Specific message contents

All specific message contents shall be referred to clause 4.6 and 4.7 with the exceptions below.

Table 4.5.2.4-1: RRCConnectionRequest (Step 2)

Information Element	Value/remark	Comment	Condition
RRCConnectionRequest ::= SEQUENCE {			
criticalExtensions CHOICE {			
rrcConnectionRequest-r8 SEQUENCE {			
ue-Identity	Any allowed value		
}			
}			
}			

Table 4.5.2.4-2: UECapabilityInformation (Step 13)

Derivation Path: Table 4.6.1-23			
Information Element	Value/remark	Comment	Condition
UECapabilityInformation ::= SEQUENCE {			
criticalExtensions CHOICE {			
c1 CHOICE{			
ueCapabilityInformation-r8	Any allowed value		
}			
}			
}			

Table 4.5.2.4-3: ACTIVATE DEFAULT EPS BEARER CONTEXT REQUEST (Step 14)

Derivation Path: Table 4.7.3-6 with condition IM else	IS_PDN_ConnEstab for PDN1_IMS	and NOT IMS_PDN_0	ConnEstab
Information Element	Value/remark	Comment	Condition
EPS bearer identity	'0101'B	arbitrary value used for PDN connectivity being maintained during the test case	PDN1_IMS OR NOT MULTI_PDN
EPS bearer identity	'1100'B	arbitrary value used for additional PDN connectivity which may be released before entering the test procedure of the test case	MULTI_PDN AND NOT PDN1_IMS
PDN address			IPv4_addres s_only
Length of PDN address contents	5 octets		
PDN type value	'001'B	IPv4	
PDN address information	IPv4 address	The SS provides a valid IPv4 address	NOT IPv4- DHCP
	0.0.0.0	DHCPv4 is to be used to allocate the IPv4 address	IPv4-DHCP
ESM cause	IF "PDN type" IE in step 4 is 'IPv4v6' THEN '00110010'B ELSE Not present	"PDN type IPv4 only allowed"	

NOTE: The default message contents specified in table 4.7.3-6 apply unless the condition IPv4_address_only in table 4.5.2.4-3 is true.

Condition	Explanation	
IPv4_address_only	This condition applies if the test case preamble description indicates that the UE is	
ID 4 DUIGE	allocated an IPv4 address.	
IPv4-DHCP	If in the last PDN CONNECTIVITY REQUEST or ESM INFORMATION RESPONSE sent prior to this message, the IE Protocol configuration options contains a configuration protocol option = '000B00H' ("IPv4 address allocation via DHCPv4", length of contents = 0).	
	Note 1: This condition is used in conjunction with IPv4 or IPv4v6 as indicated in the "PDN address row" just above.	
	Note 2: If both messages, PDN CONNECTIVITY REQUEST and ESM INFORMATION RESPONSE, are received and contain a Protocol configuration options IE then the IE from the message which is received later shall be used.	

Table 4.5.2.4-4: TRACKING AREA UPDATE REQUEST (Steps 16a1 and 16b4)

Derivation Path: 36.508 Table 4.7.2-27 with condition combined_TA_LA

Table 4.5.2.4-5: TRACKING AREA UPDATE ACCEPT (Steps 16a2 and 16b5)

Derivation Path: 36.508 Table 4.7.2-24 with condition combined_TA_LA

4.5.2A UE Registration, UE Test Mode Activated (State 2A)

The same assumptions and definitions apply as in clause 4.5.2.

4.5.2A.1 Initial conditions

System Simulator:

- 1 cell, default parameters.
- The procedure shall be performed under ideal radio conditions as defined in clause 5

User Equipment:

- The Test USIM shall be inserted.

4.5.2A.2 Definition of system information messages

The default system information messages are used.

4.5.2A.3 Procedure

Table 4.5.2A.3-1: UE registration with test mode activation procedure (state 1 to state 2A)

Step	Procedure	Message Sequence		
		U-S	Message	
1 to	Same procedure for steps 1 to 9a2 as	-	-	
9a2	specified in the procedure in clause 4.5.2.3			
10	The SS transmits an ACTIVATE TEST MODE	<	RRC: DLInformationTransfer	
	message to activate UE radio bearer test		TC: ACTIVATE TEST MODE	
	mode procedure.			
11	The UE transmits an ACTIVATE TEST MODE	>	RRC: ULInformationTransfer	
	COMPLETE message.		TC: ACTIVATE TEST MODE COMPLETE	
12	The SS transmits a SecurityModeCommand	<	RRC: SecurityModeCommand	
	message to activate AS security.			
13	The UE transmits a SecurityModeComplete	>	RRC: SecurityModeComplete	
	message and establishes the initial security			
	configuration.			
14	The SS transmits a UECapabilityEnquiry	<	RRC: UECapabilityEnquiry	
	message to initiate the UE radio access			
	capability transfer procedure.			
15	The UE transmits a UECapabilityInformation	>	RRC: UECapabilityInformation	

	message to transfer UE radio access		
	capability.		
16	The SS transmits an RRCConnectionReconfiguration message to establish the default bearer with condition SRB2-DRB(1, 0) according to 4.8.2.2.1.1. This message includes the ATTACH ACCEPT message. The ACTIVATE DEFAULT EPS BEARER CONTEXT REQUEST message is	<	RRC: RRCConnectionReconfiguration NAS: ATTACH ACCEPT NAS: ACTIVATE DEFAULT EPS BEARER CONTEXT REQUEST
17	piggybacked in ATTACH ACCEPT. The UE transmits an RRCConnectionReconfigurationComplete message to confirm the establishment of default bearer.	>	RRC: RRCConnectionReconfigurationComplete
-	EXCEPTION: In parallel to the event described in step 18 below the generic procedure for IP address allocation in the U-plane specified in TS 36.508 subclause 4.5A.1 takes place performing IP address allocation in the U-plane if requested by the UE.		
-	EXCEPTION: IF PDN1_IMS THEN in parallel to the event described in step 18 below the generic procedure for IMS signalling in the Uplane specified in TS 36.508 subclause 4.5A.3 takes place if requested by the UE		
18	This message includes the ATTACH COMPLETE message. The ACTIVATE DEFAULT EPS BEARER CONTEXT ACCEPT message is piggybacked in ATTACH COMPLETE.	>	RRC: ULInformationTransfer NAS: ATTACH COMPLETE NAS: ACTIVATE DEFAULT EPS BEARER CONTEXT ACCEPT
-	EXCEPTION: Steps18a1 to 18c1 describe behaviour that depends on UE configuration; the "lower case letter" identifies a step sequence that takes place when the UE is configured in a certain way.	-	-
18a1	IF IMS voice not supported and pc_voice_PS_1_CS_2, pc_attach and pc_TAU_connected_in_IMS are set to TRUE (Note 1) THEN The UE transmits a TRACKING AREA UPDATE REQUEST message.	>	RRC: ULInformationTransfer NAS: TRACKING AREA UPDATE REQUEST
18a2	The SS transmits a TRACKING AREA UPDATE ACCEPT message.	<	RRC: DLInformationTransfer NAS: TRACKING AREA UPDATE ACCEPT
18a3	The UE transmits a TRACKING AREA UPDATE COMPLETE message.	>	RRC: ULInformationTransfer NAS: TRACKING AREA UPDATE COMPLETE
18b1	ELSE IF IMS voice not supported and pc_voice_PS_1_CS_2, pc_attach and pc_TAU_idle _in_IMS are set to TRUE (Note 2) THEN The SS transmits an RRCConnectionRelease message to release the RRC connection.	<	RRC: RRCConnectionRelease
18b2	The UE transmits an RRCConnectionRequest message.	>	RRC: RRCConnectionRequest
18b3	The SS transmit an RRCConnectionSetup message.	<	RRC: RRCConnectionSetup
18b4	The UE transmits an RRCConnectionSetupComplete message including a TRACKING AREA UPDATE REQUEST message.	>	RRC: RRCConnectionSetupComplete NAS: TRACKING AREA UPDATE REQUEST
18b5	The SS transmits a TRACKING AREA UPDATE ACCEPT message.	<	RRC: DLInformationTransfer NAS: TRACKING AREA UPDATE ACCEPT
18b6	The UE transmits a TRACKING AREA UPDATE COMPLETE message.	>	RRC: ULInformationTransfer NAS: TRACKING AREA UPDATE COMPLETE

18c1	ELSE IF MULTI_PDN = TRUE THEN The generic procedure for UE establishing additional PDN connectivity as specified in TS					
	36.508 subclause 4.5A.16 takes place					
19	The SS transmits an RRCConnectionRelease	<	RRC: RRCConnectionRelease			
	message to release RRC connection and					
	move to RRC_IDLE (State 2A).					
-	EXCEPTION: Steps 20a1 to 20b1 describe	-	-			
	behaviour that depends on UE					
	capabilities/configuration; the "lower case					
	letter" identifies a step sequence that takes					
	place if one of those is supported/configured.					
20a1	IF MULTI_PDN	-	-			
	AND					
	pc_UE_supports_user_initiated_PDN_discon					
	nect THEN					
	the non-IMS PDN shall be released as					
	specified in TS 36.508 subclause 4.5A.17					
20b1	IF MULTI_PDN	-	-			
	AND NOT					
	pc_UE_supports_user_initiated_PDN_discon					
	nect THEN					
	the non-IMS PDN shall be released as					
	specified in TS 36.508 subclause 4.5A.18					
NOTE	1: The procedure is used with specific message					
	configured for voice domain preference IMS F					
	initiate EPS attach. The UE implementation s					
NOTE	- 1					
	configured for voice domain preference IMS PS voice preferred, CS Voice as secondary and to					
initiate EPS attach. The UE implementation supports TAU in idle mode,						

4.5.2A.4 Specific message contents

All specific message contents shall be referred to clause 4.6, 4.7 and 4.7A with the exceptions below.

Table 4.5.2A.4-1: RRCConnectionRequest (Step 2)

Information Element	Value/remark	Comment	Condition
RRCConnectionRequest ::= SEQUENCE {			
criticalExtensions CHOICE {			
rrcConnectionRequest-r8 SEQUENCE {			
ue-Identity	Any allowed value		
}			
}			
}			

Table 4.5.2A.4-2: UECapabilityInformation (Step 15)

Information Element	Value/remark	Comment	Condition
UECapabilityInformation ::= SEQUENCE {			
criticalExtensions CHOICE {			
c1 CHOICE{			
ueCapabilityInformation-r8	Any allowed value		
}			
}			
}			

Table 4.5.2A.4-3: TRACKING AREA UPDATE REQUEST (Steps 18a1 and 18b4)

ion combined_TA_LA	Derivation Path: 36.508 Table 4.7.2-27 with condition combined_T
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Table 4.5.2A.4-4: TRACKING AREA UPDATE ACCEPT (Steps 18a2 and 18b5)

Derivation Path: 36.508 Table 4.7.2-24 with condition combined_TA_LA

4.5.2B UE Registration, pre-registration on HRPD (State 2B)

The same assumptions and definitions apply as in clause 4.5.2.

4.5.2B.1 Initial conditions

System Simulator:

- Cell 1
- Cell 1 is transmitting SystemInformationBlockType8

User Equipment:

- The Test USIM shall be inserted.

4.5.2B.2 Definition of system information messages

Table 4.5.2B.2-1: SystemInformationBlockType1 for cell 1 (Steps 1-41, Table 4.5.2B.3-2)

Derivation Path: 36.508 Table 4.4.3.2-3			
Information Element	Value/remark	Comment	Condition
SystemInformationBlockType1 ::= SEQUENCE {			
schedulingInformation ::= SEQUENCE (SIZE	Combination 6 in TS	SIB2, SIB3 and	
(1maxSI-Message)) OF SEQUENCE {}	36.508 section 4.4.3.1	SIB 8 are	
		transmitted	
}			

Table 4.5.2B.2-2: SystemInformationBlockType8 for cell 1 (Steps 1-41, Table 4.5.2B.3-2)

Derivation Path: 36.508 Table 4.4.3.3-7, condition HR	PD		
Information Element	Value/remark	Comment	Condition
SystemInformationBlockType8 ::= SEQUENCE {			
parametersHRPD SEQUENCE {			
preRegistrationInfoHRPD SEQUENCE {			
preRegistrationAllowed	TRUE		
preRegistrationZoneId	ColorCode		
secondaryPreRegistrationZoneIdList	Not present		
SEQUENCE (SIZE (12)) OF SEQUENCE {			
PreRegistrationZoneIdHRPD	Not present		
}			
}			
cellReselectionParametersHRPD SEQUENCE {			
bandClassList SEQUENCE (SIZE (1maxCDMA -BandClass)) OF SEQUENCE {	1 entry		
bandClass	Band Class of frequency	ENUMERATED	
	under test	{bc0, bc1, bc2, bc3, bc4, bc5, bc6, bc7, bc8, bc9, bc10, bc11, bc12, bc13, bc14, bc15, bc16, bc17, spare14, spare13, spare12, spare11, spare10, spare9, spare8, spare7, spare6, spare5, spare4, spare3, spare2, spare1, }	
cellReselectionPriority	3		
threshX-High	30(-30)	INTEGER (063)	
threshX-Low	32(-32)	INTEGER (063)	
}			
neighCellList SEQUENCE (SIZE (116)) OF SEQUENCE {	1 entry		
bandClass	Band Class of frequency under test	ENUMERATED (bc0, bc1, bc2, bc3, bc4, bc5, bc6, bc7, bc8, bc9, bc10, bc11, bc12, bc13, bc14, bc15, bc16, bc17, spare14, spare13, spare12, spare11, spare10, spare9, spare8, spare7, spare6, spare5, spare4, spare1,}	
}			
}		NITEOED (2 =)	
t-ReselectionCDMA2000	3	INTEGER (07)	
}			
}			
}			

4.5.2B.3 Procedure

Table 4.5.2B.3-1 shows the cell power levels during the procedure.

Table 4.5.2B.3-1: Time instances of cell power level and parameter changes

	Parameter	Unit	Cell 1	Remark
T0	Cell-specific RS EPRE	dBm/15kHz	-75	-

Table 4.5.2B.3-2: UE registration with HRPD pre-registration procedure (state 1 to state 2B)

Step	Procedure	Message Sequence			
•		U-S	Message		
1 to	Same procedure for steps 1 to 16 as specified	-	-		
16	in the procedure in clause 4.5.2.3				
-	EXCEPTION: IF MULTI_PDN = TRUE THEN				
	in parallel to the events described in steps 17				
	to 40 below, the generic procedure for UE				
	establishing additional PDN connectivity as				
	specified in TS 36.508 subclause 4.5A.16				
47	takes place		III Information Transfer		
17	The UE transmits an ULInformationTransfer	>	ULInformationTransfer		
	containing a tunneled <i>UATIRequest</i> message Cell 1.				
18	The SS transmits a DLInformationTransfer	<	DLInformationTransfer		
10	containing a tunneled <i>UATIAssignment</i>	\	Demiormation ransier		
	message on Cell 1.				
19	The UE transmits an ULInformationTransfer	>	ULInformationTransfer		
	containing a tunneled <i>UATIComplete</i>		GEMIOIMAGOTTANGIO		
	message on Cell 1.				
20	The UE transmits an ULInformationTransfer	>	ULInformationTransfer		
	containing a tunneled				
	AlternateLinkOpenReqmessage on Cell 1.				
21	The SS transmits a DLInformationTransfer	<	DLInformationTransfer		
	containing a tunneled				
	AlternateLinkOpenConfmessage on Cell 1.				
22	The UE transmits an ULInformationTransfer	>	ULInformationTransfer		
	containing a tunneled				
	AlternateLinkOpenCompleteon Cell 1.				
23	The UE transmits an ULInformationTransfer	>	ULInformationTransfer		
	containing a tunneled ConfigurationRequest				
24	message for SCP configuration on Cell 1. The SS transmits a DLInformationTransfer	<	DLInformationTransfer		
24	containing a tunneled ConfigurationResponse		DEITHOITHAUOTTTANSIEI		
	message for SCP configuration on Cell 1.				
25	The UE transmits an ULInformationTransfer	>	ULInformationTransfer		
	containing a tunneled ConfigurationRequest				
	message for Stream protocol on Cell 1.				
26	The SS transmits a DLInformationTransfer	<	DLInformationTransfer		
	containing a tunneled ConfigurationResponse				
	message for Stream protocol accepting				
	EMPA bound to service network on Cell 1.				
27	The UE transmits an ULInformationTransfer	>	ULInformationTransfer		
	containing a tunneled EMPA				
	ConfigurationRequest message or MMPA				
- 00	ConfigurationRequest message on Cell 1.		DI Information Transfer		
28	The SS transmits a <i>DLInformationTransfer</i>	<	DLInformationTransfer		
	containing a tunneled EMPA ConfigurationResponse message or MMPA				
	ConfigurationResponse message on Cell 1.				
29	The UE transmits an <i>ULInformationTransfer</i>	>	ULInformationTransfer		
23	containing a tunneled ConfigurationComplete		OE I I O I I I I I I I I I I I I I I I I		
	message on Cell 1.				
30	The SS transmits a DLInformationTransfer	<	DLInformationTransfer		
	containing a tunneled <i>EMPA</i>]			
	ConfigurationRequest message or MMPA				
	ConfigurationRequest message on Cell 1.				
30A	The UE transmits an ULInformationTransfer	>	ULInformationTransfer		
	containing a tunneled EMPA				
	ConfigurationResponse message or MMPA				

		1	1
	ConfigurationResponse message on Cell 1.		
30B	The SS transmits an DLInformationTransfer	<	DLInformationTransfer
	containing a tunneled		
	SoftConfigurationComplete message on Cell		
000	1.		I II Information Transf
30C	The UE transmits an ULInformationTransfer	>	ULInformationTransfer
	containing a tunneled AlternateLinkCloseReq		
005	message on Cell 1.		Di information Transfer
30D	The SS transmits a DLInformationTransfer	<	DLInformationTransfer
	containing a tunneled AlternateLinkCloseConf		
24	message on Cell 1.		_
31	Optionally tunneled device level	<>	_
32	authentication may take place on Cell 1. Optionally tunneled Location Update		-
32	procedure may take place if the SS is	<>	_
	configured to support it.		
32A	The UE transmits an <i>ULInformationTransfer</i>	>	ULInformationTransfer
J27	containing a tunneled AlternateLinkOpenReq		- Samonnadon nanoioi
	message on Cell 1.		
32B	The SS transmits a DLInformationTransfer	<	DLInformationTransfer
320	containing a tunneled AlternateLinkOpenConf	`	
	message on Cell 1.		
32C	The UE transmits an ULInformationTransfer	>	ULInformationTransfer
	containing a tunneled		
	AlternateLinkOpenComplete message on Cell		
	1.		
33	Tunneled PPP LCP negotiation is performed	<>	-
	between the UE and the SS. EAP-AKA' is		
	selected as the authentication protocol.	<u> </u>	
33A	After entering PPP LCP Open State,	<->	-
	optionally tunneled PPP Version Capability		
	Indicaiton and/or Max PPP Inactivity Timer		
	negotiation may take place.		
34	Tunneled EAP-AKA' is performed between	<>	-
	the UE and the SS.		
35	The UE transmits an ULInformationTransfer	>	ULInformationTransfer
	containing a tunneled VSNCP Configure-		
	Request message, including a PDN-ID, PDN		
	Type, APN, PDN Address, Protocol		
	Configuration Options, and Attach Type =		
	"handover".		
	The Address Allocation Preference option contained in the Protocol Configuration		
	Options indicates whether the UE wants to		
	perform the IP address allocation during the		
	attach procedure or deferred IP address		
	allocation. PDN Type indicates the UE's IP		
	capability (IPv4, IPv6 or IPv4/v6)		
36	The SS transmits a <i>DLInformationTransfer</i>	<	DLInformationTransfer
	containing a tunneled VSNCP Configure-Ack		
	message.		
37	The SS transmits a DLInformationTransfer	<	DLInformationTransfer
	containing a tunneled VSNCP Configure-		
	Request message including the PDN-ID		
	configuration option.		
38	The UE transmits an ULInformationTransfer	>	ULInformationTransfer
	containing a tunneled VSNCP Configure-Ack		
	message.		
39	Optionally deferred IP address allocation	<>	
	using tunnelled IETF messages can take		
	place depending on the Address Allocation		
	Preference indicated by the UE at Step 35.		
39A	The UE transmits an ULInformationTransfer	>	ULInformationTransfer
	containing a tunneled AlternateLinkCloseReq		
	message on Cell 1.		Du C
39B	The SS transmits a DLInformationTransfer	<	DLInformationTransfer
	containing a tunneled AlternateLinkCloseConf		
1	message on Cell 1.	1	

40	Void.				
41	The SS transmits an RRCConnectionRelease	<	RRCConnectionRelease		
	message on Cell 1.				
-	EXCEPTION: Steps 42a1 to 42b1 describe	-	-		
	behaviour that depends on UE				
	capabilities/configuration; the "lower case				
	letter" identifies a step sequence that takes				
	place if one of those is supported/configured.				
42a1	IF MULTI_PDN	-	-		
	AND				
	pc_UE_supports_user_initiated_PDN_discon				
	nect THEN				
	the non-IMS PDN shall be released as				
	specified in TS 36.508 subclause 4.5A.17				
42b1	IF MULTI_PDN	-	-		
	AND NOT				
	pc_UE_supports_user_initiated_PDN_discon				
	nect THEN				
	the non-IMS PDN shall be released as				
	specified in TS 36.508 subclause 4.5A.18				
Note 1:	1		rocedures. More protocol negotiations can		
l	happen based on UE capability and SS emulation.				
Note 2:		essages	(steps 17-40) are not checked in terms of		
	conformance testing.				

NOTE: If step 31 is performed, an alternative link establishement procedure is also performed.

4.5.2B.4 Specific message contents

All specific message contents shall be referred to clause 4.6, 4.7 and 4.7A with the exceptions below.

Table 4.5.2B.4-1: RRCConnectionRequest (Step 2, Table 4.5.2B.3-2)

Derivation Path: Table 4.6.1-16			
Information Element	Value/remark	Comment	Condition
RRCConnectionRequest ::= SEQUENCE {			
criticalExtensions CHOICE {			
rrcConnectionRequest-r8 SEQUENCE {			
ue-Identity	Any allowed value		
}			
}			
}			

Table 4.5.2B.4-2: UECapabilityInformation (Step13, Table 4.5.2B.3-2)

Derivation Path: Table 4.6.1-23			
Information Element	Value/remark	Comment	Condition
UECapabilityInformation ::= SEQUENCE {			
criticalExtensions CHOICE {			
c1 CHOICE{			
ueCapabilityInformation-r8	Any allowed value		
}			
}			
}			

Table 4.5.2B.4-3: UATI Request message (Step 17, Table 4.5.2B.3-2)

Field	Value/remark	Comment	Condition
SAPState	'0'B	SAP Header	
SessionConfigurationToken	16 bits, Set by UE		
ConnectionLayerFormat	1 bit, Set by UE		
ATI Record	34 bits, RATI set by UE		
Reserved	'0000'B		
MessageID	'00000000'B	UATI Request	
TransactionID	8 bits, Set by UE		

Table 4.5.2B.4-4: UATI Assignment message (Step 18, Table 4.5.2B.3-2)

Field Value/rem		Comment	Condition
SAPState	'1'B	SAP Header	
SessionConfigurationToken	'0'		
ConnectionLayerFormat	1 bit, Set by SS		
ATI Record	34 bits, RATI set in UATI Request		
Reserved	'0000'B		
MessageID	'0000001'B	UATI Assignment	
MessageSequence	8 bits, Set by SS		
Reserved1	'0000000'B		
SubnetIncluded	'1'B		
UATISubnetMask	'1101000'B		
UATI104	104 bits, Set by SS		
UATIColorCode	8 bits, Set to ColorCode		
UATI024	24 bits, Set by SS		
UpperOldUATILength	'0000'B		
Reserved2	'0000'B		

4.5.2C UE Registration, pre-registration on 1xRTT (State 2C)

The same assumptions and definitions apply as in clause 4.5.2.

4.5.2C.1 Initial conditions

System Simulator:

- Cell 1
- Cell 1 is transmitting SystemInformationBlockType8

User Equipment:

- The Test USIM shall be inserted.
- The UE is switched OFF.

4.5.2C.2 Definition of system information messages

Table 4.5.2C.2-1: SystemInformationBlockType1 for cell 1 (Steps 1-19, Table 4.5.2C.3-2)

Derivation Path: 36.508 Table 4.4.3.2-3			
Information Element	Value/remark	Comment	Condition
SystemInformationBlockType1 ::= SEQUENCE {			
schedulingInformation ::= SEQUENCE (SIZE	Combination 6 in TS	SIB2, SIB3 and	
(1maxSI-Message)) OF SEQUENCE {}	36.508 section 4.4.3.1	SIB 8 are	
		transmitted	
}			

Table 4.5.2C.2-2: SystemInformationBlockType8 for cell 1 (Steps 1-19, Table 4.5.2C.3-2)

Derivation Path: 36.508 Table 4.4.3.3-7, condition 1XF		Comment	Complished
Information Element	Value/remark	Comment	Condition
SystemInformationBlockType8 ::= SEQUENCE {			
parameters1XRTT SEQUENCE {			
csfb-RegistrationParam1XRTT SEQUENCE {	OID 1	DIT OTDING	
Sid	SID under test	BIT STRING	
	For Signalling test cases,	(SIZE (15))	
NEA	see table 4.4.2-4 NID under test	BIT STRING	
Nid		(SIZE (16))	
	For Signalling test cases, see table 4.4.2-4	(SIZE (10))	
multipleSID	TRUE	BOOLEAN	
multipleNID	TRUE	BOOLEAN	
homeReg	TRUE	BOOLEAN	
foreignSIDReg	TRUE	BOOLEAN	
foreignNIDReg	TRUE	BOOLEAN	
parameterReg	TRUE	BOOLEAN	
powerUpReg	TRUE	BOOLEAN	
registrationPeriod	'0000000'	BIT STRING	
rogistration choa		(SIZE (7))	
registrationZone	Registration zone under	BIT STRING	
registrationzone	test	(SIZE (12))	
	For Signalling test cases,	(0.22 (12))	
	see table 4.4.2-4		
totalZone	'001'B	BIT STRING	
		(SIZE (3))	
zoneTimer	'000'B or '001'B	BIT STRING	
		(SIZE (3))	
}			
longCodeState1XRTT	A valid value, calculated	BIT STRING	
	and updated by the SS	(SIZE (42))	
		OPTIONAL	
cellReselectionParameters1XRTT SEQUENCE {			
bandClassList SEQUENCE (SIZE (1maxCDMA	1 entry		
-BandClass)) OF SEQUENCE {			
bandClass	Band Class of frequency	ENUMERATED	
	under test	{bc0, bc1, bc2,	
		bc3, bc4, bc5,	
		bc6, bc7, bc8,	
		bc9, bc10, bc11,	
		bc12, bc13, bc14,	
		bc15, bc16, bc17,	
		spare14, spare13,	
		spare12, spare11,	
		spare10, spare9,	
		spare8, spare7,	
		spare6, spare5,	
		spare4, spare3,	
		spare2, spare1,	
		}	
cellReselectionPriority	3		
	30(-30)	INTEGER (063)	
threshX-High		INTEGER (063)	
threshX-Low	32(-32)	1141	
	32(-32)	11412021((000)	
	32(-32)	111120211 (000)	
threshX-Low }	32(-32)	111120EN (000)	
threshX-Low } csfb-RegistrationParam1XRTT-v920{	32(-32) TRUE	INTEGER (000)	
threshX-Low }		INTEGER (660)	
threshX-Low } csfb-RegistrationParam1XRTT-v920{		INTEGER (660)	

4.5.2C.3 Procedure

Table 4.5.2C.3-1 shows the cell power levels after the preamble.

Table 4.5.2C.3-1: Time instances of cell power level and parameter changes

	Parameter	Unit	Cell 1	Remark
T0	Cell-specific RS EPRE	dBm/15kHz	-60	-

Table 4.5.2C.3-2: UE registration with 1xRTT pre-registration procedure (state 1 to state 2C)

Step	Procedure	Message Sequence		
•		U-S	Message	
1 to	Same procedure for steps 1 to 16 as specified	-	-	
16	in the procedure in clause 4.5.2.3			
-	EXCEPTION: IF MULTI_PDN = TRUE THEN			
	in parallel to the events described in steps			
	16A to 18 below, the generic procedure for			
	UE establishing additional PDN connectivity			
	as specified in TS 36.508 subclause 4.5A.16			
	takes place			
16A	The UE transmits a	>	CSFBParametersRequestCDMA2000	
	CSFBParametersRequestCDMA2000 on Cell			
	1?			
16B	The SS transmits a	<	CSFBParametersResponseCDMA2000	
	CSFBParametersResponseCDMA2000 on			
	Cell 1.			
17	The UE transmits an ULInformationTransfer	>	ULInformationTransfer	
	containing a 1xRTT GCSNA Encapsulated			
	Registration message on Cell 1.			
17A	The SS transmits a DLInformationTransfer	<	DLInformationTransfer	
	containing a GCSNA Ack message on Cell 1.			
18	The SS transmits a DLInformationTransfer	<	DLInformationTransfer	
	containing a 1x RTT GCSNA Encapsulated			
	Registration Accept Order on Cell 1.		BB00 # B /	
19	The SS transmits an RRCConnectionRelease	<	RRCConnectionRelease	
	message on Cell 1.			
-	EXCEPTION: Steps 20a1 to 20b1 describe	-	-	
	behaviour that depends on UE			
	capabilities/configuration; the "lower case			
	letter" identifies a step sequence that takes			
20a1	place if one of those is supported/configured. IF MULTI_PDN			
20a i	IP MOLTI_PDN AND	-	-	
	pc_UE_supports_user_initiated_PDN_discon			
	pc_ob_supports_user_initiated_rbN_discon			
	the non-IMS PDN shall be released as			
	specified in TS 36.508 subclause 4.5A.17			
20b1	IF MULTI_PDN	_	-	
_001	AND NOT			
	pc_UE_supports_user_initiated_PDN_discon			
	nect THEN			
	the non-IMS PDN shall be released as			
	specified in TS 36.508 subclause 4.5A.18			
Note: N	Message contents of tunnelled CDMA2000 message	aes (stei	os 17-18) are not checked in terms of	
	conformance testing.	J (-10)	-,	

Table 4.5.2C.3-3: Void

4.5.2C.4 Specific message contents

All specific message contents shall be referred to clause 4.6, 4.7 and 4.7A with the exceptions below.

Table 4.5.2C.4-1: RRCConnectionRequest (Step 2, Table 4.5.2C.3-2)

Derivation Path: Table 4.6.1-16			
Information Element	Value/remark	Comment	Condition
RRCConnectionRequest ::= SEQUENCE {			
criticalExtensions CHOICE {			
rrcConnectionRequest-r8 SEQUENCE {			
ue-Identity	Any allowed value		
}			
}			
}			

Table 4.5.2C.4-2: UECapabilityInformation (Step 13, Table 4.5.2C.3-2)

Derivation Path: Table 4.6.1-23			
Information Element	Value/remark	Comment	Condition
UECapabilityInformation ::= SEQUENCE {			
criticalExtensions CHOICE {			
c1 CHOICE{			
ueCapabilityInformation-r8	Any allowed value		
}			
}			
}			

Table 4.5.2C.4-3: Void

Table 4.5.2C.4-4: Void

Table 4.5.2C.4-5: CSFBParametersResponseCDMA2000 (Step 16B, Table 4.5.2C.3-2)

Value/remark	Comment	Condition
Random Challenge Data set by SS		
Set according to Table 4.5.2C.4-6		
	•	
	Random Challenge Data set by SS Set according to Table	Random Challenge Data set by SS Set according to Table

Table 4.5.2C.4-6: mobilityParameters (CDMA2000Parameters) (Step 16B, Table 4.5.2C.3-2)

Information Element	Value/remark	Comment	Condition
RecordType	'00000000'B		
SIDIncluded	'1'B		
SID	The same as SIB8		
NIDIncluded	'1'B		
NID	The same as SIB8		
REG_ZONEIncluded	'1'B		
REG_ZONE	The same as SIB8		
TOTAL_ZONESIncluded	'1'B		
TOTAL_ZONES	The same as SIB8		
ZONE_TIMERIncluded	'1'B		
ZONE_TIMER	The same as SIB8		
PACKET_ZONE_IDIncluded	'0'B		
PACKET_ZONE_ID	Not present		
PZIDHystParametersIncluded	'0'B		
PZ_HYST_ENABLED	Not present		

PZ_HYST_LIST_LEN	DZ LIVOT INICO INICI	Natara
PZ_HYST_ACT_TIMER	PZ_HYST_INFO_INCL	Not present
P.Z. HYST_TIMER_MUL		
P. Z. HYST TIMER EXP Not present P. REV '18 P. REV '19 P. REV '19 P. REV '100000110'B MIN P. REV '100000110'B MIN P. REV '100000110'B MIN P. REV '100000110'B '19 MIN P. REV '100000110'B '10 MIN P. REV '1000000110'B '10 MIN P. REV '1000000110'B '10 MIN P. REV '1000000110'B '10 MIN P. REV '100000000000000000000000000000000000		
P.Z. HYST TIMER_EXP	PZ_HYST_TIMER_MUL	Not present
P. REV	PZ HYST TIMER EXP	
P.REV		'1'B
MIN.P. REVIncluded		
MIN_P_REV		
Top		
NEG SLOT CYCLE INDEX SUP	MIN_P_REV	'00000110'B
NEG SLOT CYCLE INDEX SUP	'0'B NEG_SLOT_CYCLE_INDEX_SUPIncluded	
ENCRYPT MODE		Not present
ENCRYPT_MODE		
ENC. SUPPORTED Not present		
ENC. SUPPORTED	_	
SIG ENCRYPT SUP		
SIG ENCRYPT SUP		
MSG_INTEGRITY_SUP Not present	SIG_ENCRYPT_SUPIncluded	'0'B
MSG_INTEGRITY_SUP Not present	SIG ENCRYPT SUP	Not present
MSG INTEGRITY SUP INCLIncluded 'O'B SIG INTEGRITY SUP INCL Not present SIG INTEGRITY SUP Not present SIG		
SIG INTEGRITY_SUP_INCL SIG INTEGRITY_SUP_INCL SIG INTEGRITY_SUP_INCL SIG INTEGRITY_SUP_INCL SIG INTEGRITY_SUP_INCL SIG INTEGRITY_SUP_INCL AUTHINGUIDED AUTH		
SIG INTEGRITY SUP INCL		
SIG_INTEGRITY_SUP		
SIG_INTEGRITY_SUP		
SIG_INTEGRITY_SUP	SIG_INTEGRITY_SUPIncluded	'0'B
AUTH		
AUTH		'1'B
MAX NUM_ALT_SO		
MAX_NUM_ALT_SO		
USE_SYNC_ID Not present		
USE_SYNC_ID		'000'B
USE_SYNC_ID	USE SYNC IDIncluded	'0'B
MS_INIT_POS_LOC_SUP_IND		Not present
MS_INIT_POS_LOC_SUP_IND		
MOB_QOS Not present		
MOB_QOS		
BAND_CLASS_INFO_REQIncluded '0'B		
BAND_CLASS_INFO_REQIncluded '0'B	MOB QOS	Not present
BAND_CLASS_INFO_REQ Not present BAND_CLASSIncluded '1'B BAND_CLASS '00000'B BYPASS_REG_INDIncluded '0'B BYPASS_REG_IND Not present '0'B ALT_BAND_CLASSIncluded ALT_BAND_CLASS MAX_ADD_SERV_INSTANCEIncluded '0'B MAX_ADD_SERV_INSTANCE Not present HOME_REGIncluded '1'B HOME_REG The same as SIB8 FOR_SID_REGIncluded '1'B FOR_SID_REGIncluded '1'B FOR_NID_REGIncluded '1'B FOR_NID_REGIncluded '1'B FOR_NID_REGIncluded '1'B FOR_NID_REGIncluded '1'B FOR_NID_REGIncluded '1'B POWER_UP_REGIncluded '1'B POWER_UP_REGIncluded '1'B POWER_DOWN_REGINCLUDED '1'B POWER_DOWN_REG The same as SIB8 PARAMETER_REGINCLUDED '1'B PARAMETER_REG The same as SIB8 REG_PRDIncluded '1'B REG_PRDIncluded '1'B REG_DISTIncluded <td></td> <td></td>		
BAND_CLASS '00000'B BAND_CLASS '00000'B BYPASS_REG_INDIncluded '0'B BYPASS_REG_INDD Not present '0'B ALT_BAND_CLASS Not present MAX_ADD_SERV_INSTANCEIncluded '0'B MAX_ADD_SERV_INSTANCE Not present MAX_ADD_SERV_INSTANCE Not present HOME_REG_Included '1'B HOME_REG_Included '1'B HOME_REG_Included '1'B FOR_SID_REG_Included '1'B FOR_SID_REG_Included '1'B FOR_NID_REG_Included '1'B FOR_NID_REG_Included '1'B FOR_NID_REG_Included '1'B FOR_NID_REG_Included '1'B FOR_NID_REG_Included '1'B FOR_NID_REG_Included '1'B FOWER_UP_REG_Included '1'B FOW		
BAND_CLASS '00000'B		
BYPASS REG_IND Not present '0'B ALT_BAND_CLASSIncluded Not present ALT_BAND_CLASS Not present MAX_ADD_SERV_INSTANCEIncluded '0'B MAX_ADD_SERV_INSTANCE Not present HOME_REGIncluded '1'B HOME_REG The same as SIB8 FOR_SID_REGIncluded '1'B FOR_SID_REG The same as SIB8 FOR_NID_REG The same as SIB8 FOR_NID_REG The same as SIB8 POWER_UP_REGIncluded '1'B POWER_UP_REG The same as SIB8 POWER_UP_REG The same as SIB8 POWER_DOWN_REGIncluded '1'B PARAMETER_REGIncluded '1'B PARAMETER_REG The same as SIB8 REG_PRDIncluded '1'B REG_DISTIncluded '1'B REG_DISTIncluded '0'B REG_DIST Not present PREF_MSID_TYPE '11'B PREF_MSID_TYPEIncluded '0'B EXT_PREF_MSID_TYPEIncluded '0'B EXT_PREF_MSID_TYPEIncluded '0'B EXT_		
BYPASS_REG_IND '0'B ALT_BAND_CLASSIncluded ALT_BAND_CLASS Not present MAX_ADD_SERV_INSTANCEIncluded MAX_ADD_SERV_INSTANCE MAX_ADD_SERV_INSTANCE Not present HOME_REGIncluded '1'B HOME_REGIncluded FOR_SID_REGIncluded FOR_SID_REGIncluded FOR_NID_REGIncluded '1'B FOR_NID_REGIncluded '1'B FOR_NID_REGIncluded '1'B FOR_NID_REGIncluded '1'B POWER_UP_REGIncluded '1'B POWER_UP_REGIncluded '1'B POWER_UP_REGIncluded '1'B POWER_DOWN_REGIncluded '1'B POWER_DOWN_REG The same as SIB8 PARAMETER_REGIncluded '1'B PARAMETER_REGIncluded '1'B PARAMETER_REG The same as SIB8 REG_PRD The same as SIB8 The same as SI		
'0'B ALT_BAND_CLASSIncluded Not present ALT_BAND_CLASS Not present MAX_ADD_SERV_INSTANCEIncluded '0'B MAX_ADD_SERV_INSTANCE Not present HOME_REGIncluded '1'B HOME_REG The same as SIB8 FOR_SID_REGIncluded '1'B FOR_SID_REG The same as SIB8 FOR_NID_REGIncluded '1'B FOR_NID_REG The same as SIB8 POWER_UP_REGIncluded '1'B POWER_UP_REG The same as SIB8 POWER_DOWN_REG The same as SIB8 POWER_DOWN_REG The same as SIB8 PARAMETER_REGIncluded '1'B PARAMETER_REG The same as SIB8 REG_PRDIncluded '1'B REG_DISTIncluded '0'B REG_DIST Not present PREF_MSID_TYPEIncluded '1'B PREF_MSID_TYPE '11'B EXT_PREF_MSID_TYPE Not present MEID_REQDIncluded '0'B		'0'B
'0'B ALT_BAND_CLASSIncluded Not present ALT_BAND_CLASS Not present MAX_ADD_SERV_INSTANCEIncluded '0'B MAX_ADD_SERV_INSTANCE Not present HOME_REGIncluded '1'B HOME_REG The same as SIB8 FOR_SID_REGIncluded '1'B FOR_SID_REG The same as SIB8 FOR_NID_REGIncluded '1'B FOR_NID_REG The same as SIB8 POWER_UP_REGIncluded '1'B POWER_UP_REG The same as SIB8 POWER_DOWN_REG The same as SIB8 POWER_DOWN_REG The same as SIB8 PARAMETER_REGIncluded '1'B PARAMETER_REG The same as SIB8 REG_PRDIncluded '1'B REG_DISTIncluded '0'B REG_DIST Not present PREF_MSID_TYPEIncluded '1'B PREF_MSID_TYPE '11'B EXT_PREF_MSID_TYPE Not present MEID_REQDIncluded '0'B	BYPASS REG IND	Not present
ALT_BAND_CLASS MAX_ADD_SERV_INSTANCE		
MAX_ADD_SERV_INSTANCE		Not precent
MAX_ADD_SERV_INSTANCE HOME_REGIncluded HOME_REG HOME_REG The same as SIB8 FOR_SID_REGIncluded FOR_SID_REG The same as SIB8 FOR_NID_REG FOR_NID_REGIncluded FOR_NID_REG The same as SIB8 FOR_NID_REG FOR_NID_REG The same as SIB8 POWER_UP_REGIncluded FOR_NID_REG The same as SIB8 POWER_UP_REGIncluded FOR_NID_REG The same as SIB8 POWER_UP_REG The same as SIB8 POWER_DOWN_REGIncluded FOR_NOWN_REGINCLUDED FOR_REG ThE SAME AS SIB8 FOR_REG_REG THE SAME AS SIB8 FOR_REG_PRDINCLUDED FOR_REG_THE SAME AS SIB8 FOR_REG_PRDINCLUDED FOR_REG_THE SAME AS SIB8 FOR_REG_PRDINCLUDED FOR_REG_THE SAME AS SIB8 FOR_REG_PRD FOR_REG_THE SAME AS SIB8 FOR_REG_PRD FOR_REG_THE SAME AS SIB8 FOR_REG_DISTINCLUDED FOR_REG_THE SAME AS SIB8 FOR_SID_TYPEINCLUDED FOR_REG_THE SAME AS SIB8 FOR_SID_TYPEINCLUDED FOR_REG_THE SAME AS SIB8 FOR_SID_TYPEINCLUDED FOR_SID		
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EXT_PREF_MSID_TYPEIncluded '0'B EXT_PREF_MSID_TYPE Not present MEID_REQDIncluded '0'B	PREF_MSID_TYPE	'11'B
EXT_PREF_MSID_TYPE Not present MEID_REQDIncluded '0'B		
MEID_REQDIncluded '0'B		
MEID_REQD Not present		
	MEID_REQD	Not present

MCCIncluded	'1'B	
MCC	See the Table 4.4.2-4	
	Note 1, Note 2	
IMSI_11_12Included	'1'B	
IMSI_11_12	See the Table 4.4.2-4	
	Note 1, Note 2	
IMSI_T_SUPPORTEDIncluded	'1'B	
IMSI_T_SUPPORTED	'0'B	
RECONNECT_MSG_INDIncluded	'0'B	
RECONNECT_MSG_IND	Not present	
RER_MODE_SUPPORTEDIncluded	'0'B	
RER_MODE_SUPPORTED	Not present	
TKZ_MODE_SUPPORTEDIncluded	'0'B	
TKZ_MODE_SUPPORTED	Not present	
TKZ_IDIncluded	'0'B	
TKZ_ID	Not present	
PILOT_REPORTIncluded PILOT_REPORT	'0'B	
PILOT_REPORT	Not present	
SDB_SUPPORTEDIncluded	'0'B	
SDB_SUPPORTED	Not present	
AUTO_FCSO_ALLOWEDIncluded	'0'B	
AUTO_FCSO_ALLOWED	Not present	
SDB_IN_RCNM_INDIncluded	'0'B	
SDB_IN_RCNM_IND	Not present	
FPC_FCH_Included	'1'B	
FPC_FCH_INIT_SETPT_RC3	'00011000'B	
FPC_FCH_INIT_SETPT_RC4	'00011000'B	
FPC_FCH_INIT_SETPT_RC5	'00011000'B	
FPC_FCH_INIT_SETPT_RC11	'00000000'B	
FPC_FCH_INIT_SETPT_RC12	'00000000'B	
T_ADD_Included	'0'B	
T_ADD	Not present	
PILOT_INC_Included	'1'B	
PILOT_INC	'0010'B	
RAND_Included	'0'B	
RAND	Not present	
LP_SEC_Included	'1'B	
LP_SEC	'00000000'B	
LTM_OFF_Included	'1'B	
LTM_OFF	'000000'B	
DAYLT_Included	'1'B	
DAYLT	'0'B	
GCSNAL2AckTimer_Included	'1'B	
GCSNAL2AckTimer	'00000001'B	
GCSNASequenceContextTimer_Incl	'1'B	
•	1	
uded		

Table 4.5.2C.4-7: ULInformationTransfer (Step 17, Table 4.5.2C.3-2)

Derivation Path: 36.508 Table 4.6.1-25			
Information Element	Value/remark	Comment	Condition
ULInformationTransfer ::= SEQUENCE {			
criticalExtensions CHOICE {			
c1 CHOICE {			
ulInformationTransfer-r8 SEQUENCE {			
<pre>dedicatedInformationType CHOICE {</pre>			
dedicatedInfoCDMA2000-1XRTT	Set according to Table 4.5.2C.4-8		
}			
}			
}			
}			
}		· · · · · · · · · · · · · · · · · · ·	

Table 4.5.2C.4-8: 1xRTT GCSNA Encapsulated Registration message (Step 17, Table 4.5.2C.3-2)

Information Element	Value/remark	Comment	Condition
MessageID	'0000001'B	GCSNA1xCircuitS	
		ervice message	
GCSNAOption	'0000001'B		
AlternativeGCSNAOption_INCL	'0'B		
IWSIDIncl	'0'B		
AckRequired	'1'B		
StopDupDetect	'0'B		
MessageSequence	Set by UE		
NumTLACEncapsulated1xL3PDU	'00'B		
Reserved	'0000'B		
1xLogicalChannel	'0'B		
1xProtocolRevision	'00000110'B		
MsgType	'0000001'B	Registration	
		message	
NumTLACHeaderRecords	'0001'B		
TLACHeaderRecordType	'0000'B		
TLACHeaderRecordLength	8 bits, Set by UE		
MSID_TYPE	'011'B		
MSID_LEN	4 bits, Set by UE		
MSID	Variable, Set by UE		
Reserved	'0000000'B		
1xL3PDULength	16 bits, Set by UE		
REG_TYPE	'0001'B	Power up	
		registration	
SLOT_CYCLE_INDEX	'010'B		
MOB_P_REV	8 bits, Set by UE		
SCM	8 bits, Set by UE		
MOB_TERM	'1'B		
RETURN_CAUSE	'1'B		
QPCH_SUPPORTED	'1'B		
ENHANCED_RC	'1'B		
UZID_INCL	'0'B		

Table 4.5.2C.4-9: 1xRTT CS Registration Accept Order (Step 18, Table 4.5.2C.3-2)

Information Element	Value/remark	Comment	Condition
MessageID	'00000001'B		
GCSNAOption	'00000001'B		
AlternativeGCSNAOption_INCL	'0'B		
IWSIDIncl	'0'B		
AckRequired	'0'B		
StopDupDetect	'0'B		
MessageSequence	6 bits, Set by SS		
NumTLACEncapsulated1xL3PDU	'00'B		
Reserved	'0000'B		
1xLogicalChannel	'0'B		
1xProtocolRevision	'00000110'B		
MsgType	'00000111'B	Order message	
NumTLACHeaderRecords	'0000'B		
Reserved	'000'B		
1xL3PDULength	16 bits, Set by SS		
ORDER	'011011'B	Registration	
		Accept Order	
ADD_RECORD_LEN	'001'B		
ORDQ	'00000000'B		

Table 4.5.2C.4-10: ATTACH ACCEPT (Step 14, Table 4.5.2C.3-2)

Derivation Path: 36.508 clause 4.7.2			
Information Element	Value/remark	Comment	Condition
EPS attach result	'0001'B	EPS only	
EMM cause	'0001 0010'B	#18 "CS domain not available"	combined_E PS_IMSI

4.5.2D UE Registration, 2 PDN for RAN Assisted WLAN Interworking (State 2)

The same assumptions and definitions apply as in clause 4.5.2.

4.5.2D.1 Initial conditions

System Simulator:

- 1 cell, default parameters.
- The procedure shall be performed under ideal radio conditions as defined in clause 5

User Equipment:

- The Test UICC shall be inserted. This shall contain either ISIM and USIM applications or only a USIM application on UICC.

4.5.2D.2 Definition of system information messages

The default system information messages are used.

4.5.2D.3 Procedure

Table 4.5.2D.3-1: UE registration procedure (state 1 to state 2)

Step	Procedure	Message Sequence		
-		U - S	Message	
1-16	Steps 1 to 16 of the generic test procedure for UE registration sub clause 4.5.2.3.	-	-	
	EXCEPTION: Step17 depends on UE configuration, executed if UE does not automatically trigger additional PDN Connection.			
17	Cause the UE to request connectivity to an additional PDN (see Note 1)			
18- 21	The generic procedure for UE establishing additional PDN connectivity as specified in TS 36.508 subclause 4.5A.16 takes place			
22	The SS transmits an RRCConnectionRelease message to release RRC connection and move to RRC_IDLE (State 2).	<	RRC: RRCConnectionRelease	
NOTE	NOTE 1: The request of connectivity to an additional PDN may be performed by MMI or AT command.			

4.5.2D.4 Specific message contents

All specific message contents shall be referred to clause 4.6 and 4.7 with the exceptions below.

Table 4.5.2D.4-1: RRCConnectionRequest (Step 2)

Derivation Path: Table 4.6.1-16			
Information Element	Value/remark	Comment	Condition
RRCConnectionRequest ::= SEQUENCE {			
criticalExtensions CHOICE {			
rrcConnectionRequest-r8 SEQUENCE {			
ue-Identity	Any allowed value		
}			
}			
}			

Table 4.5.2D.4-2: UECapabilityInformation (Step 13)

Derivation Path: Table 4.6.1-23			
Information Element	Value/remark	Comment	Condition
UECapabilityInformation ::= SEQUENCE {			
criticalExtensions CHOICE {			
c1 CHOICE{			
ueCapabilityInformation-r8	Any allowed value		
}			
}			
}			

Table 4.5.2D.4-3: ACTIVATE DEFAULT EPS BEARER CONTEXT REQUEST (Step 14 a)

else			T	
Information Element	Value/remark	Comment	Condition	
EPS bearer identity	'0101'B	arbitrary value used for PDN connectivity being maintained during the test case	PDN1_IMS OR NOT MULTI_PDN	
EPS bearer identity	'1100'B	arbitrary value used for additional PDN connectivity which may be released before entering the test procedure of the test case	MULTI_PDN AND NOT PDN1_IMS	
PDN address			IPv4_addres s_only	
Length of PDN address contents	5 octets		•	
PDN type value	'001'B	IPv4		
PDN address information	IPv4 address	The SS provides a valid IPv4 address	NOT IPv4- DHCP	
	0.0.0.0	DHCPv4 is to be used to allocate the IPv4 address	IPv4-DHCP	
ESM cause	IF "PDN type" IE in step 4 is 'IPv4v6' THEN '00110010'B ELSE Not present	"PDN type IPv4 only allowed"		
WLAN offload indication	Not present			
WLAN offload indication			NOT PDN1_IMS	
WLAN offload acceptability	'0001'B	Offloading the traffic of the PDN connection via a WLAN when in S1 mode is acceptable	_	

NOTE: The default message contents specified in table 4.7.3-6 apply unless the condition IPv4_address_only in table 4.5.2D.4-3 is true.

Condition	Explanation			
IPv4_address_only	This condition applies if the test case preamble description indicates that the UE is			
	allocated an IPv4 address.			
IPv4-DHCP	If in the last PDN CONNECTIVITY REQUEST or ESM INFORMATION RESPONSE sent prior to this message, the IE Protocol configuration options contains a configuration protocol option = '000B00H' ("IPv4 address allocation via DHCPv4", length of contents = 0). Note 1: This condition is used in conjunction with IPv4 or IPv4v6 as indicated in the "PDN address row" just above. Note 2: If both messages, PDN CONNECTIVITY REQUEST and ESM INFORMATION RESPONSE, are received and contain a Protocol configuration options IE then the IE from the message which is received later shall be used.			

Table 4.5.2D.4-4: Message ACTIVATE DEFAULT EPS BEARER CONTEXT REQUEST (step 19)

Derivation path:			
Table 4.7.3-6 with condition IMS_PDN_ConnEstable 4.6.1-8 with condition AM-DRB-ADD(1) for			nd
Information Element	Value/Remark	Comment	Condition
EPS bearer identity	'0101'B	arbitrary value used for PDN connectivity being maintained during the test case	PDN2_IMS
EPS bearer identity	'1100'B	arbitrary value used for additional non-IMS PDN connectivity	NOT PDN2_IMS
Procedure transaction identity	PTI-1	SS re-uses the particular PTI defined by UE for this present additional PDN connectivity request procedure	
WLAN offload indication	Not present		
WLAN offload indication			NOT PDN2_IMS
WLAN offload acceptability	'0001'B	Offloading the traffic of the PDN connection via a WLAN when in S1 mode is acceptable	

4.5.3 Generic Radio Bearer Establishment (State 3)

Editor note: The default parameter and system information will depend on progress in Clause 4.4, once it is finalised RAN5 can refer to them accordingly.

4.5.3.1 Initial conditions

System Simulator:

- Parameters are set to the default parameters for the basic single cell environment, as defined in subclause 4.4, unless otherwise specified in the test case.

User Equipment:

- The UE shall be in Registered, Idle Mode state (State 2).

4.5.3.2 Definition of system information messages

The default system information messages are used.

4.5.3.3 Procedure

The establishment of generic radio bearer connection is assumed to always be mobile terminated.

Table 4.5.3.3-1: Generic Radio Bearer establishment procedure (state 2 to state 3)

Step	Procedure		Message Sequence
		U-S	Message
1		<	RRC: SYSTEM INFORMATION (BCCH)
2	SS sends a <i>Paging</i> message to the UE on the appropriate paging block, and including the UE identity in one entry of the IE <i>pagingRecordLists</i> .	<	RRC: Paging (PCCH)
3	UE transmits an RRCConnectionRequest message.	>	RRC: RRCConnectionRequest
4	SS transmit an <i>RRCConnectionSetup</i> message.	<	RRC: RRCConnectionSetup
5	The UE transmits an RRCConnectionSetupComplete message to confirm the successful completion of the connection establishment and to initiate the session management procedure by including the SERVICE REQUEST message. (State3)	>	RRC: RRCConnectionSetupComplete NAS: SERVICE REQUEST
6	The SS transmits a SecurityModeCommand message to activate AS security.	<	RRC: SecurityModeCommand
7	The UE transmits a SecurityModeComplete message and establishes the initial security configuration.	>	RRC: SecurityModeComplete
8	The SS configures a new data radio bearer, associated with the default EPS bearer context. IF the test case using state 3 as an initial state is using N additional data radio bearers (0 ≤ N ≤ 7), the RRCConnectionReconfiguration message contains the configuration of these additional data radio bearers in the drb-ToAddModify IE and one ACTIVATE DEDICATED EPS BEARER CONTEXT REQUEST message per additional data radio bearer. The RRCConnectionReconfiguration message is using condition SRB2-DRB(1+n, m) where n and m are the number of DRBs associated with dedicated EPS bearer contexts and configured respectively with RLC-AM and RLC-UM (n+m = N).	V	RRC: RRCConnectionReconfiguration NAS: ACTIVATE DEDICATED EPS BEARER CONTEXT REQUEST ACTIVATE DEDICATED EPS BEARER CONTEXT REQUEST
-	EXCEPTION: the steps 9 and 10a1 to 10a3 (if present) happen in any order.	-	-
9	The UE transmits an RRCConnectionReconfigurationComplete message to confirm the establishment of the new data radio bearer, associated with the default EPS bearer context.	>	RRC: RRCConnectionReconfigurationComplet e
10a1	IF N ≥ 1 (see step 8), the UE transmits an ACTIVATE DEDICATED EPS BEARER CONTEXT ACCEPT message matching with the 1st ACTIVATE DEDICATED EPS BEARER CONTEXT REQUEST message included in step 8.	>	RRC: ULInformationTransfer NAS: ACTIVATE DEDICATED EPS BEARER CONTEXT ACCEPT
10a2	IF N ≥ 2 (see step 8), the UE transmits an ACTIVATE DEDICATED EPS BEARER CONTEXT ACCEPT message matching with the 2nd ACTIVATE DEDICATED EPS	>	RRC: ULInformationTransfer NAS: ACTIVATE DEDICATED EPS BEARER CONTEXT ACCEPT

	BEARER CONTEXT REQUEST message included in step 8.		
10a3	IF N ≥ 3 (see step 8), the UE transmits an ACTIVATE DEDICATED EPS BEARER CONTEXT ACCEPT message matching with the 3rd ACTIVATE DEDICATED EPS BEARER CONTEXT REQUEST message included in step 8.	^	RRC: ULInformationTransfer NAS: ACTIVATE DEDICATED EPS BEARER CONTEXT ACCEPT
10a4	IF N ≥ 4 (see step 8), the UE transmits an ACTIVATE DEDICATED EPS BEARER CONTEXT ACCEPT message matching with the 4th ACTIVATE DEDICATED EPS BEARER CONTEXT REQUEST message included in step 8.	>	RRC: ULInformationTransfer NAS: ACTIVATE DEDICATED EPS BEARER CONTEXT ACCEPT
10a5	IF N ≥ 5 (see step 8), the UE transmits an ACTIVATE DEDICATED EPS BEARER CONTEXT ACCEPT message matching with the 5th ACTIVATE DEDICATED EPS BEARER CONTEXT REQUEST message included in step 8.	>	RRC: ULInformationTransfer NAS: ACTIVATE DEDICATED EPS BEARER CONTEXT ACCEPT
10a6	IF N ≥ 6 (see step 8), the UE transmits an ACTIVATE DEDICATED EPS BEARER CONTEXT ACCEPT message matching with the 6th ACTIVATE DEDICATED EPS BEARER CONTEXT REQUEST message included in step 8.	>	RRC: ULInformationTransfer NAS: ACTIVATE DEDICATED EPS BEARER CONTEXT ACCEPT
10a7	IF N = 7 (see step 8), the UE transmits an ACTIVATE DEDICATED EPS BEARER CONTEXT ACCEPT message matching with the 7th ACTIVATE DEDICATED EPS BEARER CONTEXT REQUEST message included in step 8.	>	RRC: ULInformationTransfer NAS: ACTIVATE DEDICATED EPS BEARER CONTEXT ACCEPT

4.5.3.4 Specific message contents

All specific message contents shall be referred to clause 4.6 and 4.7.

4.5.3A Generic Radio Bearer Establishment, UE Test Mode Activated (State 3A)

Editor's note: The default parameter and system information will depend on progress in Clause 4.4, once it is finalised RAN5 can refer to them accordingly.

4.5.3A.1 Initial conditions

System Simulator:

- Parameters are set to the default parameters for the basic single cell environment, as defined in subclause 4.4, unless otherwise specified in the test case.

User Equipment:

- The UE shall be in Registered, Idle Mode state, UE Test Mode Activated (State 2A for Signalling testing).
- The UE shall be in Registered, Idle Mode state, UE Test Mode Activated (State 2A-RF for RF and RRM testing).
- The UE shall be in Registered, Idle Mode state, UE Test Mode Activated (State 2A or State 2A-RF for UE positioning testing).

4.5.3A.2 Definition of system information messages

4.5.3A.3 Procedure

Same procedure as specified in the procedure in clause 4.5.3.3.

4.5.3A.4 Specific message contents

All specific message contents shall be referred to clause 4.6, 4.7 and 4.7A.

4.5.3B Generic Radio Bearer Establishment, pre-registered on HRPD (State 3B)

Editor note: The default parameter and system information will depend on progress in Clause 4.4, once it is finalised RAN5 can refer to them accordingly.

4.5.3B.1 Initial conditions

System Simulator:

- Parameters are set to the default parameters for the basic single cell environment, as defined in subclause 4.4, unless otherwise specified in the test case.

User Equipment:

- The UE shall be in Registered, Idle Mode state, pre-registered on HRPD (State 2B).

4.5.3B.2 Definition of system information messages

The default system information messages are used.

4.5.3B.3 Procedure

Same procedure as specified in the procedure in clause 4.5.3.3.

4.5.3B.4 Specific message contents

All specific message contents shall be referred to clause 4.6, 4.7 and 4.7A.

4.5.3C Generic Radio Bearer Establishment, pre-registered on 1xRTT (State 3C)

Editor note: The default parameter and system information will depend on progress in Clause 4.4, once it is finalised RAN5 can refer to them accordingly.

4.5.3C.1 Initial conditions

System Simulator:

- Parameters are set to the default parameters for the basic single cell environment, as defined in subclause 4.4, unless otherwise specified in the test case.

User Equipment:

- The UE shall be in Registered, Idle Mode state, pre-registered on 1xRTT (State 2C).

4.5.3C.2 Definition of system information messages

4.5.3C.3 Procedure

Same procedure as specified in the procedure in clause 4.5.3.3.

4.5.3C.4 Specific message contents

All specific message contents shall be referred to clause 4.6, 4.7 and 4.7A.

4.5.3D Generic Radio Bearer Establishment for RAN Assisted WLAN Interworking (State 3)

4.5.3D.1 Initial conditions

System Simulator:

- Parameters are set to the default parameters for the basic single cell environment, as defined in subclause 4.4, unless otherwise specified in the test case.

User Equipment:

- The UE shall be in Registered, Idle Mode state (State 2) as per 4.5.2D establishing 2 PDN connections.

4.5.3D.2 Definition of system information messages

The default system information messages are used.

4.5.3D.3 Procedure

The establishment of generic radio bearer connection is assumed to always be mobile terminated.

Table 4.5.3D.3-1: Generic Radio Bearer establishment procedure (state 2 to state 3)

Step	Procedure		Message Sequence
-		U - S	Message
1-7	Steps 1 to 16 of the generic test procedure for Radio Bearer Establishment sub clause 4.5.3.3	-	-
8	The SS configures a 2 new data radio bearer, associated with the 2 default EPS bearer contexts. IF the test case using state 3 as an initial state is using N additional data radio bearers (0 ≤ N ≤ 7), the RRCConnectionReconfiguration message contains the configuration of these additional data radio bearers in the drb-ToAddModify IE and one ACTIVATE DEDICATED EPS BEARER CONTEXT REQUEST message per additional data radio bearer. The RRCConnectionReconfiguration message is using condition SRB2-DRB(1+n, m) where n and m are the number of DRBs associated with dedicated EPS bearer contexts and configured respectively with RLC-AM and RLC-UM (n+m = N).	<	RRC: RRCConnectionReconfiguration NAS: ACTIVATE DEDICATED EPS BEARER CONTEXT REQUEST ACTIVATE DEDICATED EPS BEARER CONTEXT REQUEST
9- 10a7	Steps 9 to 10a7 of the generic test procedure for Radio Bearer Establishment sub clause 4.5.3.3	-	-

4.5.3D.4 Specific message contents

All specific message contents shall be referred to clause 4.6 and 4.7.

4.5.4 Loopback Activation (State 4)

4.5.4.1 Initial conditions

System Simulator:

- Parameters are set to the default parameters for the basic single cell environment, as defined in subclause 4.4, unless otherwise specified in the test case.

User Equipment:

- The UE shall be in Generic RB Establishment state, UE Test Mode Activated (State 3A).

4.5.4.2 Definition of system information messages

The default system information messages are used.

4.5.4.3 Procedure

Table 4.5: 4.3-1: Loopback activation procedure (state 3A to state 4)

Step	Procedure	Direction	Message Sequence
		UE - SS	Message
1	The SS transmits a CLOSE UE TEST LOOP	<	RRC: DLInformationTransfer
	message to enter the UE test loop mode.		TC: CLOSE UE TEST LOOP
2	The UE transmits a CLOSE UE TEST LOOP	>	RRC: ULInformationTransfer
	COMPLETE message to confirm that loopback		TC: CLOSE UE TEST LOOP
	entities for the radio bearer(s) have been		COMPLETE
	created and loop back is activated (State 4).		

4.5.4.4 Specific message contents

All specific message contents shall be referred to clause 4.6 and 4.7A.

4.5.5 HRPD registration (State H2)

Editor's note: The default parameter and system information will depend on progress in Clause 4.4, once it is finalised RAN5 can refer to them accordingly.

4.5.5.1 Initial conditions

System Simulator:

- Cell 1 and Cell 15.
- Cell 1 has a lower reselection priority than Cell 15.
- Cell 15 is transmitting default overhead messages.

User Equipment:

- The Test USIM shall be inserted (State 1).

4.5.5.2 Definition of system information messages

The default overhead messages as specified in clause 4.4 are used.

4.5.5.3 Procedure

Editor note: procedure needs to be specified.

4.5.5.4 Specific message contents

Editor's note: message contents need to be specified where necessary.

4.5.5A HRPD registration, pre-registration on E-UTRAN (State H2A)

Editor's note: The default parameter and system information will depend on progress in Clause 4.4, once it is finalised RAN5 can refer to them accordingly.

4.5.5A.1 Initial conditions

System Simulator:

- Cell 1 and Cell 15.
- Cell 1 has a lower reselection priority than Cell 15.
- Cell 15 is transmitting default overhead messages.

User Equipment:

- The Test USIM shall be inserted (State 1).

4.5.5A.2 Definition of system information messages

The default overhead messages as specified in clause 4.4 are used.

4.5.5A.3 Procedure

Editor's note: procedure needs to be specified.

4.5.5A.4 Specific message contents

Editor's note: message contents need to be specified where necessary.

4.5.6 HRPD session establishment (State H3)

Editor's note: The default parameter and system information will depend on progress in Clause 4.4, once it is finalised RAN5 can refer to them accordingly.

4.5.6.1 Initial conditions

System Simulator:

- Parameters are set to the default parameters for the basic single cell environment, as defined in subclause 4.4, unless otherwise specified in the test case.

User Equipment:

- The UE shall be in HRPD Registered, Dormant Mode state (State H2).

4.5.6.2 Definition of system information messages

The default overhead messages as specified in clause 4.4 are used.

4.5.6.3 Procedure

Editor's note: procedure needs to be specified.

4.5.6.4 Specific message contents

Editor's note: message contents need to be specified where necessary.

4.5.6A HRPD session establishment, pre-registered on E-UTRAN (State H3A)

Editor's note: The default parameter and system information will depend on progress in Clause 4.4, once it is finalised RAN5 can refer to them accordingly.

4.5.6A.1 Initial conditions

System Simulator:

- Parameters are set to the default parameters for the basic single cell environment, as defined in subclause 4.4, unless otherwise specified in the test case.

User Equipment:

- The UE shall be in HRPD Registered, Dormant Mode, pre-registered on E-UTRAN state (State H2A).

4.5.6A.2 Definition of system information messages

The default overhead messages as specified in clause 4.4 are used.

4.5.6A.3 Procedure

Same procedure as specified in the procedure in clause 4.5.6.3

4.5.6A.4 Specific message contents

Editor's note: message contents need to be specified where necessary.

4.5.7 Out of Coverage (State X)

Out of coverage UE operation is applicable only for sidelink direct communication. In this case UE uses preconfigured radio parameters for transmission and reception of side link direct communication. UE remains in any cell selection state.

4.5.7.1 Initial conditions

System Simulator:

- 1 cell, default parameters.
- The procedure shall be performed under the condition that there is no reference signal and SIB transmission by the cell.

User Equipment:

- The Test UICC shall be inserted. This shall contain either ISIM and USIM applications or only a USIM application on UICC.

4.5.7.2 Definition of system information messages

MIB and SIBs are not transmitted.

4.5.7.3 Procedure

UE remains in any cell selection state and search for any available cell.

4.5A Other generic procedures

4.5A.1 Procedure for IP address allocation in the U-plane

The purpose of this procedure is to allow the successful completion of IP address allocation if it is initiated by the UE therefore the result from the execution of the Procedure for IP address allocation in the U-plane shall not lead to assignment of a verdict.

Depending on the UE configuration there may be unpredictable delay in the start of the procedure. A guarding time of 1.2 sec is suggested within which the procedure is expected to start. If the timer expires then the test procedure, from which the Procedure for IP address allocation in the U-plane is called, shall advance to the next specified step.

Table 4.5A.1-1: Procedure for IP address allocation in the U-plane

Step	Procedure		Message Sequence
		U - S	Message
-	EXCEPTION: Step 1 below and Step 1 in Table 4.5A.1-2 describe behaviour that	-	-
	depends on the contents of the latest PDN		
	CONNECTIVITY REQUEST message sent by		
	the UE prior to this procedure. EXCEPTION: In parallel to the event		
_	described in step 1 below the step specified in	-	-
	Table 4.5A.1-2 may take place.		
1	If the "PDN type" in the latest PDN	-	-
	CONNECTIVITY REQUEST message prior to		
	this procedure was 'IPv4' or 'IPv4v6' then,		
	IPv4 address allocation by DHCPv4 may occur on the user plane bearer established for		
	the default EPS bearer context activated with		
	the latest ACTIVATE DEFAULT EPS		
	BEARER CONTEXT message prior to this		
	procedure.		

Table 4.5A.1-2: Procedure for IP address allocation in the U-plane, parallel behaviour

Step	Procedure	Message Sequence		essage Sequence	
		U-S		Message	
1	If the "PDN type" in the latest PDN CONNECTIVITY REQUEST message prior to this procedure was 'IPv6' or 'IPv4v6' then stateless address auto configuration occurs on the user plane bearer established for the default EPS bearer context activated with the latest ACTIVATE DEFAULT EPS BEARER CONTEXT message prior to this procedure.	-	-	<u> </u>	

4.5A.2 Tracking area updating procedure

The procedure is defined in table 4.5A.2.1-1.

Table 4.5A.2.1-1: Tracking area updating procedure

Step	Procedure	Message Sequence		
		U - S	Message	
1	The SS transmits system information on the	<	RRC: SYSTEM INFORMATION (BCCH)	
	cell specified in the test case.			
2	The UE transmits an RRCConnectionRequest	>	RRC: RRCConnectionRequest	
	message on the cell specified in the test case.			
3	SS transmits an RRCConnectionSetup	<	RRC: RRCConnectionSetup	
	message.	<		
4	The UE transmits an	>	RRC: RRCConnectionSetupComplete	
	RRCConnectionSetupComplete message to		NAS: TRACKING AREA UPDATE	
	confirm the successful completion of the		REQUEST	
	connection establishment and a TRACKING			
	AREA UPDATE REQUEST message is sent to			
	update the registration of the actual tracking			
	area.			
5	SS responds with TRACKING AREA UPDATE	<	RRC: DLInformationTransfer	
	ACCEPT message.		NAS: TRACKING AREA UPDATE	
			ACCEPT	
6	The UE transmits a TRACKING AREA	>	RRC: ULInformationTransfer	
	UPDATE COMPLETE		NAS: TRACKING AREA UPDATE	
			COMPLETE	
7	The SS transmits an RRCConnectionRelease	<	RRC: RRCConnectionRelease	
	message to release RRC connection and			
	move to RRC_IDLE.			

NOTE 1: The periodic tracking area updating timer T3412 is deactivated by default during the attach procedure (TS 36.508 clause 4.7.2).

NOTE 2: The SS does not initiate authentication and NAS SECURITY MODE COMMAND are not performed (reuse of keys allocated during the attach procedure).

4.5A.3 Procedure for IMS signalling

The purpose of this procedure is to allow the successful completion of IMS signalling if it is initiated by the UE.

The UE may initiate IMS registration according TS 24.229 [40] clause 5.1. The procedure is applicable for UEs with IMS support (TS 36.523-2 A.4.4-1/25).

Table 4.5A.3-1: Procedure for IMS signalling in the U-plane

Step	Procedure	Message Sequence			
		U - S	Message		
1-9	Void	-	-		
-	EXCEPTION: Steps 10a1 to 10a2b1 describe a transaction that depends on the UE capability				
10a1	IF pc_IMS then the SS starts timer Timer_1 = 10 s (Note 1)	-	-		
-	EXCEPTION: Steps 10a2a1 to 10a2b1 describe a transaction that depends on the UE implementation	-	-		
10a2 a1- 10a2 a9	Registration procedure according TS 34.229-1 [43] subclause C.2 (steps 3-11) Note: SS cancels timer Timer_1 at step 10a2a1.	-	-		
10a2 b1	The SS waits for Timer_1 expiry	-	-		
Note 1	Note 1: Depending on the UE configuration there may be unpredictable delay in the start of the procedure. A guarding time of [10] sec is suggested within which the procedure is expected to start. If the timer expires then the test procedure, from which the Procedure for IMS signalling Uplane is called, shall advance to the next specified step				

4.5A.4 Generic Test Procedure for IMS Emergency call establishment in EUTRA: Normal Service

4.5A.4.1 Initial conditions

System Simulator:

- Parameters are set to the default parameters for the basic single cell environment, as defined in subclause 4.4, unless otherwise specified in the test case.

User Equipment:

- The UE shall be in Registered, Idle Mode state (State 2).

4.5A.4.2 Definition of system information messages

The default system information messages are used.

4.5A.4.3 Procedure

The establishment of IMS emergency call is assumed to always be mobile originated.

Table 4.5A.4.3-1: EUTRA/EPS signalling for IMS Emergency Call

St	etup SetupComplete
2 The UE transmits an RRCConnectionRequest message with ' establishmentCause' set to 'emergency'. 3 SS transmit an RRCConnectionSetup message. 4 The UE transmits an RRCConnectionSetupComplete message to confirm the successful completion of the connection establishment and to initiate the session management procedure by including the SERVICE REQUEST message. RRC: RRCConnectionS RRC: RRCConnectionS NAS: SERVICE REQUEST Message.	etup etupComplete
with ' establishmentCause' set to 'emergency'. 3	etup etupComplete
3 SS transmit an RRCConnectionSetup message. < RRC: RRCConnectionS 4 The UE transmits an RRCConnectionSetupComplete message to confirm the successful completion of the connection establishment and to initiate the session management procedure by including the SERVICE REQUEST message.	etupComplete
4 The UE transmits an RRCConnectionSetupComplete message to confirm the successful completion of the connection establishment and to initiate the session management procedure by including the SERVICE REQUEST message.	etupComplete
message to confirm the successful completion of the connection establishment and to initiate the session management procedure by including the SERVICE REQUEST message.	
connection establishment and to initiate the session management procedure by including the SERVICE REQUEST message.	EST
management procedure by including the SERVICE REQUEST message.	
REQUEST message.	
1 b I the SS transmite a Security//ode/ ommand message I / I RR('Security//ode/ on	
	nmand
to activate AS security.	
6 The UE transmits a SecurityModeComplete message> RRC: SecurityModeCom	npiete
and establishes the initial security configuration. 7 The SS configures a new data radio bearer, associated < RRC: RRCConnectionR	Poponfiguration
7 The SS configures a new data radio bearer, associated < RRC: RRCConnectionR with the default EPS bearer context.	econiiguration
The RRCConnectionReconfiguration message is using	
condition SRB2-DRB(1, 0). The DRB associated with	
default EPS bearer context obtained during the attach	
procedure is established	
8 The UE transmits an> RRC:	
RRCConnectionReconfigurationComplete message to RRCConnectionReconfi	igurationComplet
confirm the establishment of the new data radio bearer, e	
associated with the default EPS bearer context.	
9 The UE transmits a PDN CONNECTIVITY REQUEST> PDN CONNECTIVITY R	REQUEST
message to request an additional PDN, with 'Request	
type' set to 'emergency ('0100'B)'.	
10 The SS configures a new data radio bearer, associated < RRC: RRCConnectionR	Reconfiguration
with the default EPS bearer context.	00 05 4 05 0
RRCConnectionReconfiguration message contains the ACTIVATE DEFAULT E	PS BEARER
ACTIVATE DEFAULT EPS BEARER CONTEXT CONTEXT REQUEST	
REQUEST message. EPS bearer context #2 (QCI 5)	
according to table 6.6.1-1: Reference default EPS bearer context is used.	
Note: The APN is set to the test APN defined for	
emergency bearer services.	
- EXCEPTION: In parallel to the events described in	
steps 11 to 15 below, the behaviour in table 4.5A.4.3-2	
occurs. (Optional IP address allocation followed by IMS	
emergency registration and IMS emergency speech call	
establishment)	_

11	The UE transmits an RRCConnectionReconfigurationComplete message to confirm the establishment of the new data radio bearer, associated with the default EPS bearer for emergency call.	>	RRC: RRCConnectionReconfigurationComplet e
12	The UE transmits an ACTIVATE DEFAULT EPS BEARER CONTEXT ACCEPT message.	^	RRC: ULInformationTransfer NAS:ACTIVATE DEFAULT EPS BEARER CONTEXT ACCEPT
13	The SS configures a new RLC-UM data radio bearer, associated with the dedicated EPS bearer context. RRCConnectionReconfiguration message contains the ACTIVATE DEDICATED EPS BEARER CONTEXT REQUEST message. EPS bearer context #4 (QCI 1) according to table 6.6.2-1: Reference dedicated EPS bearer contexts is used. Note: the same PDN address is applicable because the linked EPS bearer ID refers to the default EBC allocated in step 10	<	RRC: RRCConnectionReconfiguration NAS: ACTIVATE DEDICATED EPS BEARER CONTEXT REQUEST
14	The UE transmits an RRCConnectionReconfigurationComplete message to confirm the establishment of the new data radio bearer, associated with the default EPS bearer for emergency IMS signalling.	?	RRC: RRCConnectionReconfigurationComplet e
15	The UE transmits an ACTIVATE DEDICATED EPS BEARER CONTEXT ACCEPT message.	>	RRC: ULInformationTransfer NAS:ACTIVATE DEDICATED EPS BEARER CONTEXT ACCEPT

Table 4.5A.4.3-2: Parallel behaviour

St	Procedure		Message Sequence
		U-S	Message
-	EXCEPTION: Step 1 describes behaviour that	-	-
	depends on the UE behaviour.		
1	If initiated by the UE the generic procedure for IP address allocation in the U-plane specified in TS 36.508 subclause 4.5A.1 takes place performing IP address allocation in the U-plane.	-	-
2-5	Steps 1-4 expected sequence defined in annex C.20 of TS 34.229-1 [35]. Emergency registration procedure is performed.	-	-
6- 10	Steps 1-5 defined in annex C.22 of TS 34.229- 1 [35]. IMS Emergency call for EPS is established.	-	-

4.5A.4.4 Specific message contents

All specific message contents shall be referred to clause 4.6 and 4.7 with the exceptions below.

Table 4.5A.4.4-1: Message ACTIVATE DEFAULT EPS BEARER CONTEXT REQUEST (step 10, Table 4.5A.4.3-1)

Derivation path: Table 4.7.3-6 and table 4.6.1-8 with condition AM-DRB-ADD(2)						
Information Element	Value/Remark	Comment	Condition			
Access point name	sos	APN value as recommended by IR.88 clause 6.4 [56]				
EPS QoS	According to reference default EPS bearer context #2 – in table 6.6.1-1	SS defines an additional dedicated EPS QoS				

Table 4.5A.4.4-3: Message ACTIVATE DEDICATED EPS BEARER CONTEXT REQUEST (step 13, Table 4.5A.4.3-1)

Derivation path: Table 4.7.3-3 and table 4.6.1-8 with condition UM-DRB-ADD(3)					
Information Element	Value/Remark	Comment	Condition		
Linked EPS bearer identity	Default EBId-2 (same value like in table 4.5A.4.4-1)				
EPS QoS	According to reference dedicated EPS bearer context #1 - in table 6.6.2-1	SS defines an additional dedicated EPS QoS			
TFT	According to reference dedicated EPS bearer context #1 - in table 6.6.2-1				

Table 4.5A.4.4-4: PDN CONNECTIVITY REQUEST (step 9)

Derivation Path: Table 4.7.3-20			
Information Element	Value/remark	Comment	Condition
Access point name	Not present or any value		

4.5A.5 Generic Test Procedure for IMS Emergency call establishment in EUTRA: Limited Service

4.5A.5.1 Initial conditions

System Simulator:

- Parameters are set to the default parameters for the basic single cell environment, as defined in subclause 4.4, unless otherwise specified in the test case.

User Equipment:

- The UE is switched on and camped on the cell in EMM-DEREGISTERED.LIMITED-SERVICE state.

4.5A.5.2 Definition of system information messages

The default system information messages are used.

4.5A.5.3 Procedure

The establishment of IMS emergency call is assumed to always be mobile originated.

Table 4.5A.5.3-1: EUTRA/EPS signalling for IMS Emergency Call in limited service

St	Procedure	Message Sequence		
		U-S	Message	
1	Make the UE attempt an IMS emergency call	-	-	
2	The UE transmits an RRCConnectionRequest	>	RRCConnectionRequest	
	message with 'establishmentCause' set to			
	'emergency'.			
3	SS transmits an RRCConnectionSetup	_	RRC: RRCConnectionSetup	
	message.	<		
4	The UE transmits an	>	RRC: RRCConnectionSetupComplete	
	RRCConnectionSetupComplete message to		NAS: ATTACH REQUEST	
	confirm the successful completion of the		NAS: PDN CONNECTIVITY REQUEST	
	connection establishment and to initiate the			
	Attach procedure by including the ATTACH			
	REQUEST message, EPS attach type set to			
	"EPS emergency attach" ('0110'B). The PDN			
	CONNECTIVITY REQUEST message is			
	piggybacked in ATTACH REQUEST, with			

		1	
	'Request type' set to 'emergency ('0100'B)'.		
-	EXCEPTION: Steps 5a1 to 5a2b1 describe	-	-
	behaviour that depends on the UE ID sent in		
	the ATTACH REQUEST message in step 4		
	and take place only if the UE does not send		
Fo.1	IMEI. The SS transmits an AUTHENTICATION		RRC: DLInformationTransfer
5a1		_	NAS: AUTHENTICATION REQUEST
	REQUEST message to initiate the EPS authentication and AKA procedure.	<	NAS. AUTHENTICATION REQUEST
_	EXCEPTION: Steps 5a2a1 to 5a2b1 describe		
_	behaviour that depends on the UE state; the		-
	"lower case letter" identifies a step sequence	_	
	that takes place if the UE is in a particular	_	
	state.		
5a2	UE transmits an AUTHENTICATION	>	RRC: ULInformationTransfer
a1	RESPONSE message and establishes mutual		NAS: AUTHENTICATION RESPONSE
	authentication.		
5a2	UE transmits an AUTHENTICATION FAILURE	>	RRC: ULInformationTransfer
b1	message with EMM cause #20 "MAC failure"		NAS: AUTHENTICATION FAILURE
	or EMM cause #21 "synch failure". (Note 2)		
6a1	Void	-	-
6b1	Void		-
7	The SS transmits a NAS SECURITY MODE		RRC: DLInformationTransfer
	COMMAND message to activate NAS security		NAS: SECURITY MODE COMMAND
	selecting.		
	Note: If UE has sent Authentication Failure in		
	step 5a2b16b1 or the behaviour described in	<	
	steps 5a1 to 5a2b1 does not take place, KSI		
	value is set to "000" and EIA0 (NULL integrity),		
	and EEA0 (NULL ciphering) algorithms are		
	used.		
8	The UE transmits a NAS SECURITY MODE	>	RRC: ULInformationTransfer
	COMPLETE message and establishes the		NAS: SECURITY MODE COMPLETE
	initial security configuration.		
-	EXCEPTION: Steps 9a1 to 9a2 describe	-	-
	behaviour that depends on UE configuration;		
	the "lower case letter" identifies a step		
	sequence that take place if the UE has ESM information which needs to be transferred.		
9a1	IF the UE sets the ESM information transfer	<	RRC: DLInformationTransfer
Jai	flag in the last PDN CONNECTIVITY		NAS: ESM INFORMATION REQUEST
	REQUEST message THEN the SS transmits		NAO. EGW IN GRAMATION REGULOT
	an ESM INFORMATION REQUEST message		
	to initiate exchange of protocol configuration		
	options and/or APN.		
9a2	The UE transmits an ESM INFORMATION	>	RRC: ULInformationTransfer
	RESPONSE message to transfer protocol		NAS: ESM INFORMATION RESPONSE
	configuration options and/or APN.		
10	The SS transmits a SecurityModeCommand	<	RRC: SecurityModeCommand
	message to activate AS security.		_
	Note: If UE has sent Authentication Failure in		
	step 5a2b1, or the behaviour described in		
	steps 5a1 to 5a2b1 does not take place, then,		
	eia0 (NULL integrity), and eea0 (NULL		
	ciphering) algorithms are used.		
11	The UE transmits a SecurityModeComplete	>	RRC: SecurityModeComplete
	message and establishes the initial security		
10	configuration.		DDO: UEO
12	The SS transmits a <i>UECapabilityEnquiry</i>	<	RRC: UECapabilityEnquiry
	message to initiate the UE radio access		
12	capability transfer procedure.	_	DDC: UEConobilityInformation
13	The UE transmits a UECapabilityInformation	>	RRC: UECapabilityInformation
	message to transfer UE radio access		
14	capability. The SS transmits an		RRC: RRCConnectionReconfiguration
14	RRCConnectionReconfiguration message to	<	NAS: ATTACH ACCEPT
	establish the default bearer with condition		NAS: ACTIVATE DEFAULT EPS BEARER
1	SRB2-DRB(1, 0). The DRB associated with		CONTEXT REQUEST

	default EPS bearer context #2 (QCI 5)		
	according to table 6.6.1-1: Reference default		
	EPS bearer contexts, obtained during the		
	attach procedure, is established.		
	This message includes the ATTACH ACCEPT		
	message with EPS attach result set to "EPS		
	only" ('001'B). The ACTIVATE DEFAULT EPS		
	BEARER CONTEXT REQUEST message is		
	piggybacked in ATTACH ACCEPT.		
	Note: The APN is set to the test APN defined		
	for emergency bearer services		
-	EXCEPTION: In parallel to the events	-	-
	described in steps 15 to 19 below, the		
	behaviour in table 4.5A.5.3-2 occurs. (Optional		
	IP address allocation followed by IMS		
	emergency speech call establishment)		
15	The UE transmits an	>	RRC: RRCConnectionReconfigurationComplete
'0	RRCConnectionReconfigurationComplete		Tarte. Tarte commodicin tecornigaration complete
	message to confirm the establishment of		
	default bearer.		
16	This message includes the ATTACH	>	RRC: ULInformationTransfer
10	COMPLETE message. The ACTIVATE		NAS: ATTACH COMPLETE
	DEFAULT EPS BEARER CONTEXT ACCEPT		NAS: ACTIVATE DEFAULT EPS BEARER
	message is piggybacked in ATTACH		CONTEXT ACCEPT
	COMPLETE.		CONTEXT ACCEL 1
17	The SS configures a new RLC-UM data radio	<	RRC: RRCConnectionReconfiguration
	bearer, associated with the dedicated EPS	`	NAS:
			ACTIVATE DEDICATED EPS BEARER CONTEXT
	bearer context.		REQUEST
	RRCConnectionReconfiguration message		NE QUEUT
	contains the ACTIVATE DEDICATED EPS		
	BEARER CONTEXT REQUEST message.		
	EPS bearer context #4 (QCI 1) according to		
	table 6.6.2-1: Reference dedicated EPS bearer		
	contexts is used.		
	Note: the same PDN address is applicable		
	because the linked EPS bearer ID refers to the		
	default EBC allocated in step 10		
18	The UE transmits an	>	RRC: RRCConnectionReconfigurationComplete
	RRCConnectionReconfigurationComplete		
	message to confirm the establishment of the		
	new data radio bearer, associated with the		
	default EPS bearer for emergency IMS		
	signalling.		
19	The UE transmits an ACTIVATE DEDICATED	>	RRC: ULInformationTransfer
	EPS BEARER CONTEXT ACCEPT message.		NAS:ACTIVATE DEDICATED EPS BEARER
	39		CONTEXT ACCEPT

Note 1: Void

Note 2: EMM cause #26 "non-EPS authentication unacceptable" is not expected to happen as SS will not set the "separation bit" in the AMF field of AUTN as 0

Table 4.5A.5.3-2: Parallel behaviour

St	Procedure	Message Sequence	
		U-S	Message
-	EXCEPTION: Step 1 describes behaviour that depends on the UE behaviour.	-	-
1	If initiated by the UE the generic procedure for IP address allocation in the U-plane specified in TS 36.508 subclause 4.5A.1 takes place performing IP address allocation in the U-plane.	-	-
2-6	Steps 1-5 defined in annex C.22 of TS 34.229-1 [35]. IMS Emergency call for EPS is established.	-	-

4.5A.5.4 Specific message contents

All specific message contents shall be referred to clause 4.6 and 4.7 with the exceptions below.

Table 4.5A.5.4-1: SECURITY MODE COMMAND (step 7, Table 4.5A.5.3-1)

Derivation Path: Table 4.7.2-19			
Information Element	Value/remark	Comment	Condition
Type of integrity protection algorithm	Set according to PIXIT		NOT
	parameter for default		NullAlgorith
	integrity protection		mUsed
	algorithm		
	EIA0		NullAlgorith
			mUsed
Type of ciphering algorithm	Set according to PIXIT		NOT
,, , , , ,	parameter for default		NullAlgorith
	ciphering algorithm		mUsed
	EEA0		NullAlgorith
			mUsed
NAS key set identifier			
NAS key set identifier	The valid NAS key set		NOT
·	identifier.		NullAlgorith
			mUsed
	'000'B		NullAlgorith
			mUsed
TSC	'0'B	native security	
		context (for	
		KSI _{ASME})	
Spare half octet	'0000'B	,	

Condition	Explanation		
NullAlgorithmUsed	UE has sent Authentication Failure in step <u>5a</u> b1 (Table 4.5A.5.3-1), or the behaviour		
	described in steps 5a1 to 5a2b1 does not take place (Table 4.5A.5.3-1).		

Table 4.5A.5.4-2: SecurityModeCommand (step 10, Table 4.5A.5.3-1)

Derivation Path: Table 4.6.1-19			
Information Element	Value/remark	Comment	Condition
SecurityModeCommand ::= SEQUENCE {			
rrc-TransactionIdentifier	RRC-		
	TransactionIdentifier-DL		
criticalExtensions CHOICE {			
c1 CHOICE{			
securityModeCommand-r8 SEQUENCE {			
securityConfigSMC	SecurityConfigSMC-	Table 4.5A.5.4-3	
	LimitedService		
nonCriticalExtension SEQUENCE {}	Not present		
}			
}			
}			
}			

Table 4.5A.5.4-3: SecurityConfigSMC-LimitedService (Table 4.5A.5.4-2)

Derivation Path: Table 4.6.4-2			
Information Element	Value/remark	Comment	Condition
SecurityConfigSMC- LimitedService ::= SEQUENCE {			
securityAlgorithmConfig SEQUENCE {			
cipheringAlgorithm	Set according to PIXIT parameter for default ciphering algorithm		NOT NullAlgorith mUsed
	eea0		NullAlgorith mUsed
integrityProtAlgorithm	Set according to PIXIT parameter for default integrity protection algorithm		NOT NullAlgorith mUsed
1	eia0		NullAlgorith mUsed

Condition	Explanation	
NullAlgorithmUsed	UE has sent Authentication Failure in step 5a2b1 (Table 4.5A.5.3-1), or the behaviour	
	described in steps 5a1 to 5a2b1 (Table 4.5A.5.3-1) does not take place.	

Table 4.5A.5.4-4: Message ACTIVATE DEDICATED EPS BEARER CONTEXT REQUEST (step 17, Table 4.5A.5.3-1)

Derivation path: Table 4.7.3-3 and table 4.6.1-8 Information Element	Value/Remark	Comment	Condition	
Linked EPS bearer identity	Default EBId-2 (same value as in table 4.5A.5.4-4)			
EPS QoS	See Reference dedicated EPS bearer context #4 in table 6.6.2-1			
TFT	See Reference dedicated EPS bearer context #4 in table 6.6.2-1			

Table 4.5A.5.4-5: Message ACTIVATE DEFAULT EPS BEARER CONTEXT REQUEST (step 14, Table 4.5A.5.3-1)

Derivation path: Table 4.7.3-6 and table 4.6.1-8 with condition AM-DRB-ADD(2)					
Information Element	Value/Remark	Comment	Condition		
Access point name	sos	APN value as recommended by IR.88 clause 6.4 [56]			
EPS QoS	According to reference default EPS bearer context #2 – in table 6.6.1-1	SS defines an additional dedicated EPS bearer			

Table 4.5A.5.4-6: Message ESM INFORMATION RESPONSE (step 9a2, Table 4.5A.5.3-1)

Derivation Path: Table 4.7.3-14			
Information Element	Value/remark	Comment	Condition
Access point name	Not present or any value		

4.5A.6 Generic Test Procedure for IMS MO speech call establishment in E-UTRA

4.5A.6.1 Initial conditions

System Simulator:

- Parameters are set to the default parameters for the basic single cell environment, as defined in subclause 4.4, unless otherwise specified in the test case.

User Equipment:

- The UE shall be in Registered, Idle Mode state (State 2).

4.5A.6.2 Definition of system information messages

4.5A.6.3 Procedure

Table 4.5A.6.3-1: EUTRA/EPS signalling for IMS MO speech call

St	Procedure		Message Sequence	
		U - S	Message	
1	Make the UE attempt an IMS speech call	-	-	
2	The UE transmits an RRCConnectionRequest message	>	RRCConnectionRequest	
	with ' establishmentCause' set to ' mo-Data '.			
3	SS transmit an RRCConnectionSetup message.	' -	RRC: RRCConnectionSetup	
4	The UE transmits an RRCConnectionSetupComplete	>	RRC: RRCConnectionSetupComplete	
	message to confirm the successful completion of the		NAS: SERVICE REQUEST	
	connection establishment and to initiate the session			
	management procedure by including the SERVICE			
	REQUEST message.			
5	The SS transmits a SecurityModeCommand message	<	RRC: SecurityModeCommand	
	to activate AS security.			
6	The UE transmits a SecurityModeComplete message	>	RRC: SecurityModeComplete	
	and establishes the initial security configuration.			
7	The SS configures a new data radio bearer, associated	<	RRC: RRCConnectionReconfiguration	
	with the default EPS bearer context.			
	The RRCConnectionReconfiguration message is using			
	condition SRB2-DRB(1, 0). The DRB associated with default EPS bearer context obtained during the attach			
	procedure is established			
	EXCEPTION: In parallel to the events described in	-	-	
_	steps 8 below, the behaviour in table 4.5A.6.3-2 occurs.	_		
	(IMS MTSI MO speech call establishment)			
8	The UE transmits an	>	RRC:	
	RRCConnectionReconfigurationComplete message to		RRCConnectionReconfigurationComplet	
	confirm the establishment of the new data radio bearer,		e	
	associated with the default EPS bearer context.			
9-11	Steps 3-4 expected sequence defined in annex C.21 of	-	-	
	TS 34.229-1 [35]. MTSI MO speech call for EPS.			
12	The SS configures a new RLC-UM data radio bearer	<	RRC: RRCConnectionReconfiguration	
	with condition DRB (0,1), associated with the dedicated		NAS:	
	EPS bearer context. RRCConnectionReconfiguration		ACTIVATE DEDICATED EPS BEARER	
	message contains the ACTIVATE DEDICATED EPS		CONTEXT REQUEST	
	BEARER CONTEXT REQUEST message. EPS bearer			
	context #4 (QCI 1) according to table 6.6.2-1:			
	Reference dedicated EPS bearer contexts.			
-	EXCEPTION: In parallel to the events described in	-	-	
	steps 13-14 below, the behaviour in table 4.5A.6.3-3			
	occurs. (IMS MTSI MO speech call establishment)			
13	The UE transmits an	>	RRC:	
'0	RRCConnectionReconfigurationComplete message to		RRCConnectionReconfigurationComplet	
	confirm the establishment of the new data radio bearer,		e	
	associated with the dedicated EPS bearer.		-	
14	The UE transmits an ACTIVATE DEDICATED EPS	>	RRC: ULInformationTransfer	
	BEARER CONTEXT ACCEPT message.		NAS:ACTIVATE DEDICATED EPS	
	33.		BEARER CONTEXT ACCEPT	

Table 4.5A.6.3-2: Parallel behaviour

St Procedure			Message Sequence
		U-S	Message
1	Step 2 expected sequence defined in annex	-	-
	C.21 of TS 34.229-1 [35]. UE sends INVITE.		

Table 4.5A.6.3-3: Parallel behaviour

St Procedure			Message Sequence
		U-S	Message
1-8	Steps 5-13 expected sequence defined in	-	-
	annex C.21 of TS 34.229-1 [35]. MTSI MO		
	speech call for EPS.		

4.5A.6.4 Specific message contents

All specific message contents shall be referred to clause 4.6 and 4.7.

4.5A.7 Generic Test Procedure for IMS MT Speech call establishment in E-UTRA

4.5A.7.1 Initial conditions

System Simulator:

- Parameters are set to the default parameters for the basic single cell environment, as defined in subclause 4.4, unless otherwise specified in the test case.

User Equipment:

- The UE shall be in Registered, Idle Mode state (State 2).

4.5A.7.2 Definition of system information messages

4.5A.7.3 Procedure

Table 4.5A.7.3-1: EUTRA/EPS signalling for IMS MT speech call

St	Procedure	Message Sequence	
		U - S	Message
1	SS sends a <i>Paging</i> message to the UE on the appropriate paging block, and including the UE identity in one entry of the IE <i>pagingRecordLists</i> .	<	RRC: Paging (PCCH)
2	The UE transmits an RRCConnectionRequest message with 'establishmentCause' set to 'mt-Access'.	>	RRCConnectionRequest
3	SS transmit an RRCConnectionSetup message.	<	RRC: RRCConnectionSetup
4	The UE transmits an RRCConnectionSetupComplete message to confirm the successful completion of the connection establishment and to initiate the session management procedure by including the SERVICE REQUEST message.	>	RRC: RRCConnectionSetupComplete NAS: SERVICE REQUEST
5	The SS transmits a SecurityModeCommand message to activate AS security.	<	RRC: SecurityModeCommand
6	The UE transmits a SecurityModeComplete message and establishes the initial security configuration.	>	RRC: SecurityModeComplete
7	The SS configures a new data radio bearer, associated with the default EPS bearer context. The RRCConnectionReconfiguration message is using condition SRB2-DRB(1, 0). The DRB associated with default EPS bearer context obtained during the attach procedure is established	<	RRC: RRCConnectionReconfiguration
8	The UE transmits an RRCConnectionReconfigurationComplete message to confirm the establishment of the new data radio bearer, associated with the default EPS bearer context.	>	RRC: RRCConnectionReconfigurationComplet e
9-12	Steps 1-4 expected sequence defined in annex C.11 of TS 34.229-1 [35]. MTSI MT speech call.	-	-
13	The SS configures a new RLC-UM data radio bearer with condition DRB (0,1), associated with the dedicated EPS bearer context. <i>RRCConnectionReconfiguration</i> message contains the ACTIVATE DEDICATED EPS BEARER CONTEXT REQUEST message.	<	RRC: RRCConnectionReconfiguration NAS: ACTIVATE DEDICATED EPS BEARER CONTEXT REQUEST
14	The UE transmits an RRCConnectionReconfigurationComplete message to confirm the establishment of the new data radio bearer, associated with the dedicated EPS bearer.	>	RRC: RRCConnectionReconfigurationComplet e
15	The UE transmits an ACTIVATE DEDICATED EPS BEARER CONTEXT ACCEPT message.	>	RRC: ULInformationTransfer NAS:ACTIVATE DEDICATED EPS BEARER CONTEXT ACCEPT
16- 22	Steps 5-11 expected sequence defined in annex C.11 of TS 34.229-1 [35]. MTSI MT speech.	-	-
23A	Step 11A expected sequence defined in annex C.11 of TS 34.229-1 [35]. MTSI MT speech.	-	-
23- 24	Steps 12-13 expected sequence defined in annex C.11 of TS 34.229-1 [35]. MTSI MT speech.	-	-
25- 26	Steps 14-15 expected sequence defined in annex C.11 of TS 34.229-1 [35]. MTSI MT speech.	-	-

4.5A.7.4 Specific message contents

All specific message contents shall be referred to clause 4.6 and 4.7.

4.5A.8 Generic Test Procedure for IMS MO video call establishment in E-UTRA

4.5A.8.1 Initial conditions

System Simulator:

- Parameters are set to the default parameters for the basic single cell environment, as defined in subclause 4.4, unless otherwise specified in the test case.

User Equipment:

- The UE shall be in Registered, Idle Mode state (State 2).

4.5A.8.2 Definition of system information messages

4.5A.8.3 Procedure

Table 4.5A.8.3-1: EUTRA/EPS signalling for IMS MO video call

St	Procedure		Message Sequence		
		U - S	Message		
1	Make the UE attempt an IMS video call	-	-		
2	The UE transmits an RRCConnectionRequest message with 'establishmentCause' set to 'mo-Data'.	>	RRCConnectionRequest		
3	SS transmit an <i>RRCConnectionSetup</i> message.	<	RRC: RRCConnectionSetup		
4	The UE transmits an RRCConnectionSetupComplete	>	RRC: RRCConnectionSetupComplete		
4	message to confirm the successful completion of the	>	NAS: SERVICE REQUEST		
	connection establishment and to initiate the session		IVAO. SERVICE REQUEST		
	management procedure by including the SERVICE				
	REQUEST message.				
5	The SS transmits a SecurityModeCommand message	<	RRC: SecurityModeCommand		
	to activate AS security.		,		
6	The UE transmits a SecurityModeComplete message	>	RRC: SecurityModeComplete		
	and establishes the initial security configuration.				
7	The SS configures a new data radio bearer, associated	<	RRC: RRCConnectionReconfiguration		
	with the default EPS bearer context.				
	The RRCConnectionReconfiguration message is using				
	condition SRB2-DRB(1, 0). The DRB associated with				
	default EPS bearer context obtained during the attach				
	procedure is established				
-	EXCEPTION: In parallel to the events described in	-	-		
	steps 8 below, the behaviour in table 4.5A.8.3-2 occurs.				
	(IMS MTSI MO video call establishment)				
8	The UE transmits an	>	RRC:		
	RRCConnectionReconfigurationComplete message to		RRCConnectionReconfigurationComplet		
	confirm the establishment of the new data radio bearer,		е		
9-11	associated with the default EPS bearer context. Steps 3-4 expected sequence defined in annex C.25 of	_	-		
9-11	TS 34.229-1 [35]. MTSI MO video call for EPS.	_			
12	The SS configures two new RLC-UM data radio bearers	<	RRC: RRCConnectionReconfiguration		
·-	with condition DRB (0,2), associated with the dedicated	,	NAS:		
	EPS bearer context. RRCConnectionReconfiguration		ACTIVATE DEDICATED EPS BEARER		
	message contains one ACTIVATE DEDICATED EPS		CONTEXT REQUEST		
	BEARER CONTEXT REQUEST message per		ACTIVATE DEDICATED EPS BEARER		
	additional data radio bearer. One EPS bearer context		CONTEXT REQUEST		
	#4 (QCI 1) and one EPS bearer context #3 (QCI 2)				
	according table 6.6.2-1: Reference dedicated EPS				
	bearer contexts.				
-	EXCEPTION: In parallel to the events described in	-	-		
	steps 13-14 below, the behaviour in table 4.5A.8.3-3				
10	occurs. (IMS MTSI MO video call establishment). The UE transmits an	_	DDC:		
13		>	RRC: RRCConnectionReconfigurationComplet		
	RRCConnectionReconfigurationComplete message to confirm the establishment of the new data radio bearer,		e		
	associated with the dedicated EPS bearer. EPS bearer				
	context #4 (QCI 1) according table to 6.6.2-1:				
	Reference dedicated EPS bearer contexts.				
14	The UE transmits an ACTIVATE DEDICATED EPS	>	RRC: ULInformationTransfer		
''	BEARER CONTEXT ACCEPT message for the first		NAS:ACTIVATE DEDICATED EPS		
	bearer.		BEARER CONTEXT ACCEPT		
15	The UE transmits an ACTIVATE DEDICATED EPS	>	RRC: ULInformationTransfer		
	BEARER CONTEXT ACCEPT message for the second		NAS:ACTIVATE DEDICATED EPS		
	bearer.		BEARER CONTEXT ACCEPT		

Table 4.5A.8.3-2: Parallel behaviour

St	Procedure	Message Sequence		
		U-S	Message	
1	Step 2 expected sequence defined in annex	-	-	
	C.25 of TS 34.229-1 [35]. UE sends INVITE.			

Table 4.5A.8.3-3: Parallel behaviour

St	Procedure	Message Sequence		
		U-S	Message	
1-8	Steps 5-13 expected sequence defined in annex C.25 of TS 34.229-1 [35]. MTSI MO	-	-	
1-8		-	-	

4.5A.8.4 Specific message contents

All specific message contents shall be referred to clause 4.6 and 4.7.

4.5A.9 Generic Test Procedure for IMS MT video call establishment in E-UTRA

4.5A.9.1 Initial conditions

System Simulator:

- Parameters are set to the default parameters for the basic single cell environment, as defined in subclause 4.4, unless otherwise specified in the test case.

User Equipment:

- The UE shall be in Registered, Idle Mode state (State 2).

4.5A.9.2 Definition of system information messages

4.5A.9.3 Procedure

Table 4.5A.9.3-1: EUTRA/EPS signalling for IMS MT video call

St	St Procedure Message S		Message Sequence
		U - S	Message
1	SS sends a Paging message to the UE on the	<	RRC: Paging (PCCH)
	appropriate paging block, and including the UE identity		
	in one entry of the IE pagingRecordLists.		
2	The UE transmits an RRCConnectionRequest message	>	RRCConnectionRequest
	with 'establishmentCause' set to 'mt-Access'.		
3	SS transmit an RRCConnectionSetup message.	<	RRC: RRCConnectionSetup
4	The UE transmits an RRCConnectionSetupComplete	>	RRC: RRCConnectionSetupComplete
	message to confirm the successful completion of the		NAS: SERVICE REQUEST
	connection establishment and to initiate the session		
	management procedure by including the SERVICE		
	REQUEST message.		
5	The SS transmits a SecurityModeCommand message	<	RRC: SecurityModeCommand
	to activate AS security.		
6	The UE transmits a SecurityModeComplete message	>	RRC: SecurityModeComplete
	and establishes the initial security configuration.		
7	The SS configures a new data radio bearer, associated	<	RRC: RRCConnectionReconfiguration
	with the default EPS bearer context.		
	The RRCConnectionReconfiguration message is using		
	condition SRB2-DRB(1, 0). The DRB associated with		
	default EPS bearer context obtained during the attach		
	procedure is established		
8	The UE transmits an	>	RRC:
	RRCConnectionReconfigurationComplete message to		RRCConnectionReconfigurationComplet
	confirm the establishment of the new data radio bearer,		е
0.40	associated with the default EPS bearer context.		
9-12	Steps 1-4 expected sequence defined in annex C.26 of	-	-
40	TS 34.229-1 [35]. MTSI MT video call.		DDO: DDOO: was a tis a De se afirm and tis a
13	The SS configures a new RLC-UM data radio bearer	<	RRC: RRCConnectionReconfiguration
	with condition DRB (0,2), associated with the dedicated		NAS:
	EPS bearer context. RRCConnectionReconfiguration		ACTIVATE DEDICATED EPS BEARER
	message contains one ACTIVATE DEDICATED EPS BEARER CONTEXT REQUEST message per		CONTEXT REQUEST ACTIVATE DEDICATED EPS BEARER
	additional data radio bearer. One EPS bearer context		CONTEXT REQUEST
	#4 (QCI 1) and one EPS bearer context #3 (QCI 2)		CONTEXT REQUEST
	according table 6.6.2-1: Reference dedicated EPS		
	bearer contexts.		
14	The UE transmits an	>	RRC:
'¬	RRCConnectionReconfigurationComplete message to		RRCConnectionReconfigurationComplet
	confirm the establishment of the new data radio bearer,		e
	associated with the dedicated EPS bearer.		
15	The UE transmits an ACTIVATE DEDICATED EPS	>	RRC: ULInformationTransfer
.	BEARER CONTEXT ACCEPT message for the first		NAS:ACTIVATE DEDICATED EPS
	bearer.		BEARER CONTEXT ACCEPT
16	The UE transmits an ACTIVATE DEDICATED EPS	>	RRC: ULInformationTransfer
	BEARER CONTEXT ACCEPT message for the second	•	NAS:ACTIVATE DEDICATED EPS
	bearer.		BEARER CONTEXT ACCEPT
17-	Steps 5-15 expected sequence defined in annex C.26	-	-
27	of TS 34.229-1 [35]. MTSI MT video call for EPS.		

4.5A.9.4 Specific message contents

All specific message contents shall be referred to clause 4.6 and 4.7.

4.5A.10 Generic Test Procedure for IMS MO speech and aSRVCC in E-UTRA

4.5A.10.1 Initial conditions

System Simulator:

- Parameters are set to the default parameters for the basic single cell environment, as defined in subclause 4.4, unless otherwise specified in the test case.

User Equipment:

- The UE shall be in Registered, Idle Mode state (State 2).

4.5A.10.2 Definition of system information messages

The default system information messages are used.

4.5A.10.3 Procedure

Table 4.5A.10.3-1: EUTRA/EPS signalling for IMS MO speech to alerting state

St	St Procedure		Message Sequence		
		U - S	Message		
1	Make the UE attempt an IMS speech call	-	-		
2	The UE transmits an RRCConnectionRequest message	>	RRCConnectionRequest		
	with ' establishmentCause' set to ' mo-Data '.				
3	SS transmit an RRCConnectionSetup message.	<	RRC: RRCConnectionSetup		
4	The UE transmits an RRCConnectionSetupComplete	>	RRC: RRCConnectionSetupComplete		
	message to confirm the successful completion of the		NAS: SERVICE REQUEST		
	connection establishment and to initiate the session				
	management procedure by including the SERVICE				
5	REQUEST message. The SS transmits a SecurityModeCommand message		RRC: SecurityModeCommand		
5	to activate AS security.	<	RRC. SecurityModeCommand		
6	The UE transmits a SecurityModeComplete message		RRC: SecurityModeComplete		
0	and establishes the initial security configuration.	>	KKC. SecurityWodeComplete		
7	The SS configures a new data radio bearer, associated	<	RRC: RRCConnectionReconfiguration		
,	with the default EPS bearer context.		100. Total in the configuration		
	The RRCConnectionReconfiguration message is using				
	condition SRB2-DRB(1, 0). The DRB associated with				
	default EPS bearer context obtained during the attach				
	procedure is established				
-	EXCEPTION: In parallel to the events described in	-	-		
	steps 8 below, the behaviour in table 4.5A.10.3-2				
	occurs. Initiate MTSI MO speech.				
8	The UE transmits an	>	RRC:		
	RRCConnectionReconfigurationComplete message to		RRCConnectionReconfigurationComplet		
	confirm the establishment of the new data radio bearer,		е		
	associated with the default EPS bearer context.				
9-11	Steps 3-4 expected sequence defined in annex C.21 of	-	-		
	TS 34.229-1 [35]. MTSI MO speech call for EPS.				
12	The SS configures a new RLC-UM data radio bearer	<	RRC: RRCConnectionReconfiguration		
	with condition DRB (0,1), associated with the dedicated		NAS:		
	EPS bearer context. RRCConnectionReconfiguration message contains the ACTIVATE DEDICATED EPS		ACTIVATE DEDICATED EPS BEARER		
	BEARER CONTEXT REQUEST message. EPS bearer		CONTEXT REQUEST		
	context #4 (QCI 1) according to table 6.6.2-1:				
	Reference dedicated EPS bearer contexts.				
	EXCEPTION: In parallel to the events described in	-	-		
	steps 13-14 below, the behaviour in table 4.5A.10.3-3				
	occurs. MTSI MO speech call to alerting state.				
13	The UE transmits an	>	RRC:		
	RRCConnectionReconfigurationComplete message to		RRCConnectionReconfigurationComplet		
	confirm the establishment of the new data radio bearer,		е		
	associated with the dedicated EPS bearer.				
14	The UE transmits an ACTIVATE DEDICATED EPS	>	RRC: ULInformationTransfer		
	BEARER CONTEXT ACCEPT message.		NAS:ACTIVATE DEDICATED EPS		
			BEARER CONTEXT ACCEPT		

Table 4.5A.10.3-2: Parallel behaviour

St	Procedure	Message Sequence		
		U-S	Message	
1	Step 2 expected sequence defined in annex	-	-	
	C.21 of TS 34.229-1 [35]. UE sends INVITE.			

Table 4.5A.10.3-3: Parallel behaviour

St	Procedure	Message Sequence		
		U - S	Message	
1-7	Steps 5-11 expected sequence defined in	-	-	
	annex C.21 of TS 34.229-1 [35]. MTSI MO			
	speech call to alerting state for EPS.			

4.5A.10.4 Specific message contents

All specific message contents shall be referred to clause 4.6 and 4.7.

4.5A.11 Generic Test Procedure for IMS MO add video establishment in E-UTRA

4.5A.11.1 Initial conditions

System Simulator:

- Parameters are set to the default parameters for the basic single cell environment, as defined in subclause 4.4, unless otherwise specified in the test case.

User Equipment:

- The UE shall execute 4.5A.6.

4.5A.11.2 Definition of system information messages

4.5A.11.3 Procedure

Table 4.5A.11.3-1: EUTRA/EPS signalling for IMS MO add video

St	Procedure	Message Sequence	
		U-S	Message
1	Make the UE attempt add IMS video to the voice call.	1	-
2-4	Steps 2-4 expected sequence defined in expected	-	-
	sequence test case 17.1.4 of TS 34.229-1 [35]. MO		
	Speech, add video remove video.		
5	The SS configures a new RLC-UM data radio bearer	<	RRC: RRCConnectionReconfiguration
	with condition DRB (0,1), associated with the dedicated		NAS:
	EPS bearer context. RRCConnectionReconfiguration		ACTIVATE DEDICATED EPS BEARER
	message contains the ACTIVATE DEDICATED EPS		CONTEXT REQUEST
	BEARER CONTEXT REQUEST message. EPS bearer		
	context #3 (QCI 2) according to table 6.6.2-1:		
	Reference dedicated EPS bearer contexts.		
-	EXCEPTION: In parallel to the events described in	-	-
	steps 6-7 below, the behaviour in table 4.5A.11.3-2		
	occurs. (IMS MTSI MO video call establishment).		
6	The UE transmits an	>	RRC:
	RRCConnectionReconfigurationComplete message to		RRCConnectionReconfigurationComplet
	confirm the establishment of the new data radio bearer,		е
	associated with the dedicated EPS bearer. EPS bearer		
	context #3 (QCI 2) according table to 6.6.2-1:		
	Reference dedicated EPS bearer contexts.		
7	The UE transmits an ACTIVATE DEDICATED EPS	>	RRC: ULInformationTransfer
	BEARER CONTEXT ACCEPT message for the first		NAS:ACTIVATE DEDICATED EPS
	bearer.		BEARER CONTEXT ACCEPT

Table 4.5A.11.3-2: Parallel behaviour

St	Procedure	Message Sequence		
		U - S	Message	
1-6	Steps 5-10 expected sequence defined in test case 17.1.4 of TS 34.229-1 [35]. MO Speech,	-	-	
	add video remove video.			

4.5A.11.4 Specific message contents

All specific message contents shall be referred to clause 4.6 and 4.7.

4.5A.12 Generic Test Procedure for IMS MT add video establishment in E-UTRA

4.5A.12.1 Initial conditions

System Simulator:

- Parameters are set to the default parameters for the basic single cell environment, as defined in subclause 4.4, unless otherwise specified in the test case.

User Equipment:

- The UE shall execute 4.5A.7.

4.5A.12.2 Definition of system information messages

4.5A.12.3 Procedure

Table 4.5A.12.3-1: EUTRA/EPS signalling for IMS MT add video

St	Procedure		Message Sequence
		U - S	Message
1-3	Steps 1-3 expected sequence defined in expected sequence test case 17.2.4 of TS 34.229-1 [35]. MT Speech, add video remove video.	-	-
4	The SS configures a new RLC-UM data radio bearer with condition DRB (0,1), associated with the dedicated EPS bearer context. RRCConnectionReconfiguration message contains the ACTIVATE DEDICATED EPS BEARER CONTEXT REQUEST message. EPS bearer context #3 (QCI 2) according to table 6.6.2-1: Reference dedicated EPS bearer contexts.	<	RRC: RRCConnectionReconfiguration NAS: ACTIVATE DEDICATED EPS BEARER CONTEXT REQUEST
5	The UE transmits an RRCConnectionReconfigurationComplete message to confirm the establishment of the new data radio bearer, associated with the dedicated EPS bearer. EPS bearer context #3 (QCI 2) according table to 6.6.2-1: Reference dedicated EPS bearer contexts.	>	RRC: RRCConnectionReconfigurationComplet e
6	The UE transmits an ACTIVATE DEDICATED EPS BEARER CONTEXT ACCEPT message for the first bearer.	^	RRC: ULInformationTransfer NAS:ACTIVATE DEDICATED EPS BEARER CONTEXT ACCEPT
7-12	Steps 4-9 expected sequence defined in test case 17.1.4 of TS 34.229-1 [35]. MT Speech, add video remove video.		

4.5A.12.4 Specific message contents

All specific message contents shall be referred to clause 4.6 and 4.7.

4.5A.13 Void

4.5A.14 Generic Test Procedure for IMS XCAP establishment in EUTRA

4.5A.14.1 Initial conditions

System Simulator:

- Parameters are set to the default parameters for the basic single cell environment, as defined in subclause 4.4, unless otherwise specified in the test case.

User Equipment:

- The UE shall be in Registered, Idle Mode state (State 2).
- If pc_XCAP_only_APN==true then the UE is connected to the IMS PDN only
- else the UE is connected to the IMS PDN and the Internet PDN which is used for XCAP signalling.

4.5A.14.2 Definition of system information messages

4.5A.14.3 Procedure

Table 4.5A.14.3-1: EUTRA/EPS signalling for XCAP

St	Procedure		Message Sequence
		U-S	Message
1	Make the UE attempt XCAP signalling.	-	-
2	The UE transmits an RRCConnectionRequest message	>	RRCConnectionRequest
	with ' establishmentCause' set to 'mo-Data '.		
3	SS transmit an RRCConnectionSetup message.	' -	RRC: RRCConnectionSetup
4	The UE transmits an RRCConnectionSetupComplete	>	RRC: RRCConnectionSetupComplete
	message to confirm the successful completion of the		NAS: SERVICE REQUEST
	connection establishment and to initiate the session		
	management procedure by including the SERVICE		
	REQUEST message.		
5	The SS transmits a SecurityModeCommand message	<	RRC: SecurityModeCommand
	to activate AS security.		
6	The UE transmits a SecurityModeComplete message	>	RRC: SecurityModeComplete
	and establishes the initial security configuration.		
7	The SS configures a new data radio bearer, associated	<	RRC: RRCConnectionReconfiguration
	with the default EPS bearer context.		
	The RRCConnectionReconfiguration message is using condition SRB2-DRB(1, 0) in case of		
	pc_XCAP_only_APN==true or using condition SRB2-		
	DRB(2, 0) in case of		
	pc_XCAP_over_Internet_APN==true. The DRBs		
	associated with the respective default EPS bearer		
	context obtained during the attach procedure are		
	established		
8	The UE transmits an	>	RRC:
	RRCConnectionReconfigurationComplete message to		RRCConnectionReconfigurationComplet
	confirm the establishment of the new data radio bearer,		e
	associated with the default EPS bearer context.		
	EXCEPTION:		
	IF pc_XCAP_only_APN THEN		
	additional PDN connectivity shall be established as		
	specified in TS 36.508 subclause 4.5A.16 (condition:		
	NOT ADD_IMS)		

4.5A.14.4 Specific message contents

All specific message contents shall be referred to clause 4.6 and 4.7.

4.5A.15 Generic Test Procedure for EPS Bearer Deactivation

4.5A.15.1 Initial conditions

The EPS bearer to be deactivated has been established before. The EPS bearer has to be specified.

4.5A.15.2 Definition of system information messages

The system information messages applicable in the test case are used.

4.5A.15.3 Procedure

Table 4.5A.15.3-1: Procedure for EPS Bearer Deactivation

Step	Procedure		Message Sequence
		U - S	Message
1	The SS transmits an RRCConnectionReconfiguration message to deactivate an EPS bearer.	<	RRC: RRCConnectionReconfiguration NAS: DEACTIVATE EPS BEARER CONTEXT REQUEST
-	EXCEPTION: In parallel to the event described in step2 the step specified in Table 4.5A.15.3-2 should take place.	-	-
2	The UE transmits an RRCConnectionReconfigurationComplete message to confirm the deactivation of EPS bearer.	>	RRC: RRCConnectionReconfigurationComplete
3	Void	-	-

Table 4.5A.15.3-2: Procedure for EPS Bearer Deactivation (parallel behaviour)

Step	Procedure	Message Sequence		
		U - S	Message	
1	The UE transmits an ULInformationTransfer	>	RRC: ULInformationTransfer	
	message to accept deactivation of the EPS		NAS: DEACTIVATE EPS BEARER CONTEXT	
	bearer.		ACCEPT	

4.5A.15.4 Specific message contents

Table 4.5A.15.4-1: Message DEACTIVATE EPS BEARER CONTEXT REQUEST (step 1, Table 4.5A.15.3-1)

Derivation path: Table 4.7.3-12 and table 4.6.1-	8 with condition and condition NE	TWORK-INITIATED	
Information Element	Value/Remark	Comment	Condition
EPS bearer identity	EPS bearer identity	Same value as in the activation	
		message.	
ESM cause	00100100	regular deactivation	

Table 4.5A.15.4-2: Message DEACTIVATE EPS BEARER CONTEXT ACCEPT (step 2, Table 4.5A.15.3-1)

Derivation Path:Table 4.7.3-11			
Information Element	Value/remark	Comment	Condition
EPS bearer identity	EPS bearer identity	The same value as the value set in DEACTIVATE EPS BEARER CONTEXT REQUEST message.	
Procedure transaction identity	0	No procedure transaction identity assigned	

4.5A.16 Generic Test Procedure to establish additional PDN connectivity

The same assumptions and definitions apply as in clause 4.5.2and in addition:

Condition	Explanation
ADD_IMS	true if this procedure is part of the initial registration (PDN2_IMS==true according to definitions in
	clause 4.5.2);
	false for all other cases

4.5A.16.1 Initial conditions

System Simulator:

- 1 cell, default parameters.
- The procedure shall be performed under ideal radio conditions as defined in clause 5

User Equipment:

- The UE is in Registered, RRC_CONNECTED state (State 2).

4.5A.16.2 Definition of system information messages

The default system information messages are used.

4.5A.16.3 Procedure

Table 4.5A.16.3-1: Establishment of additional PDN connectivity

St	Procedure	Message Sequence	
		U-S	Message
1	The UE transmits a PDN CONNECTIVITY REQUEST message to request an additional PDN.	>	RRC: ULInformationTransfer NAS: PDN CONNECTIVITY REQUEST
2	The SS configures a new data radio bearer, associated with the additional default EPS bearer context. RRCConnectionReconfiguration message contains the ACTIVATE DEFAULT EPS BEARER CONTEXT REQUEST message.	<	RRC: RRCConnectionReconfiguration NAS: ACTIVATE DEFAULT EPS BEARER CONTEXT REQUEST
3	The UE transmits an RRCConnectionReconfigurationComplete message to confirm the establishment of additional default bearer.	>	RRC: RRCConnectionReconfigurationComplet e
-	EXCEPTION: In parallel to the event described in step 4 below, if initiated by the UE the generic procedure for IP address allocation in the U-plane specified in TS 36.508 subclause 4.5A.1 takes place performing IP address allocation in the U-plane.		
-	EXCEPTION: IF ADD_IMS THEN in parallel to the event described in step 4 below the generic procedure for IMS signalling in the U-plane specified in TS 36.508 subclause 4.5A.3 takes place if requested by the UE		
4	The UE transmits an ACTIVATE DEFAULT EPS BEARER CONTEXT ACCEPT message.	>	RRC: ULInformationTransfer NAS:ACTIVATE DEFAULT EPS BEARER CONTEXT ACCEPT

4.5A.16.4 Specific message contents

All specific message contents shall be referred to clause 4.6 and 4.7 with the exceptions below.

Table 4.5A.16.4-1: PDN CONNECTIVITY REQUEST (step 1)

Derivation Path: Table 4.7.3-20			
Information Element	Value/remark	Comment	Condition
Access point name	Any allowed value	The UE includes a new APN.	

Table 4.5A.16.4-2: Message ACTIVATE DEFAULT EPS BEARER CONTEXT REQUEST (step 2)

table 4.6.1-8 with condition AM-DRB-ADD(1) for Information Element	Value/Remark	Comment	Condition
EPS bearer identity	'0101'B	arbitrary value used for PDN connectivity being maintained during the test case	ADD_IMS
EPS bearer identity	'1100'B	arbitrary value used for additional non-IMS PDN connectivity	NOT ADD_IMS
Procedure transaction identity	PTI-1	SS re-uses the particular PTI defined by UE for this present additional PDN connectivity request procedure	

Table 4.5A.16.4-3: Message ACTIVATE DEFAULT EPS BEARER CONTEXT ACCEPT (step 4)

Information Element	Value/Remark	Comment	Condition
EPS bearer identity	(same value as used in step 2)		
Procedure transaction identity	0	No procedure transaction identity assigned	

4.5A.17 Generic Test Procedure for user initiated release of additional PDN connectivity

4.5A.17.1 Initial conditions

System Simulator:

- 1 cell, default parameters.
- The procedure shall be performed under ideal radio conditions as defined in clause 5

User Equipment:

- The UE shall be in Registered, Idle Mode state (State 2) with connectivity at least to two PDNs

4.5A.17.2 Definition of system information messages

4.5A.17.3 Procedure

Table 4.5A.17.3-1: Release of additional PDN connectivity

St	Procedure	Message Sequence		
		U-S	Message	
1	Cause the UE to request disconnection from the			
	additional PDN (see Note 1)			
2	The UE transmits an RRCConnectionRequest	>	RRCConnectionRequest	
3	SS transmit an RRCConnectionSetup message.	<	RRC: RRCConnectionSetup	
4	The UE transmits an RRCConnectionSetupComplete	>	RRC: RRCConnectionSetupComplete	
	message to confirm the successful completion of the		NAS: SERVICE REQUEST	
	connection establishment and to initiate the session			
	management procedure by including the SERVICE			
	REQUEST message.			
5	The SS transmits a SecurityModeCommand message	<	RRC: SecurityModeCommand	
	to activate AS security.			
6	The UE transmits a SecurityModeComplete message	>	RRC: SecurityModeComplete	
	and establishes the initial security configuration.			
7	The SS transmits a RRCConnectionReconfiguration	<	RRC: RRCConnectionReconfiguration	
	message to establish SRB2 and DRBs associated with			
	all default EPS bearer contexts			
8	The UE transmits an	>	RRC:	
	RRCConnectionReconfigurationComplete message to		RRCConnectionReconfigurationComplet	
	confirm the establishment of SRB2 and DRBs		е	
	associated with all default EPS bearer contexts.			
9	The UE transmits a PDN DISCONNECT REQUEST	>	RRC: ULInformationTransfer	
			PDN DISCONNECT REQUEST	
10	The SS transmits a DEACTIVATE EPS BEARER	<	RRC: RRCConnectionReconfiguration	
	CONTEXT REQUEST message included in an		NAS: DEACTIVATE EPS BEARER	
	RRCConnectionReconfiguration message.		CONTEXT REQUEST	
11	The UE transmits an	>	RRC:	
	RRCConnectionReconfigurationComplete message to		RRCConnectionReconfigurationComplet	
	confirm the release of the bearer.		е	
12	The UE transmits a DEACTIVATE EPS BEARER	>	RRC: ULInformationTransfer	
	CONTEXT ACCEPT message.		DEACTIVATE EPS BEARER CONTEXT	
			ACCEPT	
13	The SS transmits an RRCConnectionRelease message	<	RRC: RRCConnectionRelease	
	to release RRC connection			
NOTE				
	bearer identity of the Default EPS Bearer of the PDN to	be releas	sed needs to be handed over to the UE	

4.5A.17.4 Specific message contents

All specific message contents shall be referred to clause 4.6 and 4.7 with the exceptions below.

Table 4.5A.17.4-1: RRCConnectionReconfiguration (step 7)

Derivation path: 36.508 table 4.6.1-8 using condition SRB2-DRB(2, 0)

NOTE: The bid for the AM DRBs shall be 1 and 8 instead of 1 and 2.

Table 4.5A.17.4-2: PDN DISCONNECT REQUEST (step 9)

Information Element	Value/remark	Comment	Condition
EPS bearer identity	'0000'	"no EPS bearer identity assigned"	
Procedure transaction identity	PTI-1	UE assigns a particular PTI not yet used between 1 and 254	
Linked EPS bearer identity	(bearer identity as handed over at step 1)		

Table 4.5A.17.4-3: RRCConnectionReconfiguration (step 10)

Derivation path: 36.508 table 4.6.1-8 using condition DRB-REL(8)

Table 4.5A.17.4-4: DEACTIVATE EPS BEARER CONTEXT REQUEST (step 10)

Information Element	Value/remark	Comment	Condition	
EPS bearer identity	(same as in Linked EPS bearer identity of step 9)			
Procedure transaction identity	PTI-1	SS re-uses the particular PTI defined by UE for this present PDN disconnection procedure.	UE- INITIATED	
ESM cause	00100100	regular deactivation		

Table 4.5A.17.4-5: DEACTIVATE EPS BEARER CONTEXT ACCEPT (step 12)

Information Element	Value/remark	Comment	Condition
EPS bearer identity	(same as in DEACTIVATE EPS BEARER CONTEXT REQUEST of step 10)	The same value as the value set in DEACTIVATE EPS BEARER CONTEXT REQUEST message.	
Procedure transaction identity	0	No procedure transaction identity assigned	

4.5A.18 Generic Test Procedure for network initiated release of additional PDN connectivity

4.5A.18.1 Initial conditions

System Simulator:

- 1 cell, default parameters.
- The procedure shall be performed under ideal radio conditions as defined in clause 5

User Equipment:

- The UE shall be in Registered, Idle Mode state (State 2) with connectivity at least to two PDNs

4.5A.18.2 Definition of system information messages

4.5A.18.3 Procedure

Table 4.5A.18.3-1: Release of additional PDN connectivity

St	Procedure		Message Sequence
		U - S	Message
1-7	Steps 1 to 7 of the generic radio bearer establishment procedure (TS 36.508 4.5.3.3-1)		
8	The SS transmits a RRCConnectionReconfiguration message to establish SRB2 and DRBs associated with all default EPS bearer contexts	<	RRC: RRCConnectionReconfiguration
9	The UE transmits an RRCConnectionReconfigurationComplete message to confirm the establishment of SRB2 and DRBs associated with all default EPS bearer contexts.	>	RRC: RRCConnectionReconfigurationComplet e
10	SS releases the PDN connectivity by transmitting a RRCConnectionReconfiguration containing a DEACTIVATE EPS BEARER CONTEXT REQUEST	<	RRC: RRCConnectionReconfiguration NAS: DEACTIVATE EPS BEARER CONTEXT REQUEST
11	The UE transmits an RRCConnectionReconfigurationComplete message to confirm the release of the bearer.	>	RRC: RRCConnectionReconfigurationComplet e
12	The UE transmits a DEACTIVATE EPS BEARER CONTEXT ACCEPT message.	>	DEACTIVATE EPS BEARER CONTEXT ACCEPT
13	The SS transmits an RRCConnectionRelease message to release RRC connection	<	RRC: RRCConnectionRelease

4.5A.18.4 Specific message contents

All specific message contents shall be referred to clause 4.6 and 4.7 with the exceptions below.

Table 4.5A.18.4-1: RRCConnectionReconfiguration (step 8)

Derivation path: 36.508 table 4.6.1-8 using condition SRB2-DRB(2, 0)	
NOTE: The bid for the AM DRBs shall be 1 and 8 instead of 1 and 2.	

Table 4.5A.18.4-2: RRCConnectionReconfiguration (step 10)

Derivation path: 36.508 table 4.6.1-8 using condition DRB-REL(8)

Table 4.5A.18.4-3: DEACTIVATE EPS BEARER CONTEXT REQUEST (step 10)

Derivation Path: TS 36.508 Table 4.7.3-12				
Information Element	Value/remark	Comment	Condition	
EPS bearer identity	(identity of default EPS			
	bearer associated with			
	the PDN to be released)			
ESM cause	00011010	Insufficient		
		resources		
T3396	Deactivated		Rel-10	

Table 4.5A.18.4-4: DEACTIVATE EPS BEARER CONTEXT ACCEPT (step 12)

Derivation Path: TS 36.508 Table 4.7.3-11			
Information Element	Value/remark	Comment	Condition
EPS bearer identity	(same as in	The same value	
	DEACTIVATE EPS	as the value set in	
	BEARER CONTEXT	DEACTIVATE	
	REQUEST of step 10)	EPS BEARER	
		CONTEXT	
		REQUEST	
		message.	
Procedure transaction identity	0	No procedure	
		transaction	
		identity assigned	

4.5A.19 Generic Test Procedure for IMS MO speech call establishment in E-UTRA / EVS

4.5A.19.1 Initial conditions

System Simulator:

- Parameters are set to the default parameters for the basic single cell environment, as defined in subclause 4.4, unless otherwise specified in the test case.

User Equipment:

- The UE shall be in Registered, Idle Mode state (State 2).

4.5A.19.2 Definition of system information messages

The default system information messages are used.

4.5A.19.3 Procedure

Table 4.5A.19.3-1: EUTRA/EPS signalling for IMS MO speech call

St	Procedure		Message Sequence
		U-S	Message
1	Make the UE attempt an IMS speech call	1	-
2	The UE transmits an RRCConnectionRequest message	>	RRCConnectionRequest
	with 'establishmentCause' set to 'mo-Data'.		
3	SS transmit an RRCConnectionSetup message.	<	RRC: RRCConnectionSetup
4	The UE transmits an RRCConnectionSetupComplete	>	RRC: RRCConnectionSetupComplete
	message to confirm the successful completion of the		NAS: SERVICE REQUEST
	connection establishment and to initiate the session		
	management procedure by including the SERVICE		
	REQUEST message.		DD0 0 "144 1 0 1
5	The SS transmits a SecurityModeCommand message	<	RRC: SecurityModeCommand
	to activate AS security.		DDO: On accept Manda On manda to
6	The UE transmits a SecurityModeComplete message	>	RRC: SecurityModeComplete
7	and establishes the initial security configuration.		DDC: DDCCompostionDocomfiguration
7	The SS configures a new data radio bearer, associated with the default EPS bearer context.	<	RRC: RRCConnectionReconfiguration
	The RRCConnectionReconfiguration message is using		
	condition SRB2-DRB(1, 0). The DRB associated with		
	default EPS bearer context obtained during the attach		
	procedure is established		
_	EXCEPTION: In parallel to the events described in	_	-
	steps 8 below, the behaviour in table 4.5A.19.3-2		
	occurs. (IMS MTSI MO speech call establishment)		
8	The UE transmits an	>	RRC:
	RRCConnectionReconfigurationComplete message to		RRCConnectionReconfigurationComplet
	confirm the establishment of the new data radio bearer,		е
	associated with the default EPS bearer context.		
9-11	Steps 3-4 expected sequence defined in annex C.44 of	-	-
	TS 34.229-1 [35]. MTSI MO speech call for EPS / EVS.		
12	The SS configures a new RLC-UM data radio bearer	<	RRC: RRCConnectionReconfiguration
	with condition DRB (0,1), associated with the dedicated		NAS:
	EPS bearer context. RRCConnectionReconfiguration		ACTIVATE DEDICATED EPS BEARER
	message contains the ACTIVATE DEDICATED EPS BEARER CONTEXT REQUEST message. EPS bearer		CONTEXT REQUEST
	context #4 (QCI 1) according to table 6.6.2-1:		
	Reference dedicated EPS bearer contexts.		
_	EXCEPTION: In parallel to the events described in	_	<u> </u>
	steps 13-14 below, the behaviour in table 4.5A.19.3-3		
	occurs. (IMS MTSI MO speech call establishment)		
13	The UE transmits an	>	RRC:
	RRCConnectionReconfigurationComplete message to		RRCConnectionReconfigurationComplet
	confirm the establishment of the new data radio bearer,		е
	associated with the dedicated EPS bearer.		
14	The UE transmits an ACTIVATE DEDICATED EPS	>	RRC: ULInformationTransfer
	BEARER CONTEXT ACCEPT message.		NAS:ACTIVATE DEDICATED EPS
			BEARER CONTEXT ACCEPT

Table 4.5A.19.3-2: Parallel behaviour

St	Procedure	Message Sequence	
		U - S	Message
1	Step 2 expected sequence defined in annex	-	-
	C.44 of TS 34.229-1 [35]. UE sends INVITE.		

Table 4.5A.19.3-3: Parallel behaviour

St	Procedure	Message Sequence	
		U-S	Message
1-9	Steps 5-13 expected sequence defined in annex C.44 of TS 34.229-1 [35]. MTSI MO speech call for EPS / EVS.	-	-

4.5A.19.4 Specific message contents

All specific message contents shall be referred to clause 4.6 and 4.7.

4.6 Default RRC message and information elements contents

This clause contains the default values of common RRC messages and information elements, which unless indicated otherwise in specific clauses of TS 36.521-1 [21], TS 36.521-3 [34], TS 36.523-1 [18] and other clauses in this specification. All the messages and information elements are listed in alphabetical order.

4.6.1 Contents of RRC messages

CounterCheck

Table 4.6.1-0a: CounterCheck

Derivation Path: 36.331 clause 6.2.2		<u> </u>	
Information Element	Value/remark	Comment	Condition
CounterCheck ::= SEQUENCE {			
rrc-TransactionIdentifier	RRC-		
	TransactionIdentifier-DL		
criticalExtensions CHOICE {			
c1 CHOICE {			
counterCheck-r8 SEQUENCE {			
drb-CountMSB-InfoList	Set according to specific		
	message content		
nonCriticalExtension SEQUENCE {}	Not present		
}			
}			
}			
}			

CounterCheckResponse

Table 4.6.1-0b: CounterCheckResponse

Information Element	Value/remark	Comment	Condition
CounterCheckResponse ::= SEQUENCE {			
rrc-TransactionIdentifier	RRC- TransactionIdentifier-UL		
criticalExtensions CHOICE {			
counterCheckResponse-r8 SEQUENCE {			
drb-CountInfoList	Set according to specific message content		
nonCriticalExtension SEQUENCE {}	Not checked		
}			
}			
}			

CSFBParametersRequestCDMA2000

Table 4.6.1-1: CSFBParametersRequestCDMA2000

Derivation Path: 36.331 clause 6.2.2			
Information Element	Value/remark	Comment	Condition
CSFBParametersRequestCDMA2000 ::=			
SEQUENCE {			
criticalExtensions CHOICE {			
csfbParametersRequestCDMA2000-r8			
SEQUENCE {			
nonCriticalExtension SEQUENCE {}	Not checked		
}			
}			
}			

CSFBParametersResponseCDMA2000

Table 4.6.1-2: CSFBParametersResponseCDMA2000

Derivation Path: 36.331 clause 6.2.2			
Information Element	Value/remark	Comment	Condition
CSFBParametersResponseCDMA2000 ::=			
SEQUENCE {			
rrc-TransactionIdentifier	RRC-		
	TransactionIdentifier-DL		
criticalExtensions CHOICE {			
csfbParametersResponseCDMA2000-r8			
SEQUENCE {			
rand	Set according to specific		
	message content		
mobilityParameters	Set according to specific		
	message content		
nonCriticalExtension SEQUENCE {}	Not present		
}			
}			
}			

DLInformationTransfer

Table 4.6.1-3: DLInformationTransfer

Derivation Path: 36.331 clause 6.2.2			
Information Element	Value/remark	Comment	Condition
DLInformationTransfer ::= SEQUENCE {			
rrc-TransactionIdentifier	RRC-		
	TransactionIdentifier-DL		
criticalExtensions CHOICE {			
c1 CHOICE {			
dlInformationTransfer-r8 SEQUENCE {			
dedicatedInfoType CHOICE {			
dedicatedInfoNAS	Set according to specific		
	message content		
}			
nonCriticalExtension SEQUENCE {}	Not present		
}			
}			
}			
] }		·	

- HandoverFromEUTRAPreparationRequest

Table 4.6.1-4: HandoverFromEUTRAPreparationRequest

Derivation Path: 36.331 clause 6.2.2			
Information Element	Value/remark	Comment	Condition
HandoverFromEUTRAPreparationRequest ::=			
SEQUENCE {			
rrc-TransactionIdentifier	RRC-		
	TransactionIdentifier-DL		
criticalExtensions CHOICE {			
c1 CHOICE {			
handoverFromEUTRAPreparationRequest-r8			
SEQUENCE {			
cdma2000-Type	type1XRTT		
rand	A random value,		
	generated by the SS		
mobilityParameters	Set according to specific		
	message content		
nonCriticalExtension SEQUENCE {}	Not present		
}			
}			
}			
		·	

LoggedMeasurementConfiguration

Table 4.6.1-4.0A: LoggedMeasurementConfiguration

Derivation Path: 36.331 clause 6.2.2			
Information Element	Value/remark	Comment	Condition
LoggedMeasurementConfiguration-r10 ::= SEQUENCE {			
criticalExtensions CHOICE {			
c1 CHOICE {			
loggedMeasurementConfiguration-r10			
SEQUENCE {			
traceReference-r10 SEQUENCE {			
plmn-Identity-r10 SEQUENCE {			
mcc SEQUENCE (SIZE (3)) OF MCC- NMC-Digit	See table 4.4.2-2		
mnc SEQUENCE (SIZE (23)) OF MCC- NMC-Digit	See table 4.4.2-2		
}			
traceld-r10	ʻ0EF'H	OCTET STRING (SIZE (3))	
}			
traceRecordingSessionRef-r10	'1A'H	OCTET STRING (SIZE (2))	
tce-ld-r10	'5'H	OCTET STRING (SIZE (1))	
absoluteTimeInfo-r10	Set to value	BIT STRING	
	corresponding to the	(SIZE (48)), see	
	absolute time when the	TS 36.331 clause	
	message is sent	6.3.6 for format.	
areaConfiguration-r10	Not present		
loggingDuration-r10	min120	ENUMERATED {	
		min10, min20,	
		min40, min60,	
		min90, min120,	
la main aluta mual 140		spare2, spare1}	
loggingInterval-r10	ms10240	ENUMERATED { ms1280, ms2560,	
		ms5120, ms2500,	
		ms10240,	
		ms20480,	
		ms30720,	
		ms40960,	
		ms61440}	
nonCriticalExtension SEQUENCE {}	Not present	·	
}			
}			
}			
[}			

MBMSCountingRequest

Table 4.6.1-4AA: MBMSCountingRequest

Derivation Path: 36.331 clause 6.2.2			
Information Element	Value/remark	Comment	Condition
MBMSCountingRequest-r10 ::= SEQUENCE {			
countingRequestList-r10 SEQUENCE (SIZE (1 maxServiceCount)) OF SEQUENCE {			
tmgi-r10 SEQUENCE {			
plmn-ld-r9 CHOICE{			
plmn-Index-r9	1		
}			
serviceld-r9	,000000,O	MBMS service ID (TS 24.008 clause 10.5.6.13), OCTET STRING (SIZE (3))	
}			
}			
lateNonCriticalExtension	Not present		
nonCriticalExtension SEQUENCE {}	Not present		
}	·		

MBMSCountingResponse

Table 4.6.1-4AB: MBMSCountingResponse

Derivation Path: 36.331 clause 6.2.2			
Information Element	Value/remark	Comment	Condition
MBMSCountingResponse-r10 ::= SEQUENCE {			
criticalExtensions CHOICE {			
c1 CHOICE{			
countingResponse-r10 OF SEQUENCE {			
mbsfn-AreaIndex-r10	Not present		
countingResponseList-r10 SEQUENCE (SIZE (1 maxServiceCount)) OF SEQUENCE {			
countingResponseService-r10	0		
}			
lateNonCriticalExtension	Not present		
nonCriticalExtension SEQUENCE {}	Not present		
}			
}			
}			
}			

MBMSInterestIndication

Table 4.6.1-4AC: MBMSInterestIndication

Derivation Path: 36.331 clause 6.2.2			
Information Element	Value/remark	Comment	Condition
criticalExtensions CHOICE {			
c1 CHOICE{			
interestIndication-r11 OF SEQUENCE {			
mbms-FreqList-r11[n] SEQUENCE (SIZE (1maxFreqMBMS-r11)) OF { INTEGER (0maxEARFCN2) }	The number of entries is set according to specific message content.	INTEGER (0maxEARFCN2	
mbms-Priority-r11	Not checked	ENUMERATED {true}	
lateNonCriticalExtension	Not present		
nonCriticalExtension SEQUENCE {}	Not present		
}			
}			
}			

MBSFNAreaConfiguration

Table 4.6.1-4A: MBSFNAreaConfiguration

Derivation Path: 36.331 clause 6.2.2			
Information Element	Value/remark	Comment	Condition
MBSFNAreaConfiguration-r9 ::= SEQUENCE {			
commonSF-Alloc-r9 SEQUENCE (SIZE			
(1maxMBSFN-Allocations)) OF SEQUENCE {			
radioframeAllocationPeriod	n4		
radioframeAllocationOffset	1		FDD
	0		TDD
subframeAllocation CHOICE {			
oneFrame	'100000'B		FDD
	'000010'B		TDD
}			
}			
commonSF-AllocPeriod-r9	rf8		
pmch-InfoList-r9 SEQUENCE (SIZE (0maxPMCH-			
PerMBSFN)) OF SEQUENCE {			
pmch-Config-r9 SEQUENCE {			
sf-AllocEnd-r9	1		
dataMCS-r9	0		
mch-SchedulingPeriod-r9	rf8		
}			
mbms-SessionInfoList-r9 SEQUENCE (SIZE			
(0maxSessionPerPMCH)) OF SEQUENCE {			
MBMS-SessionInfo-r9 SEQUENCE {			
tmgi-r9 SEQUENCE {			
plmn-ld-r9 CHOICE{			
plmn-Index-r9	1		
}			
serviceId-r9	,000000,O	OCTET STRING (SIZE (3))	
}		(SIZE (S))	
sessionId-r9	Not present		1
logicalChannelIdentity-r9	1		
}			
}			
}			

MeasurementReport

Table 4.6.1-5: MeasurementReport

Derivation Path: 36.331 clause 6.2.2			
Information Element	Value/remark	Comment	Condition
MeasurementReport ::= SEQUENCE {			
criticalExtensions CHOICE {			
c1 CHOICE {			
measurementReport-r8 SEQUENCE {			
measResults	Set according to specific message content		
nonCriticalExtension SEQUENCE {}	Not checked		
}			
}			
}			
}			

MobilityFromEUTRACommand

Table 4.6.1-6: MobilityFromEUTRACommand

Derivation Path: 36.331 clause 6.2.2			
Information Element	Value/remark	Comment	Condition
MobilityFromEUTRACommand ::= SEQUENCE {			
rrc-TransactionIdentifier	RRC-		
	TransactionIdentifier-DL		
criticalExtensions CHOICE {			
c1 CHOICE {			
mobilityFromEUTRACommand-r8 SEQUENCE {			
csFallbackIndicator	Set according to specific		
	message content		
purpose CHOICE {	Set according to specific		
	message content		
handover			
cellChangeOrder			
}			
nonCriticalExtension SEQUENCE {}	Not present		
}			
}		_	
}		<u> </u>	
}			

Paging

Table 4.6.1-7: Paging

Derivation Path: 36.331 clause 6.2.2			
Information Element	Value/remark	Comment	Condition
Paging ::= SEQUENCE {			
pagingRecordList SEQUENCE (SIZE (1maxPageRec)) OF SEQUENCE {	1 entry		
ue-Identity[1] CHOICE {			
s-TMSI	Set to the value of the S- TMSI of the UE		
}			
cn-Domain[1]	ps		
}			
systemInfoModification	Not present		
etws-Indication	Not present		
nonCriticalExtension SEQUENCE {}	Not present		
}			

RRCConnectionReconfiguration

Table 4.6.1-8: RRCConnectionReconfiguration

Derivation Path: 36.331 clause 6.2.2 Information Element	Value/remark	Comment	Condition
RRCConnectionReconfiguration ::= SEQUENCE {	value/remark	Comment	Condition
rrc-TransactionIdentifier	RRC-		
	TransactionIdentifier-DL		
criticalExtensions CHOICE {			
c1 CHOICE{			
rrcConnectionReconfiguration-r8 SEQUENCE {			
measConfig	Not present		1
	MeasConfig-DEFAULT		MEAS
mobilityControlInfo	Not present		110 110 70
	MobilityControlInfo-HO		HO, HO-TO- EUTRA
dedicatedInfoNASList	Not present		
	Set according to specific message content		SRB2- DRB(n, m) DRB(n, m) SRB1- SRB2- DRB(n,m) AM-DRB- ADD(bid) UM-DRB- ADD(bid) DRB- REL(bid)
and a December Opening Decide at a d	Notarrant		DRB-Mod
radioResourceConfigDedicated	Not present RadioResourceConfigDe		SRB2-
	dicated-SRB2-DRB(n, m) RadioResourceConfigDe		DRB(n, m) DRB(n, m)
	dicated-DRB(n, m)		DIXD(II, III)
	RadioResourceConfigDe		AM-DRB-
	dicated-AM-DRB- ADD(bid)		ADD(bid)
	RadioResourceConfigDe		UM-DRB-
	dicated-UM-DRB- ADD(bid)		ADD(bid)
	RadioResourceConfigDe		DRB-
	dicated-DRB-REL(bid)		REL(bid)
	RadioResourceConfigDe		НО
	dicated-HO		
	RadioResourceConfigDe		НО-ТО-
	dicated-HO-TO-		EUTRA(n,m
	EUTRA(n, m))
	RadioResourceConfigDe dicated-DRB-Mod		DRB-Mod
	RadioResourceConfigDe		SCell_AddM
	dicated-SCell_AddMod		od
	RadioResourceConfigDe		PCell-
	dicated-PCell-PATTERN		PATTERN
securityConfigHO	Not present		116
	SecurityConfigHO-		HO, HO-TO-
<u> </u>	DEFAULT		EUTRA
nonCriticalExtension SEQUENCE {			
lateNonCriticalExtension	Not present		-
nonCriticalExtension SEQUENCE {	1		-
otherConfig-r9	Not present		0.1 0
otherConfig-r9	OtherConfig-r9		OtherConfig
fullConfig-r9	Not present		
nonCriticalExtension SEQUENCE {			
sCellToReleaseList-r10	Not present		
sCellToAddModList-r10	Not present		

sCellToAddModList-r10 SEQUENCE (SIZE (1maxSCell-r10)) OF SEQUENCE {	The same number of entries as the configured	n denotes the index of the entry	SCell_AddM od
sCellToAddMod[n]	SCell(s) SCellToAddMod-r10-		
	DEFAULT		
}			
nonCriticalExtension SEQUENCE {SEQUENCE {			
wlan-OffloadDedicated-r12 CHOICE {	Not present		
release	Not present		
setup SEQUENCE {	Not present		
wlan-OffloadConfig-r12	Not present		
t350-r12	Not present		
}			
}			
scg-Configuration	Not present		nonFullConfi g
sl-SyncTxControl-r12	Not present		
sl-DiscConfig-r12	Not present		
sl-CommConfig-r12	Not present		
nonCriticalExtension	Not present		
}	•		
systemInfomationBlockType1Dedicated-r11	Not Present		
nonCriticalExtension SEQUENCE {			
wlan-OffloadInfo-r12 CHOICE {			
release	NULL		WLAN- OffloadRelea
setup SEQUENCE {			WLAN- OffloadSetu
wlan-OffloadConfigDedicated-r12	WLAN-OffloadConfig- DEFAULT		
t350-r12	min10		
}			
}			
scg-Configuration-r12	Not Present		
nonCriticalExtension	Not Present		
}			
}			
}			
}			
}			ļ
}			
}			
}			
}			

Condition	Explanation
SRB2-DRB(n,m)	Establishment of a SRB and DRB combination with n x AM DRB and m x UM DRB (including establishment of SRB2)
DRB(n,m)	Establishment of additional n x AM DRB:s and m x UM DRB:s (SRB2 should already be established)
AM-DRB-ADD(bid)	Establishment of a single additional AM DRB with bearer identity bid (SRB2 should already be established)
UM-DRB-ADD(bid)	Establishment of a single additional UM DRB with bearer identity bid (SRB2 should already be established)
DRB-REL(bid)	Release of the DRB with bearer identity bid
НО	Intra LTE handover
MEAS	A measurement is configured
HO-TO-EUTRA(n,m)	Inter-RAT handover to E-UTRA including the establishment of a SRB1, SRB2 and n x AM DRB plus m x UM DRB
nonFullConfig	The field is not present in case of handover within E-UTRA when the <i>fullConfig</i> is included or in case of handover of handover to E-UTRA; otherwise it is optional present, need ON.
DRB-Mod	Modification of already established DRB ID 2 and is used for sending Modify EPS Bearer Context Request message (SRB2 should already be established)
SCell_AddMod	Addition or modification of SCell(s)
PCell-PATTERN	elCIC Serving Cell Pattern
OtherConfig	Other Configuration is configured
WLAN-OffloadSetup	When Dedicated WLAN Offload parameters need to be configured in UE
WLAN-OffloadRelease	When Dedicated WLAN Offload parameters need to be released in UE

RRCConnectionReconfigurationComplete

Table 4.6.1-9: RRCConnectionReconfigurationComplete

Derivation Path: 36.331 clause 6.2.2			
Information Element	Value/remark	Comment	Condition
RRCConnectionReconfigurationComplete ::= SEQUENCE {			
rrc-TransactionIdentifier	RRC- TransactionIdentifier-UL		
criticalExtensions CHOICE {			
rrcConnectionReconfigurationComplete-r8 SEQUENCE {			
nonCriticalExtension SEQUENCE {}	Not checked		
}			
}			
}			

RRCConnectionReestablishment

Table 4.6.1-10: RRCConnectionReestablishment

Derivation Path: 36.331 clause 6.2.2			
Information Element	Value/remark	Comment	Condition
RRCConnectionReestablishment ::= SEQUENCE {			
rrc-TransactionIdentifier	RRC-		
	TransactionIdentifier-DL		
criticalExtensions CHOICE {			
c1 CHOICE{			
rrcConnectionReestablishment-r8 SEQUENCE {			
radioResourceConfigDedicated	RadioResourceConfigDe		
	dicated-SRB1		
nextHopChainingCount	0		
nonCriticalExtension SEQUENCE {}	Not present		
}			
}			
}			
}			

- RRCConnectionReestablishmentComplete

Table 4.6.1-11: RRCConnectionReestablishmentComplete

Derivation Path: 36.331 clause 6.2.2			
Information Element	Value/remark	Comment	Condition
RRCConnectionReestablishmentComplete ::= SEQUENCE {			
rrc-TransactionIdentifier	RRC- TransactionIdentifier-UL		
criticalExtensions CHOICE {			
rrcConnectionReestablishmentComplete-r8 SEQUENCE {			
nonCriticalExtension SEQUENCE {}	Not checked		
}			
}			
}			

RRCConnectionReestablishmentReject

Table 4.6.1-12: RRCConnectionReestablishmentReject

Derivation Path: 36.331 clause 6.2.2			
Information Element	Value/remark	Comment	Condition
RRCConnectionReestablishmentReject ::=			
SEQUENCE {			
criticalExtensions CHOICE {			
rrcConnectionReestablishmentReject-r8			
SEQUENCE {			
nonCriticalExtension SEQUENCE {}	Not present		
}			
}			
}			

RRCConnectionReestablishmentRequest

Table 4.6.1-13: RRCConnectionReestablishmentRequest

Derivation Path: 36.331 clause 6.2.2			
Information Element	Value/remark	Comment	Condition
RRCConnectionReestablishmentRequest ::=			
SEQUENCE {			
criticalExtensions CHOICE {			
rrcConnectionReestablishmentRequest-r8			
SEQUENCE {			
ue-Identity	Set according to specific		
	message content		
reestablishmentCause	Set according to specific		
	message content		
spare	Present but contents not		
	checked		
}			
}			
}			

RRCConnectionReject

Table 4.6.1-14: RRCConnectionReject

Derivation Path: 36.331 clause 6.2.2			
Information Element	Value/remark	Comment	Condition
RRCConnectionReject ::= SEQUENCE {			
criticalExtensions CHOICE {			
c1 CHOICE {			
rrcConnectionReject-r8 SEQUENCE {			
waitTime	3(seconds)		
nonCriticalExtension SEQUENCE {}	Not present		
}			
}			
}			
}			

RRCConnectionRelease

Table 4.6.1-15: RRCConnectionRelease

Derivation Path: 36.331 clause 6.2.2			
Information Element	Value/remark	Comment	Condition
RRCConnectionRelease ::= SEQUENCE {			
rrc-TransactionIdentifier	RRC-		
	TransactionIdentifier-DL		
criticalExtensions CHOICE {			
c1 CHOICE {			
rrcConnectionRelease-r8 SEQUENCE {			
releaseCause	other		
redirectedCarrierInfo	Not present		
idleModeMobilityControlInfo	Not present		
nonCriticalExtension SEQUENCE {}	Not present		
}			
}			
}			
}			

RRCConnectionRequest

Table 4.6.1-16: RRCConnectionRequest

Derivation Path: 36.331 clause 6.2.2			
Information Element	Value/remark	Comment	Condition
RRCConnectionRequest ::= SEQUENCE {			
criticalExtensions CHOICE {			
rrcConnectionRequest-r8 SEQUENCE {			
ue-Identity CHOICE {			
s-TMSI	Any allowed value		
}			
establishmentCause	Present but contents not checked		
spare	Present but contents not checked		
}			
}			
}			

RRCConnectionSetup

Table 4.6.1-17: RRCConnectionSetup

Derivation Path: 36.331 clause 6.2.2			
Information Element	Value/remark	Comment	Condition
RRCConnectionSetup ::= SEQUENCE {			
rrc-TransactionIdentifier	RRC-		
	TransactionIdentifier-DL		
criticalExtensions CHOICE {			
c1 CHOICE {			
rrcConnectionSetup-r8 SEQUENCE {			
radioResourceConfigDedicated	RadioResourceConfigDe dicated-SRB1		
nonCriticalExtension SEQUENCE {}	Not present		
}			
}			
}			
}			

RRCConnectionSetupComplete

Table 4.6.1-18: RRCConnectionSetupComplete

Derivation Path: 36.331 clause 6.2.2			
Information Element	Value/remark	Comment	Condition
RRCConnectionSetupComplete ::= SEQUENCE {			
rrc-TransactionIdentifier	RRC-		
	TransactionIdentifier-UL		
criticalExtensions CHOICE {			
c1 CHOICE {			
rrcConnectionSetupComplete-r8 SEQUENCE {			
selectedPLMN-Identity	1		
registeredMME	Not checked		
dedicatedInfoNAS	Present but contents not		
	checked		
nonCriticalExtension SEQUENCE {}	Not checked		
}			
}			
}			
}			

SecurityModeCommand

Table 4.6.1-19: SecurityModeCommand

Derivation Path: 36.331 clause 6.2.2			
Information Element	Value/remark	Comment	Condition
SecurityModeCommand ::= SEQUENCE {			
rrc-TransactionIdentifier	RRC-		
	TransactionIdentifier-DL		
criticalExtensions CHOICE {			
c1 CHOICE{			
securityModeCommand-r8 SEQUENCE {			
securityConfigSMC	SecurityConfigSMC-		
	DEFAULT		
nonCriticalExtension SEQUENCE {}	Not present		
}			
}			
}			
}			

SecurityModeComplete

Table 4.6.1-20: SecurityModeComplete

Derivation Path: 36.331 clause 6.2.2			
Information Element	Value/remark	Comment	Condition
SecurityModeComplete ::= SEQUENCE {			
rrc-TransactionIdentifier	RRC-		
	TransactionIdentifier-UL		
criticalExtensions CHOICE {			
securityModeComplete-r8 SEQUENCE {			
nonCriticalExtension SEQUENCE {}	Not checked		
}			
}			
}			

SecurityModeFailure

Table 4.6.1-21: SecurityModeFailure

Derivation Path: 36.331 clause 6.2.2			
Information Element	Value/remark	Comment	Condition
SecurityModeFailure ::= SEQUENCE {			
rrc-TransactionIdentifier	RRC-		
	TransactionIdentifier-UL		
criticalExtensions CHOICE {			
securityModeFailure-r8 SEQUENCE {			
nonCriticalExtension SEQUENCE {}	Not checked		
}			
}			
}			

UECapabilityEnquiry

Table 4.6.1-22: UECapabilityEnquiry

Derivation Path: 36.331 clause 6.2.2			
Information Element	Value/remark	Comment	Condition
UECapabilityEnquiry ::= SEQUENCE {			
rrc-TransactionIdentifier	RRC-		
	TransactionIdentifier-DL		
criticalExtensions CHOICE {			
c1 CHOICE {			
ueCapabilityEnquiry-r8 SEQUENCE {			
ue-CapabilityRequest	eutra		
nonCriticalExtension SEQUENCE {}	Not present		
}			
}			
}			
}			

UECapabilityInformation

Table 4.6.1-23: UECapabilityInformation

Derivation Path: 36.331 clause 6.2.2			
Information Element	Value/remark	Comment	Condition
UECapabilityInformation ::= SEQUENCE {			
rrc-TransactionIdentifier	RRC-		
	TransactionIdentifier-UL		
criticalExtensions CHOICE {			
c1 CHOICE{			
ueCapabilityInformation-r8 SEQUENCE {			

ue-CapabilityRAT-ContainerList SEQUENCE (SIZE (1maxRAT-Capabilities)) OF SEQUENCE {	1 entry	
rat-Type	Set according to specific message content	
ueCapabilityRAT-Container	mosage comone	
ue-EUTRA-Capability SEQUENCE {		
accessStratumRelease	Same as indicated in TC applicability of 36.523-2	
ue-Category	Not checked	
pdcp-Parameters SEQUENCE {		
supportedROHC-Profiles SEQUENCE {		
profile0x0001	Not checked	
profile0x0001	true	ROHC
profile0x0002	Not checked	
profile0x0002	true	ROHC
profile0x0003	Not checked	
profile0x0004	Not checked	
profile0x0006	Not checked	
profile0x0101	Not checked	
profile0x0102	Not checked	
profile0x0103	Not checked	
profile0x0104	Not checked	
}		
maxNumberROHC-ContextSessions	Not checked	
}		
phyLayerParameters	Not checked	
rf-Parameters	Not checked	
measParameters	Not checked	
featureGroupIndicators		
FGI 1	Not checked	
FGI 2	Not checked	
FGI 3	Not checked	
FGI 4	Not checked	
FGI 5	Not checked	
FGI 6	Not checked	
FGI 7	Not checked	
FGI 8	Not checked	
FGI 9	Not checked	
FGI 10	Not checked	
FGI 11 FGI 12	Not checked	
	Not checked Not checked	
FGI 13 FGI 14	Not checked	
FGI 14 FGI 15	Not checked	
FGI 15	Not checked	
FGI 16 FGI 17	Not checked	
FGI 18	Not checked	
FGI 18 FGI 19	Not checked	
FGI 20	Not checked	
FGI 21	Not checked	
FGI 22	Not checked	
FGI 23	Not checked	
FGI 24	Not checked	
FGI 25	Not checked	
FGI 26	Not checked	
FGI 27	Not checked	
FGI 28	Not checked	
FGI 29	Not checked	
FGI 30	Not checked	
FGI 31	Not checked	
FGI 32	'0'B (Undefined)	
interRAT-Parameters SEQUENCE {		
utraFDD	Not checked	
utraTDD128	Not checked	
utraTDD384	Not checked	

	T		
utraTDD768	Not checked		
geran	Not checked		
cdma2000-HRPD	Not checked		
cdma2000-1xRTT	Not checked		
cdma2000-1xRTT	Not checked		
}			
nonCriticalExtension SEQUENCE {			
phyLayerParameters-v920	Not checked		
interRAT-ParametersGERAN-v920	Not checked		
interRAT-ParametersUTRA-v920	Not checked		
interRAT-ParametersCDMA2000-v920	Not checked		
deviceType-r9	Not checked		
csg-ProximityIndicationParameters-r9	Not checked		
neighCellSI-AcquisitionParameters-r9	Not checked		
son-Parameters-r9 nonCriticalExtension SEQUENCE {	Not checked		
lateNonCriticalExtension SEQUENCE {			
featureGroupIndRel9Add-r9 FGI 33	Not checked		
FGI 33 FGI 34	Not checked		
FGI 34 FGI 35	Not checked		
FGI 35 FGI 36	Not checked		
FGI 30 FGI 37	Not checked		
FGI 37 FGI 38	Not checked		
FGI 39	Not checked		
FGI 39 FGI 40	Not checked		
FGI 40 FGI 41	Not checked		
FGI 41 FGI 42-64	'0'B (Undefined)		
fdd-Add-UE-EUTRA-Capabilities-r9	OB (Oridefilied)		
SEQUENCE {			
phyLayerParameters-r9	Not checked		
featureGroupIndicators-r9	140t Checked	BITSTRING 32	
FGI 1F	Not checked	BITOTIVITO 02	
FGI 2F	Not checked		
FGI 3F	Not checked		FDD = TDD
FGI 4F	Not checked		1.22 .22
FGI 5F	Not checked		FDD = TDD
FGI 6F	Not checked		FDD = TDD
FGI 7F	Not checked		FDD = TDD
FGI 8F	Not checked		
	Not checked		
FGI 9F	Not checked Not checked		
FGI 9F FGI 10F	Not checked		
FGI 9F FGI 10F FGI 11F	Not checked Not checked		FDD = TDD
FGI 9F FGI 10F FGI 11F FGI 12F	Not checked Not checked Not checked		FDD = TDD FDD = TDD
FGI 9F FGI 10F FGI 11F FGI 12F FGI 13F	Not checked Not checked Not checked Not checked		
FGI 9F FGI 10F FGI 11F FGI 12F FGI 13F FGI 14F	Not checked Not checked Not checked Not checked Not checked		
FGI 9F FGI 10F FGI 11F FGI 12F FGI 13F FGI 14F FGI 15F	Not checked Not checked Not checked Not checked Not checked Not checked		FDD = TDD
FGI 9F FGI 10F FGI 11F FGI 12F FGI 13F FGI 14F FGI 15F FGI 16F FGI 17F FGI 18F	Not checked		FDD = TDD FDD = TDD
FGI 9F FGI 10F FGI 11F FGI 12F FGI 13F FGI 14F FGI 15F FGI 16F FGI 17F FGI 18F FGI 19F	Not checked		FDD = TDD FDD = TDD FDD = TDD
FGI 9F FGI 10F FGI 11F FGI 12F FGI 13F FGI 14F FGI 15F FGI 16F FGI 17F FGI 18F FGI 20F	Not checked		FDD = TDD
FGI 9F FGI 10F FGI 11F FGI 12F FGI 13F FGI 14F FGI 15F FGI 16F FGI 17F FGI 18F FGI 20F FGI 21F	Not checked		FDD = TDD FDD = TDD FDD = TDD FDD = TDD
FGI 9F FGI 10F FGI 11F FGI 12F FGI 13F FGI 14F FGI 15F FGI 16F FGI 17F FGI 18F FGI 20F FGI 21F FGI 22F	Not checked		FDD = TDD
FGI 9F FGI 10F FGI 11F FGI 12F FGI 13F FGI 14F FGI 15F FGI 16F FGI 17F FGI 18F FGI 20F FGI 21F FGI 22F FGI 23F	Not checked		FDD = TDD
FGI 9F FGI 10F FGI 11F FGI 12F FGI 13F FGI 14F FGI 15F FGI 16F FGI 17F FGI 18F FGI 20F FGI 21F FGI 22F FGI 23F FGI 24F	Not checked		FDD = TDD
FGI 9F FGI 10F FGI 11F FGI 12F FGI 13F FGI 14F FGI 15F FGI 16F FGI 17F FGI 18F FGI 20F FGI 21F FGI 22F FGI 24F FGI 25F	Not checked		FDD = TDD
FGI 9F FGI 10F FGI 11F FGI 12F FGI 13F FGI 14F FGI 15F FGI 16F FGI 17F FGI 18F FGI 19F FGI 20F FGI 21F FGI 22F FGI 24F FGI 25F FGI 26F	Not checked		FDD = TDD
FGI 9F FGI 10F FGI 11F FGI 12F FGI 13F FGI 14F FGI 15F FGI 16F FGI 17F FGI 18F FGI 19F FGI 20F FGI 21F FGI 22F FGI 24F FGI 25F FGI 26F FGI 27F	Not checked		FDD = TDD
FGI 9F FGI 10F FGI 11F FGI 12F FGI 13F FGI 14F FGI 15F FGI 16F FGI 17F FGI 18F FGI 19F FGI 20F FGI 21F FGI 22F FGI 23F FGI 25F FGI 26F FGI 27F FGI 27F FGI 28F	Not checked		FDD = TDD
FGI 9F FGI 10F FGI 11F FGI 12F FGI 13F FGI 14F FGI 15F FGI 16F FGI 17F FGI 18F FGI 19F FGI 20F FGI 21F FGI 22F FGI 23F FGI 24F FGI 25F FGI 26F FGI 27F FGI 27F FGI 27F FGI 27F FGI 28F FGI 29F	Not checked		FDD = TDD FDD = TDD
FGI 9F FGI 10F FGI 11F FGI 12F FGI 13F FGI 14F FGI 15F FGI 16F FGI 17F FGI 18F FGI 19F FGI 20F FGI 21F FGI 22F FGI 23F FGI 24F FGI 25F FGI 26F FGI 27F FGI 28F FGI 29F FGI 29F FGI 29F FGI 29F FGI 29F FGI 30F	Not checked		FDD = TDD FDD = TDD
FGI 9F FGI 10F FGI 11F FGI 12F FGI 13F FGI 14F FGI 15F FGI 16F FGI 17F FGI 18F FGI 19F FGI 20F FGI 21F FGI 22F FGI 23F FGI 24F FGI 25F FGI 26F FGI 27F FGI 28F FGI 29F FGI 29F FGI 30F FGI 31F	Not checked		FDD = TDD FDD = TDD
FGI 9F FGI 10F FGI 11F FGI 12F FGI 13F FGI 14F FGI 15F FGI 16F FGI 17F FGI 18F FGI 19F FGI 20F FGI 21F FGI 22F FGI 23F FGI 24F FGI 25F FGI 26F FGI 27F FGI 28F FGI 29F FGI 29F FGI 29F FGI 29F FGI 29F FGI 30F	Not checked		FDD = TDD FDD = TDD

facture Creum la dD alo Add 40	T	DITCTDING 22	1
featureGroupIndRel9Add-r9		BITSTRING 32	
FGI 33F	Not checked		
FGI 34F	Not checked		
FGI 35F	Not checked		
FGI 36F	Not checked		
FGI 37F	Not checked		
FGI 38F	Not checked		
FGI 39F	Not checked		
FGI 40F	Not checked		
FGI 41F	Not checked		
FGI 42F-64F	'0'B (Undefined) if		
	present		
interRAT-ParametersGERAN-r9	Not checked		
interRAT-ParametersUTRA-r9	Not checked		
interRAT-ParametersGERAN-r9	Not checked		
interRAT-ParametersCDMA2000-r9	Not checked		
neighCellSI-AcquisitionParameters-r9	Not checked		
\	1101 Gridened		
tdd-Add-UE-EUTRA-Capabilities-r9			
SEQUENCE {			
phyLayerParameters-r9	Not checked		+
	INULUITEUREU	DITCTDING 00	-
featureGroupIndicators-r9	Net also street	BITSTRING 32	
FGI 1T	Not checked		
FGI 2T	Not checked		
FGI 3T	Not checked		FDD = TDD
FGI 4T	Not checked		
FGI 5T	Not checked		FDD = TDD
FGI 6T	Not checked		FDD = TDD
FGI 7T	Not checked		FDD = TDD
FGI 8T	Not checked		
FGI 9T	Not checked		
FGI 10T	Not checked		
FGI 11T	Not checked		
FGI 12T	Not checked		
FGI 13T	Not checked		FDD = TDD
FGI 14T	Not checked		FDD = TDD
FGI 15T	Not checked		
FGI 16T	Not checked		FDD = TDD
FGI 17T	Not checked		FDD = TDD
FGI 18T	Not checked		FDD = TDD
FGI 19T	Not checked		100 - 100
			EDD TDD
FGI 20T	Not checked		FDD = TDD FDD = TDD
FGI 21T	Not checked		דטט = דטט
FGI 22T	Not checked		
FGI 23T	Not checked		
FGI 24T	Not checked		
FGI 25T	Not checked		FDD = TDD
FGI 26T	Not checked		
FGI 27T	Not checked		
FGI 28T	Not checked		
FGI 29T	Not checked		
FGI 30T	Not checked		FDD = TDD
FGI 31T	Not checked		FDD = TDD
FGI 32T	'0'B (Undefined) if		
	present		
featureGroupIndRel9Add-r9		BITSTRING 32	
FGI 33T	Not checked		
FGI 34T	Not checked		
FGI 35T	Not checked		1
FGI 36T	Not checked		
FGI 301 FGI 37T	Not checked		+
FGI 371 FGI 38T	Not checked		+
			+
FGI 39T	Not checked		1
FGI 40T	Not checked		
FGI 41T	Not checked		

FGI 42T-64T	'0'B (Undefined) if		
	present		
interRAT-ParametersGERAN-r9	Not checked		
interRAT-ParametersUTRA-r9	Not checked		
interRAT-ParametersGERAN-r9	Not checked		
interRAT-ParametersCDMA2000-r9	Not checked		
neighCellSI-AcquisitionParameters-r9	Not checked		
}			
nonCriticalExtension SEQUENCE {	Not checked		
interRAT-ParametersUTRA-v9c0	Not checked		
nonCriticalExtension SEQUENCE {	Not checked		
,	Not checked		
phyLayerParameters-v9d0	Not checked		
nonCriticalExtension SEQUENCE {	N		
rf-Parameters-v9e0	Not checked		
nonCriticalExtension SEQUENCE {}	Not checked		
}			
}			
}			
}			
nonCriticalExtension SEQUENCE {			
ue-Category-v1020	Not checked		
phyLayerParameters-v1020	Not checked		
p.,,=a, a. a			
rf-Parameters-v1020	Not checked		
measParameters-v1020	Not checked		
featureGroupIndRel10-r10		BITSTRING 32	
'			
FGI 101	Not checked		
FGI 102	Not checked		
FGI 103	Not checked		
FGI 104	Not checked		
FGI 105	Not checked		
FGI 106	Not checked		
FGI 107	Not checked		
FGI 108	Not checked		
FGI 109	Not checked		
FGI 110	Not checked		
FGI 111	Not checked		
FGI 112	Not checked		
FGI 113	Not checked		
FGI 114	Not checked		
FGI 115	Not checked		
FGI 116	Not checked		
FGI 117-132	'0'B (Undefined) if		
	present		
interRAT-ParametersCDMA2000-v1020	Not checked		
ue-BasedNetwPerfMeasParameters-r10	Not checked		
interRAT-ParametersUTRA-TDD-v1020	Not checked		
nonCriticalExtension SEQUENCE {	Not checked		
fdd-Add-UE-EUTRA-Capabilities-v1060	Not checked		
tdd-Add-UE-EUTRA-Capabilities-v1060	Not checked		+
rf-Parameters-v1060	Not checked		
nonCriticalExtension SEQUENCE {	1		
rf-Parameters-v1090	Not checked		
nonCriticalExtension SEQUENCE {			
pdcp-Parameters-v1130	Not checked		
phyLayerParameters-v1130	Not checked		
rf-Parameters-v1130	Not checked		
measParameters-v1130	Not checked		
interRAT-ParametersCDMA2000-	Not checked		
v1130			
otherParameters-r11	Not checked		
fdd-Add-UE-EUTRA-Capabilities-	Not checked		
rida de ed rivit dapabilitios		1	1

	T	
v1130	Niet els selse d	
tdd-Add-UE-EUTRA-Capabilities-	Not checked	
v1130	Niet els estre d	
nonCriticalExtension SEQUENCE {	Not checked	
phyLayerParameters-v1170	Not checked	
ue-Category-v1170	Not checked	
nonCriticalExtension SEQUENCE {		
rf-Parameters-v1180	Not checked	
mbms-Parameters-r11	Not checked	
fdd-Add-UE-EUTRA-Capabilities-	Not checked	
v1180		
tdd-Add-UE-EUTRA-Capabilities-	Not checked	
v1180		
nonCriticalExtension SEQUENCE {		
ue-Category-v11a0	Not checked	
measParameters-v11a0	Not checked	
nonCriticalExtension SEQUENCE {		
phyLayerParameters-v1250	Not checked	
rf-Parameters-v1250	Not checked	
rlc-Parameters-r12	Not checked	
ue-	Not checked	
BasedNetwPerfMeasParameters-v1250		
ue-Category-v1250	Not checked	
wlan-IW-Parameters-r12	Not checked	
measParameters-v1250	Not checked	
dc-Parameters-r12	Not checked	
mbms-Parameters-v1250	Not checked	
mac-Parameters-r12	Not checked	
fdd-Add-UE-EUTRA-Capabilities-	Not checked	
v1250		
tdd-Add-UE-EUTRA-Capabilities-	Not checked	
v1250		
sl-Parameters-r12	Not checked	
nonCriticalExtension SEQUENCE {}		
}		
}		
}		
}		
}		
}		
}		
}		
}		
}		
}		
}		
nonCriticalExtension SEQUENCE {}	Not checked	
	1401 OHEONEG	
}		
) l		
}		

Condition	Explanation
ROHC	Support of ROHC profile0x0001 and ROHC profile0x0002 (TS 36.523-2 table A.4.4-1/40 and A.4.4-1/41).
FDD = TDD	UE is not allowed to signal different values for FDD and TDD, is not checked per default

UEInformationRequest

Table 4.6.1-23A: UEInformationRequest

Derivation Path: 36.331 clause 6.2.2			
Information Element	Value/remark	Comment	Condition
UEInformationRequest-r9 ::= SEQUENCE {			
rrc-TransactionIdentifier	RRC-		
	TransactionIdentifier-DL		
criticalExtensions CHOICE {			
c1 CHOICE{			
ueInformationRequest-r9 SEQUENCE {			
rach-ReportReq-r9	FALSE		
rlf-ReportReq-r9	FALSE		
	TRUE		RLF report
nonCriticalExtension SEQUENCE {			
lateNonCriticalExtension	Not present		
nonCriticalExtension SEQUENCE {}	Not present		
nonCriticalExtension SEQUENCE {			Logged
			MDT, ConEstFail
logMeasReportReq-r10	true		Logged MDT
	Not present		
nonCriticalExtension SEQUENCE {}	Not present		
nonCriticalExtension SEQUENCE {			
connEstFailReportReq-r11	true		ConEstFail
	Not present		
nonCriticalExtension SEQUENCE {}	Not present		
}			
}			
}			
}			
}			
}			
}			

Condition	Explanation
Logged MDT	Used for Logged MDT test cases
ConEstFail	Used for RRC connection establishment failure report related test cases
RLF report	Used for Radio Link Failure Logging test cases

- UEInformationResponse

Table 4.6.1-23B: UEInformationResponse

Derivation Path: 36.331 clause 6.2.2			
Information Element	Value/remark	Comment	Condition
UEInformationResponse-r9 ::= SEQUENCE {			
rrc-TransactionIdentifier	RRC-		
	TransactionIdentifier-UL		
criticalExtensions CHOICE {			
c1 CHOICE{			
ueInformationResponse-r9 SEQUENCE {			
rach-Report-r9 SEQUENCE {}	Not checked		
rlf-Report-r9 SEQUENCE {}	Not checked		
nonCriticalExtension SEQUENCE {			
lateNonCriticalExtension	Not checked		
nonCriticalExtension SEQUENCE {			
logMeasReport-r10 SEQUENCE {}	Not checked		
nonCriticalExtension SEQUENCE {	Not checked		
}			
}			
}			
}			
}			
}			

ULHandoverPreparationTransfer

Table 4.6.1-24: *ULHandoverPreparationTransfer*

Derivation Path: 36.331 clause 6.2.2			_
Information Element	Value/remark	Comment	Condition
ULHandoverPreparationTransfer ::= SEQUENCE {			
criticalExtensions CHOICE {			
c1 CHOICE {			
ulHandoverPreparationTransfer-r8 SEQUENCE {			
cdma2000-Type	type1XRTT		
meid	Set to the 56 bit CDMA2000 mobile identification number of the UE		
dedicatedInfo	Set according to specific message content		
nonCriticalExtension SEQUENCE {}	Not checked		
}			
}			
}			
}			

ULInformationTransfer

Table 4.6.1-25: ULInformationTransfer

Derivation Path: 36.331 clause 6.2.2			
Information Element	Value/remark	Comment	Condition
ULInformationTransfer ::= SEQUENCE {			
criticalExtensions CHOICE {			
c1 CHOICE {			
ulInformationTransfer-r8 SEQUENCE {			
dedicatedInfoType CHOICE {			
dedicatedInfoNAS	Present but contents not checked		
}			
nonCriticalExtension SEQUENCE {}	Not checked		
}			
}			
}			
}			

UEAssistanceInformation

Table 4.6.1-26: UEAssistanceInformation

Derivation Path: 36.331, Clause 6.2.2			
Information Element	Value/remark	Comment	Condition
UEAssistanceInformation-r11 ::= SEQUENCE {			
criticalExtensions CHOICE {			
c1 CHOICE{			
UEAssistanceInformation-r11-IEs SEQUENCE {			
powerPreferenceIndication-r11	IowPowerConsumption		Low_Powe
			r
powerPreferenceIndication-r11	normal		Normal
laterNonCriticalExtension	Not Present		
nonCriticalExtension SEQUENCE {}	Not Present		
}			
}			
}			
}			

Condition	Explanation
Low_Power	The UE indicates that it prefers a configuration primarily optimised for power saving
Normal	The UE indicates that it does not prefer a configuration primarily optimised for power saving

4.6.2 System information blocks

See subclause 4.4.3.3 in this document.

4.6.3 Radio resource control information elements

Table 4.6.3-0A: Void

Table 4.6.3-0B: Void

BCCH-Config-DEFAULT

Table 4.6.3-1: BCCH-Config-DEFAULT

Information Element	Value/remark	Comment	Condition
BCCH-Config-DEFAULT::= SEQUENCE {			
modificationPeriodCoeff	n4	To provide reliable delivery of SI change notifications.	

CQI-ReportAperiodic-r10-DEFAULT

Table 4.6.3-1A: CQI-ReportAperiodic-r10-DEFAULT

Derivation Path: 36.331 clause 6.3.2			
Information Element	Value/remark	Comment	Condition
CQI-ReportAperiodic-r10 ::=CHOICE {			
setup SEQUENCE {			
cqi-ReportModeAperiodic-r10	rm30		
aperiodicCSI-Trigger-r10	Not present		
}			
}			

CQI-ReportConfig-DEFAULT

Table 4.6.3-2: CQI-ReportConfig-DEFAULT

Derivation Path: 36.331 clause 6.3.2			
Information Element	Value/remark	Comment	Condition
CQI-ReportConfig-DEFAULT ::= SEQUENCE {			
cqi-ReportModeAperiodic	rm30		
nomPDSCH-RS-EPRE-Offset	0		
cqi-ReportPeriodic	Not present		
cqi-ReportPeriodic CHOICE {			CQI_PERIO DIC
setup SEQUENCE {			
cqi-PUCCH-ResourceIndex	0		
cqi-pmi-ConfigIndex	25	(see Table 7.2.2- 1A in TS 36.213)	FDD
	24	(see Table 7.2.2- 1C in TS 36.213)	TDD
cqi-FormatIndicatorPeriodic CHOICE {			
widebandCQI	NULL		
}			
ri-ConfigIndex	483	(see Table 7.2.2- 1B in TS 36.213)	FDD
	484	(see Table 7.2.2- 1B in TS 36.213) This value for TDD is selected together with cqi- pmi-ConfigIndex based on TDD configuration 1.	TDD
simultaneousAckNackAndCQI	FALSE		
}			
}			
}			

Condition	Explanation
CQI_PERIODIC	When periodic CQI reporting should be enabled
FDD	FDD cell environment
TDD	TDD cell environment

CQI-ReportConfig-r10-DEFAULT

Table 4.6.3-2AA: CQI-ReportConfig-r10-DEFAULT

Derivation Path: 36.331 clause 6.3.2			
Information Element	Value/remark	Comment	Condition
CQI-ReportConfig-r10 ::= SEQUENCE {			
cqi-ReportAperiodic-r10	CQI-ReportAperiodic-r10- DEFAULT		
nomPDSCH-RS-EPRE-Offset	0		
cqi-ReportPeriodic-r10	Not present		
	CQI-ReportPeriodic-r10- DEFAULT		CQI_PERI ODIC
pmi-RI-Report-r9	Not present		
csi-SubframePatternConfig-r10	Not present		

Condition	Explanation
CQI PERIODIC	When periodic CQI reporting should be enabled

CQI-ReportConfig-v1130-DEFAULT

Table 4.6.3-2ABA: CQI-ReportConfig-v1130-DEFAULT

Derivation Path: 36.331 clause 6.3.2			
Information Element	Value/remark	Comment	Condition
CQI-ReportConfig-v1130 ::= SEQUENCE {			
cqi-ReportPeriodic-v1130 SEQUENCE {			
simultaneousAckNackAndCQI-Format3-r11	Not present		
cqi-ReportPeriodicProcExtToReleaseList-r11	Not present		
cqi-ReportPeriodicProcExtToAddModList-r11	1 entry		
SEQUENCE (SIZE (1maxCQI-ProcExt-r11)) OF			
SEQUENCE {			
cqi-ReportPeriodicProcExtId-r11[1] SEQUENCE {			
cqi-ReportPeriodicProcExtId-r11	1		
cqi-pmi-ConfigIndex-r11	Not present		
cqi-FormatIndicatorPeriodic-r11 CHOICE {			
widebandCQI-r11 SEQUENCE {			
csi-ReportMode-r11	Not present		
}			
subbandCQI-r11 SEQUENCE {			
k	Not present		
periodicityFactor-r11	Not present		
}			
}			
ri-ConfigIndex-r11	Not present		1
csi-ConfigIndex-r11 CHOICE {			
release	NULL		1
setup SEQUENCE {			
cqi-pmi-ConfigIndex2-r11	Not present		
ri-ConfigIndex2-r11	Not present		
}			
}			
}			
}			
}			
cqi-ReportBoth-r11 SEQUENCE {	N		
csi-IM-ConfigToReleaseList-r11	Not present		
csi-IM-ConfigToAddModList-r11 SEQUENCE (SIZE (1maxCSI-IM-r11)) OF SEQUENCE {	1 entry		
csi-IM-Configld-r11[1]	1		
resourceConfig-r11[1]	2		FDD
resourceConng-rrr[r]	2		TDD
subframeConfig-r11[1]	1		FDD
Subtraine Config-11 [[1]	3		TDD
1			100
csi-ProcessToReleaseList-r11	Not present		
csi-ProcessToAddModList-r11SEQUENCE (SIZE	1 entry		
(1maxCSI-Proc-r11)) OF SEQUENCE {	Torrary		
csi-ProcessId-r11[1]	1		
csi-RS-ConfigNZPId-r11[1]	1		
csi-IM-Configld-r11[1]	1		
p-C-AndCBSRList-r11[1] SEQUENCE (SIZE	1 entry		
(12)) OF SEQUENCE {			
p-C-r11[1]	-6		
codebookSubsetRestriction-r11[1]	1111111		
}			
cqi-ReportBothProc-r11[1] SEQUENCE {			
ri-Ref-CSI-ProcessId-r11	1		
pmi-RI-Report-r11	Not present		
}			
cqi-ReportPeriodicProcId-r11[1]	1		
cqi-ReportAperiodicProc-r11[1] SEQUENCE {			
cqi-ReportModeAperiodic-r11			
	Not present		
trigger10-r11 trigger10-r11	Not present Not present Not present		

trigger11-r11	Not present	
}		
}		
}		
}		

Condition	Explanation
FDD	FDD cell environment
TDD	TDD cell environment

CQI-ReportConfigSCell-r10-DEFAULT

Table 4.6.3-2AB: CQI-ReportConfigSCell-r10-DEFAULT

Derivation Path: 36.331 clause 6.3.2			
Information Element	Value/remark	Comment	Condition
CQI-ReportConfigSCell-r10 ::= SEQUENCE {			
cqi-ReportModeAperiodic-r10	rm30		
nomPDSCH-RS-EPRE-Offset-r10	0		
cqi-ReportPeriodicSCell-r10	Not present		
	CQI-ReportPeriodic-r10-		CQI_PERI
	DEFAULT		ODIC
pmi-RI-Report-r10	Not present		
}			

Condition	Explanation	
CQI_PERIODIC	When periodic CQI reporting should be enabled	

CQI-ReportPeriodic-r10-DEFAULT

Table 4.6.3-2AC: CQI-ReportPeriodic-r10-DEFAULT

Derivation Path: 36.331 clause 6.3.2 Information Element	Value/remark	Comment	Condition
	value/remark	Comment	Condition
CQI-ReportPeriodic-r10 ::= CHOICE {			
setup SEQUENCE {			
cqi-PUCCH-ResourceIndex-r10	0		
cqi-PUCCH-ResourceIndexP1-r10	Not present		
cqi-pmi-ConfigIndex	25		FDD
	24		TDD
cqi-FormatIndicatorPeriodic-r10 CHOICE {			
widebandCQI-r10 SEQUENCE {			
csi-ReportMode-r10	Not present		
}			
}			
ri-ConfigIndex	Not present		SCell_Conf
· ·	·		ig
	483		FDD and
			NOT
			SCell_Conf
			ig
	484		TDD and
			NOT
			SCell_Conf
			ig
simultaneousAckNackAndCQI	FALSE		
cqi-Mask-r9	Not present		
csi-ConfigIndex-r10	Not present		
}	·		
}			

Condition	Explanation
FDD	FDD cell environment
TDD	TDD cell environment
SCell_Config	CQI-ReportPeriodic configuration for SCell.

Table 4.6.3-2AD: Void

Table 4.6.3-2AE: Void

CSI-RS-ConfigNZP-r11-DEFAULT

Table 4.6.3-2AF: CSI-RS-ConfigNZP-r11-DEFAULT

Derivation Path: 36.331 clause 6.3.2			
Information Element	Value/remark	Comment	Condition
CSI-RS-ConfigNZP-r11 ::= SEQUENCE {			
csi-RS-ConfigNZPId-r11	1		
antennaPortsCount-r11	an2		
resourceConfig-r11	0		FDD
	0		TDD
subframeConfig-r11	1		FDD
	3		TDD
scramblingIdentity-r11	0		
qcl-CRS-Info-r11 SEQUENCE {			
qcl-ScramblingIdentity-r11	0		
crs-PortsCount-r11	n2		
mbsfn-SubframeConfigList-r11 CHOICE {			
release	NULL		
setup SEQUENCE {			
subframeConfigList	Not present		
}			
}			
}			
}			

Condition	Explanation
FDD	FDD cell environment
TDD	TDD cell environment

CSI-RS-ConfigZP-r11-DEFAULT

Table 4.6.3-2AG: CSI-RS-ConfigZP-r11-DEFAULT

Derivation Path: 36.331 clause 6.3.2			
Information Element	Value/remark	Comment	Condition
CSI-RS-ConfigZP-r11 ::= SEQUENCE {			
csi-RS-ConfigZPId-r11	1		
resourceConfigList-r11	001000000000000		
subframeConfig-r11	1		FDD
	3		TDD
}			

Condition	Explanation
FDD	FDD cell environment
TDD	TDD cell environment

DMRS-Config-r11-DEFAULT

Table 4.6.3-2AH: DMRS-Config-r11-DEFAULT

Derivation Path: 36.331 clause 6.3.2				
Information Element	Value/remark	Comment	Condition	
DMRS-Config-r11 ::= CHOICE {				
release	NULL			
setup SEQUENCE {				
scramblingIdentity-r11	0			
scramblingIdentity2-r11	1			
}				
}				

DRB-ToAddModList-RECONFIG

Table 4.6.3-2A: DRB-ToAddModList-RECONFIG

Derivation Path: 36.331 clause 6.3.2			
Information Element	Value/remark	Comment	Condition
DRB-ToAddModList ::= SEQUENCE (SIZE	2 Entries		
(1maxDRB)) OF SEQUENCE {			
eps-BearerIdentity[1]	Not present		
drb-Identity[1]	1		
pdcp-Config[1]	Not present		
rlc-Config[1]	RLC-Config-DRB-AM-		
2	RECONFIG		
logicalChannelIdentity[1]	Not present		
logicalChannelConfig[1]	Not present		
eps-BearerIdentity[2]	Not present		
drb-Identity[2]	2		
pdcp-Config[2]	Not present		
rlc-Config[2]	RLC-Config-DRB-AM-		
	RECONFIG		
logicalChannelIdentity[2]	Not present		
logicalChannelConfig[2]	Not present		
}			

EPDCCH-Config-r11-DEFAULT

Table 4.6.3-2B: EPDCCH-Config-r11-DEFAULT

Derivation Path: 36.331 clause 6.3.2 Information Element	Value/remark	Comment	Condition
EPDCCH-Config-r11 ::= SEQUENCE{	value/remark	Comment	Condition
config-r11{	+		
setup SEQUENCE {			
subframePatternConfig-r11{			
setup SEQUENCE {			
subframePattern-r11 CHOICE {			
subframePatternFDD-r10	000000000000000000000000000000000000000		FDD
	1111111110 1111111101 1111111011 1111110111		FDD, TM9
subframePatternTDD-r10{	1111111011 1111110111		TDD
subframeConfig1-5-r10	000000000000000000000000000000000000000		100
Subtrattle Config 1-3-110	1100111001 1100111001		TM9
}	11001110011100111001		11010
}			
}			
}	1		
startSymbol-r11	Not present		
•	2		TM9
setConfigToReleaseList-r11	Not present		
setConfigToAddModList-r11 SEQUENCE {	2 entry		
setConfigld-r11[1]	0		
transmissionType-r11[1]	distributed		
	localized		TM10
resourceBlockAssignment-r11[1] SEQUENCE{			
numberPRB-Pairs-r11	n4		
	n2		TM9
	n8		TM10
resourceBlockAssignment-r11	101001000101101110		
	10010011000		TM9
	11100100101110110011 001101100		TM10
}			
dmrs-ScramblingSequenceInt-r11[1]	0		
pucch-ResourceStartOffset-r11[1]	O Not many and		
re-MappingQCL-ConfigListId-r11[1]	Not present		TMAC
antConfined #44[0]	0		TM10
setConfigld-r11[2]	1		
transmissionType-r11[2]	distributed localized		TM9, TM10
resourceBlockAssignment-r11[2] SEQUENCE{	iocanzeu		TIVIS, TIVITO
numberPRB-Pairs-r11	n8		
resourceBlockAssignment-r11	11100100101110110011		
resourceDiockAssignmenter i	001101100		
desire Coverabling Coverage and 44 (0)			
dmrs-ScramblingSequenceInt-r11[2]	0		
pucch-ResourceStartOffset-r11[2]	0 Not present		
re-MappingQCL-ConfigListId-r11[2]	Not present 0		TM10
}			
}	+		
}	+		
}			

Condition	Explanation
FDD	FDD cell environment
TDD	TDD cell environment
TM9	Transmission mode 9
TM10	Transmission mode 10

PCCH-Config-DEFAULT

Table 4.6.3-3: PCCH-Config-DEFAULT

Derivation Path: 36.331 clause 6.3.2			
Information Element	Value/remark	Comment	Condition
PCCH-Config-DEFAULT::= SEQUENCE {			
defaultPagingCycle	rf128	Typical value in	
		real network.	
nB	oneT		
}			

PHICH-Config-DEFAULT

Table 4.6.3-4: PHICH-Config-DEFAULT

Derivation Path: 36.331 clause 6.3.2				
Value/remark	Comment	Condition		
normal				
one	Ng=1 has been selected to ensure enough PHICH resources from the real network point of view.			
	normal	normal one Ng=1 has been selected to ensure enough PHICH resources from the real network		

PDSCH-ConfigCommon-DEFAULT

Table 4.6.3-5: PDSCH-ConfigCommon-DEFAULT

Derivation Path: 36.331 clause 6.3.2			
Information Element	Value/remark	Comment	Condition
PDSCH-ConfigCommon-DEFAULT ::= SEQUENCE {			
referenceSignalPower	18 (dBm)		
p-b	$0\left(\rho_{B}/\rho_{A}=1\right)$		1TX
	$1 \left(\rho_B / \rho_A = 1 \right)$		2TX, 4TX
}			

Condition	Explanation	
1TX	1 SS Tx antenna environment	
2TX	2 SS Tx antenna environment	
4TX	4 SS Tx antenna environment	

PDSCH-ConfigDedicated-DEFAULT

Table 4.6.3-6: PDSCH-ConfigDedicated-DEFAULT

Derivation Path: 36.331 clause 6.3.2			
Information Element	Value/remark	Comment	Condition
PDSCH-ConfigDedicated-DEFAULT ::= SEQUENCE			
[{			
p-a	dB-3 for signalling test cases; dB0 for others	dB-3 for signalling test cases to reduce interference from PDSCH of intrafrequency neighbour cells	1TX
	dB-3		2TX, 4TX
}			

PDSCH-ConfigDedicated-v1130-DEFAULT

Table 4.6.3-6AA: PDSCH-ConfigDedicated-v1130-DEFAULT

Derivation Path: 36.331 clause 6.3.2			
Information Element	Value/remark	Comment	Condition
PDSCH-ConfigDedicated-v1130 ::= SEQUENCE {			
dmrs-ConfigPDSCH-r11	DMRS-Config-r11- DEFAULT		
qcl-Operation	typeB		
re-MappingQCLConfigToReleaseList-r11	Not present		
re-MappingQCLConfigToAddModList-r11 SEQUENCE (SIZE (1maxRE-MapQCL-r11)) OF SEQUENCE {	1 entry		
pdsch-RE-MappingQCL-ConfigId-r11[1]	1		
	0		TM10
optionalSetOfFields-r11[1] SEQUENCE {			
crs-PortsCount-r11	Not present		
crs-FreqShift-r11	Not present		
mbsfn-SubframeConfigList-r11{			
setup SEQUENCE {			
subframeConfigList	Not present		
}			
}			
pdsch-Start-r11	Not present		
	2		[TM10
}			
csi-RS-ConfigZPId-r11[1]	1		
qcl-CSI-RS-ConfigNZPId-r11[1]	1		
}			
}			

Condition	Explanation
TM10	Transmission mode 10

PhysicalConfigDedicatedSCell-r10-DEFAULT

Table 4.6.3-6A: PhysicalConfigDedicatedSCell-r10-DEFAULT

Derivation Path: 36.331 clause 6.3.2			
Information Element	Value/remark	Comment	Condition
PhysicalConfigDedicatedSCell-r10-DEFAULT ::=			
SEQUENCE {			
nonUL-Configuration-r10 SEQUENCE {			
antennaInfo-r10 SEQUENCE {			
transmissionMode-r10	tm1		1TX
	tm2		2TX
codebookSubsetRestriction-r10	Not present		
ue-TransmitAntennaSelection	release		
}			
crossCarrierSchedulingConfig-r10	Not present		
csi-RS-Config-r10	Not present		
pdsch-ConfigDedicated-r10	PDSCH-		
	ConfigDedicated-		
	DEFAULT		
}			
ul-Configuration-r10	Not present		
ul-Configuration-r10 SEQUENCE {			UL CA
antennaInfoUL-r10	Not present		
pusch-ConfigDedicatedSCell-r10	Not present		
uplinkPowerControlDedicatedSCell-r10	UplinkPowerControlDedic		
	atedSCell-r10-DEFAULT		
cqi-ReportConfigSCell-r10	CQI-ReportConfigSCell-		
	r10-DEFAULT		
soundingRS-UL-ConfigDedicated-r10	Not present		
soundingRS-UL-ConfigDedicated-v1020	Not present		
soundingRS-UL-ConfigDedicatedAperiodic-r10	Not present		
}			
[}			

Condition	Explanation
UL CA	When UL Carrier Aggregation is used.
1TX	1 SS Tx antenna environment
2TX	2 SS Tx antenna environment

PRACH-Config-DEFAULT

Table 4.6.3-7: PRACH-Config-DEFAULT

Information Element	Value/remark	Comment	Condition
PRACH-Config-DEFAULT ::= SEQUENCE {			
rootSequenceIndex	See clause 4.4.2, Table 4.4.2-1A and clause 6.3.2.2 Table 6.3.2.2-2	See table 5.7.2-4 in TS 36.211for PRACH format 0- 3	FDD
	See clause 4.4.2, Table 4.4.2-1A and clause 6.3.2.2 Table 6.3.2.2-2	See table 5.7.2-5 in TS 36.211 for PRACH format 4	TDD
prach-ConfigInfo SEQUENCE {			
prach-ConfigIndex	3	Typical value in real network for FDD (see table 5.7.1-1 and 5.7.1- 2 in TS 36.211)	FDD
	51	Typical value in real network for TDD (see table 5.7.1-3 and 5.7.1- 4 in TS 36.211)	TDD
highSpeedFlag	FALSE (Unrestricted set)	High speed train configuration doesn't apply by default.	
zeroCorrelationZoneConfig	5 (N _{cs} configuration = 5)	Assuming cell radius is up to approximately 3 km.	FDD
	4 (N _{cs} configuration = 4)	Assuming cell radius is up to approximately 1 km.	TDD
prach-FreqOffset	See subclause 4.6.8	Channel- bandwidth- dependent parameter	

Note: Although PRACH format 0-3 is applicable for both FDD and TDD, the PRACH format 4 is used as default for testing for TDD.

Condition	Explanation
FDD	FDD cell environment
TDD	TDD cell environment

PRACH-ConfigSIB-DEFAULT

Table 4.6.3-7a: PRACH-ConfigSIB-DEFAULT

Derivation Path: 36.508 clause 4.6.3 Table 4.6.3-7 PRACH-Config-DEFAULT

PUCCH-ConfigCommon-DEFAULT

Table 4.6.3-8: PUCCH-ConfigCommon-DEFAULT

Derivation Path: 36.331 clause 6.3.2			
Information Element	Value/remark	Comment	Condition
PUCCH-ConfigCommon-DEFAULT ::= SEQUENCE {			
deltaPUCCH-Shift	ds2	Assuming typical values of the maximum delay spread	
nRB-CQI	See subclause 4.6.8	Channel- bandwidth- dependent parameter	
nCS-AN	6		
n1PUCCH-AN	0		
}			

PUCCH-ConfigDedicated-DEFAULT

Table 4.6.3-9: PUCCH-ConfigDedicated-DEFAULT

Derivation Path: 36.331 clause 6.3.2			
Information Element	Value/remark	Comment	Condition
PUCCH-ConfigDedicated-DEFAULT ::= SEQUENCE			
{			
ackNackRepetition CHOICE {			
release	NULL		
}			
tddAckNackFeedbackMode	Not present		FDD
	multiplexing	Multiplexing is selected as default to align with RAN4's assumptions in RF tests.	TDD
}			

Condition	Explanation
FDD	FDD cell environment
TDD	TDD cell environment

PUCCH-ConfigDedicated-v1020-DEFAULT

Table 4.6.3-9A: PUCCH-ConfigDedicated-v1020-DEFAULT

Value/remark	0 1	
Talagi on all	Comment	Condition
		Single SCC
1		FDD
4		
101		
102		
103		
104		
2		2TX AND FDD, TDD
4		
101		
102		
104		
4		
105		
106		
107		
108		
		2 SCCs or more
		111010
4		
101		
Not present		
110t prosont		
_		
Not present		
140t prodefit		
	4 101 102 103 104 2 2 4 101 102 103 104 4 105 106	4

Condition	Explanation
Single SCC	Addition or modification of single SCell
2 SCCs or more	Addition or modification of SCells

PUCCH-ConfigDedicated-v1130-DEFAULT

Table 4.6.3-9AA: PUCCH-ConfigDedicated-v1130-DEFAULT

Derivation Path: 36.331 clause 6.3.2				
Information Element	Value/remark	Comment	Condition	
PUCCH-ConfigDedicated-v1130-DEFAULT ::=				
SEQUENCE {				
n1PUCCH-AN-CS-v1130 CHOICE {				
release	NULL			
setup SEQUENCE {	2 entries			
n1PUCCH-AN-CS-ListP1-r11[1]	FFS			
n1PUCCH-AN-CS-ListP1-r11[2]	FFS			
}				
}				
nPUCCH-Param-r11 CHOICE {				
release	NULL			
setup SEQUENCE {				
nPUCCH-Identity-r11	FFS			
n1PUCCH-AN-r11	FFS			
}				
}				
}				

PUSCH-ConfigCommon-DEFAULT

Table 4.6.3-10: PUSCH-ConfigCommon-DEFAULT

Derivation Path: 36.331 clause 6.3.2			
Information Element	Value/remark	Comment	Condition
PUSCH-ConfigCommon-DEFAULT ::= SEQUENCE {			
pusch-ConfigBasic SEQUENCE {			
n-SB	1	Typical configuration in real network	
hoppingMode	interSubFrame	Typical configuration in real network	
pusch-HoppingOffset	See subclause 4.6.8	Channel- bandwidth- dependent parameter	
enable64QAM	FALSE		
}			
ul-ReferenceSignalsPUSCH SEQUENCE {			
groupHoppingEnabled	TRUE	In accordance with "the RAN5 LTE UE Feature list".	
groupAssignmentPUSCH	0	Typical value in real network	
sequenceHoppingEnabled	FALSE	In accordance with "the RAN5 LTE UE Feature list".	
cyclicShift	0		
}			
}			

PUSCH-ConfigDedicated-DEFAULT

Table 4.6.3-11: PUSCH-ConfigDedicated-DEFAULT

Value/remark	Comment	Condition
9		
6		
6		
	9 6	Value/remark Comment 9 6 6

Table 4.6.3-11A: Void

PUSCH-ConfigDedicated-v1130-DEFAULT

Table 4.6.3-11AA: PUSCH-ConfigDedicated-v1130-DEFAULT

Information Element	Value/remark	Comment	Condition
PUSCH-ConfigDedicated-v1130-DEFAULT ::=			
SEQUENCE {			
pusch-DMRS-r11 CHOICE {			
release	NULL		
setup SEQUENCE {			
nPUSCH-Identity-r11	FFS		
nDMRS-CSH-Identity-r11	FFS		
}			
}			
}			

RACH-ConfigCommon-DEFAULT

Table 4.6.3-12: RACH-ConfigCommon-DEFAULT

Derivation Path: 36.331 clause 6.3.2			
Information Element	Value/remark	Comment	Condition
RACH-ConfigCommon-DEFAULT ::= SEQUENCE {			
preambleInfo SEQUENCE {			
numberOfRA-Preambles	n52	Assuming the number of dedicated preambles is 12.	
preamblesGroupAConfig SEQUENCE {}	Not present		
}			
powerRampingParameters SEQUENCE {			
powerRampingStep	dB2		
preambleInitialReceivedTargetPower	dBm-104 (default)	Thermal noise = - 113 dBm NF = 5 dB IoT = 6 dB Required SNR = - 8 dB (See table 8.4.2-1 in TS 36.104 [30]) -> -110 dB (default value is acceptable)	
}			
ra-SupervisionInfo SEQUENCE {			
ra-ResponseWindowSize mac-ContentionResolutionTimer	sf10 sf48	Under the condition of Case 1 in RAN1 simulation assumptions, an UE with pathloss of CDF = 90% reaches the maximum transmit power in 4 successive retransmissions. 6 has been selected considering the margin of 2. The maximum value is preferable. Allows for a sufficient number of msg3	
		retransmissions.	
}			
maxHARQ-Msg3Tx	4	Under the condition of Target SIR = 2 dB, the probability of 2 transmissions is less than 1%. 4 has been selected considering the margin of 2.	

Rach-ConfigDedicated-DEFAULT

Table 4.6.3-12A: Rach-ConfigDedicated-DEFAULT

Derivation Path: 36.331 clause 6.3.2			
Information Element	Value/remark	Comment	Condition
Rach-ConfigDedicated-DEFAULT ::= SEQUENCE {			
ra-PreambleIndex	52		
ra-PRACH-MaskIndex	0		
}			

RadioResourceConfigCommon-DEFAULT

Table 4.6.3-13: RadioResourceConfigCommon-DEFAULT

Information Element	Value/remark	Comment	Condition
RadioResourceConfigCommon-DEFAULT ::= SEQUENCE {			
rach-ConfigCommon	RACH-ConfigCommon- DEFAULT		
prach-Config	PRACH-Config- DEFAULT		
pdsch-ConfigCommon	Not present		
	PDSCH-ConfigCommon- DEFAULT		FullConfig, HO-to- EUTRA
pusch-ConfigCommon	PUSCH-ConfigCommon- DEFAULT		
phich-Config	Not present		
	PHICH-Config-DEFAULT		FullConfig, HO-to- EUTRA
pucch-ConfigCommon	Not present		SAME-BW
	PUCCH-ConfigCommon- DEFAULT		DIFF-BW, FullConfig, HO-to- EUTRA
soundingRSUL-ConfigCommon	SoundingRS-UL- ConfigCommon- DEFAULT		
uplinkPowerControlCommon	Not present		
	UplinkPowerControlCom mon-DEFAULT		FullConfig, HO-to- EUTRA
antennalnfoCommon	Not present		
antennalnfoCommon SEQUENCE {			2TX
antennaPortsCount	an2		
}			
antennalnfoCommon SEQUENCE {			FullConfig, HO-to- EUTRA
antennaPortsCount	an1		
}			
p-Max	Not present		
tdd-Config	Not present		FDD
	TDD-Config-DEFAULT		TDD
ul-CyclicPrefixLength	len1		1
uplinkPowerControlCommon-v1020	UplinkPowerControlCom mon-v1020-DEFAULT		CA
	Not present		

Condition	Explanation	
FDD	FDD cell environment	
TDD	TDD cell environment	
2TX	Used for cells with two antenna ports	
SAME-BW	Source and target cell are configured with same bandwidth	
DIFF-BW	Source and target cell are configured with different bandwidth	
UL CA	When UL Carrier Aggregation is used.	
FullConfig	Handover with full configuration option (Rel-9 or later)	
HO-to-EUTRA	Inter-RAT handover to E-UTRA	
CA	For Carrier Aggregation Test cases	

RadioResourceConfigCommonSCell-r10-DEFAULT

Table 4.6.3-13A: RadioResourceConfigCommonSCell-r10-DEFAULT

Derivation Path: 36.331 clause 6.3.2			
Information Element	Value/remark	Comment	Condition
RadioResourceConfigCommonSCell-r10-DEFAULT ::= SEQUENCE {			
nonUL-Configuration-r10 SEQUENCE {			
dl-Bandwidth-r10	Same downlink bandwidth as used for target SCell		
antennalnfoCommon-r10 SEQUENCE {			
antennaPortsCount	an1		1TX
antennaPortsCount	an2		2TX
antennaPortsCount	an4		4TX
}			
mbsfn-SubframeConfigList-r10	Not present		
phich-Config-r10	PHICH-Config-DEFAULT		
pdsch-ConfigCommon-r10	PDSCH-ConfigCommon- DEFAULT		
tdd-Config-r10	Not present		FDD
•	TDD-Config-DEFAULT		TDD
}			
ul-Configuration-r10	Not present		
ul-Configuration-r10 SEQUENCE {			UL CA
ul-FregInfo-r10 SEQUENCE {			
ul-CarrierFreq-r10	Not present		
ul-Bandwidth-r10	Not present		
additionalSpectrumEmissionSCell-r10	1 (CA_NS_01)		
}			
p-Max-r10	Not present		
uplinkPowerControlCommonSCell-r10	UplinkPowerControlCom monSCell-r10-DEFAULT		
soundingRS-UL-ConfigCommon-r10	SoundingRS-UL- ConfigCommon- DEFAULT		
ul-CyclicPrefixLength-r10	len1		
prach-ConfigSCell-r10	Not present		FDD
-	FFS		TDD
pusch-ConfigCommon-r10	PUSCH-ConfigCommon- DEFAULT		
}			
}			

Condition	Explanation
FDD	FDD cell environment
TDD	TDD cell environment
UL CA	When UL Carrier Aggregation is used.
1TX	Used for SCell with one antenna port
2TX	Used for SCell with two antenna ports
4TX	Used for SCell with four antenna ports

RadioResourceConfigCommonSIB-DEFAULT

Table 4.6.3-14: RadioResourceConfigCommonSIB-DEFAULT

Information Element	Value/remark	Comment	Condition
RadioResourceConfigCommonSIB-DEFAULT ::= SEQUENCE {			
rach-ConfigCommon	RACH-ConfigCommon- DEFAULT		
bcch-Config	BCCH-Config-DEFAULT		
pcch-Config	PCCH-Config-DEFAULT		
prach-Config	PRACH-ConfigSIB- DEFAULT		
pdsch-ConfigCommon	PDSCH-ConfigCommon- DEFAULT		
pusch-ConfigCommon	PUSCH-ConfigCommon- DEFAULT		
pucch-ConfigCommon	PUCCH-ConfigCommon- DEFAULT		
soundingRS-UL-ConfigCommon	SoundingRS-UL- ConfigCommon- DEFAULT		
uplinkPowerControlCommon	UplinkPowerControlCom mon-DEFAULT		
ul-CyclicPrefixLength	len1		
uplinkPowerControlCommon-v1020	Not present		
	UplinkPowerControlCom mon-v1020-DEFAULT		CA

Condition	Explanation
CA	For Carrier Aggregation Test cases

RadioResourceConfigDedicated-SRB1

Table 4.6.3-15: RadioResourceConfigDedicated-SRB1

Derivation Path: 36.331 clause 6.3.2			
Information Element	Value/remark	Comment	Condition
RadioResourceConfigDedicated-SRB1 ::=			
SEQUENCE {			
srb-ToAddModList SEQUENCE (SIZE (12)) OF	1 entry, with value SRB-		
SEQUENCE {}	ToAddMod-DEFAULT		
	using condition SRB1		
drb-ToAddModList	Not present		
drb-ToReleaseList	Not present		
mac-MainConfig CHOICE {			
explicitValue explicitValue	MAC-MainConfig-SRB	See subclause	
		4.8.2	
}			
sps-Config	Not present		
physicalConfigDedicated	PhysicalConfigDedicated	See subclause	
	-DEFAULT using	4.8.2	
	condition SRB1		
}			

RadioResourceConfigDedicated-SRB2-DRB(n,m)

Table 4.6.3-16: RadioResourceConfigDedicated-SRB2-DRB(n,m)

Information Element	Value/remark	Comment	Condition
RadioResourceConfigDedicated-SRB2-DRB(n, m) ::= SEQUENCE {		n is the number of AM RLC DRBs (1N) m is the number of UM RLC DRBs (0M)	
srb-ToAddModList SEQUENCE (SIZE (12)) OF SEQUENCE {	1 entry		
srb-ToAddMod[1]	SRB-ToAddMod- DEFAULT using condition SRB2	See subclause 4.8.2	
}			
drb-ToAddModList SEQUENCE (SIZE (1maxDRB)) OF SEQUENCE {	n+m entries		
drb-ToAddMod[k, k=1n]	DRB-ToAddMod- DEFAULT (k) using condition AM	n AM RLC DRBs See subclause 4.8.2	
drb-ToAddMod[k, k=n+1n+m]	DRB-ToAddMod- DEFAULT (k) using condition UM	m UM RLC DRBs See subclause 4.8.2	m>0
}			
drb-ToReleaseList	Not present		
mac-MainConfig CHOICE { explicitValue	MAC-MainConfig-RBC using condition DRX_L (note)	See subclause 4.8.2	m=0
	MAC-MainConfig-RBC using condition DRX_S (note)	See subclause 4.8.2	m>0
}			
sps-Config	Not present		
physicalConfigDedicated	PhysicalConfigDedicated - DEFAULT using condition RBC	See subclause 4.8.2	

RLC-UM bearer is configured, small DRX Cycle length is used.

Condition		Explanation	
m=0	m is equal to zero		
m>0	m is greater than zero		

RadioResourceConfigDedicated-DRB(n,m)

Table 4.6.3-17: RadioResourceConfigDedicated-DRB(n,m)

Derivation Path: 36.331 clause 6.3.2			
Information Element	Value/remark	Comment	Condition
RadioResourceConfigDedicated-DRB(n, m) ::=		n is the number of	
SEQUENCE {		AM RLC DRBs	
		(0N)	
		m is the number	
		of UM RLC DRBs	
		(0M)	
srb-ToAddModList	Not present		
drb-ToAddModList SEQUENCE (SIZE (1maxDRB))	n+m entries	BID is the total	
OF SEQUENCE {		number of	
		established DRBs	
		in the UE, before	
		applying the	
		contents of this IE	
drb-ToAddMod[k, k=BID+1BID+n]	DRB-ToAddMod-	n AM RLC DRBs	n>0
	DEFAULT (k) using	See subclause	
	condition AM	4.8.2	
drb-ToAddMod[k, k= BID+1+n BID+n+m]	DRB-ToAddMod-	m UM RLC DRBs	m>0
	DEFAULT (k) using	See subclause	
	condition UM	4.8.2	
}			
drb-ToReleaseList	Not present		_
mac-MainConfig	Not present (note)		m=0
mac-MainConfig CHOICE {		<u> </u>	m>0
explicitValue	MAC-MainConfig-RBC	See subclause	
	using condition DRX_S	4.8.2	
	(note)		
}			
sps-Config	Not present		
physicalConfigDedicated	Not present		
}			L
NOTE: In cases where no RLC-UM bearer is added			cation. In
cases where at least one RLC-UM bearer is	added, small DRX Cycle ler	igtn is used.	

Condition	Explanation
n>0	n is greater than zero
m=0	m is equal to zero
m>0	m is greater than zero

RadioResourceConfigDedicated-HO-TO-EUTRA(n,m)

Table 4.6.3-18: RadioResourceConfigDedicated-HO-TO-EUTRA(n,m)

Information Element	Value/remark	Comment	Condition
RadioResourceConfigDedicated-HO-TO-EUTRA(n, m) ::= SEQUENCE {		n is the number of AM RLC DRBs (1N)	
		m is the number of UM RLC DRBs (0M)	
srb-ToAddModList SEQUENCE (SIZE (12)) OF SEQUENCE {	2 entries		
srb-ToAddMod[1]	SRB-ToAddMod- DEFAULT using condition SRB1	See subclause 4.8.2	
srb-ToAddMod[2]	SRB-ToAddMod- DEFAULT using condition SRB2	See subclause 4.8.2	
}			
drb-ToAddModList SEQUENCE (SIZE (1maxDRB)) OF SEQUENCE {	n+m entries		
drb-ToAddMod[k, k=1n]	DRB-ToAddMod- DEFAULT (k) using condition AM	n AM RLC DRBs See subclause 4.8.2	
drb-ToAddMod[k, k=n+1n+m]	DRB-ToAddMod- DEFAULT (k) using condition UM	m UM RLC DRBs See subclause 4.8.2	m>0
}			
drb-ToReleaseList	Not present		
mac-MainConfig CHOICE {			
explicitValue	MAC-MainConfig-RBC using condition DRX_L (note)	See subclause 4.8.2	m=0
	MAC-MainConfig-RBC using condition DRX_S (note)	See subclause 4.8.2	m>0
}			
sps-Config	Not present		
physicalConfigDedicated	PhysicalConfigDedicated - DEFAULT using condition RBC	See subclause 4.8.2	
1	CONGRESSION		

NOTE: In cases where no RLC-UM bearer is configured, large DRX Cycle length is used. In cases where at least one RLC-UM bearer is configured, small DRX Cycle length is used.

Condition	Explanation
m=0	m is equal to zero
m>0	m is greater than zero

RadioResourceConfigDedicated-AM-DRB-ADD(bid)

Table 4.6.3-18A: RadioResourceConfigDedicated-AM-DRB-ADD(bid)

Derivation Path: 36.331 clause 6.3.2			
Information Element	Value/remark	Comment	Condition
RadioResourceConfigDedicated-AM-DRB-ADD(bid)		bid is the bearer	
::= SEQUENCE {		identity	
srb-ToAddModList	Not present		
drb-ToAddModList SEQUENCE (SIZE (1maxDRB)) OF SEQUENCE {	one entry		
drb-ToAddMod[1]	DRB-ToAddMod-	See subclause	
	DEFAULT (bid) using	4.8.2	
	condition AM		
}			
drb-ToReleaseList	Not present		
mac-MainConfig	Not present		
sps-Config	Not present		
physicalConfigDedicated	Not present		
}			

- RadioResourceConfigDedicated-UM-DRB-ADD(bid)

Table 4.6.3-18B: RadioResourceConfigDedicated-UM-DRB-ADD(bid)

Derivation Path: 36.331 clause 6.3.2			
Information Element	Value/remark	Comment	Condition
RadioResourceConfigDedicated-UM-DRB-ADD(bid)		bid is the bearer	
::= SEQUENCE {		identity	
srb-ToAddModList	Not present		
drb-ToAddModList SEQUENCE (SIZE (1maxDRB))	one entry		
OF SEQUENCE {			
drb-ToAddMod[1]	DRB-ToAddMod-	See subclause	
	DEFAULT (bid) using	4.8.2	
	condition UM		
}			
drb-ToReleaseList	Not present		
mac-MainConfig CHOICE {			
explicitValue	MAC-MainConfig-RBC	See subclause	
	using condition DRX_S	4.8.2	
	(note)		
}			
sps-Config	Not present		
physicalConfigDedicated	Not present		
}			
NOTE: Since one RLC-UM bearer is added, small DRX	Cycle length is used.		

RadioResourceConfigDedicated- DRB-REL(bid)

Table 4.6.3-18C: RadioResourceConfigDedicated-DRB-REL(bid)

Derivation Path: 36.331 clause 6.3.2			
Information Element	Value/remark	Comment	Condition
RadioResourceConfigDedicated-DRB-REL(bid) ::=		bid is the bearer	
SEQUENCE {		identity	
srb-ToAddModList	Not present		
drb-ToAddModList	Not present		
drb-ToReleaseList SEQUENCE (SIZE (1maxDRB)) OF	one entry		
drb-Identity[1]	bid		
mac-MainConfig	Not present		
sps-Config	Not present		
physicalConfigDedicated	Not present		
}			

RadioResourceConfigDedicated-SCell_AddMod

Table 4.6.3-19AAA: RadioResourceConfigDedicated-SCell_AddMod

Derivation Path: 36.331 clause 6.3.2			
Information Element	Value/remark	Comment	Condition
RadioResourceConfigDedicated-SCell_AddMod ::=			
SEQUENCE {			
srb-ToAddModList	Not present		
drb-ToAddModList	Not present		
drb-ToReleaseList	Not present		
mac-MainConfig	MAC-MainConfig-RBC	See subclause	
	using condition	4.8.2	
	SCell_AddMod		
sps-Config	Not present		
physicalConfigDedicated	PhysicalConfigDedicated-	See subclause	
	DEFAULT using	4.8.2	
	condition SCell_AddMod		
}			

RadioResourceConfigDedicated-HO

Table 4.6.3-19: RadioResourceConfigDedicated-HO

Derivation Path: 36.331 clause 6.3.2			
Information Element	Value/remark	Comment	Condition
RadioResourceConfigDedicated-HO ::= SEQUENCE {			
srb-ToAddModList	Not present		
drb-ToAddModList	Not present		
drb-ToReleaseList	Not present		
mac-MainConfig	Not present		
sps-Config	Not present		
physicalConfigDedicated	PhysicalConfigDedicated- DEFAULT using condition RBC-HO	See subclause 4.8.2	
}			

RadioResourceConfigDedicatedSCell-r10-DEFAULT

Table 4.6.3-19AA: RadioResourceConfigDedicatedSCell-r10-DEFAULT

Derivation Path: 36.331 clause 6.3.2			
Information Element	Value/remark	Comment	Condition
RadioResourceConfigDedicatedSCell-r10 ::= SEQUENCE {			
physicalConfigDedicatedSCell-r10	PhysicalConfigDedicated SCell-r10-DEFAULT		
}			

RLC-Config-DRB-AM-RECONFIG

Table 4.6.3-19A: RLC-Config-DRB-AM-RECONFIG

Derivation Path: 36.508 table 4.8.2.1.3.2-1: RLC-Config-DRB-AM			
Information Element	Value/remark	Comment	Condition
RLC-Config-DRB-AM-RECONFIG ::= CHOICE {			
am SEQUENCE {			
ul-AM-RLC SEQUENCE {			
t-PollRetransmit	ms855		
pollPDU	p64		
pollByte	kB250		
maxRetxThreshold	t8		
}			
dl-AM-RLC SEQUENCE {			
t-Reordering	ms85		
t-StatusProhibit	ms50		
}			
}			
}			

RLC-Config-DRB-UM-RECONFIG

Table 4.6.3-19B: RLC-Config-DRB-UM-RECONFIG

Derivation Path: 36.508 table 4.8.2.1.3.1-1: RLC-Config-DRB-UM			
Information Element	Value/remark	Comment	Condition
RLC-Config-DRB-UM-RECONFIG ::= CHOICE {			
um-Bi-Directional SEQUENCE {			
ul-UM-RLC SEQUENCE {			
sn-FieldLength	Size10		
}			
dI-UM-RLC SEQUENCE {			
sn-FieldLength	Size10		
t-Reordering	ms55		
}			
}			
}			

RLC-Config-SRB-AM-RECONFIG

Table 4.6.3-19C: RLC-Config-SRB-AM-RECONFIG

Derivation Path: 36.331 clause 6.3.2, 9.2.1			
Information Element	Value/remark	Comment	Condition
RLC-Config-SRB-AM-RECONFIG ::= CHOICE {			
am SEQUENCE {			
ul-AM-RLC SEQUENCE {			
t-PollRetransmit	ms50		
pollPDU	pInfinity	Default	
pollByte	kBinfinity	Default	
maxRetxThreshold	t6		
}			
dI-AM-RLC SEQUENCE {			
t-Reordering	ms40		
t –StatusProhibit	ms0	Default	
}			
}			
}			

SCellToAddMod-r10-DEFAULT

Table 4.6.3-19D: SCellToAddMod-r10-DEFAULT

Derivation Path: 36.331 clause 6.2.2			
Information Element	Value/remark	Comment	Condition
SCellToAddMod-r10 ::= SEQUENCE {			
sCellIndex-r10	Set according to specific message content		
cellIdentification-r10 SEQUENCE {			
physCellId-r10	Set according to specific message content		
dl-CarrierFreq-r10	Set according to specific message content		
radioResourceConfigCommonSCell-r10	RadioResourceConfigCo mmonSCell-r10- DEFAULT		
radioResourceConfigDedicatedSCell-r10	RadioResourceConfigDe dicatedSCell-r10-DEFAULT		
}			

SCellToRelease-r10-DEFAULT

Table 4.6.3-19E: SCellToRelease-r10-DEFAULT

Derivation Path: 36.331 clause 6.2.2			
Information Element	Value/remark	Comment	Condition
sCellToReleaseList-r10 SEQUENCE (SIZE			
(1maxSCell-r10) OF SEQUENCE {			
sCellIndex-r10[1]	1		
}			

SchedulingRequest-Config-DEFAULT

Table 4.6.3-20: SchedulingRequest-Config-DEFAULT

Derivation Path: 36.331 clause 6.3.2			
Information Element	Value/remark	Comment	Condition
SchedulingRequest-Config-DEFAULT ::= CHOICE {			
setup SEQUENCE {			
sr-PUCCH-ResourceIndex	See subclause 4.6.8	Channel- bandwidth- dependent parameter	
sr-ConfigIndex	30		FDD
	27		TDD
dsr-TransMax	n4		
}			
}			

Condition	Explanation
FDD	FDD cell environment
TDD	TDD cell environment

Table 4.6.3-20A: Void

SoundingRS-UL-ConfigCommon-DEFAULT

Table 4.6.3-21: SoundingRS-UL-ConfigCommon-DEFAULT

Derivation Path: 36.331 clause 6.3.2			
Information Element	Value/remark	Comment	Condition
SoundingRS-UL-ConfigCommon-DEFAULT ::=			
SEQUENCE {			
setup SEQUENCE {	_		
-srs-BandwidthConfig	See subclause 4.6.8	Channel-	
		bandwidth-	
		dependent	
		parameter	
srs-SubframeConfig	sc0	Assuming SRS	FDD
		density is high	
		(see Table	
		5.5.3.3-1 in TS	
		36.211)	
	sc4	Assuming SRS	TDD
		density is high	
		(see Table	
		5.5.3.3-2 in TS	
		36.211)	
ackNackSRS-SimultaneousTransmission	TRUE	Typical value in	
		real network	
srs-MaxUpPts	Not Present		
}			
}			

Condition	Explanation
FDD	FDD cell environment
TDD	TDD cell environment

SoundingRS-UL-ConfigDedicated-DEFAULT

Table 4.6.3-22: SoundingRS-UL-ConfigDedicated-DEFAULT

Derivation Path: 36.331 clause 6.3.2			
Information Element	Value/remark	Comment	Condition
SoundingRS-UL-ConfigDedicated-DEFAULT ::=			
CHOICE {			
setup SEQUENCE {			
srs-Bandwidth	bw0	bw0 used with no frequency hopping. bw3 used with frequency hopping	
srs-HoppingBandwidth	hbw0		
freqDomainPosition	0		
duration	TRUE		
srs-ConfigIndex	20	See Table 8.2-1 in TS 36.213	FDD
	31	INTEGER (01023) See Table 8.2-2 in TS 36.213	TDD
transmissionComb	0		
cyclicShift	cs0		
}			
}			

Condition	Explanation
FDD	FDD cell environment
TDD	TDD cell environment

Table 4.6.3-22AA: Void

SoundingRS-UL-ConfigDedicatedAperiodic-r10-DEFAULT

Table 4.6.3-22AB: SoundingRS-UL-ConfigDedicatedAperiodic-r10-DEFAULT

Derivation Path: 36.331 clause 6.3.2			
Information Element	Value/remark	Comment	Condition
SoundingRS-UL-ConfigDedicatedAperiodic-r10 ::=			
CHOICE {			
setup SEQUENCE {			
srs-ConfigIndexAp-r10	10		
srs-ConfigApDCI-Format4-r10	Not present		
srs-ActivateAp-r10	Not present		
}			
}			

SRB-ToAddModList-RECONFIG

Table 4.6.3-22A: SRB-ToAddModList-RECONFIG

Derivation Path: 36.331 clause 6.3.2			
Information Element	Value/remark	Comment	Condition
SRB-ToAddModList ::= SEQUENCE (SIZE (12)) OF	2 Entries		
SEQUENCE {			
srb-Identity[1]	1		
rlc-Config[1] CHOICE {			
explicitValue	RLC-Config-SRB-AM- RECONFIG		
logicalChannelConfig[1] CHOICE {			
defaultValue	NULL		
}			
srb-Identity[2]	2		
rlc-Config[2] CHOICE {			
explicitValue	RLC-Config-SRB-AM- RECONFIG		
}			
logicalChannelConfig[2] CHOICE {			
defaultValue	NULL		
}			
}			

TDD-Config-DEFAULT

Table 4.6.3-23: TDD-Config-DEFAULT

Derivation Path: 36.331 clause 6.3.2			
Information Element	Value/remark	Comment	Condition
TDD-Config-DEFAULT ::= SEQUENCE {			
subframeAssignment	sa1		
specialSubframePatterns	Ssp6		
}			

TPC-PDCCH-Config-DEFAULT

Table 4.6.3-24: TPC-PDCCH-Config-DEFAULT

Derivation Path: 36.331 clause 6.3.2			
Information Element	Value/remark	Comment	Condition
TPC-PDCCH-Config-DEFAULT ::= CHOICE {			
setup SEQUENCE {			
tpc-RNTI	'03FF'H		PUCCH
·	'01FA'H		PUSCH
tpc-Index CHOICE {			
indexOfFormat3	1		
}			
}			
}			

Condition	Explanation
PUCCH	For PUCCH
PUSCH	For PUSCH

UplinkPowerControlCommon-DEFAULT

Table 4.6.3-25: UplinkPowerControlCommon-DEFAULT

Derivation Path: 36.331 clause 6.3.2			
Information Element	Value/remark	Comment	Condition
UplinkPowerControlCommon-DEFAULT ::=			
SEQUENCE {			
p0-NominalPUSCH	-85 (-85 dBm)	Typical value in	
		real network	
alpha	al08 (0.8)	Typical value in	
		real network	
p0-NominalPUCCH	-117 (-117 dBm)	Thermal noise = -	
		121 dBm	
		NF = 5 dB	
		IoT = 6 dB	
		Required SNR = -	
		7.5 dB (1-bit A/N)	
		-> -117 dB	
deltaFList-PUCCH SEQUENCE {			
deltaF-PUCCH-Format1	deltaF0	In accordance	
		with RAN1	
		simulation results	
deltaF-PUCCH-Format1b	deltaF3	In accordance	
		with RAN1	
		simulation results	
deltaF-PUCCH-Format2	deltaF0	In accordance	
		with RAN1	
		simulation results	
deltaF-PUCCH-Format2a	deltaF0	In accordance	
		with RAN1	
		simulation results	
deltaF-PUCCH-Format2b	deltaF0	In accordance	
		with RAN1	
		simulation results	
}			
deltaPreambleMsg3	4		

UplinkPowerControlCommonSCell-r10-DEFAULT

Table 4.6.3-25A: UplinkPowerControlCommonSCell-r10-DEFAULT

Derivation Path: 36.331 clause 6.3.2			
Information Element	Value/remark	Comment	Condition
UplinkPowerControlCommonSCell-r10 ::=			
SEQUENCE {			
p0-NominalPUSCH-r10	-85 (-85 dBm)		
alpha-r10	al08 (0.8)		
}			

UplinkPowerControlCommon-v1020-DEFAULT

Table 4.6.3-25AA: UplinkPowerControlCommon-v1020-DEFAULT

Derivation Path: 36.331 clause 6.3.2			
Information Element	Value/remark	Comment	Condition
UplinkPowerControlCommon-v1020-DEFAULT ::= SEQUENCE {			
deltaF-PUCCH-Format3-r10	deltaF0		RM coding
	deltaF4		Dual RM coding
deltaF-PUCCH-Format1bCS-r10	deltaF1		
}			

Condition	Explanation	
RM coding	Used for Reed-Muller coding	
Dual RM coding	Used for Dual Reed-Muller coding	

UplinkPowerControlDedicated-DEFAULT

Table 4.6.3-26: UplinkPowerControlDedicated-DEFAULT

Derivation Path: 36.331 clause 6.3.2			
Information Element	Value/remark	Comment	Condition
UplinkPowerControlDedicated-DEFAULT ::=			
SEQUENCE {			
p0-UE-PUSCH	0		
deltaMCS-Enabled	en0		
accumulationEnabled	TRUE		
p0-UE-PUCCH	0		
pSRS-Offset	3 (-6 dB)		
filterCoefficient	fc4		
}			

UplinkPowerControlDedicated-v1020-DEFAULT

Table 4.6.3-26A: UplinkPowerControlDedicated-v1020-DEFAULT

Derivation Path: 36.331 clause 6.3.2			
Information Element	Value/remark	Comment	Condition
UplinkPowerControlDedicated-v1020 ::= SEQUENCE			
{			
deltaTxD-OffsetListPUCCH-r10	Not Present		
deltaTxD-OffsetListPUCCH-r10 SEQUENCE {			TxD
deltaTxD-OffsetPUCCH-Format1-r10	dB0		
deltaTxD-OffsetPUCCH-Format1a1b-r10	dB0		
deltaTxD-OffsetPUCCH-Format22a2b-r10	dB0		
deltaTxD-OffsetPUCCH-Format3-r10	dB0		
}			
pSRS-OffsetAp-r10	0		SRSAp
			Not present
}			

Condition	Explanation
TxD	When PUCCH Transmission Diversity is performed.
SRSAp	Aperiodic SRS configured

UplinkPowerControlDedicated-v1130-DEFAULT

Table 4.6.3-26BA: UplinkPowerControlDedicated-v1130-DEFAULT

Derivation Path: 36.331 clause 6.3.2			
Information Element	Value/remark	Comment	Condition
UplinkPowerControlDedicated-v1130 -DEFAULT ::=			
SEQUENCE {			
pSRS-Offset-v1130	FFS		
pSRS-OffsetAp-v1130	FFS		
<pre>deltaTxD-OffsetListPUCCH-v1130 = SEQUENCE {</pre>			
deltaTxD-OffsetPUCCH-Format1bCS-r11	FFS		
}			
}			

UplinkPowerControlDedicatedSCell-r10-DEFAULT

Table 4.6.3-26B: UplinkPowerControlDedicatedSCell-r10-DEFAULT

Derivation Path: 36.331 clause 6.3.2			
Information Element	Value/remark	Comment	Condition
UplinkPowerControlDedicatedSCell-r10 ::=			
SEQUENCE {			
p0-UE-PUSCH-r10	0		
deltaMCS-Enabled-r10	en0		
accumulationEnabled-r10	TRUE		
pSRS-Offset-r10	7		
pSRS-OffsetAp-r10	7		
filterCoefficient-r10	fc4		
pathlossReferenceLinking-r10	sCell		
}			

RadioResourceConfigDedicated-DRB-Mod

Table 4.6.3-27: RadioResourceConfigDedicated-DRB-Mod

Derivation Path: 36.331 clause 6.3.2			
Information Element	Value/remark	Comment	Condition
RadioResourceConfigDedicated-DRB ::=			
SEQUENCE {			
srb-ToAddModList	Not present		
drb-ToAddModList	DRB-ToAddModList- RECONFIG		
}			
drb-ToReleaseList	Not present		
mac-MainConfig	Not present		
sps-Config	Not present		
physicalConfigDedicated	Not present		
}			

- RadioResourceConfigDedicated-PCell-PATTERN

Table 4.6.3-28: RadioResourceConfigDedicated-PCell-PATTERN

Derivation Path: 36.331 clause 6.3.2			
Information Element	Value/remark	Comment	Condition
measSubframePatternPCell ::= CHOICE {			
MeasSubframePattern-r10 ::= CHOICE {			
subframePatternFDD-r10	'0011001100110011		
	00110011001100110		
	В		
subframePatternTDD-r10	FFS		
}			
}			

- OtherConfig-r9

Table 4.6.3-29: OtherConfig-r9

Derivation Path: 36.331 clause 6.3.6			
Information Element	Value/remark	Comment	Condition
OtherConfig-r9 ::= SEQUENCE {			
reportProximityConfig-r9 ::= SEQUENCE {			
proximityIndicationEUTRA-r9	Not Present		
proximityIndicationUTRA-r9	Not Present		
}			
IDC-Config-r11 SEQUENCE {			
idc-Indication-r11	Not Present		
autonomouseDenialParameters-r11 ::=			
SEQUENCE {			
autonomousDenialSubframes-r11	Not Present		
autonomousDenialValidity-r11	Not Present		
}			
}			
PowerPrefIndicationConfig-r11 CHOICE {			
Release	NULL		Release
setup SEQUENCE {			Setup
powerPrefIndicationTimer-r11	s30		
}			
}			
ObtainLocationConfig-r11 ::= SEQUENCE {			
obtainLocation-r11	Not present		
}			
}			

Condition	Explanation
Setup	The UE is allowed to send power preference indications.
Release	The UE is not allowed to send power preference indications

WLAN-OffloadConfig-r12

Table 4.6.3-30: WLAN-OffloadConfig-DEFAULT

Derivation Path: 36.331 clause 6.3.6 Information Element	Value/remark	Comment	Condition
WLAN-OffloadConfig-r12::= SEQUENCE {			
thresholdRSRP-r12	Not Present		
thresholdRSRP-r12::= SEQUENCE {			RSRP
thresholdRSRP-Low-r12	Set according to specific message content		
thresholdRSRP-High-r12	Set according to specific message content		
} thresholdRSRQ-r12	Not Present		RSRQ
thresholdRSRQ-r12::= SEQUENCE {	140t Tresent		ROING
thresholdRSRQ-Low-r12	Set according to specific message content		
thresholdRSRQ-High-r12	Set according to specific message content		
}			
thresholdRSRQ-OnAllSymbolsWithWB-r12	Not Present		
thresholdRSRQ-OnAllSymbols-r12	Not Present		
thresholdRSRQ-WB-r12	Not Present		
thresholdChannelUtilization-r12	Not Present		
thresholdChannelUtilization-r12::= SEQUENCE {			ChanUtiliza tion
thresholdChannelUtilizationLow-r12	Set according to specific message content		
thresholdChannelUtilizationHigh-r12	Set according to specific message content		
} thresholdBackhaul-Bandwidth-r12	Not Present		
thresholdBackhaul-Bandwidth-r12::= SEQUENCE {	Not Tresent		BackhaulB
	Cat according to an acitic		W
thresholdBackhaulDL-BandwidthLow-r12	Set according to specific message content		
thresholdBackhaulDL-BandwidthHigh-r12	Set according to specific message content		
thresholdBackhaulUL-BandwidthLow-r12	Set according to specific message content		
thresholdBackhaulUL-BandwidthHigh-r12	Set according to specific message content		
} the solved Decree in DOOL in 100	Not Decoup		
thresholdBeaconRSSI-r12 thresholdBeaconRSSI-r12::= SEQUENCE {	Not Present		BeaconRS SI
thresholdBeaconRSSI-Low-r12	Set according to specific message content		
thresholdBeaconRSSI-High-r12	Set according to specific message content		
}			
offloadPreferenceIndicator-r12	'1111 1111 1111 1111'B	All IP flows enabled	
t-SteeringWLAN-r12	0	Typical value in real networks	

Condition	Explanation	
RSRP	If RSRP based thresholds are to be used	
RSRQ	If RSRQ based thresholds are to be used	
ChanUtilization	If Channel Utilization based thresholds are to be used	
BackhaulBW	If Backhaul bandwidth thresholds are to be used	
BeaconRSSI	If Beacon RSSI Thresholds are to be used	

4.6.4 Security control information elements

SecurityConfigHO-DEFAULT

Table 4.6.4-1: SecurityConfigHO-DEFAULT

Derivation Path: 36.331 clause 6.2,2, 6.3.3			
Information Element	Value/remark	Comment	Condition
SecurityConfigHO-DEFAULT ::= SEQUENCE {			
handoverType CHOICE {			
intraLTE SEQUENCE {			
securityAlgorithmConfig	Not present		
keyChangeIndicator	FALSE		
nextHopChainingCount	0		
}			
}			
}			

SecurityConfigSMC-DEFAULT

Table 4.6.4-2: SecurityConfigSMC-DEFAULT

Derivation Path: 36.331 clause 6.2,2, 6.3.3			
Information Element	Value/remark	Comment	Condition
SecurityConfigSMC-DEFAULT ::= SEQUENCE {			
securityAlgorithmConfig SEQUENCE {			
cipheringAlgorithm	Set according to PIXIT parameter for default ciphering algorithm		For SIG
	eea0		For RF
integrityProtAlgorithm	Set according to PIXIT parameter for default integrity protection algorithm		For SIG
	spare1 or eia0-v920	This IE is set to one of the algorithms supported by the UE as indicated in the IE "UE network	For RF
	eia1		
	eia2	capability" in the ATTACH REQUEST message.	
}			
}			

Condition	Explanation	
For SIG	Used for signalling test cases	
For RF	Used for RF/RRM test cases	

4.6.5 Mobility control information elements

MobilityControlInfo-HO

Table 4.6.5-1: MobilityControlInfo-HO

Information Element	Value/remark	Comment	Condition
MobilityControlInfo-HO ::= SEQUENCE {			
targetPhysCellId	Set according to specific message content		
carrierFreq	Set according to specific message content		
carrierBandwidth	Not present		SAME-BW
carrierBandwidth SEQUENCE {	·		DIFF-BW
dl-Bandwidth	Same downlink bandwidth as used for target cell		
ul-Bandwidth	Not present		
}	· ·		
additionalSpectrumEmission	Not present		
	1		HO-to- EUTRA
t304	ms1000		
newUE-Identity	SS arbitrarily selects a value between '003C'H and 'FFF2'H.		
radioResourceConfigCommon	RadioResourceConfigCo mmon-DEFAULT		
rach-ConfigDedicated	Not present		
·	Rach-ConfigDedicated- DEFAULT		FullConfig, HO-to- EUTRA

Condition	Explanation
SAME-BW	Source and target cell are configured with same bandwidth
DIFF-BW	Source and target cell are configured with different bandwidth

4.6.6 Measurement information elements

- MeasConfig-DEFAULT

Table 4.6.6-1: MeasConfig-DEFAULT

Derivation Path: 36.331, clause 6.3.5 Information Element	Value/remark	Comment	Condition
MeasConfig-DEFAULT ::= SEQUENCE {			
measObjectToRemoveList	Not present		
measObjectToAddModList	Not present		
•	MeasObjectEUTRA- GENERIC		elClC
reportConfigToRemoveList	Not present		
reportConfigToAddModList	Not present		
	ReportConfigToAddModL ist_DEFAULT		elClC
measIdToRemoveList	Not present		
measIdToAddModList	Not present		
	MeasIdToAddModList_D EFAULT		elClC
quantityConfig	QuantityConfig- DEFAULT		
measGapConfig	Not present		
	MeasGapConfig-GP1		INTER- FREQ, UTRAN
	MeasGapConfig-GP2		GERAN, INTER- RAT
s-Measure	Not present	<u> </u>	
preRegistrationInfoHRPD	Not present		
speedStatePars	Not present		
}			

Condition	Explanation	
INTER-FREQ	For E-UTRA inter-freq measurements	
INTER-RAT	For inter-RAT measurements with UTRAN and GERAN	
elClC	For eICIC measurements	

- MeasGapConfig-GP1

Table 4.6.6-1A: MeasGapConfig-GP1

Derivation Path: 36.331, clause 6.3.5			
Information Element	Value/remark	Comment	Condition
MeasGapConfig-GP1 ::= CHOICE {			
setup SEQUENCE {			
gapOffset CHOICE {			
gp0	0	TGRP = 40 ms	
}			
}			
}			

MeasGapConfig-GP2

Table 4.6.6-1B: MeasGapConfig-GP2

Derivation Path: 36.331, clause 6.3.5			
Information Element	Value/remark	Comment	Condition
MeasGapConfig-GP2 ::= CHOICE {			
setup SEQUENCE {			
gapOffset CHOICE {			
gp1	0	TGRP = 80 ms	
}			
}			
}			

MeasObjectCDMA2000-GENERIC

Table 4.6.6-1C: MeasObjectCDMA2000-GENERIC

Derivation Path: 36.331 clause 6.3.5			
Information Element	Value/remark	Comment	Condition
MeasObjectCDMA2000-GENERIC ::= SEQUENCE {			
cdma2000-Type	As per specific message content	[type1XRTT, typeHRPD]	
carrierFreq SEQUENCE {			
bandClass	As per specific message content	Should be one of the following: bc0, bc1, bc2, bc3, bc4, bc5, bc6, bc7, bc8, bc9, bc10, bc11, bc12, bc13, bc14, bc15, bc16, bc17, spare14, spare13, spare12, spare11, spare6, spare5, spare4, spare3, spare2, spare1,	
arfcn	Downlink channel number	INTEGER (0 to 2047)	
}			
searchWindowSize	As per specific message content	INTEGER (015)	
offsetFreq	0 (0 dB)		
cellsToRemoveList	Not present		
cellsToAddModList	[Not present]		
cellForWhichToReportCGI	Not present		
}			

ReportConfigToAddModList_DEFAULT

Table 4.6.6-1D: ReportConfigToAddModList_DEFAULT

Derivation Path: 36.331, clause 6.3.5				
Information Element	Value/remark	Comment	Condition	
ReportConfigToAddModList_DEFAULT ::=	1 entry			
SEQUENCE {	_			
reportConfigId[1]	IdReportConfig-A3			
reportConfig[1]	ReportConfigEUTRA-A3			
}				

MeasIdToAddModList_DEFAULT

Table 4.6.6-1E: MeasIdToAddModList_DEFAULT

Derivation Path: 36.331, clause 6.3.5	M.L. d	1 0	0 111
Information Element	Value/remark	Comment	Condition
MeasIdToAddModList_DEFAULT ::= SEQUENCE {	1 entry		
measId[1]	1		
measObjectId[1]	IdMeasObject-f1		
reportConfigId[1]	IdReportConfig-A3		
}			

MeasObjectEUTRA-GENERIC

Table 4.6.6-2: MeasObjectEUTRA-GENERIC(Freq)

Derivation Path: 36.331 clause 6.3.5	Mala de anada	0	0
Information Element	Value/remark	Comment	Condition
MeasObjectEUTRA-GENERIC(Freq) ::= SEQUENCE			
<u>{</u> carrierFreq	Downlink EARFCN for		
	Freq		
allowedmeasBandwidth	The number of the resource blocks for Freq		
presenceAntennaPort1	FALSE		
	TRUE	At least two cell- specific antenna ports are used in all neighbouring cells.	All neighCells with port1
neighbourCellConfig	'01'B (No MBSFN subframes are present in all neighbour cells)	MBSFN doesn't apply by default.	
offsetFreq	0 (dB 0)		
cellsToRemoveList	Not present		
cellsToAddModList	Not present		
blackCellsToRemoveList	Not present		
blackCellsToAddModList	Not present		
cellForWhichToReportCGI	Not present		
measCycleSCell-r10	sf512		SCell_EXI ST
measSubframePatternConfigNeigh-r10	Not present		
measSubframePatternConfigNeigh-r10 }	Not present		

Condition	Explanation
SCell_EXIST	When SCell exists on the carrier frequency indicated by carrierFreq
All neighCells with	Used for all neighbouring cells with at least two cell-specific antenna ports
port1	

MeasObjectGERAN-GENERIC

Table 4.6.6-2A: MeasObjectGERAN-GENERIC(Freq)

Derivation Path: 36.331 clause 6.3.5			
Information Element	Value/remark	Comment	Condition
MeasObjectGERAN-GENERIC(Freq) ::= SEQUENCE			
{			
carrierFreqs SEQUENCE {			
startingARFCN	Downlink GERAN ARFCN of Freq		
bandIndicator	Set according to the band used for GERAN cells under test		
followingARFCNs CHOICE {			
explicitListOfARFCNs	Set the corresponding ARFCN of GERAN cells under test		
}			
offsetFreq	0 (dB 0)		
ncc-Permitted	'01000000'B	NCC=1 permitted	
cellForWhichToReportCGI	Not present		
}			

MeasObjectUTRA-GENERIC

Table 4.6.6-3: MeasObjectUTRA-GENERIC(Freq)

Derivation Path: 36.331 clause 6.3.5			
Information Element	Value/remark	Comment	Condition
MeasObjectUTRA-GENERIC(Freq) ::= SEQUENCE {			
carrierFreq	Downlink UARFCN of Freq		
offsetFreq	0 (dB 0)		
cellsToRemoveList	Not present		
cellsToAddModList	Not present	For UTRA, the neighbouring cell list needs to be provided in specific test cases.	
cellForWhichToReportCGI	Not present		
}			

QuantityConfig-DEFAULT

Table 4.6.6-3A: QuantityConfig-DEFAULT

Derivation Path: 36.331, clause 6.3.5			
Information Element	Value/remark	Comment	Condition
QuantityConfig-DEFAULT ::= SEQUENCE {			
quantityConfigEUTRA SEQUENCE {			
filterCoefficientRSRP	Not present	DEFAULT fc4	
filterCoefficientRSRQ	Not present	DEFAULT fc4	
}			
quantityConfigUTRA SEQUENCE {}	Not present		
quantityConfigUTRA SEQUENCE {	·		UTRAN
measQuantityUTRA-FDD	cpich-EcN0		
measQuantityUTRA-FDD	cpich-RSCP	For signalling test	
·		cases	
measQuantityUTRA-TDD	pccpch-RSCP		
filterCoefficient	Not present	DEFAULT fc4	
}			
quantityConfigGERAN SEQUENCE {}	Not present		
quantityConfigGERAN SEQUENCE {			GERAN
measQuantityGERAN	rssi		
filterCoefficient	Not present	DEFAULT fc2	
}			
quantityConfigCDMA2000 SEQUENCE {}	Not present		
quantityConfigCDMA2000 SEQUENCE {			CDMA2000
measQuantityCDMA2000	[FFS]		
}			
}			

Condition	Explanation	
UTRAN	For inter-RAT measurements with UTRAN	
GERAN	For inter-RAT measurements with GERAN	
CDMA2000	For inter-RAT measurements with CDMA2000	

ReportConfigEUTRA-A1

Table 4.6.6-4: ReportConfigEUTRA-A1(Thres)

Derivation Path: 36.331 clause 6.3.5	Value/remark	Commant	Candition
Information Element	Value/remark	Comment	Condition
ReportConfigEUTRA-A1(Thres) ::= SEQUENCE {			
triggerType CHOICE {			
event SEQUENCE {			
eventId CHOICE {			
eventA1 SEQUENCE {			
a1-Threshold CHOICE {			
threshold-RSRP	Thres+140	Thres is actual threshold value in dBm	
}			
}			
}			
hysteresis	0 (0 dB)		
timeToTrigger	ms256		
}			
}			
triggerQuantity	rsrp		
reportQuantity	both		
maxReportCells	1		
reportInterval	ms1024		
reportAmount	r1		
}			

ReportConfigEUTRA-A2

Table 4.6.6-5: ReportConfigEUTRA-A2(Thres)

Derivation Path: 36.331 clause 6.3.5			
Information Element	Value/remark	Comment	Condition
ReportConfigEUTRA-A2(Thres) ::= SEQUENCE {			
triggerType CHOICE {			
event SEQUENCE {			
eventId CHOICE {			
eventA2 SEQUENCE {			
a2-Threshold CHOICE {			
threshold-RSRP	Thres+140	Thres is actual threshold value in dBm	
}			
}			
}			
hysteresis	0 (0 dB)		
timeToTrigger	ms320		
}			
}			
triggerQuantity	rsrp		
reportQuantity	both		
maxReportCells	1		
reportInterval	ms1024		
reportAmount	r1		
}			

- ReportConfigEUTRA-A3

Table 4.6.6-6: ReportConfigEUTRA-A3

Information Element	Value/remark	Comment	Condition
ReportConfigEUTRA-A3 ::= SEQUENCE {			
triggerType CHOICE {			
event SEQUENCE {			
eventId CHOICE {			
eventA3 SEQUENCE {			
a3-Offset	0 (0 dB)	To reduce interference between intra-frequency multiple cells	
reportOnLeave	FALSE		
}			
}			
hysteresis	0 (0 dB)		
timeToTrigger	ms640		
}			
}			
triggerQuantity	rsrp		
reportQuantity	both		
maxReportCells	1		
reportInterval	ms1024		
reportAmount	r1		

ReportConfigEUTRA-A4

Table 4.6.6-6AA: ReportConfigEUTRA-A4(Thres)

Derivation Path: 36.331 clause 6.3.5			1
Information Element	Value/remark	Comment	Condition
ReportConfigEUTRA-A4 ::= SEQUENCE {			
triggerType CHOICE {			
event SEQUENCE {			
eventId CHOICE {			
eventA4 SEQUENCE {			
a4-Threshold CHOICE{			
threshold-RSRP	Thres + 140	Thres is actual threshold value in dBm	Not RSRQ
threshold-RSRQ	Thres * 2 + 40	Thres is actual threshold value in dB	RSRQ
}			
}			
}			
hysteresis	0 (0 dB)		
timeToTrigger	ms0		
}			
}			
triggerQuantity	rsrp		Not RSRQ
	rsrq		RSRQ
reportQuantity	both		
maxReportCells	1		
reportInterval	ms1024		
reportAmount	r1		
si-RequestForHO-r9	Not Present		
ue-RxTxTimeDiffPeriodical-r9	Not Present		
}			

Condition	Explanation
RSRQ	When RSRQ based measurement is applied

- ReportConfigEUTRA-A5

Table 4.6.6-6AB: ReportConfigEUTRA-A5(Thres1, Thres2)

Derivation Path: 36.331 clause 6.3.5			_
Information Element	Value/remark	Comment	Condition
ReportConfigEUTRA-A5 ::= SEQUENCE {			
triggerType CHOICE {			
event SEQUENCE {			
eventId CHOICE {			
eventA5 SEQUENCE {			
a5-Threshold1 CHOICE{			
threshold-RSRP	Thres1 + 140	Thres1 is actual threshold value in dBm	Not RSRQ
threshold-RSRQ	Thres1 * 2 + 40	Thres1 is actual threshold value in dB	RSRQ
}			
a5-Threshold2 CHOICE{			
threshold-RSRP	Thres2 + 140	Thres2 is actual threshold value in dBm	Not RSRQ
threshold-RSRQ	Thres2 * 2 + 40	Thres2 is actual threshold value in dB	RSRQ
}			
}			
}			
hysteresis	0 (0 dB)		
timeToTrigger	ms0		
}			
}			
triggerQuantity	rsrp		Not RSRQ
	rsrq		RSRQ
reportQuantity	both		
maxReportCells	1		
reportInterval	ms1024		
reportAmount	r1		
si-RequestForHO-r9	Not Present		
ue-RxTxTimeDiffPeriodical-r9	Not Present		
}			
}			

Condition	Explanation
RSRQ	See the definition below table 4.6.6-6AA.

ReportConfigEUTRA-A6

Table 4.6.6-6A: ReportConfigEUTRA-A6

Derivation Path: 36.331 clause 6.3.5			
Information Element	Value/remark	Comment	Condition
ReportConfigEUTRA-A6 ::= SEQUENCE {			
triggerType CHOICE {			
event SEQUENCE {			
eventId CHOICE {			
eventA6-r10 SEQUENCE {			
a6-Offset-r10	0 (0 dB)		
a6-ReportOnLeave-r10	FALSE		
}			
}			
hysteresis	0 (0 dB)		
timeToTrigger	ms640		
}			
}			
triggerQuantity	rsrp		
reportQuantity	both		
maxReportCells	1		
reportInterval	ms1024		
reportAmount	r1		
si-RequestForHO-r9	Not Present		
ue-RxTxTimeDiffPeriodical-r9	Not Present		
includeLocationInfo-r10	Not Present		
reportAddNeighMeas-r10	Not Present		
}			

- ReportConfigEUTRA-PERIODICAL

Table 4.6.6-7: ReportConfigEUTRA-PERIODICAL

Derivation Path: 36.331 clause 6.3.5			
Information Element	Value/remark	Comment	Condition
ReportConfigEUTRA-PERIODICAL ::= SEQUENCE {			
triggerType CHOICE {			
periodical SEQUENCE {			
purpose	reportStrongestCells		
}			
}			
triggerQuantity	rsrp		
reportQuantity	both		
maxReportCells	1		
reportInterval	ms1024		
reportAmount	infinity		
}			

ReportConfigInterRAT-B1-GERAN

Table 4.6.6-7A: ReportConfigInterRAT-B1-GERAN(GERAN-Thres)

Derivation Path: 36.331 clause 6.3.5			
Information Element	Value/remark	Comment	Condition
ReportConfigInterRAT-B1-GERAN(GERAN-Thres) ::=			
SEQUENCE {			
triggerType CHOICE {			
event SEQUENCE {			
eventId CHOICE {			
eventB1 SEQUENCE {			
b1-Threshold CHOICE {			
b1-ThresholdGERAN	(GERAN-Thres + 110)	GERAN-Thres is	
		actual value in	
		dBm	
}			
}			
}			
hysteresis	0	INTEGER(030)	
timeToTrigger	ms0		
}			
}			
maxReportCells	6	In line with RAN4	
		requirement	
reportInterval	ms1024		
reportAmount	r1		
}			

- ReportConfigInterRAT-B1-UTRA

Table 4.6.6-7B: ReportConfigInterRAT-B1-UTRA(UTRA-Thres)

Derivation Path: 36.331 clause 6.3.5			
Information Element	Value/remark	Comment	Condition
ReportConfigInterRAT-B1-UTRA(UTRA-Thres) ::=			
SEQUENCE {			
triggerType CHOICE {			
event SEQUENCE {			
eventId CHOICE {			
eventB1 SEQUENCE {			
b1-Threshold CHOICE {			
b1-ThresholdUTRA CHOICE {			
utra-EcN0	(UTRA-Thres * 2 + 49)	UTRA-Thres is actual Ec/NO value in dB	UTRA- FDD
utra-RSCP	UTRA-Thres + 115	For signalling test cases	UTRA- FDD
		UTRA-Thres is actual RSCP value in dBm	
utra-RSCP	UTRA-Thres + 115	UTRA-Thres is actual RSCP value in dBm	UTRA- TDD
}			
}			
}			
}			
hysteresis	3 (1.5 dB)		
timeToTrigger	ms0		
}			
}			
maxReportCells	6	In line with RAN4 requirement	
reportInterval	ms1024		
reportAmount	r1		
}			

Condition		Explanation	
UTRA-FDD	UTRA FDD cell environment		
UTRA-TDD	UTRA TDD cell environment		

- ReportConfigInterRAT-B2-CDMA2000

Table 4.6.6-7C: ReportConfigInterRAT-B2-CDMA2000(EUTRA-Thres, CDMA2000-Thres)

Derivation Path: 36.331 clause 6.3.5	T		T
Information Element	Value/remark	Comment	Condition
ReportConfigInterRAT-B2-CDMA2000(EUTRA-Thres,			
CDMA2000-Thres) ::= SEQUENCE {			
triggerType CHOICE {			
event SEQUENCE {			
eventId CHOICE {			
eventB2 SEQUENCE {			
b2-Threshold1 CHOICE {			
threshold-RSRP	EUTRA-Thres+140	EUTRA-Thres is actual threshold value in dBm	
		value in dbm	
b2-Threshold2 CHOICE {			
	[00 / 45 dD)]	Into 200 (0, 00)	
b2-Threshold2CDMA2000	[30 (-15 dB)]	Integer (063)	
}			
}			
}	[O (4 -ID)]	INTEGED(0, 00)	
hysteresis	[2 (1 dB)]	INTEGER(030)	
timeToTrigger	ms0		
}			
}	101		
maxReportCells	[8]	- 122	
reportInterval	[ms2048]	Range: ms120, ms240, ms480, ms640, ms1024, ms2048, ms5120, ms10240, min1, min6, min12, min30, min60, spare3, spare2, spare1	
reportAmount	[r1]	Range: r1, r2, r4, r8, r16, r32, r64, infinity	
}			

Table 4.6.6-7D: void

ReportConfigInterRAT-B2-GERAN

Table 4.6.6-7E: ReportConfigInterRAT-B2-GERAN(EUTRA-Thres, GERAN-Thres)

Derivation Path: 36.331 clause 6.3.5			
Information Element	Value/remark	Comment	Condition
ReportConfigInterRAT-B2-GERAN(EUTRA-Thres,			
GERAN-Thres) ::= SEQUENCE {			
triggerType CHOICE {			
event SEQUENCE {			
eventId CHOICE {			
eventB2 SEQUENCE {			
b2-Threshold1 CHOICE {			
threshold-RSRP	EUTRA-Thres+140	EUTRA-Thres is	
		actual threshold	
		value in dBm	
}			
b2-Threshold2 CHOICE {			
b2-Threshold2GERAN	GERAN-Thres + 110	GERAN-Thres is	
		actual value in	
		dBm	
}			
}			
}			
hysteresis	0	INTEGER(030)	
timeToTrigger	ms0		
}			
}			
maxReportCells	6	In line with RAN4	
		requirement	
reportInterval	ms1024		
reportAmount	r1		
}			

- ReportConfigInterRAT-B2-UTRA

Table 4.6.6-8: ReportConfigInterRAT-B2-UTRA(EUTRA-Thres, UTRA-Thres)

Derivation Path: 36.331 clause 6.3.5			
Information Element	Value/remark	Comment	Condition
ReportConfigInterRAT-B2-UTRA(EUTRA-Thres,			
UTRA-Thres) ::= SEQUENCE {			
triggerType CHOICE {			
event SEQUENCE {			
eventId CHOICE {			
eventB2 SEQUENCE {			
b2-Threshold1 CHOICE {			
threshold-RSRP	EUTRA-Thres+140	EUTRA-Thres is actual threshold value in dBm	
}			
b2-Threshold2 CHOICE {			
b2-Threshold2UTRA CHOICE {			
utra-EcN0	UTRA-Thres * 2 + 49	UTRA-Thres is actual Ec/NO value in dB	UTRA- FDD
utra-RSCP	UTRA-Thres + 115	For signalling test cases UTRA-Thres is actual RSCP value in dBm	UTRA- FDD
utra-RSCP	UTRA-Thres + 115	UTRA-Thres is actual RSCP value in dBm	UTRA- TDD
}			
}			
}			
}			
hysteresis	3 (1.5 dB)		
timeToTrigger	ms0		
}			
}			
maxReportCells	6	In line with RAN4 requirement	
reportInterval	ms1024		
reportAmount	r1		
}			

Condition	Explanation
UTRA-FDD	UTRA FDD cell environment
UTRA-TDD	UTRA TDD cell environment

ReportConfigInterRAT-PERIODICAL

Table 4.6.6-9: ReportConfigInterRAT-PERIODICAL

Derivation Path: 36.331 clause 6.3.5	·		
Information Element	Value/remark	Comment	Condition
ReportConfigInterRAT-PERIODICAL ::= SEQUENCE			
{			
triggerType CHOICE {			
periodical SEQUENCE {			
purpose	reportStrongestCells		
}			
}			
maxReportCells	1		
reportInterval	ms1024		
reportAmount	infinity		
}			

4.6.7 Other information elements

RRC-TransactionIdentifier-DL

Table 4.6.7-1: RRC-TransactionIdentifier-DL

Derivation Path: 36.331 clause 6.3.6			
Information Element	Value/remark	Comment	Condition
RRC-TransactionIdentifier-DL ::=	03		

RRC-TransactionIdentifier-UL

Table 4.6.7-2: RRC-TransactionIdentifier-UL

Derivation Path: 36.331 clause 6.3.6			
Information Element	Value/remark	Comment	Condition
RRC-TransactionIdentifier-UL ::=	03	The same value as the value of RRC-TransactionIdentifier-DL in the downlink message initiating the procedure	

4.6.8 Channel-bandwidth-dependent parameters

The default values of parameters which depend on the channel bandwidth are defined in table 4.6.8-1.

Table 4.6.8-1: Channel-bandwidth-dependent parameters

Information	Channel bandwidth					Comment	
Element	1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20MHz	
Prach- FrequencyOff set	0	1	2	4	6	8	Typical value in real network
nRB-CQI	0	0	2	4	6	8	Selected based on typical maximum number of UEs.
Pusch- HoppingOffset	0	2	4	8	12	16	Typical value in real network
sr-PUCCH- ResourceInde x	FFS	FFS	20	41	62	84	
srs- BandwidthCo nfig	FFS	FFS	bw3 (m _{SRS,b} , N _b) = (20, 1), (4, 5), (4, 1), (4, 1)	bw2 (m _{SRS,b} , N _b) = (40, 1), (20, 2), (4, 5), (4, 1)	bw2 (m _{SRS,b} , N _b) = (60, 1), (20, 3), (4, 5), (4, 1)	bw2 (m _{SRS,b} , N _b) = (80, 1), (40, 2), (20, 2), (4, 5)	Selected in accordance with pucch-ResourceSize.

4.7 Default NAS message and information element contents

This clause contains the default values of common NAS messages and information elements, which apply to all test cases unless otherwise specified. All the messages and information elements are listed in alphabetical order.

4.7.1 Security protected NAS messages

In subclauses 4.7.2 and 4.7.3 in this document, all the NAS messages are described in the plain NAS message format.

When a NAS message is security protected, the message shall be contained by SECURITY PROTECTED NAS MESSAGE unless contained by another NAS message.

The default contents of SECURITY PROTECTED NAS MESSAGE message are defined in table 4.7.1-1.

Table 4.7.1-1: SECURITY PROTECTED NAS MESSAGE

Derivation Path: 24.301 clause 8.2.23			
Information Element	Value/remark	Comment	Condition
Protocol discriminator	EMM		
Security header type	'0001'B	Integrity protected	UNCIPHER ED
	'0010'B	Integrity protected and ciphered	CIPHERED
	'0011'B	Integrity protected with new EPS security context	UNCIPHER ED-NEW
	'0100'B	Integrity protected and ciphered with new EPS security context	CIPHERED- NEW
Message authentication code	The calculated value of MAC-I for this message.	The value of MAC-I is calculated by SS using Sequence number sent by UE.	SENT-BY- SS
	The same value as the XMAC-I value calculated by SS.		SENT-BY- UE
Sequence number	The internal counter of the SS		SENT-BY- SS
	Any allowed value		SENT-BY- UE
NAS message	Set according to specific message content		

Condition	Explanation
UNCIPHERED	This condition applies to unciphered NAS message exchange
CIPHERED	This condition applies to ciphered NAS message exchange
UNCIPHERED-NEW	This condition applies to unciphered NAS message exchange with
	new EPS security context
CIPHERED-NEW	This condition applies to ciphered NAS message exchange with new
	EPS security context
SENT-BY-SS	Use for the message sent from SS to UE
SENT-BY-UE	Use for the message sent from UE to SS

When a valid NAS security context exists, unless specified otherwise in other clauses of the present specification or in a test case, for every DL NAS message sent within SECURITY PROTECTED NAS MESSAGE message, the condition CIPHERED applies.

4.7.2 Contents of EMM messages

ATTACH ACCEPT

This message is sent by the SS to the UE.

Table 4.7.2-1: ATTACH ACCEPT

Information Element	Value/remark	Comment	Condition
Protocol discriminator	EMM		
Security header type	'0000'B	Plain NAS	
		message, not security protected	
Attach accept message identity	'0100 0010'B	Attach accept	
EPS attach result	'0001'B	EPS only	EPS_only
	'0010'B	combined EPS/IMSI attach	combined_E PS_IMSI

Spare half octet	'0000'B		
T3412 value	0000 В		
Timer value	'0 0000'B		
Unit	'111'B	value indicates	
Offic	IIIB	that the timer is	
		deactivated.	
TAI list		deactivated.	
	10000 0440ID	Castata	
Length of tracking area identity list contents	'0000 0110'B	6 octets	
Partial tracking area identity list 1	In annual D	4 1 .	
Number of elements	'0 0000'B	1 element	
Type of list	'00'B	list of TACs	
		belonging to one	
		PLMN, with non-	
		consecutive TAC	
		values	
MCC	See table 4.4.2-2 in this	For NAS test	
	document	cases, see table	
		6.3.2.2-1.	
MNC	See table 4.4.2-2 in this	For NAS test	
	document	cases, see table	
		6.3.2.2-1.	
TAC 1	See table 4.4.2-2 in this	For NAS test	
	document	cases, see table	
		6.3.2.2-1.	
ESM message container	ACTIVATE DEFAULT		
	EPS BEARER		
	CONTEXT REQUEST		
	message to activate the		
	default bearer		
GUTI			
Length of EPS mobile identity contents	'0000 1011'B	11 octets	
Type of identity	'110'B	GUTI	
Odd/even indication	'0'B	even number of	
		identity digits and	
		also when the	
		GUTI is used	
MCC	See table 4.4.2-2 in this	For NAS test	
	document	cases, see table	
MANO	04-1-4-4-0-0-1-41-1-	6.3.2.2-1.	
MNC	See table 4.4.2-2 in this	For NAS test	
	document	cases, see table	
10.00	0 11 1100: 11:	6.3.2.2-1.	
MME Group ID	See table 4.4.2-2 in this	For NAS test	
	document	cases, see table	
NANAT Codo	Contable 4.4.0.0 in this	6.3.2.2-1.	
MME Code	See table 4.4.2-2 in this	For NAS test	
	document	cases, see table	
NA TNACI	Contable 4.4.0.0 in thi	6.3.2.2-1.	
M-TMSI	See table 4.4.2-2 in this document	For NAS test	
	document	cases, see table	
Location area identification	Not procept	6.3.2.2-1.	EDS only
Location area identification Location area identification	Not present	+	EPS_only combined_E
MCC	MCC of the EUTRA cell	+	PS_IMSI
IVICO	from which this message		i O_iiviOi
	is sent		
MNC	MCC of the EUTRA cell		+
171110	from which this message		
	is sent		
LAC	1		†
MS identity	Not present		EPS_only
MS identity	110t prosont		combined_E
Length of mobile identity contents	'0000 0101'B	5 octets	PS_IMSI
Type of identity	'100'B	TMSI/P-TMSI/M-	1 . 5
Type of identity	100 B	TMSI	
Odd/even indication	'0'B	even number of	†
S S S S S S S S S S S S S S S S S S S		identity digits and	
		aa, aigito and	1

		also when the TMSI/P-TMSI or TMGI and optional MBMS Session Identity is used	
TMSI	TMSI-1		
EMM cause	Not present		
T3402 value	Not present		
T3423 value	Not present		
Equivalent PLMNs	Not present		
Emergency number list	Not present		
EPS network feature support	'0000 0001'B	IMS voice over PS session in S1 mode supported	
EPS network feature support	'0000 0011'B	IMS voice over PS session in S1 mode supported, emergency bearer services in S1 mode supported	Rel-9
Additional update result	Not present		
Additional update result	'10' B	"SMS only"	additional_u pdate_result _SMS
T3412 extended value	Not present		Rel-10

Condition	Explanation
EPS_only	This condition applies if the UE is configured to initiate EPS attach or if explicitly specified.
combined_EPS_IMSI	This condition applies if the UE is configured to initiate combined EPS/IMSI attach or if explicitly specified.
additional_update_result_SMS	If the UE requested "SMS only" in the Additional update type IE and combined_EPS_IMSI condition applies

NOTE: This message is always sent within SECURITY PROTECTED NAS MESSAGE message.

- ATTACH COMPLETE

This message is sent by the UE to the SS.

Table 4.7.2-2: ATTACH COMPLETE

Information Element	Value/remark	Comment	Condition
Protocol discriminator	EMM		
Security header type	'0000'B	Plain NAS message, not security protected	
Attach complete message identity	'0100 0011'B	Attach complete	
ESM message container	ACTIVATE DEFAULT EPS BEARER CONTEXT ACCEPT message		

- ATTACH REJECT

This message is sent by the SS to the UE.

Table 4.7.2-3: ATTACH REJECT

Information Element	Value/remark	Comment	Condition
Protocol discriminator	EMM		
Security header type	'0000'B	Plain NAS message, not security protected	
Attach reject message identity	'0100 0100'B	Attach reject	
EMM cause	Set according to specific message content.		
ESM message container	Set according to specific message content.		

NOTE: If this message includes the EMM cause set to #25, it is sent within SECURITY PROTECTED NAS MESSAGE message. Otherwise this message is sent without integrity protection.

ATTACH REQUEST

This message is sent by the UE to the SS.

Table 4.7.2-4: ATTACH REQUEST

Derivation Path: 24.301 clause 8.2.4			
Information Element	Value/remark	Comment	Condition
Protocol discriminator	EMM		
Security header type	'0000'B	Plain NAS	
		message, not	
		security protected	
Attach request message identity	'0100 0001'B	Attach request	
EPS attach type	'0001'B	EPS attach	EPS_only
	'0010'B	combined	combined_E
		EPS/IMSI attach	PS_IMSI
NAS key set identifier	Any allowed value		
Old GUTI or IMSI	Any allowed value		
UE network capability	Any allowed value		
ESM message container	PDN CONNECTIVITY		
	REQUEST message to		
	request PDN connectivity		
	to the default PDN		
Old P-TMSI signature	Not present or any		
	allowed value		
Additional GUTI	Not present or any		
	allowed value		
Last visited registered TAI	Not present or any		
	allowed value		
DRX parameter	Not present or any		
	allowed value		
MS network capability	Not present or any		
	allowed value		
Old location area identification	Not present or any		
	allowed value		
TMSI status	Not present or any		
	allowed value		
Mobile station classmark 2	Not present or any		
	allowed value		
Mobile station classmark 3	Not present or any		
	allowed value		
Supported Codecs	Not present or any		
	allowed value		
Additional update type	Not present		EPS_only
Additional update type	Not present or any		combined_E
	allowed value		PS_IMSI
Old GUTI type	Not present or any		
	allowed value		

Condition	Explanation	
EPS_only	See the definition below table 4.7.2-1.	
combined_EPS_IMSI	See the definition below table 4.7.2-1.	

NOTE: This message is sent integrity protected when a valid security context exists and without integrity protection otherwise.

- AUTHENTICATION FAILURE

This message is sent by the UE to the SS.

Table 4.7.2-5: AUTHENTICATION FAILURE

Information Element	Value/remark	Comment	Condition
Protocol discriminator	EMM		
Security header type	'0000'B	Plain NAS	
		message, not	
		security protected	
Authentication failure message type	'0101 1100'B	Authentication	
		failure	
EMM cause	'0001 0100'B	Mac failure	
Authentication failure parameter	Not present	See TS 24.301	
·		[28] subclause	
		8.2.5.2	

NOTE: The security protection of this message is the same as the previous AUTHENTICATION REQUEST message.

- AUTHENTICATION REJECT

This message is sent by the SS to the UE.

Table 4.7.2-6: AUTHENTICATION REJECT

Information Element	Value/remark	Comment	Condition
Protocol discriminator	EMM		
Security header type	'0000'B	Plain NAS message, not security protected	
Authentication reject message type	'0101 0100'B	Authentication reject	

NOTE: This message is sent without integrity protection.

AUTHENTICATION REQUEST

This message is sent by the SS to the UE.

Table 4.7.2-7: AUTHENTICATION REQUEST

Derivation Path: 24.301 clause 8.2.7			
Information Element	Value/remark	Comment	Condition
Protocol discriminator	EMM		
Security header type	'0000'B	Plain NAS	
		message, not	
		security protected	
Authentication request message type	'0101 0010'B	Authentication	
		request	
NAS key set identifier _{ASME}			
NAS key set identifier	An arbitrarily selected		
•	value between '000'B and		
	'110'B, different from the		
	valid NAS key set		
	identifier of the UE if		
	such a value exists.		
TSC	'0'B	native security	
		context (for	
		KSI _{ASME})	
Spare half octet	'0000'B	,	
Authentication parameter RAND (EPS challenge)	An arbitrarily selected		
. ,	128 bits value		
Authentication parameter AUTN (EPS challenge)	See TS 24.301 [28]		
. ,	subclause 9.9.3.2		

NOTE: Within a test execution this message is sent without integrity protection before NAS security mode control procedure has been successfully completed; and sent integrity protected and ciphered within SECURITY PROTECTED NAS MESSAGE message after NAS security mode control procedure has been successfully completed. SS does not maintain information for NAS security mode control procedure after a TC is completed.

AUTHENTICATION RESPONSE

This message is sent by the UE to the SS.

Table 4.7.2-8: AUTHENTICATION RESPONSE

Derivation Path: 24.301 clause 8.2.8			
Information Element	Value/remark	Comment	Condition
Protocol discriminator	EMM		
Security header type	'0000'B	Plain NAS	
		message, not	
		security protected	
Authentication response message type	'0101 0011'B	Authentication	
		response	
Authentication response parameter	See TS 24.301 [28]		
	subclause 9.9.3.4		

NOTE: When sent in response to an AUTHENTICATION REQUEST message which is not integrity protected and not ciphered, the AUTHENTICATION RESPONSE message may be sent integrity protected when a valid security context exists and without integrity protection otherwise.

CS SERVICE NOTIFICATION

This message is sent by the SS to the UE.

Table 4.7.2-8A: CS SERVICE NOTIFICATION

Derivation Path: 24.301 clause 8.2.9			
Information Element	Value/remark	Comment	Condition
Protocol discriminator	EMM		
Security header type	'0000'B	Plain NAS message, not security protected	
CS service notification message identity	'01100100'B	CS Service notification	
Paging identity	'1'B	TMSI	
CLÏ	Not present		
SS Code	Not present		
LCS indicator	Not present		
LCS client identity	Not present		

NOTE: This message is always sent within SECURITY PROTECTED NAS MESSAGE message.

DETACH ACCEPT (UE originating detach)

This message is sent by the SS to the UE.

Table 4.7.2-9: DETACH ACCEPT

Derivation Path: 24.301 clause 8.2.10.1			
Information Element	Value/remark	Comment	Condition
Protocol discriminator	EMM		
Security header type	'0000'B	Plain NAS message, not security protected	
Detach accept message identity	'0100 0110'B	Detach accept	

NOTE: This message is sent using the same security protection as in the previous DETACH REQUEST message received from the UE.

DETACH ACCEPT (UE terminated detach)

This message is sent by the UE to the SS.

Table 4.7.2-10: DETACH ACCEPT

Derivation Path: 24.301 clause 8.2.10.2			
Information Element	Value/remark	Comment	Condition
Protocol discriminator	EMM		
Security header type	'0000'B	Plain NAS message, not security protected	
Detach accept message identity	'0100 0110'B	Detach accept	

NOTE: This message is sent without integrity protection before NAS security mode control procedure has been successfully completed and sent within SECURITY PROTECTED NAS MESSAGE message after NAS security mode control procedure has been successfully completed.

- DETACH REQUEST (UE originating detach)

This message is sent by the UE to the SS.

Table 4.7.2-11: DETACH REQUEST

Derivation Path: 24.301 clause 8.2.11.1			
Information Element	Value/remark	Comment	Condition
Protocol discriminator	EMM		
Security header type	'0000'B	Plain NAS	
		message, not security protected	
Detach request message identity	'0100 0101'B	Detach request	
Detach type			
Type of detach	'001'B	EPS detach	EPS_only
	'011'B	combined EPS/IMSI detach	Combined_ EPS_IMSI
Switch off	'1'B	switch off	
NAS key set identifier			
NAS key set identifier	The valid NAS key set identifier.		
TSC	Any Value		
GUTI or IMSI	If the UE has a valid GUTI, set to the GUTI, otherwise set to the IMSI of the UE.		

Condition	Explanation
EPS_only	See the definition below table 4.7.2-1.
Combined_EPS_IMSI	See the definition below table 4.7.2-1.

NOTE: This message is sent with integrity protection before SS has started the ciphering and integrity and ciphered protected after SS has started the ciphering.

DETACH REQUEST (UE terminated detach)

This message is sent by the SS to the UE.

Table 4.7.2-12: DETACH REQUEST

Derivation Path: 24.301 clause 8.2.11.2			
Information Element	Value/remark	Comment	Condition
Protocol discriminator	EMM		
Security header type	'0000'B	Plain NAS message, not security protected	
Detach request message identity	'0100 0101'B	Detach request	
Detach type	Set according to specific message content.		
Spare half octet	'0000'B		
EMM cause	Set according to specific message content.		

DOWNLINK NAS TRANSPORT

This message is sent by the SS to the UE.

Table 4.7.2-12A: DOWNLINK NAS TRANSPORT

Derivation Path: 24.301 clause 8.2.12			
Information Element	Value/remark	Comment	Condition
Protocol discriminator	EMM		
Security header type	'0000'B	Plain NAS	
		message, not	
		security protected	
Downlink NAS transport message identity	'0110 0010'B	Downlink NAS	
		transport	
NAS message container	Set according to specific		
-	message content		

NOTE: This message is always sent within SECURITY PROTECTED NAS MESSAGE message.

- EMM INFORMATION

This message is sent by the SS to the UE.

Table 4.7.2-13: EMM INFORMATION

Derivation Path: 24.301 clause 8.2.13	M.L. dans I	1 0	0 1111
Information Element	Value/remark	Comment	Condition
Protocol discriminator	EMM		
Security header type	'0000'B	Plain NAS	
		message, not	
		security protected	
EMM information message identity	'0110 0001'B	EMM information	
Full name for network	Set according to specific		
	message content.		
Short name for network	Set according to specific		
	message content.		
Local time zone	Set according to specific		
	message content.		
Universal time and local time zone	Set according to specific		
	message content.		
Network daylight saving time	Set according to specific		
	message content.		

NOTE: This message is always sent within SECURITY PROTECTED NAS MESSAGE message.

- EMM STATUS

This message is sent by the UE or by the SS.

Table 4.7.2-14: EMM STATUS

Derivation Path: 24.301 clause 8.2.14			
Information Element	Value/remark	Comment	Condition
Protocol discriminator	EMM		
Security header type	'0000'B	Plain NAS	
		message, not security protected	
EMM status message identity	'0110 0000'B	EMM status	
EMM cause	Set according to specific		
	message content.		

EXTENDED SERVICE REQUEST

This message is sent by the UE to the SS.

Table 4.7.2-14A: EXTENDED SERVICE REQUEST

Derivation Path: 24.301 clause 8.2.15			
Information Element	Value/remark	Comment	Condition
Protocol discriminator	EMM		
Security header type	'0000'B	Plain NAS message, not security protected	
Extended service request message identity	'0100 1100'B	Extended service request	
Service type	'0001'B	mobile terminating CS fallback or 1xCS fallback	
NAS key set identifier			
NAS key set identifier	The valid NAS key set identifier.		
TSC	'0'B	native security context (for KSI _{ASME})	
M-TMSI	If the UE has a valid M- TMSI, set to the M-TMSI, otherwise set to the IMSI of the UE.		
CSFB response	'001'B	CS fallback accepted by the UE	

NOTE: This message is always sent within SECURITY PROTECTED NAS MESSAGE message.

GUTI REALLOCATION COMMAND

This message is sent by the SS to the UE.

Table 4.7.2-15: GUTI REALLOCATION COMMAND

Information Element	Value/remark	Comment	Condition
Protocol discriminator	EMM		
Security header type	'0000'B	Plain NAS message, not security protected	
GUTI reallocation command message identity	'0101 0000'B	GUTI reallocation command	
GUTI	Set according to specific message content.		
TAI list	Set according to specific message content.		

GUTI REALLOCATION COMPLETE

This message is sent by the UE to the SS.

Table 4.7.2-16: GUTI REALLOCATION COMPLETE

Information Element	Value/remark	Comment	Condition
Protocol discriminator	EMM		
Security header type	'0000'B	Plain NAS message, not security protected	
GUTI reallocation complete message identity	'0101 0001'B	GUTI reallocation complete	

NOTE: This message is always sent within SECURITY PROTECTED NAS MESSAGE message.

IDENTITY REQUEST

This message is sent by the SS to the UE.

Table 4.7.2-17: IDENTITY REQUEST

Information Element	Value/remark	Comment	Condition
Protocol discriminator	EMM		
Security header type	'0000'B	Plain NAS message, not security protected	
Identity request message identity	'0101 0101'B	Identity request	
Identity type	'0001'B	IMSI	
Spare half octet	'0000'B		

NOTE: This message is sent without integrity protection before NAS security mode control procedure has been successfully completed and sent within SECURITY PROTECTED NAS MESSAGE message after NAS security mode control procedure has been successfully completed.

IDENTITY RESPONSE

This message is sent by the UE to the SS.

Table 4.7.2-18: IDENTITY RESPONSE

Derivation Path: 24.301 clause 8.2.19			
Information Element	Value/remark	Comment	Condition
Protocol discriminator	EMM		
Security header type	'0000'B	Plain NAS message, not security protected	
Identity response message	'0101 0110'B	Identity response	
Mobile identity	IMSI of the UE		

NOTE: This message is sent without integrity protection before NAS security mode control procedure has been successfully completed and sent within SECURITY PROTECTED NAS MESSAGE message after NAS security mode control procedure has been successfully completed.

- SECURITY MODE COMMAND

This message is sent by the SS to the UE.

Table 4.7.2-19: SECURITY MODE COMMAND

Derivation Path: 24.301 clause 8.2.20		_	
Information Element	Value/remark	Comment	Condition
Protocol discriminator	EMM		
Security header type	'0000'B	Plain NAS message, not security protected	
Security mode command message identity	'0101 1101'B	Security mode command	
Selected NAS security algorithms			
Type of integrity protection algorithm	Set according to PIXIT parameter for default integrity protection algorithm		For SIG
	0(reserved or eia0)	This IE is set to one of the algorithms	For RF
	eia1	supported by the UE as indicated in the IE "UE network capability" in the	
	eia2	ATTACH REQUEST message.	
Type of ciphering algorithm	Set according to PIXIT parameter for default ciphering algorithm		For SIG
	eea0		For RF
NAS key set identifier			
NAS key set identifier	The valid NAS key set identifier.		
TSC	'0'B	native security context (for KSI _{ASME})	
Spare half octet	'0000'B		
Replayed UE security capabilities	Set according to the received UE security capabilities		
IMEISV request	Not present		
Replayed nonce _{UE}	Not present		
Nonce _{MME}	Not present		<u> </u>

Condition	Explanation	
For SIG	Used for signalling test cases	
For RF	Used for RF/RRM test cases	

NOTE: This message is always sent integrity protected with new EPS security context.

- SECURITY MODE COMPLETE

This message is sent by the UE to the SS.

Table 4.7.2-20: SECURITY MODE COMPLETE

Derivation Path: 24.301 clause 8.2.21 Information Element	Value/remark	Comment	Condition
Protocol discriminator	EMM		
Security header type	'0000'B	Plain NAS message, not security protected	
Security mode complete message identity	'0101 1110'B	Security mode complete	
IMEISV	Not present		

NOTE: This message is always sent within SECURITY PROTECTED NAS MESSAGE message with new EPS security context.

SECURITY MODE REJECT

This message is sent by the UE to the SS.

Table 4.7.2-21: SECURITY MODE REJECT

Information Element	Value/remark	Comment	Condition
Protocol discriminator	EMM		
Security header type	'0000'B	Plain NAS message, not security protected	
Security mode reject message identity	'0101 1111'B	Security mode reject	
EMM cause	The value is set according to specific message content.		

NOTE: This message is sent without integrity protection before NAS security mode control procedure has been successfully completed and sent within SECURITY PROTECTED NAS MESSAGE message after NAS security mode control procedure has been successfully completed.

SERVICE REJECT

This message is sent by the SS to the UE.

Table 4.7.2-22: SERVICE REJECT

Information Element	Value/remark	Comment	Condition
Protocol discriminator	EMM		
Security header type	'0000'B	Plain NAS message, not security protected	
Service reject message identity	'0100 1110'B	Service reject	
EMM cause	Set according to specific message content.		
T3442 value	Not present		

NOTE: If this message includes the EMM cause set to #25, it is sent within SECURITY PROTECTED NAS MESSAGE message. Otherwise this message is sent without integrity protection.

SERVICE REQUEST

This message is sent by the UE to the SS.

Table 4.7.2-23: SERVICE REQUEST

Derivation Path: 24.301 clause 8.2.25			
Information Element	Value/remark	Comment	Condition
Protocol discriminator	EMM		
Security header type	'1100'B	Security header for the SERVICE REQUEST message	
KSI and sequence number			
Sequence number (short)	The 5 least significant bits of the NAS COUNT value applicable when this message is sent for sequence number.		
KSI	The effective KSI value.		
Message authentication code (short)	The 2 least significant octets of the resulting message authentication code		

- TRACKING AREA UPDATE ACCEPT

This message is sent by the SS to the UE.

Table 4.7.2-24: TRACKING AREA UPDATE ACCEPT

Derivation Path: 24.301 clause 8.2.26			
Information Element	Value/remark	Comment	Condition
Protocol discriminator	EMM		
Security header type	'0000'B	Plain NAS	
		message, not	
		security protected	
Tracking area update accept message identity	'0100 1001'B	Tracking area	
		update accept	
EPS update result	'0000'B	TA updated	TA_only
	'0001'B	combined TA/LA	combined_T
		updated	A_LA
Spare half octet	'0000'B		
T3412 value	Not present		Periodic
T3412 value			
Timer value	'0 0000'B		
Unit	'111'B	value indicates	
		that the timer is	
		deactivated.	
GUTI			
Length of EPS mobile identity contents	'0000 1011'B	11 octets	
Type of identity	'110'B	GUTI	
Odd/even indication	'0'B	even number of	
		identity digits and	
		also when the	
		GUTI is used	
MCC	See table 4.4.2-2 in this	For NAS test	
	document	cases, see table	
		6.3.2.2-1.	
MNC	See table 4.4.2-2 in this	For NAS test	
	document	cases, see table	
		6.3.2.2-1.	
MME Group ID	See table 4.4.2-2 in this	For NAS test	
	document	cases, see table	
		6.3.2.2-1.	
MME Code	See table 4.4.2-2 in this	For NAS test	

	dogument	annon non table	
	document	cases, see table 6.3.2.2-1.	
M-TMSI	See table 4.4.2-2 in this	For NAS test	
101-110101	document	cases, see table	
	decament	6.3.2.2-1.	
TAI list			
Length of tracking area identity list contents	'0000 0110'B	6 octets	
Partial tracking area identity list 1			
Number of elements	'0 0000'B	1 element	
Type of list	'00'B	list of TACs	
		belonging to one	
		PLMN, with non- consecutive TAC	
		values	
MCC	See table 4.4.2-2 in this	For NAS test	
	document	cases, see table	
		6.3.2.2-1.	
MNC	See table 4.4.2-2 in this	For NAS test	
	document	cases, see table	
		6.3.2.2-1.	
TAC 1	See table 4.4.2-2 in this	For NAS test	
	document	cases, see table	
EPS bearer context status	The same value as the	6.3.2.2-1.	
Li o bearer context status	value set in TRACKING		
	AREA UPDATE		
	REQUEST message		
Location area identification	Not present		TA_only
Location area identification			combined_T
MCC	MCC of the EUTRA cell		A_LA
	from which this message		
MNC	is sent MCC of the EUTRA cell		
WINC	from which this message		
	is sent		
LAC	1		
MS identity	Not present		TA_only
MS identity	•		combined_T
Length of mobile identity contents	'0000 0101'B	5 octets	A_LA
Type of identity	'100'B	TMSI/P-TMSI/M-	
		TMSI	
Odd/even indication	'0'B	even number of	
		identity digits and also when the	
		TMSI/P-TMSI or	
		TMGI and optional	
		MBMS Session	
		Identity is used	
TMSI	TMSI-1		
EMM cause	Not present		
T3402 value	Not present		
T3423 value	Not present		
Equivalent PLMNs	Not present		
Emergency number list EPS network feature support	Not present 0000 0001'B	IMS voice over PS	
EFS Helwork leature support	0000 0001 B	session in S1	
		mode supported	
Additional update result	Not present		
Additional update result	'10' B	"SMS only"	TAU_additio
			nal_update_
			result_SMS
T3412 extended value	Not present		Rel-10

Condition	Explanation

TA_only	This condition applies if the UE is configured to initiate EPS attach or
	if explicitly specified.
combined_TA_LA	This condition applies if the UE is configured to initiate combined
	EPS/IMSI attach or if explicitly specified.
Periodic	This condition applies if in the last TRACKING AREA UPDATE
	REQUEST sent prior to this message, the EPS update type Value =
	'011'B (periodic updating).
TAU_additional_update_result_SMS	If the UE requested "SMS only" in the Additional update type IE and
	combined_TA_LA.

NOTE: This message is always sent within SECURITY PROTECTED NAS MESSAGE message.

TRACKING AREA UPDATE COMPLETE

This message is sent by the UE to the SS.

Table 4.7.2-25: TRACKING AREA UPDATE COMPLETE

Information Element	Value/remark	Comment	Condition
Protocol discriminator	EMM		
Security header type	'0000'B	Plain NAS message, not security protected	
Tracking area update complete message identity	'0100 1010'B	Tracking area update complete	

NOTE: This message is always sent within SECURITY PROTECTED NAS MESSAGE message.

TRACKING AREA UPDATE REJECT

This message is sent by the SS to the UE.

Table 4.7.2-26: TRACKING AREA UPDATE REJECT

Information Element	Value/remark	Comment	Condition
Protocol discriminator	EMM		
Security header type	'0000'B	Plain NAS message, not security protected	
Tracking area update reject message identity	'0100 1011'B	Tracking area update reject	
EMM cause	Set according to specific message content.		

NOTE: If this message includes the EMM cause set to #25, it is sent within SECURITY PROTECTED NAS MESSAGE message. Otherwise this message is sent without integrity protection.

- TRACKING AREA UPDATE REQUEST

This message is sent by the UE to the SS.

Table 4.7.2-27: TRACKING AREA UPDATE REQUEST

Derivation Path: 24.301 clause 8.2.29			
Information Element	Value/remark	Comment	Condition
Protocol discriminator	EMM		
Security header type	'0000'B	Plain NAS	
		message, not	
		security protected	
Tracking area update request message identity	'0100 1000'B	Tracking area	
		update request	
EPS update type			
EPS update type Value	'000'B	TA updating	TA_only
	'001'B	Combined TA/LA	combined_T
		updating	A_LA
"Active" flag	'0'B	No bearer	
		establishment	
		requested	
NAS key set identifier			
NAS key set identifier	The valid NAS key set		
	identifier of the UE		
TSC	'0'B	native security	
		context (for	
		KSI _{ASME})	
Old GUTI	Any allowed value		
Non-current native NAS key set identifier	Not present		
GPRS ciphering key sequence number	Not present		
Old P-TMSI signature	Not present		
Additional GUTI	Not present		
Nonce _{UE}	Not present		
UE network capability	Not present or any		
	allowed value		
Last visited registered TAI	Not present or any		
	allowed value		
DRX parameter	Not present or any		
	allowed value		
UE radio capability information update needed	Not present or any		
	allowed value		
EPS bearer context status	Not present or (octet 3 =		
	'00100000'B and octet 4		
	= '00000000'B)		
MS network capability	Not present or any		
	allowed value		
Old location area identification	Not present or any		
T. 101	allowed value		
TMSI status	Not present or any		
MIN COLL TO	allowed value		
Mobile station classmark 2	Not present or any		
Mahila station alegements 0	allowed value		
Mobile station classmark 3	Not present or any		
Cupported Codese	allowed value		
Supported Codecs	Not present or any allowed value		
Additional undata type	Not present		TA_only
Additional update type			combined_T
Additional update type	Not present or any allowed value		A LA
Old GUTI type	Not present or any		A_LA
Old GOTT type	allowed value		
	allowed value	1	

	Condition	Explanation
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TA_only	See the definition below table 4.7.2-24.
combined_TA_LA	See the definition below table 4.7.2-24.

NOTE: This message is always sent within SECURITY PROTECTED NAS MESSAGE message.

UPLINK NAS TRANSPORT

This message is sent by the UE to the SS.

Table 4.7.2-27A: UPLINK NAS TRANSPORT

Information Element	Value/remark	Comment	Condition
Protocol discriminator	EMM		
Security header type	'0000'B	Plain NAS message, not security protected	
Uplink NAS transport message identity	'0100 0011'B	Uplink NAS transport	
NAS message container	Set according to specific message content		

NOTE: This message is always sent within SECURITY PROTECTED NAS MESSAGE message.

4.7.3 Contents of ESM messages

- ACTIVATE DEDICATED EPS BEARER CONTEXT ACCEPT

This message is sent by the UE to the SS.

Table 4.7.3-1: ACTIVATE DEDICATED EPS BEARER CONTEXT ACCEPT

Derivation Path: 24.301 clause 8.3.1			
Information Element	Value/remark	Comment	Condition
Protocol discriminator	ESM		
EPS bearer identity	The same value as the value set in ACTIVATE DEDICATED EPS BEARER CONTEXT REQUEST message		
Procedure transaction identity	'0000 0000'B	No procedure transaction identity assigned	
Activate dedicated EPS bearer context accept message identity	'1100 0110'B	Activate dedicated EPS bearer context accept	
Protocol configuration options	Not present or any allowed value		

- ACTIVATE DEDICATED EPS BEARER CONTEXT REJECT

This message is sent by UE to the SS.

Table 4.7.3-2: ACTIVATE DEDICATED EPS BEARER CONTEXT REJECT

Derivation Path: 24.301 clause 8.3.2	Not of the second	1 0	0 1111
Information Element	Value/remark	Comment	Condition
Protocol discriminator	ESM		
EPS bearer identity	The same value as the value set in ACTIVATE DEDICATED EPS BEARER CONTEXT REQUEST message.		
Procedure transaction identity	'0000 0000'B	No procedure transaction identity assigned	
Activate dedicated EPS bearer context reject message identity	'1100 0111'B	Activate dedicated EPS bearer context reject	
ESM cause	The value is set according to specific message content.		
Protocol configuration options	Not present		

ACTIVATE DEDICATED EPS BEARER CONTEXT REQUEST

This message is sent by the SS to the UE.

Table 4.7.3-3: ACTIVATE DEDICATED EPS BEARER CONTEXT REQUEST

Derivation Path: 24.301 clause 8.3.3			
Information Element	Value/remark	Comment	Condition
Protocol discriminator	ESM		
EPS bearer identity	Arbitrarily selected value		
	between '0101'B and		
	'1111'B.		
Procedure transaction identity	'0000 0000'B	No procedure	NETWORK-
		transaction	INITIATED
	The common the control of the	identity assigned	
	The same value as the		UE- INITIATED
	value set in BEARER RESOURCE		INITIATED
	MODIFICATION		
	REQUEST message or		
	BEARER RESOURCE		
	ALLOCATION		
	REQUEST message		
Activate dedicated EPS bearer context request	'1100 0101'B	Activate dedicated	
message identity		EPS bearer	
5 ,		context request	
Linked EPS bearer identity	The EPS bearer identity		
	of the associated default		
	bearer		
Spare half octet	'0000'B		
EPS QoS	See Reference dedicated		
	EPS bearer context #1 in		
	table 6.6.2-1		
TFT	See Reference dedicated		
	EPS bearer context #1 in		
Transaction identifier	table 6.6.2-1		
Transaction identifier	Not present Distinct value between 0		pc_UTRAN
	and 127 calculated on		AND/OR
	basis of the EPS bearer		pc_GERAN
	identity.		po_OLIVIII
Negotiated QoS	See Reference dedicated		
g	EPS bearer context #1 in		
	table 6.6.2-1		
Negotiated LLC SAPI	See Reference dedicated		
-	EPS bearer context #1 in		
	table 6.6.2-1		
Radio priority	See Reference dedicated		
	EPS bearer context #1 in		
	table 6.6.2-1		
Packet flow Identifier	Not present	5 "	0==
	'0000 0000'B	Best Effort	pc_GERAN
Protocol configuration options	See Reference dedicated		
	EPS bearer context #1 in		
	table 6.6.2-1		

Condition	Explanation
NETWORK-INITIATED	Network initiated ESM procedures
UE-INITIATED	UE initiated ESM procedures

ACTIVATE DEFAULT EPS BEARER CONTEXT ACCEPT

This message is sent by the UE to the SS.

Table 4.7.3-4: ACTIVATE DEFAULT EPS BEARER CONTEXT ACCEPT

Derivation Path: 24.301 clause 8.3.4			
Information Element	Value/remark	Comment	Condition
Protocol discriminator	ESM		
EPS bearer identity	The same value as the value set in ACTIVATE DEFAULT EPS BEARER CONTEXT REQUEST message		
Procedure transaction identity	'0000 0000'B	No procedure transaction identity assigned	
Activate default EPS bearer context accept message identity	'1100 0010'B	Activate default EPS bearer context accept	
Protocol configuration options	Not present or any allowed value		

NOTE: This message is always sent within SECURITY PROTECTED NAS MESSAGE message.

ACTIVATE DEFAULT EPS BEARER CONTEXT REJECT

This message is sent by UE to the SS.

Table 4.7.3-5: ACTIVATE DEFAULT EPS BEARER CONTEXT REJECT

Information Element	Value/remark	Comment	Condition
Protocol discriminator	ESM		
EPS bearer identity	The same value as the value set in ACTIVATE DEFAULT EPS BEARER CONTEXT REQUEST message.		
Procedure transaction identity	'0000 0000'B	No procedure transaction identity assigned	
Activate default EPS bearer context reject message identity	'1100 0011'B	Activate default EPS bearer context reject	
ESM cause	The value is set according to specific message content.		
Protocol configuration options	Not present		

NOTE: This message is always sent within SECURITY PROTECTED NAS MESSAGE message.

ACTIVATE DEFAULT EPS BEARER CONTEXT REQUEST

This message is sent by the SS to the UE.

Table 4.7.3-6: ACTIVATE DEFAULT EPS BEARER CONTEXT REQUEST

Derivation Path: 24.301 clause 8.3.6			
Information Element	Value/remark	Comment	Condition
Protocol discriminator	ESM		
EPS bearer identity	An arbitrarily selected value between '0101'B		

	and '1111'B.		
Procedure transaction identity	The same value as the value set in the latest PDN CONNECTIVITY		
	REQUEST message sent		
Activate default EPS bearer context request message identity	prior to this message. '1100 0001'B	Activate default EPS bearer	
EPS QoS	See Reference default	context request	NOT
EF3 Q03	EPS bearer context #1 in table 6.6.1-1		IMS_PDN_ ConnEstab
EPS QoS	See Reference default EPS bearer context #2 in table 6.6.1-1		IMS_PDN_ ConnEstab
Access point name	The SS defines a Default APN		NOT IMS_PDN_ ConnEstab AND NOT APN_Provid ed
Access point name	APN as provided in ESM INFORMATION RESPONSE or PDN CONNECTIVITY REQUEST		NOT IMS_PDN_ ConnEstab AND APN_Provid ed
Access point name	IMS. apn.epc.mnc <mnc>.mcc <mcc>.3gppnetwork.org The <mnc> and <mcc> are set to the same values as in IMSI.</mcc></mnc></mcc></mnc>		IMS_PDN_ ConnEstab AND NOT APN_Provid ed
Access point name	Use APN Network Identifier provided in ESM INFORMATION RESPONSE or PDN CONNECTIVITY REQUEST message and the APN Operator Identifier mnc <mnc>.mcc<mcc>. 3gppnetwork.org. The <mnc> and <mcc> are set to the same values as in IMSI.</mcc></mnc></mcc></mnc>		IMS_PDN_ ConnEstab AND APN_Provid ed
PDN address	III IIVIOI.		IPv4
Length of PDN address contents	5 octets		
PDN type value	'001'B	IPv4	
PDN address information	IPv4 address	The SS provides a valid IPv4 address	NOT IPv4- DHCP
	0.0.0.0	DHCPv4 is to be used to allocate the IPv4 address	IPv4-DHCP
PDN address			IPv6
Length of PDN address contents	9 octets	ID. C	
PDN type value PDN address information	'010'B IPv6 interface identifier	The SS provides a valid IPv6 interface identifier	
PDN address			IPv4v6
Length of PDN address contents	13 octets		
PDN type value	'011'B	IPv4v6	
PDN address information (Octets 4 to 11)	IPv6 interface identifier	The SS provides a valid IPv6 interface identifier	
PDN address information (Octets 12 to 15)	IPv4 address	The SS provides a	NOT IPv4-

		valid IPv4 address	DHCP
	0.0.0.0	DHCPv4 is to be used to allocate the IPv4 address	IPv4-DHCP
Transaction identifier	Not present		
	Distinct value between 0 and 127 calculated on basis of the EPS bearer identity.		pc_UTRAN AND/OR pc_GERAN
Negotiated QoS	See Reference default EPS bearer context #1 in table 6.6.1-1		
Negotiated LLC SAPI	See Reference default EPS bearer context #1 in table 6.6.1-1		
Radio priority	See Reference default EPS bearer context #1 in table 6.6.1-1		
Packet flow Identifier	Not present		
APN-AMBR	'0000 0000'B See Reference default EPS bearer context #1 in table 6.6.1-1	Best Effort	pc_GERAN
ESM cause	Not present		
Protocol configuration options			
Configuration protocol	See Reference default EPS bearer context #1 in table 6.6.1-1		
Container ID 1	'0001'H		P-CSCF IPv6
Length of container ID 1 contents		Length value determined by the TTCN implementation	
Container ID 1 contents	IPv6 address	P-CSCF IPv6 Address	
Container ID 2	'000C'H		P-CSCF IPv4
Length of container ID 2 contents		Length value determined by the TTCN implementation	
Container ID 2 contents	IPv4 address	P-CSCF IPv4 Address	
Container ID n	'0003'H	n assigned to next available number	DNS IPv6
Length of container ID n contents		Length value determined by the TTCN implementation	
Container ID n contents	IPv6 address	DNS IPv6 Address	1
Container ID n+1	'000D'H	n assigned to next available number	DNS IPv4
Length of container ID n+1 contents		Length value determined by the TTCN implementation	
Container ID n+1 contents	IPv4 address	DNS IPv4 Address	
WLAN offload indication	Not present)A/I A N I
WLAN offload indication WLAN offload acceptability	'0001'B	Offloading the traffic of the PDN connection via a WLAN when in S1 mode is	WLAN

	acceptable	

Condition	Explanation
IPv4	If in the last PDN CONNECTIVITY REQUEST sent prior to this message, the PDN type = '001'B
IPv6	If in the last PDN CONNECTIVITY REQUEST sent prior to this message, the PDN type = '010'B
IPv4v6	If in the last PDN CONNECTIVITY REQUEST sent prior to this message, the PDN type = '011'B
IPv4-DHCP	If in the last PDN CONNECTIVITY REQUEST or ESM INFORMATION RESPONSE sent prior to this message, the IE Protocol configuration options contains a configuration protocol option = '000B00H' ("IPv4 address allocation via DHCPv4", length of contents = 0). Note 1: This condition is used in conjunction with IPv4 or IPv4v6 as indicated in the "PDN
	address row" just above. Note 2: If both messages, PDN CONNECTIVITY REQUEST and ESM INFORMATION RESPONSE, are received and contain a Protocol configuration options IE then the IE from the message which is received later shall be used.
P-CSCF IPv6	If in the last PDN CONNECTIVITY REQUEST or ESM INFORMATION RESPONSE sent prior to this message, the Protocol configuration options and the additional parameter list was included with a "P-CSCF IPv6 Address Request"
	Note 1: This condition is only applicable for UEs with IMS support (TS 36.523-2 A.4.4-1/25). Note 2: If both messages, PDN CONNECTIVITY REQUEST and ESM INFORMATION
	RESPONSE, are received and contain a Protocol configuration options IE then the IE from the message which is received later shall be used.
P-CSCF IPv4	If in the last PDN CONNECTIVITY REQUEST or ESM INFORMATION RESPONSE sent prior to this message, the Protocol configuration options and the additional parameter list was included with a "P-CSCF IPv4 Address Request"
	Note 1: This condition is only applicable for UEs with IMS support (TS 36.523-2 A.4.4-1/25).
	Note 2: If both messages, PDN CONNECTIVITY REQUEST and ESM INFORMATION RESPONSE, are received and contain a Protocol configuration options IE then the IE from the message which is received later shall be used.
DNS IPv6	If in the last PDN CONNECTIVITY REQUEST or ESM INFORMATION RESPONSE sent prior to this message, the Protocol configuration options and the additional parameter list was included with a "DNS IPv6 Address Request".
	Note: If both messages, PDN CONNECTIVITY REQUEST and ESM INFORMATION RESPONSE, are received and contain a Protocol configuration options IE then the IE from the message which is received later shall be used.
DNS IPv4	If in the last PDN CONNECTIVITY REQUEST or ESM INFORMATION RESPONSE sent prior to this message, the Protocol configuration options and the additional parameter list was included with a "DNS IPv4 Address Request".
	Note: If both messages, PDN CONNECTIVITY REQUEST and ESM INFORMATION RESPONSE, are received and contain a Protocol configuration options IE then the IE from the message which is received later shall be used.
APN_Provided	If in the last PDN CONNECTIVITY REQUEST or ESM INFORMATION RESPONSE sent prior to this message an Access Point Name was included NOTE: APN_Provided is equivalent to pc_Provide_IMS_APN for establishment of the first PDN connectivity during initial registration and if the first PDN is IMS (see table 4.7.3-14)
IMS_PDN_ConnEstab	If this message refers to establishment of connectivity to the IMS PDN (only applicable if the UE supports IMS according to TS 36.523-2 A.4.4-1/25).
WLAN	If the message is being sent for RAN Assisted WLAN interworking.

BEARER RESOURCE ALLOCATION REJECT

This message is sent by the SS to the UE.

Table 4.7.3-6A: BEARER RESOURCE ALLOCATION REJECT

Information Element	Value/remark	Comment	Condition
Protocol discriminator	ESM		
EPS bearer identity	'0000'B	No EPS bearer identity assigned	
Procedure transaction identity	The value indicated in BEARER RESOURCE ALLOCATION REQUEST message.		
Bearer resource allocation reject message identity	'1101 0101'B	Bearer resource allocation reject	
ESM cause	Set according to specific message content.		
Protocol configuration options	Not present		

NOTE: This message is always sent within SECURITY PROTECTED NAS MESSAGE message.

- BEARER RESOURCE ALLOCATION REQUEST

This message is sent by the UE to the SS.

Table 4.7.3-6B: BEARER RESOURCE ALLOCATION REQUEST

Information Element	Value/remark	Comment	Condition
Protocol discriminator	ESM		
EPS bearer identity	'0000'B	No EPS bearer identity assigned	
Procedure transaction identity	Any value from 1 to 254		
Bearer resource allocation request message identity	'1101 0100'B	Bearer resource allocation request	
Linked EPS bearer identity	The EPS bearer identity of the associated default bearer.		
Spare half octet	'0000'B		
Traffic flow aggregate			
Number of packet filters	Greater than 0 and less than or equal to 16		
E bit	Any allowed value		
TFT operation code	'001'B	Create new TFT	
Packet filter list	Any allowed value		
Parameters list	Not present or any		
	allowed value		
Required traffic flow QoS	Any allowed value		
Protocol configuration options	Not present or any allowed value		

BEARER RESOURCE MODIFICATION REJECT

This message is sent by the SS to the UE.

Table 4.7.3-7: BEARER RESOURCE MODIFICATION REJECT

Information Element	Value/remark	Comment	Condition
Protocol discriminator	ESM		
EPS bearer identity	'0000'B	No EPS bearer identity assigned	
Procedure transaction identity	The value indicated in BEARER RESOURCE MODIFICATION REQUEST message.		
Bearer resource modification reject message identity	'1101 0111'B	Bearer resource modification reject	
ESM cause	Set according to specific message content.	•	
Protocol configuration options	Not present		

NOTE: This message is always sent within SECURITY PROTECTED NAS MESSAGE message.

- BEARER RESOURCE MODIFICATION REQUEST

This message is sent by the UE to the SS.

Table 4.7.3-8: BEARER RESOURCE MODIFICATION REQUEST

Derivation Path: 24.301 clause 8.3.10			
Information Element	Value/remark	Comment	Condition
Protocol discriminator	ESM		
EPS bearer identity	'0000'B	No EPS bearer identity assigned	
Procedure transaction identity	Any value from 1 to 254		
Bearer resource modification request message identity	'1101 0110'B	Bearer resource modification request	
EPS bearer identity for packet filter	The EPS bearer identity of the associated dedicated EPS bearer related with packet filter.		
Spare half octet	'0000'B		
Traffic flow aggregate	Any allowed value		
Traffic flow aggregate			RELEASE-
Number of packet filters	Greater than 0 and less than or equal to 16		REQUESTE D
E bit	Any allowed value		1
TFT operation code	'101'B	Delete packet filters from existing TFT	
Packet filter list	Any allowed value		
Parameters list	Not present or any allowed value		
Required traffic flow QoS	Not present or any allowed value		
ESM cause	Not present		
	'0010 0100'B	Regular deactivation	RELEASE- REQUESTE D
Protocol configuration options	Not present or any allowed value		

Condition	Explanation
RELEASE-REQUESTED	UE requests the release of bearer resources.

NOTE: This message is always sent within SECURITY PROTECTED NAS MESSAGE message.

Table 4.7.3-9: (Void)

Table 4.7.3-10: (Void)

DEACTIVATE EPS BEARER CONTEXT ACCEPT

This message is sent by the UE to the SS.

Table 4.7.3-11: DEACTIVATE EPS BEARER CONTEXT ACCEPT

Derivation Path: 24.301 clause 8.3.9			
Information Element	Value/remark	Comment	Condition
Protocol discriminator	ESM		
EPS bearer identity	The same value as the		
	value set in		
	DEACTIVATE EPS		
	BEARER CONTEXT		
	REQUEST message.		
Procedure transaction identity	'0000 0000'B	No procedure	
·		transaction	
		identity assigned	
Deactivate EPS bearer context accept message	'1100 1110'B	Deactivate EPS	
identity		bearer context	
•		accept	
Protocol configuration options	Not present or any		
	allowed value		

NOTE: This message is always sent within SECURITY PROTECTED NAS MESSAGE message.

DEACTIVATE EPS BEARER CONTEXT REQUEST

This message is sent by the SS to the UE.

Table 4.7.3-12: DEACTIVATE EPS BEARER CONTEXT REQUEST

Derivation Path: 24.301 clause 8.3.10			
Information Element	Value/remark	Comment	Condition
Protocol discriminator	ESM		
EPS bearer identity	Set according to specific message content.		
Procedure transaction identity	'0000 0000'B	No procedure transaction identity assigned	NETWORK- INITIATED
	The same value as the value set in PDN DISCONNECT REQUEST message or BEARER RESOURCE MODIFICATION REQUEST message.		UE- INITIATED
Deactivate EPS bearer context request message identity	'1100 1101'B	Deactivate EPS bearer context request	
ESM cause	Set according to specific message content.		
Protocol configuration options	Not present		

Condition	Explanation
NETWORK-INITIATED	Network initiated ESM procedures
UE-INITIATED	UE initiated ESM procedures

NOTE: This message is always sent within SECURITY PROTECTED NAS MESSAGE message.

ESM INFORMATION REQUEST

This message is sent by the SS to the UE.

Table 4.7.3-13: ESM INFORMATION REQUEST

Information Element	Value/remark	Comment	Condition
Protocol discriminator	ESM		
EPS bearer identity	'0000'B	No EPS bearer identity assigned	
Procedure transaction identity	The value indicated in PDN CONNECTIVITY REQUEST message.		
ESM information request message identity	'1101 1001'B	ESM information request	

NOTE: This message is always sent within SECURITY PROTECTED NAS MESSAGE message.

- ESM INFORMATION RESPONSE

This message is sent by the UE to the SS.

Table 4.7.3-14: ESM INFORMATION RESPONSE

Derivation Path: 24.301 clause 8.3.12			
Information Element	Value/remark	Comment	Condition
Protocol discriminator	ESM		
EPS bearer identity	'0000'B	No EPS bearer identity assigned	
Procedure transaction identity	The same value as the value set in ESM INFORMATION REQUEST message.		
ESM information response message identity	'1101 1010'B	ESM information response	
Access point name	Not present or any allowed value		Internet_AP N
Access point name	Not present		IMS_APN_D efault
Access point name	Any allowed value		IMS_APN_P rovided
Protocol configuration options	Not present or any allowed value		

Condition	Expression	Explanation
IMS_APN_Provided	pc_IMS AND	IMS APN shall be provided by the UE:
	NOT pc_Provide_IMS_as_second_APN AND	
	pc_Provide_IMS_APN	
IMS_APN_Default	pc_IMS AND	No IMS APN shall be provided by the UE;
	NOT pc_Provide_IMS_as_second_APN AND	IMS APN is default APN
	NOT pc_Provide_IMS_APN	
Internet_APN	NOT pc_IMS OR	
	pc_Provide_IMS_as_second_APN	

- ESM STATUS

This message is sent by the UE or by the SS.

Table 4.7.3-15: ESM STATUS

Information Element	Value/remark	Comment	Condition
Protocol discriminator	ESM		
EPS bearer identity	Set according to specific		
	message content.		
Procedure transaction identity	'0000 0000'B	No procedure	
		transaction	
		identity assigned	
ESM status message identity	'1110 1000'B	ESM status	
ESM cause	Set according to specific		
	message content.		

NOTE: This message is always sent within SECURITY PROTECTED NAS MESSAGE message.

MODIFY EPS BEARER CONTEXT ACCEPT

This message is sent by the UE to the SS.

Table 4.7.3-16: MODIFY EPS BEARER CONTEXT ACCEPT

Derivation Path: 24.301 clause 8.3.14			
Information Element	Value/remark	Comment	Condition
Protocol discriminator	ESM		
EPS bearer identity	The same value as the value set in MODIFY EPS BEARER CONTEXT REQUEST message.		
Procedure transaction identity	'0000 0000'B	No procedure transaction identity assigned	
Modify EPS bearer context accept message identity	'1100 1010'B	Modify EPS bearer context accept	
Protocol configuration options	Not present or any allowed value		

MODIFY EPS BEARER CONTEXT REJECT

This message is sent by the UE to the SS.

Table 4.7.3-17: MODIFY EPS BEARER CONTEXT REJECT

Derivation Path: 24.301 clause 8.3.15			
Information Element	Value/remark	Comment	Condition
Protocol discriminator	ESM		
EPS bearer identity	The same value as the value set in MODIFY EPS BEARER CONTEXT REQUEST message.		
Procedure transaction identity	'0000 0000'B	No procedure transaction identity assigned	
Modify EPS bearer context reject message identity	'1100 1011'B	Modify EPS bearer context reject	
ESM cause	The value is set according to specific message content.		
Protocol configuration options	Not present		

MODIFY EPS BEARER CONTEXT REQUEST

This message is sent by the SS to the UE.

Table 4.7.3-18: MODIFY EPS BEARER CONTEXT REQUEST

Derivation Path: 24.301 clause 8.3.16			
Information Element	Value/remark	Comment	Condition
Protocol discriminator	ESM		
EPS bearer identity	Set according to specific		
	message content.		
Procedure transaction identity	'0000 0000'B	No procedure	NETWORK-
		transaction	INITIATED
		identity assigned	
	The same value as the		UE-
	value set in BEARER		INITIATED
	RESOURCE		
	MODIFICATION		
	REQUEST message or BEARER RESOURCE		
	ALLOCATION		
	REQUEST message.		
Modify EPS bearer context request message identity	'1100 1001'B	Modify EPS	
Wodiny Er o bearer context request message identity	1100 1001 B	bearer context	
		request	
New EPS QoS	Use the same value as	'	
	used in Activate EPS		
	Bearer Context Request		
	message		
TFT	According to reference		
	dedicated EPS bearer		
	context #2 except for TFT		
	operation code which is		
	set to '100'B and TFT		
	identifier is set to '00110000'B		
New QoS	Not Present.		
Negotiated LLC SAPI	Not Present.		
Radio priority	Not Present.		+
Packet flow Identifier	Not Present.		+
1 donot now identifier	'0000 0000'B	Best Effort	pc_GERAN
APN-AMBR	Not Present.	DOST ETION	PO_OLIVAIN
Protocol configuration options	Not present		+
1 Totocol configuration options	Livor bieseiir	1	

Condition	Explanation	
NETWORK-INITIATED	Network initiated ESM procedures	
UE-INITIATED	UE initiated ESM procedures	

NOTE: This message is always sent within SECURITY PROTECTED NAS MESSAGE message.

- NOTIFICATION

This message is sent by the SS to the UE.

Table 4.7.3-18A: NOTIFICATION

Derivation Path: 24.301 clause 8.3.18A			
Information Element	Value/remark	Comment	Condition
Protocol discriminator	ESM		
EPS bearer identity	'0000'B	No EPS bearer identity assigned	
	The same value as the value set in ACTIVATE DEFAULT EPS BEARER CONTEXT REQUEST message for IMS signalling.		SRVCC-HO- CANCELLE D
Procedure transaction identity	'0000 0000'B	No procedure transaction identity assigned	
Notification message identity	'1101 1011'B	Notification	
Notification indicator	'0000 0001'B	SRVCC handover cancelled, IMS session re- establishment required	SRVCC-HO- CANCELLE D

Condition	Explanation	
SRVCC-HO-CANCELLED	Used if SRVCC handover is cancelled.	

NOTE: This message is always sent within SECURITY PROTECTED NAS MESSAGE message.

PDN CONNECTIVITY REJECT

This message is sent by the SS to the UE.

Table 4.7.3-19: PDN CONNECTIVITY REJECT

Derivation Path: 24.301 clause 8.3.17			
Information Element	Value/remark	Comment	Condition
Protocol discriminator	ESM		
EPS bearer identity	'0000'B	No EPS bearer identity assigned	
Procedure transaction identity	The same value as the value set in PDN CONNECTIVITY REQUEST message.		
PDN connectivity reject message identity	'1101 0001'B	PDN connectivity reject	
ESM cause	The value is set according to specific message content.		
Protocol configuration options	Not present		

NOTE: This message is sent without integrity protection before NAS security mode control procedure has been successfully completed and sent within SECURITY PROTECTED NAS MESSAGE message after NAS security mode control procedure has been successfully completed.

PDN CONNECTIVITY REQUEST

This message is sent by the UE to the SS.

Table 4.7.3-20: PDN CONNECTIVITY REQUEST

Derivation Path: 24.301 clause 8.3.18 Information Element	Value/remark	Comment	Condition
Protocol discriminator	ESM		
EPS bearer identity	'0000'B	No EPS bearer identity assigned	
Procedure transaction identity	Any value from 1 to 254	identity deeligned	
PDN connectivity request message identity	'1101 0000'B	PDN connectivity request	
Request type	'0001'B	initial request	
PDN type	Any value between '001'B, '010'B, '011'B and '100'B	The allowed values are respectively IPv4, IPv6, IPv4v6 and "unused but interpreted as IPv6 by the network"	
ESM information transfer flag	Not present or any allowed value		
Access point name	Not present	The value is mandatory when the PDN CONNECTIVITY REQUEST message is sent together with an ATTACH REQUEST message.	
Protocol configuration options	Not present or any allowed value	The value received from the UE does not affect the possible verdict associated with the message when received by the SS. The SS shall remember if this IE is present and its contents because this affects subsequent SS behaviour, e.g. coding of ACTIVATE DEFAULT EPS BEARER CONTEXT REQUEST.	

NOTE: This message is sent without integrity protection before NAS security mode control procedure has been successfully completed and sent within SECURITY PROTECTED NAS MESSAGE message after NAS security mode control procedure has been successfully completed.

PDN DISCONNECT REJECT

This message is sent by the SS to the UE.

Table 4.7.3-21: PDN DISCONNECT REJECT

Derivation Path: 24.301 clause 8.3.19			
Information Element	Value/remark	Comment	Condition
Protocol discriminator	ESM		
EPS bearer identity	'0000'B	No EPS bearer identity assigned	
Procedure transaction identity	The value indicated in PDN DISCONNECT REQUEST message.		
PDN disconnect reject message identity	'1101 0011'B	PDN disconnect reject	
ESM cause	Set according to specific message content.		
Protocol configuration options	Not present		

NOTE: This message is always sent within SECURITY PROTECTED NAS MESSAGE message.

PDN DISCONNECT REQUEST

This message is sent by the UE to the SS.

Table 4.7.3-22: PDN DISCONNECT REQUEST

Derivation Path: 24.301 clause 8.3.20			
Information Element	Value/remark	Comment	Condition
Protocol discriminator	ESM		
EPS bearer identity	'0000'B	No EPS bearer identity assigned	
Procedure transaction identity	Any value from 1 to 254		
PDN disconnect request message identity	'1101 0010'B	PDN disconnect request	
Linked EPS bearer identity	The EPS bearer identity of the associated default bearer.		
Spare half octet	'0000'B		
Protocol configuration options	Not present or any allowed value		

NOTE: This message is always sent within SECURITY PROTECTED NAS MESSAGE message.

4.7A Default TC message and information element contents

This clause contains the default values of common TC (Test Control, see [38]) messages and information elements, which apply to all test cases unless otherwise specified. All the messages and information elements are listed in alphabetical order.

- ACTIVATE TEST MODE

This message is sent by the SS to the UE embedded in a RRC DLInformationTransfer message.

Table 4.7A-1: ACTIVATE TEST MODE

Derivation Path: 36.509 clause 6.5			
Information Element	Value/remark	Comment	Condition
Protocol discriminator	1111		
Skip indicator	0000		
Message type	10000100		
UE test loop mode	0000000	UE test loop mode A	UE TEST LOOP MODE A (default)
UE test loop mode	0000001	UE test loop mode B	UE TEST LOOP MODE B
UE test loop mode	0000010	UE test loop mode C	UE TEST LOOP MODE C
UE test loop mode	0 0 0 0 0 011	UE test loop mode D	UE TEST LOOP MODE D
UE test loop mode	0000100	UE test loop mode E	UE TEST LOOP MODE E

Condition	Explanation
UE TEST LOOP MODE A	UE test loop function configured for UE test loop mode A operation.
UE TEST LOOP MODE B	UE test loop function configured for UE test loop mode B operation.
UE TEST LOOP MODE C	UE test loop function configured for UE test loop mode C operation.
UE TEST LOOP MODE D	UE test loop function configured for UE test loop mode D operation.
UE TEST LOOP MODE E	UE test loop function configured for UE test loop mode E operation.

- ACTIVATE TEST MODE COMPLETE

Table 4.7A-2: ACTIVATE TEST MODE COMPLETE

Derivation Path: 36.509 clause 6.6			
Information Element	Value/remark	Comment	Condition
Protocol discriminator	1111		
Skip indicator	0000		
Message type	10000101		

- CLOSE UE TEST LOOP

Table 4.7A-3: CLOSE UE TEST LOOP

Derivation Path: 36.509 clause 6.1			
Information Element	Value/remark	Comment	Condition
Protocol discriminator	1111		
Skip indicator	0000		
Message type	10000000		
UE test loop mode	0000000	UE test loop mode A	UE TEST
UE test loop mode A LB setup			LOOP
Length of UE test loop mode A LB setup list in bytes	0	No LB setup list. No scaling (UL RLC SDU size will be equal to the received DL SDU size)	MODE A (default)
UE test loop mode B LB setup	Not present	,	
UE test loop mode C LB setup	Not present		
UE test loop mode D LB setup	Not present		
UE test loop mode E LB setup	Not present		
UE test loop mode	00000001	UE test loop mode B	UE TEST
UE test loop mode A LB setup	Not present		LOOP
UE test loop mode B LB setup			MODE B
IP PDU delay	0000000	No delay]
UE test loop mode C LB setup	Not present		1
UE test loop mode D LB setup	Not present		1
UE test loop mode E LB setup	Not present		
UE test loop mode	0000010	UE test loop mode C	UE TEST
UE test loop mode A LB setup	Not present		LOOP
UE test loop mode B LB setup	Not present		MODE C
UE test loop mode C LB setup		MTCH ID	
MBSFN area identity	0000000	0, same value as broadcasted in the default SystemInformationBlock Type13 message	
MCH identity	0000000	0, same value as indicated in the default MBSFNAreaConfigurati on message	
Logical channel identity	00000001	1, same value as indicated in the default MBSFNAreaConfigurati on message	
UE test loop mode D LB setup	Not present		
UE test loop mode E LB setup	Not present		
UE test loop mode	00000011	UE test loop mode D	UE TEST
UE test loop mode A LB setup	Not present		LOOP
UE test loop mode B LB setup	Not present		MODE D
UE test loop mode C LB setup	Not present		1
UE test loop mode D LB setup Discovery Announce or Monitor	0000000	0, triggered to monitor sidelink direct discovery by default.	
UE test loop mode E LB setup	Not present	Sy doladit.	1
UE test loop mode	00000100	UE test loop mode E	UE TEST
UE test loop mode A LB setup	Not present		LOOP
UE test loop mode B LB setup	Not present		MODE E
UE test loop mode C LB setup	Not present		1
UE test loop mode D LB setup	Not present		1
UE test loop mode E LB setup	1.01 p. 000111		1
Communication Transmit or Receive	0000000	0, triggered to receive sidelink direct communication by default.	

Condition	Explanation
UE TEST LOOP MODE A	UE test loop function configured for UE test loop mode A operation.
UE TEST LOOP MODE B	UE test loop function configured for UE test loop mode B operation.
UE TEST LOOP MODE C	UE test loop function configured for UE test loop mode C operation.
UE TEST LOOP MODE D	UE test loop function configured for UE test loop mode D operation.
UE TEST LOOP MODE E	UE test loop function configured for UE test loop mode E operation.

CLOSE UE TEST LOOP COMPLETE

This message is sent by the UE to the SS embedded in a RRC ULInformationTransfer message.

Table 4.7A-4: CLOSE UE TEST LOOP

Derivation Path: 36.509 clause 6.2			
Information Element	Value/remark	Comment	Condition
Protocol discriminator	1111		
Skip indicator	0000		
Message type	1000001		

DEACTIVATE TEST MODE

This message is sent by the SS to the UE embedded in a RRC DLInformationTransfer message.

Table 4.7A-5: DEACTIVATE TEST MODE

Derivation Path: 36.509 clause 6.7			
Information Element	Value/remark	Comment	Condition
Protocol discriminator	1111		
Skip indicator	0000		
Message type	10000110		

DEACTIVATE TEST MODE COMPLETE

This message is sent by the UE to the SS embedded in a RRC ULInformationTransfer message.

Table 4.7A-6: DEACTIVATE TEST MODE COMPLETE

Derivation Path: 36.509 clause 6.8			
Information Element	Value/remark	Comment	Condition
Protocol discriminator	1111		
Skip indicator	0000		
Message type	10000111		

OPEN UE TEST LOOP

Table 4.7A-7: OPEN UE TEST LOOP

Derivation Path: 36.509 clause 6.3			
Information Element	Value/remark	Comment	Condition
Protocol discriminator	1111		
Skip indicator	0000		
Message type	1000010		

- OPEN UE TEST LOOP COMPLETE

This message is sent by the UE to the SS embedded in a RRC ULInformationTransfer message.

Table 4.7A-8: OPEN UE TEST LOOP COMPLETE

Derivation Path: 36.509 clause 6.4			
Information Element	Value/remark	Comment	Condition
Protocol discriminator	1111		
Skip indicator	0000		
Message type	10000011		

UE TEST LOOP MODE C MBMS PACKET COUNTER REQUEST

This message is sent by the SS to the UE embedded in a RRC DLInformationTransfer message.

Table 4.7A-9: UE TEST LOOP MODE C MBMS PACKET COUNTER REQUEST

Derivation Path: 36.509 clause 6.10			
Information Element	Value/remark	Comment	Condition
Protocol discriminator	1111		
Skip indicator	0000		
Message type	10001001		

UE TEST LOOP MODE C MBMS PACKET COUNTER RESPONSE

This message is sent by the UE to the SS embedded in a RRC ULInformationTransfer message.

Table 4.7A-10: UE TEST LOOP MODE C MBMS PACKET COUNTER RESPONSE

Derivation Path: 36.509 clause 6.11			
Information Element	Value/remark	Comment	Condition
Protocol discriminator	1111		
Skip indicator	0000		
Message type	10001011		
MBMS Packet Counter Value			

UE TEST LOOP MODE D SIDELINK DIRECT DISCOVERY PACKET COUNTER REQUEST

Table 4.7A-11: UE TEST LOOP MODE D SIDELINK DIRECT DISCOVERY PACKET COUNTER REQUEST

Derivation Path: 36.509 clause 6.13			
Information Element	Value/remark	Comment	Condition
Protocol discriminator	1111		
Skip indicator	0000		
Message type	10001100		

UE TEST LOOP MODE D SIDELINK DIRECT DISCOVERY PACKET COUNTER RESPONSE

This message is sent by the UE to the SS embedded in a RRC ULInformationTransfer message.

Table 4.7A-12: UE TEST LOOP MODE D SIDELINK DIRECT DISCOVERY PACKET COUNTER RESPONSE

Derivation Path: 36.509 clause 6.14			
Information Element	Value/remark	Comment	Condition
Protocol discriminator	1111		
Skip indicator	0000		
Message type	10001101		
Sidelink Direct Discovery Packet Counter Value			

- UE TEST LOOP MODE E SIDELINK DIRECT COMMUNICATION DATA PACKET COUNTER REQUEST

This message is sent by the SS to the UE embedded in a RRC DLInformationTransfer message.

Table 4.7A-13: UE TEST LOOP MODE E SIDELINK DIRECT COMMUNICATION DATA PACKET COUNTER REQUEST

Derivation Path: 36.509 clause 6.15			
Information Element	Value/remark	Comment	Condition
Protocol discriminator	1111		
Skip indicator	0000		
Message type	10001110		

- UE TEST LOOP MODE E SIDELINK DIRECT COMMUNICATION DATA PACKET COUNTER RESPONSE

This message is sent by the UE to the SS embedded in a RRC ULInformationTransfer message.

Table 4.7A-14: UE TEST LOOP MODE E SIDELINK DIRECT COMMUNICATION DATA PACKET COUNTER RESPONSE

Derivation Path: 36.509 clause 6.16	Value france all	0	0
Information Element	Value/remark	Comment	Condition
Protocol discriminator	1111		
Skip indicator	0000		
Message type	10001111		
Sidelink Direct Communication Packet Counter Value			

- UE TEST LOOP MODE E SIDELINK DIRECT COMMUNICATION CONTROL PACKET COUNTER REQUEST

Table 4.7A-15: UE TEST LOOP MODE E SIDELINK DIRECT COMMUNICATION CONTROL PACKET COUNTER REQUEST

Derivation Path: 36.509 clause 6.17			
Information Element	Value/remark	Comment	Condition
Protocol discriminator	1111		
Skip indicator	0000		
Message type	10010000		

UE TEST LOOP MODE E SIDELINK DIRECT COMMUNICATION CONTROL PACKET COUNTER RESPONSE

This message is sent by the UE to the SS embedded in a RRC ULInformationTransfer message.

Table 4.7A-16: UE TEST LOOP MODE E SIDELINK DIRECT COMMUNICATION CONTROL PACKET COUNTER RESPONSE

Derivation Path: 36.509 clause 6.18			
Information Element	Value/remark	Comment	Condition
Protocol discriminator	1111		
Skip indicator	0000		
Message type	10010001		
Sidelink Direct Communication Packet Counter Value			

4.7B Default UTRA message and information element contents

4.7B.1 UTRA RRC messages

HANDOVER TO UTRAN COMMAND

Table 4.7B.1-1: HANDOVER TO UTRAN COMMAND

Derivation Path: 25.331, clause 10.2.16a Information Element	Value/remark	Comment	Condition
New U-RNTI	U-RNTI-Short		
- SRNC identity	0000 0000 0001B		
- S-RNTI-2	00 0000 0001B		
Ciphering algorithm	UEA0 or UEA1. The		
	indicated algorithm must		
	be one of the algorithms		
	supported by the UE.		
RNC support for change of UE capability	FALSE		
New H-RNTI	Not present		UTRA FDD PS RB, UTRA TDD PS RB, UTRA Speech, UTRA PS RB + Speech, UTRA Speech + Packet RAB Setup after Speech RAB Setup in CELL_DC H
	'1010 1010 1010 1010'		UTRA HSDPA RB, UTRA HSUPA/H SDPA RB
New Primary E-RNTI	Not present		UTRA FDD PS RB, UTRA TDD PS RB, UTRA HSDPA

	'1010 1010 1010 1010'	Speech, UTRA PS RB + Speech. ,UTRA Speech + Packet RAB Setup after Speech RAB Setup in CELL_DC H UTRA
		HSUPA/H SDPA RB
New Secondary E-RNTI	Not present	OBIAND
Default configuration for CELL_FACH	Not present	
CHOICE specification mode	Complete specification	
- Signalling RB information to setup List	Same as the corresponding IE in the RRC CONNECTION SETUP message (Transition to CELL_DCH or HS-PDSCH in CELL_FACH) using condition A1 in TS 34.108 clause 9.1.1 for UTRA-FDD. Same as the corresponding IE in the RRC CONNECTION SETUP message in TS 34.108 clause 9.1.2 for UTRA-TDD.	UTRA FDD PS RB, UTRA HSDPA RB, UTRA Speech, UTRA PS RB + Speech + Packet RAB Setup after Speech RAB Setup in CELL_DC H
	Same as the corresponding IE in the RRC CONNECTION SETUP message in TS 34.108 clause 9.2.2	UTRA TDD PS RB
	Same as the corresponding IE in the RRC CONNECTION SETUP message (Transition to CELL_DCH or HS-PDSCH in CELL_FACH) using condition A3 in TS 34.108 clause 9.1.1 for UTRA-FDD. Same as the corresponding IE in the RRC CONNECTION SETUP (Transition to CELL_DCH) (1.28 Mcps TDD option) message in TS 34.108 clause 9.1.2 for UTRA-TDD.	UTRA HSUPA/H SDPA RB
- RAB information to setup list	Same as the corresponding IE in the RADIO BEARER SETUP message using condition A2 in TS 34.108 clause 9.1.1 for UTRA-FDD.	UTRA Speech, UTRA PS RB + Speech, UTRA

Same as the corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A2 in TS 34.108 clause 9.1.2 for UTRA-TDD.	Speech + Packet RAB Setup after Speech RAB Setup in CELL_DC H
Same as the corresponding IE in the RADIO BEARER SETUP message using condition A3 in TS 34.108 clause 9.1.1 for UTRA-FDD. Same as the corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A3 in TS 34.108 clause 9.1.2 for UTRA-TDD.	UTRA FDD PS RB, UTRA PS RB + Speech
Same as the corresponding IE in the RADIO BEARER SETUP message using condition A11 in TS 34.108 clause 9.1.1 for UTRA-FDD. Same as the corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A11 in TS 34.108 clause 9.1.2 for UTRA-TDD.	UTRA Speech + Packet RAB Setup after Speech RAB Setup in CELL_DC H
Same as the corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A3 in TS 34.108 clause 9.2.2 for UTRA-TDD.	UTRA TDD PS RB
Same as the corresponding IE in the RADIO BEARER SETUP message using condition A10 in TS 34.108 clause 9.1.1 for UTRA-FDD. Same as the corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A10 in TS 34.108 clause 9.1.2 for UTRA-TDD.	UTRA HSDPA RB
Same as the corresponding IE in the RADIO BEARER SETUP message using condition A14 in TS 34.108 clause 9.1.1 for UTRA-FDD. Same as the corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A13 in TS 34.108 clause 9.1.2 for UTRA-TDD.	UTRA HSUPA/H SDPA RB

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- UL Transport channel information common for all transport channels	Same as the corresponding IE in the RADIO BEARER SETUP message using condition A2 in TS 34.108 clause 9.1.1 for UTRA-FDD Same as the corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A2 in TS 34.108 clause 9.1.2 for UTRA-TDD		UTRA Speech, UTRA PS RB + Speech, UTRA Speech + Packet RAB Setup after Speech RAB Setup in CELL_DC H
	Same as the corresponding IE in the RADIO BEARER SETUP message using condition A3 in TS 34.108 clause 9.1.1 UTRA-FDD. Same as the corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A3 in TS 34.108 clause 9.2.2 UTRA-TDD.		UTRA FDD PS RB, UTRA TDD PS RB
	Same as the corresponding IE in the RADIO BEARER SETUP message using condition A10 in TS 34.108 clause 9.1.1 for UTRA-FDD. Same as the corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A10 in TS 34.108 clause 9.1.2 for UTRA-TDD.		UTRA HSDPA RB
	Same content as the corresponding IE in the RADIO BEARER SETUP message using condition A14 in TS 34.108 clause 9.1.1 for UTRA-FDD. Same content as the corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A13 in TS 34.108 clause 9.1.2 for UTRA-TDD.		UTRA HSUPA/H SDPA RB
- Added or Reconfigured UL TrCH information	Same as the corresponding IE in the RADIO BEARER SETUP message using condition A2 in TS 34.108 clause 9.1.1 for UTRA-FDD. Same as the corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A2 in TS 34.108 clause 9.1.2 for UTRA-TDD		UTRA Speech, UTRA PS RB + Speech, UTRA Speech + Packet RAB Setup after Speech RAB Setup in CELL_DC

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	Same as the corresponding IE in the RADIO BEARER SETUP message using condition A3 in TS 34.108 clause 9.1.1	UTRA FDD PS RB
	Same as the corresponding IE in the RADIO BEARER SETUP message using condition A10 in TS 34.108 clause 9.1.1 for UTRA-FDD. Same as the corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A10 in TS 34.108 clause 9.1.2 for UTRA-TDD.	UTRA HSDPA RB
	Same as the corresponding IE in the RADIO BEARER SETUP message using condition A11 in TS 34.108 clause 9.1.1 for UTRA-FDD. Same as the corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A11 in TS 34.108 clause 9.1.2 for UTRA-TDD.	UTRA Speech + Packet RAB Setup after Speech RAB Setup in CELL_DC H
	Same as the corresponding IE in the RADIO BEARER SETUP message using condition A14 in TS 34.108 clause 9.1.1 for UTRA-FDD. Same as the corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A13 in TS 34.108 clause 9.1.2 for UTRA-TDD.	UTRA HSUPA/H SDPA RB
- Added or Reconfigured UL TrCH information	2 Entries	UTRA TDD PS RB
- Added or Reconfigured UL TrCH information[1]	Same as the corresponding IE in the RRC CONNECTION SETUP message (1.28 Mcps TDD) in TS 34.108 clause 9.2.2.	UTRA TDD PS RB
- Added or Reconfigured UL TrCH information[2]	Same as the corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A3 in TS 34.108 clause 9.2.2.	UTRA TDD PS RB
- DL Transport channel information common for all transport channels	Same as the corresponding IE in the RADIO BEARER SETUP message using condition A2 in TS 34.108 clause 9.1.1 for UTRA-FDD. Same as the	UTRA Speech, UTRA PS RB + Speech, UTRA Speech +

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	corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A2 in TS 34.108 clause 9.1.2 for UTRA-TDD.		Packet RAB Setup after Speech RAB Setup in CELL_DC H
	Same as the corresponding IE in the RADIO BEARER SETUP message using condition A3 in TS 34.108 clause 9.1.1		UTRA FDD PS RB
	Same as the corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A3 in TS 34.108 clause 9.2.2.		UTRA TDD PS RB
	Same as the corresponding IE in the RADIO BEARER SETUP message using condition A10 in TS 34.108 clause 9.1.1 for UTRA-FDD. Same as the corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A10 in TS 34.108 clause 9.1.2 for UTRAT-TDD.		UTRA HSDPA RB
	Same content as the corresponding IE in the RADIO BEARER SETUP message using condition A14 in TS 34.108 clause 9.1.1 for UTRA-FDD. Same as the corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A13 in TS 34.108 clause 9.1.2 for UTRA-TDD.		UTRA HSUPA/H SDPA RB
- Added or Reconfigured DL TrCH information	Same as the corresponding IE in the RADIO BEARER SETUP message using condition A2 in TS 34.108 clause 9.1.1 for UTRA-FDD. Same as the corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A2 in TS 34.108 clause 9.1.2 for UTRA-TDD.		UTRA Speech, UTRA PS RB + Speech, UTRA Speech + Packet RAB Setup after Speech RAB Setup in CELL_DC H
	Same as the corresponding IE in the RADIO BEARER SETUP message using condition A3 in TS 34.108 clause 9.1.1		UTRA FDD PS RB

	Same as the corresponding IE in the RADIO BEARER SETUP message using condition A11 in TS 34.108 clause 9.1.1 for UTRA-FDD. Same as the corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A11 in TS 34.108 clause	UTRA Speech + Packet RAB Setup after Speech RAB Setup in CELL_DC H
	9.1.2 for UTRA-TDD. Same as the corresponding IE in the RADIO BEARER SETUP message using condition A10 in TS 34.108 clause 9.1.1 for UTRA-FDD. Same as the corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A10 in TS 34.108 clause	UTRA HSDPA RB
	9.1.2 for UTRA-TDD. Same as the corresponding IE in the RADIO BEARER SETUP message using condition A14 in TS 34.108 clause 9.1.1 for UTRA-FDD. Same as the corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A13 in TS 34.108 clause 9.1.2 for UTRA-TDD.	UTRA HSUPA/H SDPA RB
- Added or Reconfigured DL TrCH information	2 Entries	UTRA TDD
- Added or Reconfigured DL TrCH information[1]	Same as the corresponding IE in the RRC CONNECTION SETUP message (1.28 Mcps TDD) in TS 34.108 clause 9.2.2.	PS RB UTRA TDD PS RB
- Added or Reconfigured DL TrCH information[2]	Same as the corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A3 in TS 34.108 clause 9.2.2.	UTRA TDD PS RB
- Uplink DPCH info	Same as the corresponding IE in the RADIO BEARER SETUP message using condition A2 in TS 34.108 clause 9.1.1 for UTRA-FDD. Same as the corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A13 in TS 34.108 clause 9.1.2 for UTRA-TDD.	UTRA Speech, UTRA PS RB + Speech, UTRA Speech + Packet RAB Setup after Speech RAB Setup in CELL_DC

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	Same as the corresponding IE in the RADIO BEARER SETUP message using condition A3 in TS 34.108 clause 9.1.1	H UTRA FDD PS RB
	Same as the corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A3 in TS 34.108 clause 9.2.2.	UTRA TDD PS RB
	Same as the corresponding IE in the RADIO BEARER SETUP message using condition A10 in TS 34.108 clause 9.1.1 for UTRA-FDD. Same as the corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A10 in TS 34.108 clause 9.1.2 for UTRA-TDD.	UTRA HSDPA RB
	Same as the corresponding IE in the RADIO BEARER SETUP message using condition A14 in TS 34.108 clause 9.1.1 for UTRA-FDD. Same as the corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A13 in TS 34.108 clause 9.1.2 for UTRA-TDD.	UTRA HSUPA/H SDPA RB
- E-DCH Info	Not present	UTRA FDD PS RB, UTRA TDD PS RB, UTRA HSDPA RB, UTRA Speech, UTRA PS RB + Speech, UTRA Speech + Packet RAB Setup after Speech RAB Setup in CELL_DC H
	Same as the corresponding IE in the RADIO BEARER SETUP message using condition A14 in TS 34.108 clause 9.1.1 for UTRA-FDD. Same as the	UTRA HSUPA/H SDPA RB

- Downlink HS-PDSCH Information	corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A13 in TS 34.108 clause 9.1.2 for UTRA-TDD. Not present	UTRA FDD PS RB, UTRA TDD PS RB, UTRA Speech, UTRA PS RB + Speech,
	Same as the	UTRA Speech + Packet RAB Setup after Speech RAB Setup in CELL_DC H UTRA
	corresponding IE in the RADIO BEARER SETUP message using condition A10 in TS 34.108 clause 9.1.1 for UTRA-FDD. Same as the corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A10 in TS 34.108 clause 9.1.2 for UTRA-TDD.	HSDPA RB
	Same as the corresponding IE in the RADIO BEARER SETUP message using condition A14 in TS 34.108 clause 9.1.1 for UTRA-FDD. Same as the corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A13 in TS 34.108 clause 9.1.2 for UTRA-TDD.	UTRA HSUPA/H SDPA RB
- Downlink information common for all radio links	Same as the corresponding IE in the RADIO BEARER SETUP message using condition A2 in TS 34.108 clause 9.1.1 for UTRA-FDD. Same as the corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A2 in TS 34.108 clause 9.1.2 for UTRA-TDD.	UTRA Speech, UTRA PS RB + Speech, UTRA Speech + Packet RAB Setup after Speech RAB Setup in CELL_DC
	Same as the corresponding IE in the	H UTRA FDD PS RB

RADIO BEARER SETUP message using condition A4 in TS 34,108 clause 9,1.11 Same as the corresponding IE in the RADIO BEARER SETUP message (1,28 Mps) TDD) using condition A1 in TS 34,108 clause 9,1.16 or UTRA-FDD. Same as the corresponding IE in the RADIO BEARER SETUP message using condition A10 in TS 34,108 clause 9,1.16 or UTRA-FDD. Same as the corresponding IE in the RADIO BEARER SETUP message (1,28 Mps) TDD) using condition A10 in TS 34,108 clause 9,1.2 for UTRA-TDD. Same as the corresponding IE in the RADIO BEARER SETUP message using condition A74 in TS 34,108 clause 9,1.2 for UTRA-TDD. Same as the corresponding IE in the RADIO BEARER SETUP message using condition A74 in TS 34,108 clause 9,1.1 for UTRA-FDD. Some as the corresponding IE in the RADIO BEARER SETUP message (1,28 Mps) TDD) using condition A13 in TS 34,108 clause 9,1.2 for UTRA-TDD. Same as the corresponding IE in the RADIO BEARER SETUP message using condition A2 in TS 34,108 clause 9,1.1 for UTRA-FDD. Same as the corresponding IE in the RADIO BEARER SETUP message using condition RB + RADIO BEARER SETUP message using condition A2 in TS 34,108 clause 9,1.1 for UTRA-FDD. Same as the corresponding IE in the RADIO BEARER SETUP message (1,28 Mps) TDD) using condition A2 in TS 34,108 clause 9,1.1 for UTRA-FDD. Same as the corresponding IE in the RADIO BEARER SETUP message (1,28 Mps) TDD using condition A2 in TS 34,108 clause 9,1.1 for UTRA-FDD. Same as the corresponding IE in the RADIO BEARER SETUP message using condition A3 in TS 34,108 clause 9,1.1 for UTRA-FDD. Same as the corresponding IE in the RADIO BEARER SETUP message using condition A3 in TS 34,108 clause 9,1.1 for UTRA-TDD. CELL DC H. UTRA TDD SRB			
A4 in TS 34.108 clause 9.1.1 Same as the UTRA TDD PS RB WITRA TDD PS RB UTRA TDD PS RB WITRA WITR			
Same as the corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A3 in TS 34.108 clause 9.1.2 for UTRA-TDD. Same as the corresponding IE in the RADIO BEARER SETUP message using condition A10 in TS 34.108 clause 9.1.1 for UTRA-FDD. Same as the corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A10 in TS 34.108 clause 9.1.2 for UTRA-TDD. UTRA-FDD. Same as the corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A11 in TS 34.108 clause 9.1.1 for UTRA-FDD. Same as the corresponding IE in the RADIO BEARER SETUP message using condition A13 in TS 34.108 clause 9.1.1 for UTRA-TDD. Same as the corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A13 in TS 34.108 clause 9.1.2 for UTRA-TDD. Same as the corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A2 in TS 34.108 clause 9.1.2 for UTRA-TDD. Same as the corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A2 in TS 34.108 clause 9.1.2 for UTRA-TDD. Same as the corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A2 in TS 34.108 clause 9.1.2 for UTRA-TDD. Same as the corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A2 in TS 34.108 clause 9.1.2 for UTRA-TDD. Same as the corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A3 in TS 34.108 clause 9.1.2 for UTRA-TDD. Same as the corresponding IE in the RADIO BEARER SETUP message using condition A3 in TS 34.108 clause 9.1.2 for UTRA-TDD using condition A3 in TS 34.108 clause 9.1.2 for UTRA-TDD using condition A3 in TS 34.108 clause 9.1.2 for UTRA-TDD using condition A3 in TS 34.108 clause 9.2.2 for UTRA-TDD using condition A3 in TS 34.108 clause 9.2.2 Same as the corresponding IE in the c			
corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A3 in TS 34.108 clause 9.2.2. Same as the corresponding IE in the RADIO BEARER SETUP message using condition A10 in TS 34.108 clause 9.1.1 for UTRA-TDD. Same as the corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A10 in TS 34.108 clause 9.1.2 for UTRA-TDD. Same as the corresponding IE in the RADIO BEARER SETUP message using condition A10 in TS 34.108 clause 9.1.2 for UTRA-TDD. Same as the corresponding IE in the RADIO BEARER SETUP message using condition A14 in TS 34.108 clause 9.1.1 for UTRA-FDD. Same as the corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A13 in TS 34.108 clause 9.1.2 for UTRA-TDD. - Downlink information for each radio link list corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A13 in TS 34.108 clause 9.1.2 for UTRA-TDD. - Downlink information for each radio link list corresponding IE in the RADIO BEARER SETUP message using condition A2 in TS 34.108 clause 9.1.2 for UTRA-TDD. - Downlink information for each radio link list corresponding IE in the corresponding IE in the RADIO BEARER SETUP message using condition A2 in TS 34.108 clause 9.1.2 for UTRA-TDD. - Same as the corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A2 in TS 34.108 clause 9.1.2 for UTRA-TDD. - Same as the corresponding IE in the RADIO BEARER SETUP message using condition A2 in TS 34.108 clause 9.1.2 for UTRA-TDD. - Same as the corresponding IE in the RADIO BEARER SETUP message using condition A3 in TS 34.108 clause 9.1.1 for UTRA-TDD. - Same as the corresponding IE in the RADIO BEARER SETUP message using condition A3 in TS 34.108 clause 9.1.2 for UTRA-TDD. - Same as the corresponding IE in			
RADIÓ BEARER SETUP message (1.28 Mcps TDD) using condition A3 in TS 34.108 clause 9.2.2. Same as the corresponding IE in the RADIO BEARER SETUP message using condition A10 in TS 34.108 clause 9.1.1 for UTRA-FDD. Same as the corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A10 in TS 34.108 clause 9.1.2 for UTRA-TDD. Same as the corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A11 in TS 34.108 clause 9.1.1 for UTRA-FDD. Same as the corresponding IE in the RADIO BEARER SETUP message using condition A14 in TS 34.108 clause 9.1.1 for UTRA-TDD. - Downlink information for each radio link list Same as the corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A13 in TS 34.108 clause 9.1.2 for UTRA-TDD. - Downlink information for each radio link list Same as the corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A2 in TS 34.108 clause 9.1.2 for UTRA-TDD. Same as the corresponding IE in the RADIO BEARER SETUP message using condition A2 in TS 34.108 clause 9.1.2 for UTRA-TDD. Same as the corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A2 in TS 34.108 clause 9.1.1 Same as the corresponding IE in the RADIO BEARER SETUP message (1.28 Mcps TDD) using condition A3 in TS 34.108 clause 9.1.1 Same as the corresponding IE in the RADIO BEARER SETUP message using condition A3 in TS 34.108 clause 9.1.1 Same as the corresponding IE in the RADIO BEARER SETUP message using condition A3 in TS 34.108 clause 9.1.1 Same as the corresponding IE in the RADIO BEARER SETUP message using condition A3 in TS 34.108 clause 9.1.2 Same as the corresponding IE in the RADIO BEARER SETUP message using condition A3 in TS 34.108 clause 9.1.2 Same as the corresponding IE in the corresponding IE in the RADIO BEARER SETUP message using condition A3 in TS 34.108 clause 9.1.2 Same as the corresponding IE in the corresponding IE in the corresponding IE in the corresponding IE in the corresponding			
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9.2.2. Same as the corresponding IE in the UTRA HSDPA		TDD) using condition A3	
Same as the corresponding IE in the UTRA HSDPA			
corresponding IE in the HSDPA			LITDA
KADIO BEAKEK SETUP RB		RADIO BEARER SETUP	RB

1	message using condition	
	A10 in TS 34.108 clause	
	9.1.1 for UTRA-FDD.	
	Same as the	
	corresponding IE in the	
	RADIO BEARER SETUP	
	message (1.28 Mcps	
	TDD) using condition	
	A10 in TS 34.108 clause	
	9.1.2 for UTRA-TDD.	
	Same as the	UTRA
	corresponding IE in the	HSUPA/H
	RADIO BEARER SETUP	SDPA RB
	message using condition	ODIAND
	A14 in TS 34.108 clause	
	9.1.1 for UTRA-FDD.	
	Same as the	
	corresponding IE in the	
	RADIO BEARER SETUP	
	message (1.28 Mcps	
	TDD) using condition	
	A13 in TS 34.108 clause	
	9.1.2 for UTRA-TDD.	
Frequency info	Set according to the	
	frequency of the target	
	UTRA cell.	
Multi-frequency Info	Not present	
Maximum allowed UL TX power	21dBm	

Condition	Explanation
UTRA Speech	Establishment of the UTRA reference configuration as specified in Table 4.8.3-1 using the condition "UTRA Speech".
UTRA FDD PS RB	Establishment of the UTRA FDD reference configuration as specified in Table 4.8.3-1 using the condition "UTRA FDD PS RB".
UTRA TDD PS RB	Establishment of the UTRA TDD reference configuration as specified in Table 4.8.3-1 using the condition "UTRA TDD PS RB".
UTRA HSDPA RB	Establishment of the UTRA reference configuration as specified in Table 4.8.3-1 using the condition "UTRA HSDPA RB".
UTRA HSUPA/HSDPA RB	Establishment of the UTRA reference configuration as specified in Table 4.8.3-1 using the condition "UTRA HSUPA/HSDPA RB".
UTRA PS RB + Speech	Establishment of the UTRA reference configuration as specified in Table 4.8.3-1 using the condition "UTRA PS RB + Speech".
UTRA Speech + Packet RAB Setup after Speech RAB Setup in CELL DCH	Establishment of the UTRA reference configuration as specified in Table 4.8.3-1 using the condition "UTRA Speech + Packet RAB Setup after Speech RAB Setup in Cell DCH".

HANDOVER FROM UTRAN COMMAND

Table 4.7B.1-2: HANDOVER FROM UTRAN COMMAND

Derivation Path: 25.331, clause 10.2.15			
Information Element	Value/remark	Comment	Condition
Message Type			
Integrity check info			
- Message authentication code	SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.		
- RRC Message sequence number	SS provides the value of this IE, from its internal counter.		
SR-VCC Info	Not present		
Activation time	Now		
RAB Info			
- RAB identity	0000 0101B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.		
- CN domain identity	PS domain		
 NAS Synchronization Indicator 	Not present		
- Re-establishment timer	Use T315		
Inter-system message			
- CHOICE System type	E-UTRA		
- E-UTRA message	RRCConnectionReconfig uration using condition HO-TO-EUTRA(1,0)	See Table 4.6.1-8	

MEASUREMENT CONTROL

Table 4.7B.1-3: MEASUREMENT CONTROL

Information Element	Value/remark	Comment	Condition
Message Type			
RRC transaction identifier	Arbitrarily selects an unused integer between 0 to 3		
Integrity check info			
- Message authentication code	SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.		
- RRC message sequence number	SS provides the value of this IE, from its internal counter.		
Measurement Identity	3		
Measurement Command	Setup		
Measurement Reporting Mode			
- Measurement Report Transfer Mode	Acknowledged mode RLC		
- Periodical Reporting/Event Trigger Reporting Mode	Event trigger		
Additional measurement list	Not present		
CHOICE Measurement type	Inter-RAT measurement		
- CHOICE Inter-RAT measurement objects	E-UTRA frequency list		

- CHOICE E-UTRA frequency removal	Remove no frequencies		
- New frequencies	Remove no frequencies		
- E-UTRA carrier frequency	Downlink EARFCN of E-		
2 of the tourier frequency	UTRA Cell		
- Measurement bandwidth	Same downlink system		
	bandwidth as used for E-		
	UTRA Cell		
- Blacklisted cells list	Not present		
- Inter-RAT measurement quantity			
- Measurement quantity for UTRAN quality			
estimate			
- Filter coefficient	0		
- CHOICE mode	FDD		FDD_UTRA
- Measurement quantity	CPICH Ec/N0		
- Measurement quantity	CPICH RSCP	For signalling tests	
·		cases.	
- CHOICE mode	TDD		TDD_UTRA
- Measurement quantity	Primary CCPCH RSCP		
- CHOICE system	E-UTRA		
- Measurement quantity	RSRP		
- Filter coefficient	0		
- Inter-RAT reporting quantity			
- UTRAN estimated quality	FALSE		
- CHOICE system	E-UTRA		
- Reporting quantity	both		
- Reporting cell status	Not present		
- CHOICE report criteria	Inter-RAT measurement		
•	reporting criteria		
- Parameters required for each event	1 entry		
- Inter-RAT event identity	Set according to		
	specific test.		
- Threshold own system	-66 dB	1	
- W	0		
- Threshold other system	-55 (-80 dBm)	When	
·		measurement quantity is RSRP,	
		range should be (- 11519), the	
		actual value =	
		Threshold other	
	_	system - 25 [dBm]	
- Hysteresis	0		
- Time to trigger	10 ms		
- Reporting cell status			1
- CHOICE reported cell	Report cells within active set or within virtual active		
Maximum product of constant II	set or of the other RAT		
- Maximum number of reported cells	Not propert		
- Idle Interval Information	Not present		LOD TOD !!
CELL_DCH measurement occasion info LCR			LCR_TDD_U
an IIDCI IMana Caranai an Ca	4		TRA
- cellDCHMeasOccasionSequence	1 entry		
- Pattern sequence identifier	0		
- Status Flag	activate		1
- Measurement purpose	'00001'		-
- Measurement occasion pattern sequence			
parameters			1
- k	3		-
- Offset	0		1
- M_Length	1		1
- Timeslot Bitmap	Not Present		
DPCH Compressed mode status info	Not Present		FDD_UTRA
			AND NOT
			Compressed_
DPCH Compressed mode status info			mode FDD_UTRA

		AND Compressed_ mode
- TGPS reconfiguration CFN	(Current CFN + (250 – TTI/10msec)) mod 256	
- Transmission gap pattern sequence	1 entry	
- TGPSI	1	
- TGPS Status Flag	activate	
- TGCFN	(Current CFN + (252 –	
	TTI/10msec)) mod 256	
DPCH Compressed mode status info	Not present	TDD_UTRA

Condition	Explanation
FDD_UTRA	FDD UTRA cell environment
TDD_UTRA	TDD UTRA cell environment
LCR_TDD_UTRA	LCR TDD UTRA cell environment
Compressed_mode	The UE Support of Compressed mode (TS 36.523-2 table A.4.4-1/28).

MEASUREMENT REPORT

Table 4.7B.1-4: MEASUREMENT REPORT

Derivation Path: 25.331, clause 10.2.19			
Information Element	Value/remark	Comment	Condition
Message Type			
Integrity check info			
- Message authentication code	This IE is checked to see		
	if it is present. The value		
	is compared against the		
	XMAC-I value computed		
	by SS. The first/ leftmost		
	bit of the bit string		
	contains the most		
	significant bit of the MAC-		
	l.		
- RRC Message sequence number	This IE is checked to see		
	if it is present. The value		
	is used by SS to compute		
A	the XMAC-I value.		
Activation time	(256+CFN-(CFN MOD 8 +		
	8)) MOD 256		
Measurement identity	3		
Measured Results	Not present		
Measured results on RACH	Not present		
Additional measured results	Not present		
Event results	Not present		
Inter-RAT cell info indication	Not present		
E-UTRA Measured Results			
- E-UTRA measured results list	1 entry		
- E-UTRA Carrier Frequency			
- Measured E-UTRA cells	1 entry		
- Physical Cell Identity	PhysicalCellIdentity of E-		
	UTRA Cell		
- RSRP	Set according to		
	specific test.		
- RSRQ	Set according to		
	specific test.		
	P		
E-UTRA Event Results			
- Inter-RAT event identity	Set according to		
, i	specific test.		
- E-UTRA events results list	1 entry		
- E-UTRA Carrier Frequency	Downlink EARFCN of E-		
L OTTA Gamer Frequency	DOWNIIIIK LAKI ON OI L-		

	UTRA Cell	
- Reported cells	1 entry	
- Physical Cell Identity	PhysicalCellIdentity of E-	
	UTRA Cell	

PHYSICAL CHANNEL RECONFIGURATION

Table 4.7B.1-5: PHYSICAL CHANNEL RECONFIGURATION

Derivation Path: 25.331, clause 10.2.22 Information Element	Value/remark	Comment	Condition
Message Type	Talasi Silai K		
RRC transaction identifier	Arbitrarily selects an		
Titto transaction tachtinor	unused integer between 0		
	to 3		
Integrity check info			
- Message authentication code	SS calculates the value of		
Moodage administration code	MAC-I for this message		
	and writes to this IE. The		
	first/ leftmost bit of the bit		
	string contains the most		
	significant bit of the MAC-		
	l. The state of th		
- RRC message sequence number	SS provides the value of		
	this IE, from its internal		
	counter.		
Integrity protection mode info	Not Present		
Ciphering mode info	Not Present		
Activation time	Not Present		
Delay restriction flag	Not Present		
New U-RNTI	Not Present		
New C-RNTI	Not Present		
New H-RNTI	Not Present		
New Primary E-RNTI	Not Present		
New Secondary E-RNTI	Not Present		
RRC State indicator	CELL_DCH		
UE Mobility State Indicator	Not Present		
UTRAN DRX cycle length coefficient	Not Present		
CN information info	Not Present		
URA identity	Not Present		
RNC support for change of UE capability	Not Present		
Reconfiguration in response to requested change of	Not Present		
UE capability			
Downlink counter synchronization info	Not Present		
Frequency info	Not Present		
DTX-DRX timing information	Not Present		
DTX-DRX Information	Not Present		
HS-SCCH less Information	Not Present		
MIMO parameters	Not Present		
HARQ Info	Not Present		
Maximum allowed UL TX power	Not Present		
CHOICE channel requirement	Not Present		
E-DCH Info	Not Present		
Downlink HS-PDSCH Information	Not Present		
Downlink information common for all radio links	Not Droppet		
- Downlink DPCH info common for all RL	Not Present		TDD
- DPCH compressed mode info	Not Present		TDD
- DPCH compressed mode info	1		FDD
- TGPSI	Departicular		
- TGPS Status Flag	Deactivate Net Dragget		
- TGCFN	Not Present		
- Transmission gap pattern sequence			
configuration parameters - TGMP	E LIEDA		
	E-UTRA measurement		I .

- TGSN	8
- TGL1	10
- TGL2	Not Present
- TGD	undefined
- TGPL1	12
- TGPL2	Not Present
- RPP	Mode 0
- ITP	Mode 0
- CHOICE UL/DL Mode	UL and DL, UL only or DL
- CHOICE OL/DL Mode	only (depending on the
	UE capability)
Doublink compressed made method	HLS(or not sent,
- Downlink compressed mode method	depending on the UE
	capability)
- Uplink compressed mode method	HLS(or not sent,
- Oplink compressed mode method	depending on the UE
	capability)
- Downlink frame type	В
- Downlink frame type - DeltaSIR1	_
	20 (2.0)
- DeltaSIRAfter1	10 (1.0)
- DeltaSIR2	Not Present
- DeltaSIRAfter2	Not Present
- N identify abort	Not Present
- T Reconfirm abort	Not Present
- TX Diversity mode	Not Present
- SSDT information	Not Present
- Default DPCH Offset Value	Not Present
Downlink information for each radio link	Not Present
MBMS PL Service Restriction Information	Not Present

PHYSICAL CHANNEL RECONFIGURATION COMPLETE

Table 4.7B.1-6: PHYSICAL CHANNEL RECONFIGURATION COMPLETE

Derivation Path: 25.331, clause 10.2.23			
Information Element	Value/remark	Comment	Condition
Message Type			
Integrity check info			
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I		
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.		
Uplink integrity protection activation info COUNT-C activation time Uplink counter synchronization info	Not checked Not checked Not checked		

RRC CONNECTION REQUEST

Table 4.7B.1-7: RRC CONNECTION REQUEST

Derivation Path: 25.331, clause 10.2.39			
Information Element	Value/remark	Comment	Condition
Message Type			
Predefined configuration status information	To be checked against		
	requirement if specified		
Initial UE identity			
- CHOICE UE id type			
- TMSI and LAI (GSM-MAP)	Set to the UE's TMSI and LAI.		
Establishment cause	To be checked against requirement if specified		
Protocol error indicator	FALSE		
UE Specific Behaviour Information 1 idle	This IE will not be checked by default behaviour, but in specific test case.		
Domain indicator	Not checked		
Call type	Not checked		
UE capability indication	Not checked		
MBMS Selected Services	Not checked		
Support for F-DPCH	Not checked		
UE Mobility State Indicator	Not Present		
Support for Enhanced F-DPCH	Not checked		
HS-PDSCH in CELL_FACH	Not checked		
MAC-ehs support	Not checked		
DPCCH Discontinuous Transmission support	Not checked		
Support of common E-DCH	Not checked	REL-8	
Multi cell support	Not checked	REL-8	
Pre-redirection info	Not checked	REL-8	
Support of MAC-i/is	Not checked	REL-8	
Support of SPS operation	Not checked	REL-8	
Support for CS Voice over HSPA	Not checked	REL-8	
Dual cell MIMO support	Not checked	REL-9	
System Information Container Stored Indicator	Not checked	REL-9	
Measured results on RACH	Not checked		
Access stratum release indicator	Not checked		

SECURITY MODE COMMAND

Table 4.7B.1-n: SECURITY MODE COMMAND

Derivation Path: 25.331, clause 10.2.43			
Information Element	Value/remark	Comment	Condition
FFS			

SECURITY MODE COMPLETE

Table 4.7B.1-n: SECURITY MODE COMPLETE

Derivation Path: 25.331, clause 10.2.44			
Information Element	Value/remark	Comment	Condition
FFS			

UTRAN MOBILITY INFORMATION

Table 4.7B.1-n: UTRAN MOBILITY INFORMATION

Derivation Path: 34.108 clause 9.1.1 (UTRAN MOBILITY INFORMATION message)			
Information Element	Value/remark	Comment	Condition
UTRAN MOBILITY INFORMATION			
CN information info			
- PLMN identity	Not present		
- CN common GSM-MAP NAS system information			
- GSM-MAP NAS system information	00 01H		
- CN domain related information			
- CN domain identity	PS		
- CN domain specific NAS system information			
- GSM-MAP NAS system information	01 00H		
- CN domain specific DRX cycle length coefficient	7		
- CN domain identity	CS		
- CN domain specific NAS system information			
- GSM-MAP NAS system information	1E 01H		
- CN domain specific DRX cycle length coefficient	7		

UTRAN MOBILITY INFORMATION CONFIRM

Table 4.7B.1-n: UTRAN MOBILITY INFORMATION CONFIRM

Derivation Path: 34.108 clause 9.1.1 (UTRAN MOBILITY INFORMATION CONFIRM message)

4.7B.2 UTRA NAS messages

This section contains default message contents for UTRA NAS messages.

In 3GPP TS 36.523-1 [18]:

- UTRA NAS messages are defined as exceptions, IE by IE, to the messages defined in this section;
- UTRA NAS messages not defined in this section are specified completely.

The following messages are not specified in this section:

- AUTHENTICATION REQUEST (CS)
- AUTHENTICATION RESPONSE (CS)
- DETACH REQUEST (CS & PS)
- DETACH ACCEPT (CS & PS)
- IDENTITY REQUEST (CS & PS)
- IDENTITY RESPONSE (CS & PS)
- P-TMSI REALLOCATION COMMAND (PS)
- P-TMSI REALLOCATION COMPLETE (PS)
- SERVICE REQUEST (PS)

Table 4.7B.2-1: ROUTING AREA UPDATE REQUEST

Derivation path: 24.008 table 9.4.14			
Information Element	Value/Remark	Comment	Condition
Update type	000 'RA updating' or	In NMO I,	
	001 'combined RA/LA	depending on	
	updating'	capability and	
	010 'combined RA/LA	domain	

GPRS ciphering key sequence number	updating with IMSI attach' Any allowed value	preference for voice and SMS, the UE may initiate either PS only or CS/PS registration procedures.
Old routing area identification	Any allowed value	
MS Radio Access capability	Any allowed value	The checking of this IE is expected to be covered in UMTS test cases.
Old P-TMSI signature	Not present or any allowed value	For test cases where no "UE" statement indicates that a P- TMSI signature was previously registered, whether or not the UE includes this IE depends on previous USIM contents.
Requested READY timer value	Not present or any allowed value	The checking of this IE is expected to be covered in UMTS test cases.
DRX parameter	Not present or any allowed value	The checking of this IE is expected to be covered in UMTS test cases.
TMSI status	0 'no valid TMSI available' or not present	
P-TMSI	Not present or any allowed value	
MS network capability	Any allowed value	The checking of this IE is expected to be covered in UMTS test cases.
PDP context status	Any allowed value	The checking of this IE is expected to be covered in UMTS test cases.
PS LCS Capability	Not present or any allowed value	The checking of this IE is expected to be covered in UMTS test cases.
MBMS context status UE network capability	Not present Any allowed value (must be present)	No detailed checking by default but should be aligned with PICS
Additional mobile identity	Not present or any allowed value	
Additional old routing area identification	Not present or any allowed value	
Mobile station classmark 2	Not present or any allowed value	This IE shall be included if the MS supports SRVCC to GERAN or UTRAN.
Mobile station classmark 3	Not present or any allowed value	This IE shall be included if the MS supports SRVCC to GERAN.

Supported Codecs	Not present or any		
	allowed value		
Voice domain preference and UE's usage setting	Not present or any	Rel-9	
	allowed value		
P-TMSI type	Any allowed value	Rel-10	

Table 4.7B.2-2: ROUTING AREA UPDATE ACCEPT

Derivation path: 24.008 table 9.4.15 Information Element	Value/Remark	Comment	Condition
Force to standby	0 'Force to standby not indicated'		
Update result	000 'RA updated'		IF the UE indicated 000 'RA updating' in the previous RAU request message
	001 'combined RA/LA updated'		IF the UE indicated 001 'combined RA/LA updating' in the previous RAU request message
D : 1 DA 1 ()	1 'No follow-on proceed'		
Periodic RA update timer Routing area identification	111 (deactivated) 1	Value in table 4.4.4-2 for simulated UTRA cells.	
P-TMSI signature	Arbitrary value	0001	
Allocated P-TMSI	Arbitrary value	2 most significant bits = 11 to indicate SGSN	
MS identity	Not present	Is never present in case of RA only procedure, and RA/LA procedures do not necessarily change TMSI	
List of Receive N PDU Numbers	Not present	Realistic network value	
Negotiated READY timer value	Not present		
GMM cause	Not present		
T3302 value	Not present		
Cell Notification	Not present	This IE is for A/Gb mode only.	
Equivalent PLMNs	Not present		
PDP context status	Same value as the one received in the RAU request message		
Network feature support	Not present		
Emergency Number List	Not present		
MBMS context status	Not present		
Requested MS Information	Not present		
T3319 value	Not present		
T3323 value	Not present		

Table 4.7B.2-3: ROUTING AREA UPDATE COMPLETE

Derivation path: 24.008 table 9.4.16			
Information Element	Value/Remark	Comment	Condition
List of Receive N PDU Numbers	Not present		
Inter RAT handover information	Not present		
E-UTRAN inter RAT handover information	Not present		

Table 4.7B.2-4: LOCATION UPDATING REQUEST

Derivation path: 24.008 table 9.2.17 Information Element	Value/Remark	Comment	Condition
Location updating type	Any allowed value		
Ciphering key sequence number	Any allowed value		
Location area identification	Any allowed value		
Mobile station classmark	Any allowed value		
Mobile identity	Any allowed value		
Mobile station classmark for UMTS	Any allowed value		
Additional update parameters	Not present or any allowed value		

Table 4.7B.2-5: LOCATION UPDATING ACCEPT

Derivation path: 24.008 table 9.2.15			
Information Element	Value/Remark	Comment	Condition
Location area identification	1		
Mobile identity			
TMSI	Arbitrary value	2 most significant bits = 00 to indicate VLR	
Follow on proceed	Present	This IE is unncessary in non-CS fallback test cases.	
CTS permission	Absent		
Equivalent PLMNs	Absent		
Emergency Number List	Absent		

Table 4.7B.2-6: ATTACH REQUEST

Information Element	Value/Remark	Comment	Condition
MS network capability	Any allowed value		
Attach type	001 'GPRS attach' or		
71.	011 'Combiner		
	GPRS/IMS attach'		
GPRS ciphering key sequence number	Any allowed value		
DRX parameter	Any allowed value		
P-TMSI or IMSI	Any allowed value		
Old routing area identification	Any allowed value		
MS Radio Access capability	Any allowed value		
Old P-TMSI signature	Not present or any		
•	allowed value		
Requested READY timer value	Not present or any		
·	allowed value		
TMSI status	0 'no valid TMSI		
	available' or not present		
PS LCS Capability	Not present or any		
	allowed value		
Mobile station classmark 2	Not present or any		
	allowed value		
Mobile station classmark 3	Not present or any		
	allowed value		
Supported Codecs	Not present or any		
	allowed value		
UE network capability	Any allowed value (must		
	be present)		
Additional mobile identity	Not present or any		
	allowed value		
Additional old routing area identification	Not present or any		
	allowed value		
Voice domain preference and UE's usage setting	Not present or any	Rel-9	
	allowed value		
P-TMSI type	Not present or any	Rel-10	
	allowed value		

Table 4.7B.2-7: ATTACH ACCEPT

Derivation path: 24.008 table 9.4.2	3.7 1 100 -		T 0
Information Element	Value/Remark	Comment	Condition
Attach result	001 'GPRS only attached'		IF the UE
			indicated
			001 'GPRS
			attach' in
			the
			previous
			attach
			request
			message
	011 'combined		IF the UE
	GPRS/IMSI attached'		indicated
			011
			'Combined
			GPRS/IMS
			I attach' in
			the
			previous
			attach
			request
Force to standby	000 'Force to standby not		message
·	indicated'		
Periodic RA update timer	111 (deactivated)		
Radio priority for SMS	100 'priority level 4		
•	(lowest)'		
Radio priority for TOM8	100 'priority level 4		
•	(lowest)'		
Routing area identification	1		
P-TMSI signature	Arbitrary value		
Negotiated READY timer value	Not present		
Allocated P-TMSI	Arbitrary value	2 most significant	
	, y value	bits = 11 to	
		indicate SGSN	
MS identity	Not present		IF the UE
- · · · ,	The state of		indicated
			001 'GPRS
			attach' in
			the
			previous
			attach
			request
			message
	Arbitrary value	2 most significant	IF the UE
	7 Holliary Value	bits = 00 to	indicated
		indicate VLR	011
		IIIUICALE VEN	'Combined
			GPRS/IMS
			I attach' in
			the
			previous
			attach
			request
GMM cause	Not present		message
T3302 value	Not present		
Cell Notification	Not present		
Equivalent PLMNs	Not present		1
Network feature support	Not present Not present		+
Emergency Number List	Not present		+
Requested MS Information	Not present Not present		+
requested inio illigitigitoti			1
T2210 value	I Not propert		
T3319 value T3323 value	Not present Not present		

Table 4.7B.2-8: ATTACH COMPLETE

Derivation path: 24.008 table 9.4.3			
Information Element	Value/Remark	Comment	Condition
Inter RAT handover information	Not present		
E-UTRAN inter RAT handover information	Not present		

Table 4.7B.2-9: AUTHENTICATION AND CIPHERING REQUEST

Information Element	Value/Remark	Comment	Condition
Ciphering algorithm	Any allowed value		
IMEISV request	000 'IMEISV not requested'		
Force to standby	000 'Force to standby not indicated'		
A&C reference number	Any allowed value		

Table 4.7B.2-10: AUTHENTICATION AND CIPHERING RESPONSE

Derivation path: 24.008 table 9.4.10			
Information Element	Value/Remark	Comment	Condition
A&C reference number	Arbitrary value		
Spare half octet	0000		

Table 4.7B.2-11: TMSI REALLOCATION COMMAND

Derivation path: 24.008 table 9.2.20			
Information Element	Value/Remark	Comment	Condition
Location area identification	Any allowed value		
Mobile identity	Any allowed value		

Table 4.7B.2-12: TMSI REALLOCATION COMPLETE

Derivation path: 24.008 table 9.2.21

Table 4.7B.2-13: CM SERVICE REQUEST

Derivation path: 24.008 table 9.2.11			
Information Element	Value/Remark	Comment	Condition
CM service type	Any allowed value		
Ciphering key sequence number	Any allowed value		
Mobile station classmark	Any allowed value		
Mobile identity	Any allowed value		
Priority	Not present or any allowed value		
Additional update parameters	Not present or any allowed value		

4.7C Default DS-MIPv6 message and information element contents

4.7C.1 IKEv2 messages

IKEv2 IKE_SA_INIT Request

This message is sent by the UE to the SS.

Table 4.7C.1-1: Message IKE_SA_INIT Request

Field	Value/remark	Comment	Condition
IKE Header			
Initiator's IKE_SA SPI	Set by the UE		
Responder's IKE_SA SPI	0	First message jn IKE_SA_INIT exchange	
Next Payload	'00100001'B	SA	
Exchange Type	'0010001'B	IKE_SA_INIT	
Security Association Payload	0010001012	II(L_O/(_II(I)	
Next Payload	'00100010'B	KE	
More proposal	'00000010'B	IXE	
Proposal #	'00000001'B	First cryptographic suite (section 6.5 of TS 33.234)	
Protocol ID	'0000001'B	IKE	
SPI size	'0000000'B		
Number of transforms	'0000010'B		
More transform	'00000011'B	This is the transform for confidentiality	
Transform type	'0000001'B	Encryption	
Transform ID	'00000011'B	3DES in CBC mode (ENCR_3DES)	
More transform	'00000011'B	This is the transform for prf	
Transform type	'0000010'B	PRF	
Transform ID	'00000010'B	PRF_HMAC_SHA 1 (HMAC-SHA1)	
More transform	'00000011'B	This is the transform for integrity	
Transform type	'0000011'B	Integrity	
Transform ID	'00000010'B	HMAC-SHA1-96 (AUTH_HMAC_S HA1_96)	
Last transform	'00000000'B	This is the transform for DH	
Transform type	'00000100'B	DH	
Transform ID	'00000010'B	Diffie-Hellman group 2 (1024-bit MODP)	
Last proposal	'0000000'B		
Proposal #	'00000010'B	Second cryptographic suite (section 6.5 of TS 33.234)	
Protocol ID	'0000001'B	IKE	
SPI size	'0000000'B		
Number of transforms	'0000010'B		
More transform	'00000011'B	This is the transform for confidentiality	
Transform type	'0000001'B	Encryption	

Transform ID	'00001011'B	AES with 128-bit	
		keys in CBC	
		mode	
		(ENCR_AES_CB C)	
More transform	'00000011'B	This is the	
	333331.12	transform for prf	
Transform type	'0000010'B	PRF	
Transform ID	'00000100'B	PRF_AES128_XC	
		BC_ AES-XCBC-	
		PRF-128	
More transform	'00000011'B	This is the	
		transform for	
	(222222412	integrity	
Transform type	'0000011'B	Integrity	
Transform ID	'00000101'B	AES-XCBC-MAC-	
		96 (AUTH_ AES-	
Last transform	'00000000'B	XCBC -96) This is the	
Last transform	00000000 В	transform for DH	
Transform type	'00000100'B	DH	
Transform ID	'00000100'B	Diffie-Hellman	
Hansioini iD	0000001010	group 2 (1024-bit	
		MODP)	
Key Exchange Payload		I WODI)	
Next Payload	'00101000'B	Nonce	
DH Group #	'000000000000010'B	DH group 2	
Key Exchange data	Set by the UE	Bir group 2	
Nonce Payload	00.29 02		
Next Payload	'00101001'B	Notify	UE IKE
		, , ,	INIT HA
Nonce data	Random number set by		
Nonce data	the UE		
REDIRECT_SUPPORTED Notify Payload			UE IKE
_ , ,			INIT HA
Next Payload	,00000000,B	No Next Payload	UE IKE
Protocol ID	(00000000)P	Notification is not	INIT HA UE IKE
PIOLOCOLID	'00000000'B	specific to a	INIT HA
		particular security	IINII FIA
		association	
SPI size	'0000000'B	SPI field not	UE IKE
01 1 3126	00000000 B	present	INIT HA
Notify Message Type	'010000000010110'B	REDIRECT_SUP	UE IKE
Tromy message Type	0.000000000101102	PORTED	INIT HA
REDIRECT_FROM Notify Payload			UE IKE
_ , ,			INIT HA
			Redirected
Next Payload	'00000000'B	No next payload	UE IKE
			INIT HA
			Redirected
Protocol ID	'00000000'B	Notification is not	UE IKE
		specific to a	INIT HA
		particular security	Redirected
CDI piza	(00000001P	association	
SPI size	'00000000'B	SPI field not	UE IKE INIT HA
		present	Redirected
Notify Message Type	'0100000000010110'B	REDIRECT_FRO	UE IKE
Trodity Message Type	01000000001011015	M	INIT HA
		IVI	Redirected
GW Ident Type	Any allowed value (IPv6	Set depending on	UE IKE
ST Iddit Typo	or IPv4 or HA FQDN)	how the UE has	INIT HA
		discovered the HA	Redirected
		in the preamble	
		in the preamble	
New Responder GW Identity	Depends on GW Ident	in the preamble	UE IKE INIT HA

Condition	Explanation
UE IKE INIT HA	Part of IKE_INIT_SA request message sent to HA only
UE IKE INIT HA Redirected	Part of IKE_INIT_SA request message sent to HA only after a REDIRECT
	payload was received in a previous IKEV2 messages exchange

- IKE_SA_INIT Response

This message is sent by the SS to the UE.

Table 4.7C.1-2: Message IKE_SA_INIT Response

Field	Value/remark	Comment	Condition
IKE Header			
Initiator's IKE_SA SPI	Same as that set by the UE in IKE_SA_INIT request		
Responder's IKE_SA SPI	Set by the SS		
Next Payload	'00100001'B	SA	
Exchange Type	'00100010'B	IKE_SA_INIT	
Security Association Payload			
Next Payload	'00100010'B	KE	
Proposal	One of the 2 proposals included in IKE_SA_INIT at Step 1		
Key Exchange Payload	·		
Next payload	'00 101000'B	Nonce	
DH Group #	'000000000000010'B	DH group 2	
Key Exchange data	Set by the SS	<u> </u>	
Nonce Payload			
Next t payload	'00000000'B	No Next Payload	
Nonce data	Set by the SS		

- IKE_AUTH_Request

This message is sent by the UE to the SS.

Table 4.7C.1-3: Message IKE_AUTH Request

Field	Value/remark	Comment	Condition
IKE Header			
Initiator's IKE_SA SPI	Same as that set by the UE in IKE_INIT_SA Request		
Responder's IKE_SA SPI	Same as that set by the SS in IKE_INIT_SA Response		
Next Payload	'00101110'B	E	
Exchange Type	'00100011'B	IKE_AUTH	
Encrypted Payload			
Next Payload	'00100011'B	IDi	UE IKE AUTH1
Initialization Vector	Random value set by the UE		UE IKE AUTH1
Encrypted IKE Payloads			UE IKE AUTH1
Identification – Initiator Payload			UE IKE AUTH1
Next Payload	'00101111'B	СР	UE IKE AUTH1
ID Type	00000010B		UE IKE AUTH1

ID	Set to MN-NAI		UE IKE
Configuration Payload			AUTH1 UE IKE
			AUTH1
Next Payload	'00100001'B	SA	UE IKE AUTH1
CFG Type	'00000001'B	Request	UE IKE AUTH1
Configuration Attribute	'00010000'B	MIP6_HOME_PR EFIX attribute	UE IKE AUTH1 HA
Length	'000000000000000'B	EFIX attribute	UE IKE
Security Association Payload			AUTH1 HA UE IKE
Next Payload	'00101100'B	TSi	AUTH1 UE IKE
Proposals	Any set of allowed values		AUTH1 UE IKE
·	7 may oot of allowed values		AUTH1 UE IKE
Traffic Selector – Initiator Payload			AUTH1
Next Payload	'00101100'B	TSr	UE IKE AUTH1
Traffic selector data	Any allowed set of values		UE IKE AUTH1
Traffic Selector – Responder Payload			UE IKE
Next Payload	'00100100'B	IDr	AUTH1 UE IKE
Traffic selector data	Any allowed set of values		AUTH1 UE IKE
Identification – Responder Payload	,		AUTH1 UE IKE
			AUTH1
Next Payload	'00000000'B	No Next Payload	UE IKE AUTH1
ID Type	'00000010'B		UE IKE AUTH1
ID	APN		UE IKE AUTH1
Next Payload	'00110000'B	EAP	UE IKE
Initialization Vector	Random value set by the		AUTH2 UE IKE
Encrypted IKE Payloads	UE		AUTH2 UE IKE
Extensible Authentication Payload			AUTH2 UE IKE
•			AUTH2
Next Payload	'00000000'B	No Next Payload	UE IKE AUTH2
Code	'00000010'B	Response	UE IKE AUTH2
Туре	'00010111'B	AKA	UE IKE AUTH2
Subtype		AKA-Challenge	UE IKE
Attribute type	'00000011'B	AT_RES	UE IKE
AT_RES	See TS 24.301 [28]		AUTH2 UE IKE
Next Payload	subclause 9.9.3.4 '00100111'B	AUTH	AUTH2 UE IKE
Initialization Vector	Random value set by the		AUTH3 UE IKE
	UE Random value set by the		AUTH3
Encrypted IKE Payloads			UE IKE AUTH3
Authentication Payload			UE IKE AUTH3
Next Payload	'00000000'B	No Next Payload	UE IKE

			AUTH3
Auth Method	'0000010'B	Shared Key	UE IKE
		Integrity code	AUTH3
Auth Data	derived from the MSK	RFC 4306 defines	UE IKE
	obtained from AKA	the function to	AUTH3
	exchange	derive this key	
	-	(section 2.15)	
Padding	Set by the UE	Fields from	
	·	Encrypted	
		payload	
Pad Length	Set by the UE	Fields from	
	·	Encrypted	
		payload	
Integrity checksum data	Set by the UE	Fields from	
	·	Encrypted	
		payload	

Condition	Explanation
UE IKE AUTH1	Part of IKE_AUTH request message sent to HA or ePDG after the reception
	of IKE_INIT_SA response
UE IKE AUTH1 HA	Part of IKE_AUTH request message sent to HA after the reception of
	IKE_INIT_SA response
UE IKE AUTH2	Part of IKE_AUTH request message sent to HA or ePDG after the reception
	of IKE_ SA response message containing the certificate payload CERT
UE IKE AUTH3	Part of IKE_AUTH request message sent to HA or ePDG after the reception
	of IKE_SA response containing EAP and encryption payloads only

- IKE_AUTH Response

This message is sent by the SS to the UE.

Table 4.7C.1-4: Message IKE_AUTH Response

Field	Value/remark	Comment	Condition
IKE Header			
Initiator's IKE_SA SPI	Same as that set by the UE in IKE_SA_INIT request		
Responder's IKE_SA SPI	Same as that set by the SS in IKE_SA_INIT response		
Next Payload	'00101110'B	E	
Exchange Type	'00100011'B	IKE_AUTH	
Encrypted Payload			
Next Payload	'00100100'B	IDr	SS IKE AUTH1
Initialization Vector	Set by the SS		SS IKE AUTH1
Encrypted IKE Payloads			SS IKE AUTH1
Identification – Responder Payload			SS IKE AUTH1
Next Payload	'00100101'B	CERT	SS IKE AUTH1
ID Type	'00000010'B		SS IKE AUTH1
ID	APN		SS IKE AUTH1
Certificate Payload			SS IKE AUTH1
Next Payload	'00110000'B	EAP	SS IKE AUTH1
Cert encoding	'00000100'B	X.509 certificate - signature	SS IKE AUTH1
Certificate data	Set by the SS	DER encoded	SS IKE

		X.509 certificate	AUTH1
Extensible Authentication Payload			SS IKE AUTH1
Next Payload	'00000000'B	No Next Payload	SS IKE
Code	'00000001'B	Request	AUTH1 SS IKE
Туре	'00010111'B	AKA	AUTH1 SS IKE
Subtype		AKA-Challenge	AUTH1 SS IKE
	'00000001'B	AT_RAND	AUTH1 SS IKE
Attribute type		A1_RAND	AUTH1
AT_RAND	An arbitrarily selected 128 bits value		SS IKE AUTH1
Attribute Type	'00000010'B	AT_AUTN	SS IKE AUTH1
AT_AUTN	See TS 24.301 [28]		SS IKE AUTH1
Next Payload	subclause 9.9.3.2 '00110000'B	EAP	SS IKE
Initialization Vector	Set by the SS		AUTH2 SS IKE
Encrypted IKE Payloads			AUTH2 SS IKE
			AUTH2
Extensible Authentication Payload			SS IKE AUTH2
Next Payload	(00000000)B	No Next Payload	SS IKE AUTH2
Code	'00000011'B	Success	SS IKE
Next Payload	'00101111'B	СР	SS IKE
Auth Method	'00000010'B	Shared Key	AUTH3 SS IKE
Auth Data	derived from the MSK	Integrity code RFC 4306 defines	AUTH3 SS IKE
Autil Data	obtained from AKA exchange	the function to derive this key (section 2.15)	AUTH3
Configuration Payload			SS IKE AUTH3
Next Payload	'00100001'B	SA	SS IKE AUTH3
CFG Type	'00000010'B	Reply	SS IKE AUTH3
Configuration Attribute	'00010000'B	MIP6_HOME_PR	SS IKE
Length	'000000000010101'B	EFIX attribute	SS IKE
Prefix lifetime	Any allowed value		SS IKE
Home Prefix	IPv6 prefix – 16 bytes		AUTH3 HA
Prefix length	'10000000'B	Prefix length must	AUTH3 HA
	10000000 В	be 64	AUTH3 HA
Notify Payload			SS IKE AUTH3 HA redirect
Next Payload	'00100001'B	SA	SS IKE AUTH3 HA
Protocol ID	'00000000'B	Notification is not specific to a	redirect SS IKE AUTH3 HA
		particular security association	redirect
SPI Size	'00000000'B	SPI field not present	SS IKE AUTH3 HA

			redirect
Notify Message Type Length	'010000000010111'B	REDIRECT	SS IKE
			AUTH3 HA
			redirect
GW Ident Type	'00000101'B		SS IKE
			AUTH3 HA
			redirect
New Responder GW Identity	IPv6 address of the HA		SS IKE
	to relocate		AUTH3 HA
			redirect
GW Ident Type	'0000001'B		SS IKE
			AUTH3 HA
			redirect
New Responder GW Identity	IPv4 address of the HA	Optional	SS IKE
	to relocate		AUTH3 HA
			redirect
Security Association Payload			SS IKE
			AUTH3
Next Payload	'00101101'	TSi	SS IKE
			AUTH3
Proposal	One of the 2 proposals		SS IKE
	included in IKE_AUTH		AUTH3
	Request at Step 3		
Traffic Selector – Initiator Payload			SS IKE
			AUTH3
Next Payload	'00101100'B	TSr	SS IKE
			AUTH3
Traffic Selector data	Any allowed set of values		SS IKE
			AUTH3
Traffic Selector – Responder Payload			SS IKE
			AUTH3
Next Payload	'00000000'B	No Next Payload	SS IKE
			AUTH3
Padding	Set by the SS	Fields from	
		Encryption	
		payload	
Pad Length	Set by the SS	Fields from	
		Encryption	
		payload	
Integrity checksum data	Set by the SS	Fields from	
		Encryption	
		payload	

Condition	Explanation
SS IKE AUTH1	Part of IKE_AUTH request message sent to the UE as part of the first
	IKE_AUTH Response message
SS IKE AUTH2	Part of IKE_AUTH request message sent to the UE as part of the second
	IKE_AUTH Response message
SS IKE AUTH3	Part of IKE_AUTH request message sent to the UE as part of the third
	IKE_AUTH Response message
SS IKE AUTH3 HA	Part of IKE_AUTH request message sent to the UE as part of the third
	IKE_AUTH Response message when the UE interacts with HA
SS IKE AUTH3 HA_redirect	Part of IKE_AUTH request message sent to the UE as part of the third
	IKE_AUTH Response message when the UE interacts with HA and the UE
	gets redirected

4.7C.2 Messages used to perform DS-MIPv6 registration and deregistration

- Router Advertisement

This message is sent by the SS to the UE.

Table 4.7C.2-1: Message Router Advertisement

Field	Value/remark	Comment	Condition
Туре	'10000110'B		
Code	'00000000'B		
Checksum	Set by SS	ICMP checksum	
Cur Hop Limit	'0000000'B	Unspecified	
M	Set by the SS		
0	Set by the SS	Depends on access network specific settings	
Н	'0'B		
Prf	Set by the SS	Depends on access network specific settings	
Prf	Set by the SS	Depends on access network specific settings	
Р	Set by the SS	Depends on access network specific settings	
Reserved	'00000'B		
Router Lifetime	Set by the SS		
Reachable Time	Set by the SS		
Retrans Timer	Set by the SS		
type	'00000011'B	Prefix Information Option	
Length	'00000100'B		
Prefix length	Set by the SS		
L	'1'B		
A	Set by the SS		
Valid Lifetime	Set by the SS		
Preferred Lifetime	Set by the SS		
Prefix	Set as per specific message content		

- Binding Update

This message is sent by the UE to the SS.

Table 4.7C.2-2: Message Binding Update

Information Element	Value/remark	Comment	Condition
IPv4 Source Address	UE IPv4 CoA (IPv4		UE IPv4
	address acquired by UE		
	during network		
	attachment)		
IPv4 Destination Address	IPv4 of Home Agent		UE IPv4
	discovered during		
	preamble		
UDP header	produing		UE IPv4
Source Port	Set by UE		UE IPv4
Destination port	'0001000001011111'B		UE IPv4
IPv6 Source Address	UE IPv6 CoA (IPv6		IPv6
IF VO Source Address	address acquired by the		visited
			visited
	UE during network		
	attachment)		LIE ID 0
	IPv6 Home Address		UE IPv6-
	configured by the UE		home, UE
	from Home Network		IPv4
	Prefix assigned to UE		
	during preamble		
IPv6 Destination Address	IPv6 of Home Agent		
	discovered during		
	preamble		
Destination Header	IPv6 Home Address		IPv6
	configured by the UE		visited
	from Home Network		
	Prefix assigned to the UE		
	during preamble		
Payload Proto	'00111011'B		
MH Type	'00000101'B	Binding Update	
Will Typo	000001012	message	
Sequence Number	Any allowed value	go	
Lifetime	Any allowed non-zero		IPv6
	value		visited
	'0000000000000000'B		UE IPv6-
			home
A	'1'B		
Н	'1'B		
L	Not checked		
K	'1'B		
M	'0'B		
R	'1'B		
P	'0'B		
F	'0'B		
IPv4 Home Address option	Set to the value "0.0.0.0"	Optional	
II VT HOME AUDIESS OPHOLI	to request allocation for	Optional	
	the UE. The "P" flag is		
	set to '0'B.		
	The Prefix Length is set		
	to the requested prefix		
Alt O (All.	length of '32'.		115.5
Alternate Care-of Address option	Same IPv6 address as		UE IPv6-
	that inserted in the IP		visited
	Source Address field		

0 1141	Evalenation
Condition	Evnlanation
Condition	

UE IPv4	UE is in an IPv4 visited network (see RFC 5555)
UE IPv6-home	UE is in an IPv6 home network (see RFC 5555)
UE IPv6-visited	UE is in an IPv6 visited network (see RFC 5555)

- Binding Acknowledgement

This message is sent by the SS to the UE.

Table 4.7C.2-3: Message Binding Acknowledgement

Information Element	Value/remark	Comment	Condition
IPv4 Source Address	IPv4 Home Agent address		UE IPv4
IPv4 Destination Address	Same value as UE IPv4 CoA in IP Source Address from Binding Update		UE IPv4
UDP header	·		UE IPv4
Source Port	'0001000001011111'B		UE IPv4
Destination port	Same as Source port in Binding Update		UE IPv4
IPv6 Source Address	IPv6 Home Agent address		
IPv6 Destination Address	Same value as UE IPv6 CoA in IP Source Address from Binding Update		UE IPv6- visited
	IPv6 Home Address		UE IPv6- home, UE IPv4
Routing Header	Same value as UE IPv6 Home Address in Destination Header from Binding Update		UE IPv6- visited
Payload Proto	'00111011'B		
МН Туре	'00000110'B	Binding Acknowledgement message	
Status	'00000000'B	Binding Update accepted	
K	Set by the SS	•	
R	'1'B		
P	'0'B		
Sequence Number	Same value as that sent by the UE in the Binding Update		
Lifetime	'0000000010010110'B	10 min	UE IPv6- visited, UE IPv4
	'00000000000000'B		UE IPv6- home
IPv4 Address Acknowledgement option	IPv4 Home Address allocated to the UE	Present if IPv4 Home Address option was included by the UE in Binding Update	
Binding Refresh Advice option	'000000010010110'B	10 min	

Condition	Explanation
UE IPv4	UE is in an IPv4 visited network (see RFC 5555)
UE IPv6-home	UE is in an IPv6 home network (see RFC 5555)
UE IPv6-visited	UE is in an IPv6 visited network (see RFC 5555)

- Binding Revocation Indication

This message is sent by the SS to the UE.

Table 4.7C.2-4: Binding Revocation Indication

Field	Value/remark	Comment	Condition
IPv4 Header			UE IPv4
IPv4 Source Address	UE IPv4 Home Agent address		UE IPv4
UDP header			UE IPv4
Source Port	Set by SS		UE IPv4
Destination port	'0001000001011111'B		UE IPv4
IPv6 Header			
IPv6 Source Address	IPv6 Home Agent address		
IPv6 Destination Address	IPv6 Home Address configured by UE from Home Network Prefix assigned to UE during preamble		UE IPv4
	IPv6 CoA		UE IPv6- visited
Routing Header	IPv6 Home Address configured by the UE from Home Network Prefix assigned to the UE during preamble		UE IPv6- visited
B.R. Type	'0000001'B	B.R.I	
Sequence Number	Set by the SS		
Revocation Trigger	'0000001'B		
Р	'0'B		
G	'0'B		
V	'0'B		

Condition	Explanation
UE IPv4	UE is in an IPv4 visited network (see RFC 5555)
UE IPv6-visited	UE is in an IPv6 visited network (see RFC 5555)

- Binding Revocation Acknowledgement

This message is sent by the UE to the SS.

Table 4.7C.2-5: Binding Revocation Acknowledgement

Information Element	Value/remark	Comment	Condition
IPv4 Header			UE IPv4
IPv4 Source Address	IPv4 CoA		UE IPv4
IPv4 Destination Address	UE IPv4 Home Agent Address		UE IPv4
UDP header		UDP header	UE IPv4
Source Port	'0001000001011111'B	Source Port	UE IPv4
Destination port	Same as Source port in Binding Revocation	Destination port	UE IPv4
IPv6 Header			
IPv6 Source Address	IPv6 Home Address configured by UE		UE IPv4
	IPv6 CoA		UE IPv6- visited
IPv6 Destination Address	IPv6 of Home Agent address	IPv6 Destination Address	
Destination Header	IPv6 Home Address configured by the UE		UE IPv6- visited
B.R. Type	'0000010'B	B.R.A	
Sequence Number	Same value as Sequence Number sent by the SS in Binding Revocation		
Status	'00000000'B	Success	
Р	'0'B		
G	'0'B		
V	'0'B		

Condition	Explanation
UE IPv4	UE is in an IPv4 visited network (see RFC 5555)
UE IPv6-visited	UE is in an IPv6 visited network (see RFC 5555)

4.7D Default GERAN message and information element contents

4.7D.1 GPRS message

PS HANDOVER COMMAND

Table 4.7D.1-1: PS HANDOVER COMMAND

Derivation Path: 44.060 clause 11.2.43.1 Information Element	Value/remark	Comment	Condition
PAGE_MODE	Default	Comment	Condition
Global TFI	TFI of mobile station		
Global TFI	uplink TBF		
CONTAINER_ID	00		
PS Handover to A/Gb Mode Payload	00	PS Handover RR	
1 3 Handover to A/Gb Mode F ayload	00	Info	
PS Handover RR Info flag	00		
PS Handover Radio Resources IE	Present		
Handover Reference	0		
ARFCN	default ARFCN for BCCH of GERAN cell		
SI	00	Non-synchronized	
NCI	0		
BSIC	BSIC of GERAN cell		
0 <ccn_active></ccn_active>	not present		
0 <3G_CCN_ACTIVE>	not present		
0 <ccn description="" support=""></ccn>	not present		
Frequency Parameters	default PDTCH of		
	GERAN cell		
NETWORK_CONTROL_ORDER	2		
0 <global advance="" packet="" timing=""></global>	not present		
EXTENDED_DYNAMIC_ALLOCATION	0		
RLC_RESET	1	RLC is reset	
0 <po></po>	not present		
0 <uplink control="" timeslot=""></uplink>	not present		
0 GPRS mode	Uplink TBF assignment		
	for default PDTCH of		
	GERAN cell		
0 <nas container="" for="" handover="" ie="" ps=""></nas>	not present		

4.8 Reference radio bearer configurations

4.8.1 General

4.8.2 SRB and DRB parameters and combinations

4.8.2.1 SRB and DRB parameters

4.8.2.1.1 SRB configurations

Table 4.8.2.1.1-1: SRB-ToAddMod-DEFAULT

Information Element	Value/remark	Comment	Condition
SRB-ToAddMod-DEFAULT ::= SEQUENCE {			
srb-Identity	1		SRB1
	2		SRB2
rlc-Config CHOICE {			
defaultValue			
}			
logicalChannelConfig CHOICE {			
defaultValue			
}			
}			

4.8.2.1.2 DRB PDCP configurations

4.8.2.1.2.1 DRB PDCP configurations for UM RLC

Table 4.8.2.1.2.1-1: PDCP-Config-DRB-UM

Derivation Path: 36.331 clause 6.3.2			
Information Element	Value/remark	Comment	Condition
PDCP-Config-DRB-UM ::= SEQUENCE {			
discardTimer	ms100	Suitable for real time services	
rlc-AM SEQUENCE {}	Not present		
rlc-UM SEQUENCE {			
pdcp-SN-Size	Len12bits		
}			
headerCompression CHOICE {			
notUsed	NULL		
}			
}			

4.8.2.1.2.2 DRB PDCP configurations for AM RLC

Table 4.8.2.1.2.2-1: PDCP-Config-DRB-AM

Derivation Path: 36.331 clause 6.3.2			
Information Element	Value/remark	Comment	Condition
PDCP-Config-DRB-AM ::= SEQUENCE {			
discardTimer	Infinity		
rlc-AM SEQUENCE {			
statusReportRequired	TRUE		
}			
rlc-UM SEQUENCE {}	Not present		
headerCompression CHOICE {			
notUsed	NULL		
}			
}			

4.8.2.1.3 DRB RLC configurations

4.8.2.1.3.1 DRB UM RLC configurations

Table 4.8.2.1.3.1-1: RLC-Config-DRB-UM

Derivation Path: 36.331 clause 6.3.2			
Information Element	Value/remark	Comment	Condition
RLC-Config-DRB-UM ::= CHOICE {			
um-Bi-Directional SEQUENCE {			
ul-UM-RLC SEQUENCE {			
sn-FieldLength	Size10		
}			
dI-UM-RLC SEQUENCE {			
sn-FieldLength	Size10		
t-Reordering	ms50	ms50 provides	
		sufficient margin	
}	·		
}			
}			

4.8.2.1.3.2 DRB AM RLC configurations

Table 4.8.2.1.3.2-1: RLC-Config-DRB-AM

Derivation Path: 36.331 clause 6.3.2			
Information Element	Value/remark	Comment	Condition
RLC-Config-DRB-AM ::= CHOICE {			
am SEQUENCE {			
ul-AM-RLC SEQUENCE {			
t-PollRetransmit	ms80		
pollPDU	p128		
pollByte	kB125		
maxRetxThreshold	t4		
}			
dl-AM-RLC SEQUENCE {			
t-Reordering	ms80	Is sufficient for 5	
		HARQ	
		transmissions	
t-StatusProhibit	Ms60	Should be equal	
		to or smaller than	
		t-PollRetransmit.	
}			
}			
}			

4.8.2.1.4 DRB Logical Channel configurations

Table 4.8.2.1.4-1: LogicalChannelConfig-DRB

Derivation Path: 36.331 clause 6.3.2			
Information Element	Value/remark	Comment	Condition
LogicalChannelConfig-DRB ::= SEQUENCE {			
ul-SpecificParameters SEQUENCE {			
priority	6		HI
	13		LO
prioritisedBitRate	kBps0	PBR is disabled.	
bucketSizeDuration	ms100		
logicalChannelGroup	1		HI
	2		LO
}			
}			

Condition	Explanation
HI	Used for DRBs with high logical channel priority
LO	Used for DRBs with low logical channel priority

4.8.2.1.5 MAC configurations

Table 4.8.2.1.5-1: MAC-MainConfig-RBC

Derivation Path: 36.331 clause 6.3.2 Information Element	Value/remark	Comment	Condition
MAC-MainConfig-RBC ::= SEQUENCE {			
ul-SCH-Config	Not present		SCell_AddM od
ul-SCH-Config SEQUENCE {			
maxHARQ-Tx	n5		
periodicBSR-Timer	sf20		
	Infinity		no_periodi c_BSR_or_ PHR
retxBSR-Timer	sf320		
	sf10240		no_periodi c_BSR_or_ PHR
ttiBundling	FALSE		
}	N		NOT
drx-Config	Not present		NOT pc_FeatrGrp _5 or SCell_AddM od
drx-Config CHOICE {			pc_FeatrGrp _5 AND DRX_S
setup SEQUENCE {			
onDurationTimer	psf2		
drx-InactivityTimer	psf100		
drx-RetransmissionTimer	psf16		
longDRX-CycleStartOffset CHOICE {		sf40 typical value in real network for real-time services.	
sf40	4		For SIG
	0		For RF
}			
shortDRX	Not present		
}			
}			
drx-Config CHOICE {			pc_FeatrGrp _5 AND DRX_L
setup SEQUENCE {			
onDurationTimer	psf6		
drx-InactivityTimer	psf1920		ļ
drx-RetransmissionTimer	psf16		
longDRX-CycleStartOffset CHOICE {		sf1280 typical value in real network for besteffort services.	
sf1280	4		For SIG
	0		For RF
}			
shortDRX	Not present		
}	·		
}			
timeAlignmentTimerDedicated	sf750		
phr-Config CHOICE {		1	no_periodi

		c_BSR_or_ PHR
release	NULL	
}		
phr-Config	Not present	SCell_AddM od and RF
phr-Config CHOICE {		
setup SEQUENCE {		
periodicPHR-Timer	sf500	
prohibitPHR-Timer	sf200	
dl-PathlossChange	dB3	
}		
}		
sr-ProhibitTimer-r9	Not present	
mac-MainConfig-v1020	Not present	
mac-MainConfig-v1020SEQUENCE {		SCell_AddM od
sCellDeactivationTimer-r10	rf32	
extendedBSR-Sizes-r10	setup	
extendedPHR-r10	setup	
}		
}		

Condition	Explanation
DRX_S	Used for DRX configuration with small DRX cycle length
DRX_L	Used for DRX configuration with large DRX cycle length
no_periodic_BSR_or_PHR	Used to disable BSR and PHR
For SIG	Used for DRX configuration in Protocol testing
For RF	Used for DRX configuration in RRM testing
SCell_AddMod	Addition or modification of SCell

Table 4.8.2.1.5-2: MAC-MainConfig-SRB

Derivation Path: 36.331 clause 6.3.2			
Information Element	Value/remark	Comment	Condition
MAC-MainConfig-SRB ::= SEQUENCE {			
ul-SCH-Config SEQUENCE {			
maxHARQ-Tx	n5		
periodicBSR-Timer	sf20		
retxBSR-Timer	sf320		
ttiBundling	FALSE		
}			
drx-Config CHOICE {			
release	NULL		
}			
timeAlignmentTimerDedicated	sf750		
phr-Config CHOICE {			
setup SEQUENCE {			
periodicPHR-Timer	sf500		
prohibitPHR-Timer	sf200		
dl-PathlossChange	dB3		
}			
}			
}			

4.8.2.1.6 Physical Layer configurations

Table 4.8.2.1.6-1: PhysicalConfigDedicated-DEFAULT

Derivation Path: 36.331 clause 6.3.2			
Information Element	Value/remark	Comment	Condition
PhysicalConfigDedicated-DEFAULT ::= SEQUENCE {			

			1000
pdsch-ConfigDedicated	PDSCH-	See subclause	SRB1 or
	ConfigDedicated-	4.6.3	HO-TO-
	DEFAULT		EUTRA
	Not present		RBC or
			RBC-HO
			SCell_AddM
			od
pucch-ConfigDedicated	PUCCH-	See subclause	SRB1 or
	ConfigDedicated-	4.6.3	RBC-HO or
	DEFAULT		НО-ТО-
			EUTRA
	Not present		RBC
			SCell_AddM
			od
pusch-ConfigDedicated	PUSCH-	See subclause	SRB1 or
	ConfigDedicated-	4.6.3	НО-ТО-
	DEFAULT		EUTRA
	Not present		RBC or
			RBC-HO
			SCell_AddM
			od
uplinkPowerControlDedicated	UplinkPowerControlDedic	See subclause	SRB1 or
	ated-DEFAULT	4.6.3	но-то-
			EUTRA
	Not present		RBC or
	·		RBC-HO
			SCell_AddM
			od _
tpc-PDCCH-ConfigPUCCH	Not present		SRB1
	'		SCell_AddM
			od
	TPC-PDCCH-Config-	See subclause	RBC or
	DEFAULT using	4.6.3	RBC-HO or
	condition PUCCH		HO-TO-
	CONGRESION COOL		EUTRA
tpc-PDCCH-ConfigPUSCH	Not present		SRB1
the i poet comiligi decit	Not present		SCell_AddM
			od
	TPC-PDCCH-Config-	See subclause	RBC or
	DEFAULT using	4.6.3	RBC-HO or
	condition PUSCH	1.0.0	HO-TO-
	condition i deem		EUTRA
cqi-ReportConfig	CQI-ReportConfig-	See subclause	SRB1 or
cqi-reporteoning	DEFAULT	4.6.3	HO-TO-
	DEI AGEI	4.0.3	EUTRA
	CQI-ReportConfig-	See subclause	RBC or
	DEFAULT using	4.6.3	RBC-HO
	condition	4.0.3	KBC-110
	CQI_PERIODIC		
			CA
acunding BC LIL Config Dadioated	Not present		
soundingRS-UL-ConfigDedicated	Not present		SRB1 or
			HO-TO-
			EUTRA
			SCell_AddM
	0	0	od
	SoundingRS-UI-	See subclause	RBC or
	ConfigDedicated-	4.6.3	RBC-HO
antannalafa CHOICE (DEFAULT		
antennalnfo CHOICE {			OTV
explicitValue SEQUENCE {	tm2		2TX
transmissionMode	tm3		
codebookSubsetRestriction CHOICE {	14.41	DIT OTDING	
n2TxAntenna-tm3	'11'	BIT STRING	
•		(SIZE (2))	
		I .	1
Jo TransmitAntenna Calastia - OLIOLOT (
ue-TransmitAntennaSelection CHOICE { Release	NULL		

}			
}			
defaultValue	NULL		
} schedulingRequestConfig	SchedulingRequest- Config-DEFAULT	See subclause 4.6.3	SRB1 or RBC-H or HO-TO- EUTRA
	Not present		RBC SCell_AddM od
cqi-ReportConfig-v920	Not present		
antennalnfo-v920	Not present		
antennalnfo-r10	Not present		
antennalnfoUL-r10	Not present		
cif-Presence-r10	FALSE		SCell_AddM od
	Not present		
cqi-ReportConfig-r10	CQI-ReportConfig-r10- DEFAULT		SCell_AddM od
	Not present		
csi-RS-Config-r10	Not present		
pucch-ConfigDedicated-v1020	PUCCH- ConfigDedicated-v1020- DEFAULT		SCell_AddM od
pusch-ConfigDedicated-v1020	Not present		
schedulingRequestConfig-v1020	Not present		
soundingRS-UL-ConfigDedicated-v1020	Not present		
soundingRS-UL-ConfigDedicatedAperiodic-r10	Not present		
uplinkPowerControlDedicated-v1020	UplinkPowerControlDedic ated-v1020-DEFAULT		SCell_AddM od and (TxD or SRSAp)
	Not present		
additionalSpectrumEmissionCA-r10	Not present		
additionalSpectrumEmissionCA-r10 additionalSpectrumEmissionCA-r10 CHOICE {	Not present		SCell_AddM od and Intra- BC CA SCell_AddM
additional opectrum Emission CA-110 Chorol (od and Inter- B CA and UL CA
setup SEQUENCE {			
additionalSpectrumEmissionPCell-r10	1 (CA_NS_01)		
}			
} epdcch-Config-r11	EPDCCH-Config-r11- DEFAULT		ePDCCH
oni DC ConfigNZDToPologoal int #44	Not present		
csi-RS-ConfigNZPToAddModList r11	Not present		
csi-RS-ConfigNZPToAddModList-r11 csi-RS-ConfigNZPToAddModList-r11 SEQUENCE (SIZE (1maxCSI-RS-NZP-r11)) OF {	Not present 1 entry		DL_CoMP
CSI-RS-ConfigNZP-r11[1]	CSI-RS-ConfigNZP-r11- DEFAULT		
}			
csi-RS-ConfigZPToReleaseList-r11	Not present		
csi-RS-ConfigZPToAddModList-r11 csi-RS-ConfigZPToAddModList-r11 SEQUENCE	Not present 1 entry		DL_CoMP
(SIZE (1maxCSI-RS-ZP-r11)) OF { CSI-RS-ConfigZP-r11[1]	CSI-RS-ConfigZP-r11- DEFAULT		
1	DEFAULT		
pdsch-ConfigDedicated-v1130	PDSCH- ConfigDedicated-v1130-		DL_CoMP

	DEFAULT	
	Not present	
cqi-ReportConfig-v1130	CQI-ReportConfig-v1130- DEFAULT	DL_CoMP
	Not present	
pucch-ConfigDedicated-v1130	PUCCH- ConfigDedicated-v1130- DEFAULT	UL_CoMP
	Not present	
pusch-ConfigDedicated-v1130	PUSCH- ConfigDedicated-v1130- DEFAULT	UL_CoMP
	Not present	
uplinkPowerControlDedicated-v1130	UplinkPowerControlDedic ated-v1130-DEFAULT	UL_CoMP
	Not present	
}		
Note: For signalling test, table 6.6B.1.1.1-1	is applied.	

Condition	Explanation
SRB1	Used at configuration of SRB1 during RRC connection (re-)establishment
RBC	Used at configuration of a radio bearer combination during SRB2+DRB establishment
2TX	Used for cells with two antenna ports
RBC-HO	Used during Handover
SCell_AddMod	Addition or modification of SCell
HO-TO-EUTRA	Inter-RAT handover to E-UTRA
ePDCCH	Used at configuration of ePDCCH
DL_CoMP	Used for DL CoMP
UL_CoMP	Used for UL CoMP
CA	For Carrier Aggregation Test cases
TxD	When PUCCH Transmission Diversity is performed.
SRSAp	Aperiodic SRS configured
Intra-BC CA	Intra-band contiguous Carrier Aggregation
Inter-B CA	Inter-band Carrier Aggregation
UL CA	When UL Carrier Aggregation is used.

4.8.2.1.7 DRB configurations

Table 4.8.2.1.7-1: DRB-ToAddMod-DEFAULT(bid)

Value/remark	Comment	Condition
	bid is the bearer identity (18)	
bid+4		
bid		
PDCP-Config-DRB-AM		AM
PDCP-Config-DRB-UM		UM
RLC-Config-DRB-AM		AM
RLC-Config-DRB-UM		UM
bid+2		
LogicalChannelConfig- DRB using condition HI		UM
LogicalChannelConfig- DRB using condition LO		AM
	bid+4 bid PDCP-Config-DRB-AM PDCP-Config-DRB-UM RLC-Config-DRB-UM bid+2 LogicalChannelConfig-DRB using condition HI LogicalChannelConfig-	bid is the bearer identity (18) bid+4 bid PDCP-Config-DRB-AM PDCP-Config-DRB-UM RLC-Config-DRB-UM RLC-Config-DRB-UM bid+2 LogicalChannelConfig-DRB using condition HI LogicalChannelConfig-

Condition	Explanation
AM	Used for AM DRB
UM	Used for UM DRB

4.8.2.2 SRB and DRB combinations

4.8.2.2.1 Combinations on DL-SCH and UL-SCH

4.8.2.2.1.1 SRB1 and SRB2 for DCCH + n x AM DRB + m x UM DRB, where n=1..N and m=0..M

This SRB and DRB combination is setup with UE Registration procedure and the Generic Radio Bearer Establishment or Generic Radio Bearer Establishment, UE Test Mode Activated procedure using specific message content - the default *RRCConnectionReconfiguration* message with condition SRB2-DRB(n, m).

4.8.3 UTRA reference radio parameters and combinations

Table 4.8.3-1 defines UTRA reference radio parameters and combinations to be used in E-UTRA and UTRA inter-RAT test cases.

Table 4.8.3-1: UTRA reference radio parameters and combinations

Condition	Reference configuration	Comment
UTRA Speech	TS 34.108 subclause 6.10.2.4.1.4	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
UTRA FDD PS RB	TS 34.108 subclause 6.10.2.4.1.26	Interactive or background / UL:64 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
UTRA HSDPA RB	TS 34.108 subclause 6.10.2.4.5.1	Interactive or background / UL:64 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
UTRA HSUPA/HSDPA RB	TS 34.108 subclause 6.10.2.4.6.3	Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH
UTRA PS RB + Speech	TS 34.108 subclause 6.10.2.4.1.40	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH

4.8.4 GERAN reference PDP context parameters

Table 4.8.4-1 defines GERAN reference PDP context parameters to be used in E-UTRA and GERAN inter-RAT test cases.

Table 4.8.4-1: GERAN reference PDP context parameters

Condition	Reference configuration	Comment
GPRS	TS 51.010-1 subclause 40.5, Test	Test PDP context3 is the default Test PDP context which is
	PDP context3.	used in the GERAN Inter-RAT GPRS test cases where no
		particular Test PDP contexts are specified. Compression is
		always turned off if nothing else is stated explicitly in the test
		case.

4.9 Common test USIM, CSIM and ISIM parameters

This clause defines default parameters for programming the elementary files of the test UICC when running conformance test cases defined in 3GPP TS 36.523-1[18].

4.9.1 General

See clause 8.1 in 3GPP TS 34.108 [5].

4.9.1.1 Definitions

See clause 8.1.1 in 3GPP TS 34.108 [5].

4.9.1.2 Definition of the test algorithm for authentication

Same as clause 8.1.2 in 3GPP TS 34.108[5].

4.9.1.2.1 Authentication and key derivation in the test USIM, CSIM and ISIM and SS

UE and SS calculate Ck, Ik, AUTN, RES[XRES] as in clause 8.1.2.1 in 3GPP TS 34.108 [5]. Derivation of K_{ASME} and other E-UTRA Keys shall be as defined in Annex A of 3GPP TS 33.401 [31], using Key derivation function HMAC-SHA-256 algorithm.

4.9.1.2.2 Generation of re-synchronization parameters in the USIM, CSIM and ISIM

Same as clause 8.1.2.1 in 3GPP TS 34.108[5].

4.9.1.2.3 Using the authentication test algorithm for UE conformance testing

See clause 8.1.2.3 in 3GPP TS 34.108 [5].

4.9.2 Default parameters for the test USIM, CSIM and ISIM

Same as clause 8.2 in 3GPP TS 34.108 [5].

4.9.3 Default settings for the Elementary Files (EFs)

The format and coding of elementary files of the USIM are defined in 3GPP TS 31.101 [32] and 3GPP TS 31.102 [33]. Those of the ISIM are defined in 3GPP TS 31.101 [32] and 3GPP TS 31.103 [45]. Those of the CSIM are defined in 3GPP2 C.S0065-B [48].

The settings of the elementary files at the MF and USIM ADF (Application DF) level resp. the ISIM ADF (Application DF) level are the same as section 8.3 in 3GPP TS 34.108 [5] resp. section 4.2 in 3GPP TS 34.229-1 Annex E [46] and 3GPP TS 34.229-3 Annex B.1 [47] with the exceptions listed below. The settings of the elementary files at the CSIM ADF (Application DF) level as specified below. Note that some files may be updated by the UE based on information received from the SS.

4.9.3.1 Modified contents of the USIM Elementary Files and additional USIM Elements files at the DF ProSe level

EF_{EPSLOCI} (EPS location information)

File size: 18 Bytes

Bytes 13 to 17 (HEX): 42 F6 18 FF FE (Last visited registered TAI)

Byte 18 (BIN): 00000001 (EPS update status = "not updated")

Bytes 13 to 17: TAI-MCC = 246 (bytes 13 to 14) and TAI-MNC = 81 (byte 15) are frequently used. The TAC (bytes 16 to 17) is set to "FF FE" since this, in conjunction with byte 18 setting of "01", is used to ensure that the UE performs Attach at the beginning of a test.

Bytes in this file (e.g. GUTI in bytes 1 to 12) may be updated as a result of a tracking area update attempt by the UE.

EF_{EPSNSC} (EPS NAS Security Context)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

EF_{NASCONFIG} (Non Access Stratum Configuration)

File size: 28 Bytes

Default values: Bytes 1 to 28 (HEX): FF FF ... FF

The programming of this EF follows the specific USIM requirements given in 3GPP TS 36.523-1 [18].

EFUST (USIM Service Table):

Services		Activated	Version
Service n°15:	Cell Broadcast Message Identifier	Optional	
Service n°16:	Cell Broadcast Message Identifier Ranges	Optional	
Service n°85	EPS Mobility Management Information	Yes	
Service n°87	Call control on EPS PDN connection by USIM	No	
Service n°96	Non Access Stratum Configuration	Optional	
Service n°101	ProSe	Optional	

EF_{PROSE ANN} (ProSe Announcing Parameters)

EF_{PROSE MON} (ProSe Monitoring Parameters)

EF_{PROSEFUNC} (HPLMN ProSe Function)

EF_{PROSE RADIO COM} (ProSe Direct Communication Radio Parameters)

EF_{PROSE POLICY} (ProSe Policy Parameters)

EF_{PROSE PLMN} (ProSe PLMN Parameters)

EF_{PROSE_GC} (ProSe Group Counter)

EF_{PST} (ProSe Service Table)

Editor's Note: Preconfigured parameter for sidelink direct communication will be stored in test SIM

4.9.3.2 Modified contents of the CSIM Elementary Files

EF_{COUNT} (Call Count)

The programming of this EF follows default parameter written in 3GPP2 C.S0065-B [48], Annex E.

EF_{IMSI M} (IMSI_M)

The programming of this EF follows default parameter written in 3GPP2 C.S0065-B [48], Annex E.

EF_{IMSI T} (IMSI_T)

The programming of this EF follows default parameter written in 3GPP2 C.S0065-B [48], Annex E.

EF_{TMSI} (TMSI)

The programming of this EF follows default parameter written in 3GPP2 C.S0065-B [48], Annex E.

EF_{AH} (Analog Home SID)

The programming of this EF follows default parameter written in 3GPP2 C.S0065-B [48], Annex E.

EF_{AOP} (Analog Operational Parameters)

The programming of this EF is a test house option.

EF_{ALOC} (Analog Location and Registration Indicators)

The programming of this EF is a test house option.

EF_{CDMAHOME} (CDMA Home SID, NID)

Record size: 5 Bytes

Record count:6

Record 1:

Default values: Bytes 1 to 2 (HEX): E8 03 (CDMA Home SID (SIDp): 1000)

Bytes 3 to 4 (HEX): AE 08 (CDMA Home NID (NIDp): 2222)

Bytes 5 (HEX): 00 (Band Class: 0 (800 MHz cellular band))

Record 2:

Default values: Bytes 1 to 2 (HEX): E8 03 (CDMA Home SID (SIDp): 1000)

Bytes 3 to 4 (HEX): AE 08 (CDMA Home NID (NIDp): 2222)

Bytes 5 (HEX): 01 (Band Class: 1 (1.8 to 2.0 GHz PCS band))

Record 3:

Default values: Bytes 1 to 2 (HEX): E8 03 (CDMA Home SID (SIDp): 1000)

Bytes 3 to 4 (HEX): AE 08 (CDMA Home NID (NIDp): 2222)

Bytes 5 (HEX): 03 (Band Class: 3 (832 to 925 MHz JTACS band))

Record 4:

Default values: Bytes 1 to 2 (HEX): E8 03 (CDMA Home SID (SIDp): 1000)

Bytes 3 to 4 (HEX): AE 08 (CDMA Home NID (NIDp): 2222)

Bytes 5 (HEX): 04 (Band Class: 4 (1.75 to 1.87 GHz Korean PCS band))

Record 5:

Default values: Bytes 1 to 2 (HEX): E8 03 (CDMA Home SID (SIDp): 1000)

Bytes 3 to 4 (HEX): AE 08 (CDMA Home NID (NIDp): 2222)

Bytes 5 (HEX): 05 (Band Class: 5 (450 MHz NMT band))

Record 6:

Default values: Bytes 1 to 2 (HEX): E8 03 (CDMA Home SID (SIDp): 1000)

Bytes 3 to 4 (HEX): AE 08 (CDMA Home NID (NIDp): 2222)

Bytes 5 (HEX): 06 (Band Class: 6 (2 GHz IMT-2000 band))

EF_{ZNREGI} (CDMA Zone-Based Registration Indicators)

The programming of this EF follows default parameter written in 3GPP2 C.S0065-B [48], Annex E.

EF_{SNREGI} (CDMA System-Network Registration Indicators)

The programming of this EF is a test house option.

EF_{DISTREGI} (CDMA Distance-Based Registration Indicators)

The programming of this EF follows default parameter written in 3GPP2 C.S0065-B [48], Annex E.

EF_{ACCOLC} (Access Overload Class ACCOLCp)

The 4 LSB of this 1 byte file are der-bit access overload class indicator is derived from the last digit of the associated decimal representation of the IMSI_M vis decimal to binary conversion.

File size: 1 byte

Default value: Bits 4 to 7 are reserved and set to '0000'. Bits 0 to 3 are derived from the last digit of the

associated decimal representation of the IMSI M via decimal to binary conversion.

EF_{TERM} (Call Termination Mode Preferences)

The programming of this EF is a test house option.

EF_{SSCI} (Suggested Slot Cycle Index)

The programming of this EF is a test house option.

EF_{ACP} (Analog Channel Preferences)

The programming of this EF is a test house option.

EF_{PRL} (Preferred Roaming List)

File size: 18 Bytes

Default values: Bytes 1 to 18 (HEX): 00 12 00 00 00 00 40 01 21 00 02 80 00 50 00 00 6E DB

The interpretation of the default values read as follows:

PRL ID - 0

Preferred only – 0

Default roaming indication – 0

Number of Acquisition Records – 1

Number of system records – 1

EF_{RUIMID} (Removable UIMID)

This EF stores a 32-bit electronic identification number (ID) unique to the CSIM or a 32-bit pseudo-UIMID of the CSIM. It is specified by the CSIM manufacturer.

EF_{CSIM_ST} (CSIM Service Table)

Services will be allocated and activated as follows.

Services		Activated	Version
Service n°1:	Local Phone Book	Option	
Service n°2:	Fixed Dialling Numbers (FDN)	Option	
Service n°3:	Extension 2	Option	
Service n°4:	Service Dialling Numbers (SDN)	Option	
Service n°5:	Extension3	Option	
Service n°6:	Short Message Storage	Yes	
Service n°7:	Short Message Parameters (SMP)	Yes	
Service n°8:	HRPD	Yes	
Service n°9:	Service Category Program for BC-SMS	Option	
Service n°10:	CDMA Home Service Provider Name	Yes	
Service n°11:	Data Download via SMS Broadcast (for CCAT)	Option	
Service n°12:	Data Download via SMS-PP (for CCAT)	Option	
Service n°13:	Call Control (for CCAT)	Option	
Service n°14:	3GPD-SIP	Option	
Service n°15:	3GPD-MIP	Option	
Service n°16:	AKA	Yes	
Service n°17:	IP-based Location Services (LCS)	Option	
Service n°18:	BCMCS	Option	
Service n°19:	Multimedia Messaging Service (MMS)	Option	
Service n°20:	Extension 8	Option	
Service n°21:	MMS User Connectivity Parameters	Option	
Service n°22:	Application Authentication	Option	
Service n°23:	Group Identifier Level 1	Option	
Service n°24:	Group Identifier Level 2	Option	
Service n°25:	De-Personalization Control Keys	Option	
Service n°26:	Cooperative Network List	Option	
Service n°27:	Outgoing Call Information (OCI)	Option	
Service n°28:	Incoming Call Information (ICI)	Option	
Service n°29:	Extension 5	Option	
Service n°30:	Multimedia Storage	Option	

Services		Activated	Version
Service n°31:	Image (EFIMG)	Option	
Service n°32:	Enabled Services Table	Yes	
Service n°33:	Capability Configuration Parameters (CCP)	Option	
Service n°34:	SF_EUIMID-based EUIMID	Option	
Service n°35:	Messaging and 3GPD Extensions	Option	
Service n°36:	Root Certificates	Option	
Service n°37:	WAP Browser	Option	
Service n°38:	Java	Option	
Service n°39:	Reserved for CDG	No	
Service n°40:	Reserved for CDG	No	
Service n°41:	IPv6	Option	
Service n°42:	Proactive CSIM (for CCAT)	Option	

EF_{SPC} (Service Programming Code)

The programming of this EF follows default parameter written in 3GPP2 C.S0065-B [48], Annex E.

EF_{OTAPASPC} (OTAPA/SPC_Enabled)

The programming of this EF follows default parameter written in 3GPP2 C.S0065-B [48], Annex E.

EF_{NAMLOCK} (NAM_LOCK)

The programming of this EF is a test house option.

EF_{OTA} (OTASP/OTAPA Features)

The programming of this EF is a test house option.

EF_{SP} (Service Preferences)

The programming of this EF is a test house option.

EF_{ESN MEID ME} (ESN_ME or MEID_ME)

The programming of this EF follows default parameter written in 3GPP2 C.S0065-B [48], Annex E.

EF_{II} (Language Indication)

The programming of this EF is a test house option.

EF_{FDN} (Fixed Dialling Numbers)

The programming of this EF is a test house option.

EF_{SMS} (Short Messages)

The programming of this EF follows default parameter written in 3GPP2 C.S0065-B [48], Annex E.

EF_{SMSP} (Short Message Service Parameters)

Record size: 12 Bytes

Record count: 1

Record 1:

Default values: Bytes 1 to 23 (HEX): 00 02 10 02 5D FE FF FF 02 F5 FF FF FF FF FF FF FF FF FF

08 03 08 01 C0

The interpretation of the default values in this record read as follows:

Teleservice Identifier: CDMA Cellular Messaging Teleservice [CMT-95]

Parameter Indicators: MSG_ENCODING, Validity Period, Bearer Data

Message Encoding: 7-bit ASCII

Validity Period: Indefinite

Bearer Data:

Priority Indicator: Emergency

EF_{SMSS} (SMS Status)

The programming of this EF follows default parameter written in 3GPP2 C.S0065-B [48], Annex E.

EF_{SSFC} (Supplementary Services Feature Code Table)

The programming of this EF is a test house option.

EF_{SPN} (CDMA Home Service Provider Name)

File size: 35 Bytes

Default values: Bytes 1 to 35 (HEX): 01 02 01 44 65 66 61 75 6C 74 20 53 65 72 76 69 63 65 20 50 72 6F

76 69 64 65 72 20 4E 61 6D 65 FF FF FF

The interpretation of the default values read as follows:

Display Condition: Display of registered system is required

Character Encoding: 7-bit ASCII Language Indicator: 1 (English)

Service Provider Name: "Default Service Provider Name"

EF_{USGIND} (UIMID/SF_EUIMID Usage Indicator)

The programming of this EF is a test house option.

EF_{AD} (Administrative Data)

The programming of this EF follows default parameter written in 3GPP2 C.S0065-B [48], Annex E.

EF_{MDN} (Mobile Directory Number)

The programming of this EF is a test house option.

EF_{MAXPRL} (Maximum PRL)

The programming of this EF is a test house option.

EF_{SPCS} (SPC Status)

If EF_{SPC} is set to default value of '00 00 00', then EF_{SPCS} shall be set to '00', otherwise it shall be set to '01'.

EF_{ECC} (Emergency Call Codes)

The programming of this EF follows default parameter written in 3GPP2 C.S0065-B [48], Annex E.

EF_{ME3GPDOPC} (ME 3GPD Operation Capability)

The programming of this EF follows default parameter written in 3GPP2 C.S0065-B [48], Annex E.

EF_{3GPDOPM} (3GPD Operation Mode)

The programming of this EF is a test house option.

EF_{SIPCAP} (SimpleIP Capability Parameters)

The programming of this EF is a test house option.

EF_{MIPCAP} (MobileIP Capability Parameters)

The programming of this EF is a test house option.

EF_{SIPUPP} (SimpleIP User Profile Parameters)

The programming of this EF is a test house option.

EF_{MIPUPP} (MobileIP User Profile Parameters)

The programming of this EF is a test house option.

EF_{SIPSP} (SimpleIP Status Parameters)

The programming of this EF is a test house option.

EF_{MIPSP} (MobileIP Status Parameters)

The programming of this EF is a test house option.

EF_{SIPPAPSS} (SimpleIP PAP SS Parameters)

The programming of this EF is a test house option.

EF_{PUZL} (Preferred User Zone List)

The programming of this EF is a test house option.

EF_{MAXPUZL} (Maximum PUZL)

The programming of this EF is a test house option.

EF_{MECRP} (ME-specific Configuration Request Parameters)

The programming of this EF follows default parameter written in 3GPP2 C.S0065-B [48], Annex E.

EF_{HRPDCAP} (HRPD Access Authentication Capability Parameters)

File size: 3 Bytes

Default values: Bytes 1 to 3 (HEX): 20 F8 80

The interpretation of the default values read as follows:

Maximum NAI Length: 32

Maximum Length of Shared Secret: 31

Authentication Algorithms: PPP CHAP

EF_{HRPDUPP} (HRPD Access Authentication User Profile Parameters)

File size: 14 Bytes

Default values: Bytes 1 to 14 (HEX): 0D 0B 61 62 63 40 78 79 7A 2E 63 6F 6D 10

The interpretation of the default values read as follows:

HRPD Profile NAI: "abc@xyz.com"

HRPD Profile Authentication Algorithm: CHAP

EF_{CSSPR} (CUR_SSPR_P_REV)

The programming of this EF follows default parameter written in 3GPP2 C.S0065-B [48], Annex E.

EF_{ATC} (Access Terminal Class)

The programming of this EF is a test house option.

EF_{EPRL} (Extended Preferred Roaming List)

File size: 129 Bytes

Default values: Bytes 1 to 16 (HEX): 00 81 00 00 03 00 01 80 00 04 00 0A 04 01 64 03

Bytes 17 to 32 (HEX): 0B 0B 04 01 64 03 F5 0A 04 0A 58 08 19 0B 04 0A

Bytes 33 to 48 (HEX): 58 0C 97 0A 02 31 13 0B 02 30 C8 71 C0 02 00 10

Bytes 49 to 64 (HEX): 1F 01 00 C8 FF FF 00 80 00 38 E0 08 00 00 80 00

Bytes 65 to 80 (HEX): 71 E0 12 00 10 1F 01 00 C8 FF FF 00 80 00 38 E0

Bytes 81 to 96 (HEX): 18 00 00 80 00 71 C0 22 00 10 1F 01 00 C8 FF FF

Bytes 97 to 112 (HEX): 00 80 80 38 E0 28 00 00 80 80 71 E0 02 00 10 1F

Bytes 113 to 128 (HEX):01 00 C8 FF FF 00 80 80 38 E0 08 00 00 80 80 2B

Byte 129 (HEX): 6E

The interpretation of the default values read as follows:

PRL ID - 0

List Type: IS-683D

Preferred only – 0

Default roaming indication – 0

Number of acquisition records – 6

- Index: 0, Type: CDMA Generic, Band: 0, Channel: 356 and 779

- Index: 1, Type: HDR Generic Band: 0, Channel: 356 and 1013

- Index: 2, Type: CDMA Generic, Band: 1, Channel: 600 and 25

- Index: 3, Type: HDR Generic, Band: 1, Channel: 600 and 1175

- Index: 4, Type: CDMA Generic, Band: 6, Channel: 275

- Index: 5, Type: HDR Generic, Band: 6, Channel: 200

Number of records in the Common Subnet Table – 0

Number of system records – 8

- Acquisition Index: 1, Type: IS-856, Roam Indicator: 0, Subnet ID: /0, Association Tag: 0
- Acquisition Index: 3, Type: IS-856, Roam Indicator: 0, Subnet ID: /0, Association Tag: 0
- Acquisition Index: 5, Type: IS-856, Roam Indicator: 0, Subnet ID: /0, Association Tag: 1
- Acquisition Index: 1, Type: IS-856, Roam Indicator: 0, Subnet ID: /0, Association Tag: 1
- Acquisition Index: 0, Type: MCC-MNC-based, Roam Indicator: 0, Subnet ID: MCC-MNC SID/NID, MCC: 001, MNC: 01, SID: 200, NID: 65535100, Association Tag: 0
- Acquisition Index: 2, Type: MCC-MNC-based, Roam Indicator: 0, Subnet ID: MCC-MNC SID/NID, MCC: 001, MNC: 01, SID: 200, NID: 65535100, Association Tag: 0
- Acquisition Index: 4, Type: MCC-MNC-based, Roam Indicator: 0, Subnet ID: MCC-MNC SID/NID, MCC: 001, MNC: 01, SID: 200, NID: 65535100, Association Tag: 1
- Acquisition Index: 0, Type: MCC-MNC-based, Roam Indicator: 0, Subnet ID: MCC-MNC SID/NID, MCC: 001, MNC: 01, SID: 200, NID: 65535, Association Tag: 1

EF_{MSPL} (Multimode system selection System Priority List)

File size: 18 Bytes

Default values: Bytes 1 to 18 (HEX): 00 0F 01 00 01 01 01 03 07 08 02 0C 00 3E 00 FF FF FF

The interpretation of the default values read as follows:

Current MMSS_P_REV - 1

MLPL Version ID - 1

MLPL Identification – 1

Number of MLPL Records – 1

- Index: 1, Location Parameter Type Value: default, MSPL Index: 1

EF_{MLPL} (Multimode system selection Location associated Priority List)

File size: 18 Bytes

The interpretation of the default values read as follows:

Current MMSS_P_REV - 1

MSPL Version ID - 1

MSPL Block 1:

MSPL Identification – 1,

Number of MSPL ID1 records – 3

- Index 1: System Type: EUTRA, Priority Class: Home Only, System Priority: 1, Higher Priority Search Time: 64 minutes, Network Capability Indicator: no Network CAP used
- Index 2: System Type: cdma2000 HRPD, Priority Class: Home + Preferred, System Priority: 1, Higher Priority Search Time: 64 minutes, Network Capability Indicator: no Network CAP used
- Index 3: System Type: cdma2000 AI, Priority Class: Any, System Priority: 1, Higher Priority Search Time: 64 minutes, Network Capability Indicator: no Network CAP used

EF_{BCSMScfg} (Broadcast Short Message Configuration)

The programming of this EF is a test house option.

EF_{BCSMSpref} (Broadcast Short Message Preference)

The programming of this EF follows default parameter written in 3GPP2 C.S0065-B [48], Annex E.

EF_{BCSMStable} (Broadcast Short Message Table)

The programming of this EF follows default parameter written in 3GPP2 C.S0065-B [48], Annex E.

EF_{BCSMSP} (Broadcast Short Message Parameter)

The programming of this EF follows default parameter written in 3GPP2 C.S0065-B [48], Annex E.

EF_{BAKPARA} (Currently used BAK Parameters)

The programming of this EF is a test house option.

EF_{UpBAKPARA} (Updated BAK Parameters)

The programming of this EF is a test house option.

EF_{MMSN} (MMS Notification)

The programming of this EF follows default parameter written in 3GPP2 C.S0065-B [48], Annex E.

EF_{EXT8} (Extension 8)

The programming of this EF follows default parameter written in 3GPP2 C.S0065-B [48], Annex E.

EF_{MMSICP} (MMS Issuer Connectivity Parameters)

The programming of this EF follows default parameter written in 3GPP2 C.S0065-B [48], Annex E.

EF_{MMSUP} (MMS User Preferences)

The programming of this EF follows default parameter written in 3GPP2 C.S0065-B [48], Annex E.

EF_{MMSUCP} (MMS User Connectivity Parameters)

The programming of this EF follows default parameter written in 3GPP2 C.S0065-B [48], Annex E.

EF_{AuthCapability} (Authentication Capability)

The programming of this EF follows default parameter written in 3GPP2 C.S0065-B [48], Annex E.

EF_{3GCIK} (3G Cipher and Integrity Keys)

The programming of this EF is a test house option.

EF_{DCK} (De-Personalization Control Keys)

The programming of this EF is a test house option.

EF_{GID1} (Group Identifier Level 1)

The programming of this EF is a test house option.

EF_{GID2} (Group Identifier Level 2)

The programming of this EF is a test house option.

EF_{CDMACNL} (CDMA Co-operative Network List)

The programming of this EF is a test house option.

EF_{HOME_TAG} (Home System Tag)

The programming of this EF is a test house option.

EF_{GROUP TAG} (Group Tag List)

The programming of this EF is a test house option.

EF_{SPECIFIC TAG} (Specific Tag List)

The programming of this EF is a test house option.

EF_{CALL PROMPT} (Call Prompt List)

The programming of this EF is a test house option.

EF_{SF EUIMID} (Short Form EUIMID)

Specified by CSIM Manufacturer.

EF_{EST} (Enabled Service Table)

The programming of this EF is a test house option.

EF_{HiddenKey} (Key for hidden phone book entries)

The programming of this EF is a test house option.

EF_{LCSVER} (LCS Protocol Version)

The programming of this EF is a test house option.

EF_{LCSCP} (LCS Connectivity Parameter)

The programming of this EF is a test house option.

EF_{SDN} (Service Dialling Numbers)

The programming of this EF is a test house option.

EF_{EXT2}(Extension2)

The programming of this EF is a test house option.

EF_{EXT3}(Extension3)

The programming of this EF is a test house option.

EFICI (Incoming Call Information)

The programming of this EF is a test house option.

EF_{OCI} (Outgoing Call Information)

The programming of this EF is a test house option.

EF_{EXT5} (Extension 5)

The programming of this EF is a test house option.

EF_{CCP2} (Capability Configuration Parameters 2)

The programming of this EF is a test house option.

EF_{AppLabels} (Application Labels)

The programming of this EF is a test house option.

EF_{Model} (Device Model Information)

The programming of this EF follows default parameter written in 3GPP2 C.S0065-B [48], Annex E.

EF_{RC} (Root Certificates)

The programming of this EF is a test house option.

EF_{SMSCAP} (SMS Capabilities)

File size: 4 Bytes

Default values: Bytes 1 to 4 (HEX): 3C 08 07 01

The interpretation of the default values read as follows:

SMS Retry Period: 60 seconds

SMS Retry Interval: 8 seconds

SMS Flags:

Send On Access: True

Send on Traffic: True

Send as Standard EMS: True

SMS Preferred Service Option: SO 6

EF_{MIPFlags} (MobileIP Flags)

The programming of this EF is a test house option.

EF_{3GPDUPPExt} (3GPD User Profile Parameters Extension)

The programming of this EF is a test house option.

EF_{IPV6CAP} (IPv6 Capabilities)

The programming of this EF is a test house option.

EF_{TCPConfig} (TCp Configurations)

The programming of this EF is a test house option.

EF_{DGC} (Data Generic Configurations)

The programming of this EF is a test house option.

EF_{WAPBrowserCP} (WAP Browser Connectivity Parameters)

The programming of this EF is a test house option.

EF_{WAPBrowserBM} (WAP Browser Bookmarks)

The programming of this EF follows default parameter written in 3GPP2 C.S0065-B [48], Annex E.

EF_{MMSConfig} (MMS Configuration)

The programming of this EF is a test house option.

EF_{JDL} (Java Download URL)

The programming of this EF is a test house option.

5 Test environment for RF test

This section contains all the exceptions of the common test parameters specified in clause 4 for specific needs of test cases defined in TS 36.521-1 [21]. Exceptions specified in clause 5 overwrite the parameter settings of clause 4; exceptions defined within the test cases overwrite parameter settings of clause 4 and 5.

5.1 Requirements of test equipment

No common RF test environment requirements are specified in addition to the common requirements described in clause 4.2. Specific RF requirements are indicated within the test cases defined in TS 36.521-1 [21].

5.2 RF Reference system configurations

5.2.1 Common parameters for simulated E-UTRA cells

5.2.1.1 Combinations of system information blocks

The combination of system information blocks required by a test case depends on the test case scenario. In this clause, the following combinations of system information blocks are defined.

Combination 1 is the default combination which applies to the following test case scenarios:

- E-UTRA FDD single cell scenario
- E-UTRA TDD single cell scenario
- E-UTRA FDD intra-frequency multi cell scenario
- E-UTRA TDD intra-frequency multi cell scenario

Combination 2 applies to the following test case scenarios:

- E-UTRA FDD + MBMS
- E-UTRA TDD + MBMS

Combination 3 applies to the following test case scenarios:

- E-UTRA FDD intra-band carrier aggregation component carriers cell scenario
- E-UTRA FDD inter-band carrier aggregation component carriers cell scenario
- E-UTRA TDD intra-band carrier aggregation component carriers cell scenario

The combinations of system information blocks for test cases in TS 36.521-1 [21] is defined in table 5.2-1.1-1.

Table 5.2.1.1-1: Combinations of system information blocks

			System information block type									
Combination No.	SIB2	SIB3	SIB4	SIB5	SIB6	SIB7	SIB8	SIB9	SIB10	SIB11	SIB12	SIB13
1	Х	Х										
2	Х	Х										Χ
3	X	X		Х								

5.2.1.2 Scheduling of system information blocks

The scheduling configurations for combinations of system information blocks are defined in the following tables. SIB1 will be transmitted during subframes#5 which SFN mod 2 = 0, and SIB2+SIB3 will be transmitted during subframes#5

which SFN mod 2 = 1 with 8 radio frames periodicity. SIB5 will be transmitted during subframes#5 which SFN mod 2 = 1 with 64 radio frames periodicity

Table 5.2.1.2-1: Scheduling for combination 1

Scheduling Information No.	Periodicity [radio frames]	Mapping of system information blocks
1	8	SIB2, SIB3

Table 5.2.1.2-2: Scheduling for combination 2

Scheduling Information No.	Periodicity [radio frames]	Mapping of system information blocks
1	8	SIB2, SIB3
2	64	SIB13

Table 5.2.1.2-3: Scheduling for combination 3

Scheduling Information No.	Periodicity [radio frames]	Mapping of system information blocks
1	8	SIB2, SIB3
2	64	SIB5

5.2.1.3 Common contents of system information messages

- MasterInformationBlock

As defined in Table 4.4.3.2-1 without exceptions.

- SystemInformation

As defined in Table 5.2.1.3-1As defined in Table without exceptions.

Table 5.2.1.3-1: SystemInformation

Derivation Path: Clause 4.4.3.2 Table 4.4.3.2-2						
Information Element	Value/remark	Comment	Condition			
SystemInformation ::= SEQUENCE {						
criticalExtensions CHOICE {						
systemInformation-r8 SEQUENCE {						
sib-TypeAndInfo SEQUENCE (SIZE	See subclause 5.2.1.1					
(1maxSIB)) OF CHOICE {}	and 5.2.1.2					
criticalExtensionsFuture SEQUENCE {}	Not present					
}						
}						
}						

- SystemInformationBlockType1

As defined in Table 4.4.3.2-3 with the following exceptions:

Table 5.2.1.3-2: SystemInformationBlockType1 exceptions

Derivation Path: Clause 4.4.3.2 Table 4.4.3.2-3						
Information Element	Value/remark	Comment	Condition			
SystemInformationBlockType1 ::= SEQUENCE {						
si-WindowLength	ms40					
}						

- SystemInformationBlockType2

As defined in Table 4.4.3.3-1 with the following exceptions:

Table 5.2.1.3-3: SystemInformationBlockType2 exceptions

Derivation Path: Clause 4.4.3.3 Table 4.4.3.3-1			
Information Element	Value/remark	Comment	Condition
SystemInformationBlockType2 ::= SEQUENCE {			
timeAlignmentTimerCommon	infinity		
}			

5.2A Generic RF procedures

The UE test state used for testing is specified in the individual test cases in the corresponding test specification TS 36.521-1 [21] or TS 36.521-3 [34].

This clause describes UE test states which can be used in the initial condition of many test cases defined in TS 36.521-1 [21] and TS 36.521-3 [34].

5.2A.1 UE RF test states

Table 5.2A.1-1: The E-UTRAN UE states

		RRC	ECM	ЕММ	ESM	UE Test Mode
State 2A-RF	Registered, Idle Mode, UE Test Mode Activated	RRC_IDLE	ECM-IDLE	EMM-REGISTERED	1 default EPS bearer context active	Active
State 3A-RF	Generic Default RB Established, UE Test Mode Activated	RRC_CONNECTED 1 data radio bearer configured	ECM-CONNECTED	EMM-REGISTERED	1 default EPS bearer context active	Active

5.2A.1A Registered, Idle Mode, UE Test Mode Activated (State 2A-RF)

Editor's notes:

- State 2A as defined in Section 4.5.2A of TS 36.508 version 12.3.1 is allowed to be used instead of State 2A-RF for a transition period until RAN#68 (June 2015).
- Handling of UEs that set pc_Disable_E-UTRA_NOIMSVoIP to TRUE is still pending discussion.

5.2A.1A.1 Initial conditions

System Simulator:

- 1 cell, default parameters.
- The procedure shall be performed under ideal radio conditions as defined in clause 5

User Equipment:

- The Test USIM shall be inserted.

5.2A.1A.2 Definition of system information messages

The default system information messages are used.

5.2A.1A.3 Procedure

Table 5.2A.1A.3-1: UE registration with test mode activation procedure (state 1 to state 2A-RF)

Step	Step Procedure Message Seque		
		U-S	Message
1 to 9a2	Steps 1 to 9a2 as specified in the procedure in clause 4.5.2.3 take place	-	-
10	The SS transmits an ACTIVATE TEST MODE	<	RRC: DLInformationTransfer
	message to activate UE radio bearer test		TC: ACTIVATE TEST MODE
	mode procedure.		
11	The UE transmits an ACTIVATE TEST MODE	>	RRC: ULInformationTransfer
	COMPLETE message.		TC: ACTIVATE TEST MODE COMPLETE
12	The SS transmits a SecurityModeCommand	<	RRC: SecurityModeCommand
	message to activate AS security.		,
13	The UE transmits a SecurityModeComplete	>	RRC: SecurityModeComplete
	message and establishes the initial security		, i
	configuration.		
14	The SS transmits a UECapabilityEnquiry	<	RRC: UECapabilityEnquiry
	message to initiate the UE radio access		
	capability transfer procedure.		
15	The UE transmits a UECapabilityInformation	>	RRC: UECapabilityInformation
	message to transfer UE radio access		
	capability.		
16	The SS transmits an	<	RRC: RRCConnectionReconfiguration
	RRCConnectionReconfiguration message to		NAS: ATTACH ACCEPT
	establish the default bearer with condition		NAS: ACTIVATE DEFAULT EPS
	SRB2-DRB(1, 0) according to 4.8.2.2.1.1.		BEARER CONTEXT REQUEST
	This message includes the ATTACH ACCEPT		
	message. The ACTIVATE DEFAULT EPS		
	BEARER CONTEXT REQUEST message is		
	piggybacked in ATTACH ACCEPT.		
17	The UE transmits an	>	RRC:
	RRCConnectionReconfigurationComplete		RRCConnectionReconfigurationComplete
	message to confirm the establishment of		
	default bearer.		
-	EXCEPTION: IF pc_Disable_E-	-	-
	UTRA_NOIMSVoIP is set to TRUE THEN in		
	parallel to the event described in step 18		
	below the generic procedure for IMS		
	signalling in the U-plane specified in TS		
	36.508 subclause 4.5A.3 takes place if		
	requested by the UE		
18	This message includes the ATTACH	>	RRC: ULInformationTransfer
	COMPLETE message. The ACTIVATE		NAS: ATTACH COMPLETE
	DEFAULT EPS BEARER CONTEXT		NAS: ACTIVATE DEFAULT EPS
	ACCEPT message is piggybacked in		BEARER CONTEXT ACCEPT
	ATTACH COMPLETE.		
-	EXCEPTION: Steps19a1 to 19b6 describe	-	-
	behaviour that depends on UE configuration;		
	the "lower case letter" identifies a step		
	sequence that takes place if a particular		
<u> </u>	configuration has been chosen		
19a1	IF IMS voice not supported and	>	RRC: ULInformationTransfer
	pc_voice_PS_1_CS_2, pc_attach and		NAS: TRACKING AREA UPDATE
	pc_TAU_connected_in_IMS are set to TRUE		REQUEST
	(Note 1) THEN the UE transmits a		
	TRACKING AREA UPDATE REQUEST		
	message.		
19a2	The SS transmits a TRACKING AREA	<	RRC: DLInformationTransfer
	UPDATE ACCEPT message.		NAS: TRACKING AREA UPDATE
			ACCEPT
19a3	The UE transmits a TRACKING AREA	>	RRC: ULInformationTransfer
	UPDATE COMPLETE message.		NAS: TRACKING AREA UPDATE
			COMPLETE
19b1	ELSE IF IMS voice not supported and	<	RRC: RRCConnectionRelease
	pc_voice_PS_1_CS_2, pc_attach and		

	pc_TAU_idle_in_IMS are set to TRUE (Note 2) THEN the SS transmits an RRCConnectionRelease message to release the RRC connection.			
19b2	The UE transmits an RRCConnectionRequest message.	>	RRC: RRCConnectionRequest	
19b3	The SS transmit an RRCConnectionSetup message.	<	RRC: RRCConnectionSetup	
19b4	The UE transmits an RRCConnectionSetupComplete message including a TRACKING AREA UPDATE REQUEST message.	>	RRC: RRCConnectionSetupComplete NAS: TRACKING AREA UPDATE REQUEST	
19b5	The SS transmits a TRACKING AREA UPDATE ACCEPT message.	<	RRC: DLInformationTransfer NAS: TRACKING AREA UPDATE ACCEPT	
19b6	The UE transmits a TRACKING AREA UPDATE COMPLETE message.	>	RRC: ULInformationTransfer NAS: TRACKING AREA UPDATE COMPLETE	
20	The SS transmits an RRCConnectionRelease message to release RRC connection and move to RRC_IDLE (State 2A-RF).	<	RRC: RRCConnectionRelease	
NOTE 1: The procedure is used with specific message with no IMS voice network support. The UE is configured for voice domain preference IMS PS voice preferred, CS Voice as secondary and to initiate EPS attach. The UE implementation supports TAU in connected mode.				
NOTE 2: The procedure is used with specific message with no IMS voice network support. The UE is configured for voice domain preference IMS PS voice preferred, CS Voice as secondary and to initiate EPS attach. The UE implementation supports TAU in idle mode.				
NOTE 3: As assumed in section 4.5.2, an IMS capable UE is compliant to GSMA PRD IR.92 [52]. According to IR.92 cl. 4.3.1, Note 4, a UE implementation could still request PDN connection				

5.2A.1A.4 Specific message contents

All specific message contents shall be referred to clause 4.6, 4.7 and 4.7A with the exceptions below.

indication. If such request is received by the SS, it will be ignored.

Table 5.2A.1A.4-1: RRCConnectionRequest (Step 2 and 19b2)

establishment caused by a SIP registration request despite the IMS voice over PS not supported

Information Element	Value/remark	Comment	Condition
RRCConnectionRequest ::= SEQUENCE {			
criticalExtensions CHOICE {			
rrcConnectionRequest-r8 SEQUENCE {			
ue-Identity	Any allowed value		
}			
}			
}			

Table 5.2A.1A.4-2: UECapabilityInformation (Step 15)

Derivation Path: Table 4.6.1-23			
Information Element	Value/remark	Comment	Condition
UECapabilityInformation ::= SEQUENCE {			
criticalExtensions CHOICE {			
c1 CHOICE{			
ueCapabilityInformation-r8	Any allowed value		
}			
}			
}			

Table 5.2A.1A.4-3: ATTACH ACCEPT (Step 16)

Derivation Path: TS 36.508 Table 4.7.2-1			
Information Element	Value/remark	Comment	Condition
EPS network feature support	'0000 0000'B	IMS voice over PS session in S1 mode not supported	NON pc_Disable_ E- UTRA_NOI MSVoIP
	'0000 0001'B	IMS voice over PS session in S1 mode supported	pc_Disable_ E- UTRA_NOI MSVoIP
Additional update result	Not present		

Table 5.2A.1A.4-4: ACTIVATE DEFAULT EPS BEARER CONTEXT REQUEST (Step 16)

Derivation Path: Table 4.7.3-6			
Information Element	Value/remark	Comment	Condition
EPS QoS	See Reference default EPS bearer context #1 in table 6.6.1-1		NON pc_Disable_ E- UTRA_NOI MSVoIP
	See Reference default EPS bearer context #2 in table 6.6.1-1		pc_Disable_ E- UTRA_NOI MSVoIP
Access point name	The SS defines a Default APN or, if the UE transmits an ESM INFORMATION RESPONSE message providing an APN, the SS shall use this value if it is not the IMS APN. If it is the default IMS APN, the SS defines a Default APN.		NON pc_Disable_ E- UTRA_NOI MSVoIP
	IMS.apn.epc.mnc <mnc> .mcc<mcc>.3gppnetwor k.org The <mnc> and <mcc> are set to the same values as in IMSI.</mcc></mnc></mcc></mnc>		pc_Disable_ E- UTRA_NOI MSVoIP
PDN address			
Length of PDN address contents	5 octets		
PDN type value	'001'B	IPv4	
PDN address information	IPv4 address	The SS provides a valid IPv4 address	
ESM cause	IF "PDN type" IE in step 4 is 'IPv4v6' THEN '00110010'B ELSE Not present	"PDN type IPv4 only allowed"	

Table 5.2A.1A.4-5: TRACKING AREA UPDATE REQUEST (Steps 19a1 and 19b4)

Derivation Path: 36.508 Table 4.7.2-27 with condition combined_TA_LA

Table 5.2A.1A.4-6: TRACKING AREA UPDATE ACCEPT (Steps 19a2 and 19b5)

Derivation Path: 36.508 Table 4.7.2-24 with condition combined_TA_LA			
Information Element	Value/remark	Comment	Condition
EPS network feature support	'0000 0000'B	IMS voice over PS session in S1 mode not supported	
Additional update result	Not present		•

5.2A.2 Generic Default Radio Bearer Establishment, UE Test Mode Activated (State 3A-RF)

In tests referring to test mode State 3A-RF, in order to avoid any uncontrollable transmission of uplink U-plane data, test mode State 4A-RF (specified in 5.2A.3) may be used and configured instead.

5.2A.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.
- The procedure shall be performed under ideal radio conditions as defined in clause 5

User Equipment:

The Test USIM shall be inserted.

5.2A.2.2 Definition of system information messages

The default system information messages are used.

5.2A.2.3 Procedure

Table 5.2A.2.3-1: UE registration with default EPS bearer establishment and test mode activation procedures

Step	Procedure	Message Sequence	
		U-S	Message
1 to	Steps 1 to 19 as specified in the procedure in	-	-
19	clause 5,2A,1A,3 take place.		

5.2A.2.4 Specific message contents

All specific message contents shall be referred to clause 5.2A.1A.4.

5.2A.3 Loopback Activation without looped data (State 4A-RF)

Editor's note: Test mode State 4A-RF is used and configured as an alternative to test mode State 3A-RF, to avoid any uncontrollable transmission of uplink U-plane data.

5.2A.3.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

- The procedure shall be performed under ideal radio conditions as defined in clause 5

User Equipment:

- The UE shall be in Generic RB Establishment state, UE Test Mode Activated (State 3A-RF).

5.2A.3.2 Definition of system information messages

The default system information messages are used.

5.2A.3.3 Procedure

Table 5.2A.3.3-1: UE registration with default EPS bearer establishment and test mode activation procedures

Step	Procedure	Message Sequence	
		U - S	Message
1	The SS transmits a CLOSE UE TEST LOOP	<	RRC: DLInformationTransfer
	message to enter the UE test loop mode.		TC: CLOSE UE TEST LOOP
2	The UE transmits a CLOSE UE TEST LOOP	>	RRC: ULInformationTransfer
	COMPLETE message to confirm that		TC: CLOSE UE TEST LOOP COMPLETE
	loopback entities for the radio bearer(s) have		
	been created and loop back is activated.		

5.2A.3.4 Specific message contents

All specific message contents shall be referred to clause 4.5.4.4, with the exceptions below.

Table 5.2A.3.4-1: CLOSE UE TEST LOOP (in the preamble) (Step 1 in Table 5.2A.3.3-1)

Derivation Path: 36.509 clause 6.1			
Information Element	Value/remark	Comment	Condition
Protocol discriminator	1111		
Skip indicator	0000		
Message type	10000000		
UE test loop mode	0000000	UE test loop mode A	
UE test loop mode A LB setup			
Length of UE test loop mode A LB setup list in bytes	00000011	Length of one LB setup DRB (3 bytes)	
LB setup DRB	0 0 0 0 0 0 0 0, 0 0 0 0 0 0 0 0, 0 0 0 0	UL PDCP SDU size = 0 bits (0 bytes) Q4Q0 = Data Radio Bearer identity number for the default radio bearer. See 36.509 clause 6.1	
UE test loop mode B LB setup	Not present		
UE test loop mode B LB setup	Not present		

5.2A.4 Procedure to configure SCC

Table 5.2A.4.-1: UE RRC reconfiguration with sCELLToAdd

Step	Procedure	Message Sequence	
		U-S	Message
1	The SS transmits an	<	RRC: RRCConnectionReconfiguration
	RRCConnectionReconfiguration(sCellToAdd		
	ModList) message to establish the SCC(s).		
2	The UE transmits an	>	RRC:
	RRCConnectionReconfigurationComplete		RRCConnectionReconfigurationComplete
3	If not all SCCs are established, then repeat		-
	step 1 and 2.		

5.2 A.41. Specific message contents

All specific message contents shall be referred to clause 4.5.2A.4, with exceptions as below.

5.2A.4.1.1 Exceptions for all CA tests

RRCConnectionReconfiguration

Table 5.2A.4.1.1-1: RRCConnectionReconfiguration

Derivation Path: Clause 4.6.1 Table 4.6.1-8, condition SCell_AddMod

MAC configurations

Table 5.2A.4.1.1-2: MAC-MainConfig-RBC

Information Element	Value/remark	Comment	Condition
C-MainConfig-RBC ::= SEQUENCE {			
ac-MainConfig-v1020SEQUENCE {			SCell_AddM od
sCellDeactivationTimer-r10	Not present		
extendedBSR-Sizes-r10	Not Present		
extendedPHR-r10	Not Present		

Condition	Explanation	
SCell_AddMod	Addition or modification of Scell	

5.2A.4.1.2 Exceptions for UL CA tests

RadioResourceConfigCommonSCell-r10-DEFAULT

Table 5.2A.4.1.2-1: RadioResourceConfigCommonSCell-r10-DEFAULT

Derivation Path: Clause 4.6.3 Table 4.6.3-13A			
Information Element	Value/remark	Comment	Condition
RadioResourceConfigCommonSCell-r10 ::= SEQUENCE {			
ul-Configuration-r10 SEQUENCE {			UL CA
ul-FreqInfo-r10 SEQUENCE {			
ul-CarrierFreq-r10	Not Present	For FDD: If absent, the (default) value determined from the default TX-RX frequency separation defined in 3GPP TS 36.101 [27], table 5.7.3-1 applies. For TDD: This parameter is absent and it is equal to the downlink frequency.	
ul-Bandwidth-r10	Not Present	Same downlink bandwidth as used for target SCell	
additionalSpectrumEmissionSCell-r10	31 (CA_NS_31)		
}			
soundingRS-UL-ConfigCommon-r10	release		
}			
}			

Condition	Explanation
UL CA	When UL Carrier Aggregation is used.

Physical Config Dedicated SCell-r 10-DEFAULT

Table 5.2A.4.1.2-2: PhysicalConfigDedicatedSCell-r10-DEFAULT

Value/remark	Comment	Condition
Present		
		UL CA
Not Present		
Not present		
UplinkPowerControlDedic atedSCell-r10-DEFAULT		
Not present		
	Present Not Present Not present UplinkPowerControlDedic atedSCell-r10-DEFAULT Not present Not present Not present	Present Not Present Not present UplinkPowerControlDedic atedSCell-r10-DEFAULT Not present Not present Not present Not present

Condition	Explanation

UL CA When UL Carrier Aggregation is used.

5.2A.5 Exceptions for felCIC tests

5.2A.5.1 Specific message contents

All specific message contents shall be referred to clause 4.6, with exceptions as below.

5.2A.5.1.1 Neighbour cell info for all felCIC test cases

Table 5.2A.5.1.1-1: RRCConnectionReconfiguration

Derivation Path: clause 4.6.1, Table 4.6.1-8: RRCConn	nectionReconfiguration		
Information Element	Value/remark	Comment	Condition
RRCConnectionReconfiguration ::= SEQUENCE {			
rrc-TransactionIdentifier	RRC-		
	TransactionIdentifier-DL		
criticalExtensions CHOICE {			
c1 CHOICE{			
rrcConnectionReconfiguration-r8 SEQUENCE {			
radioResourceConfigDedicated	RadioResourceConfigDe		SRB2-
-	dicated-SRB2-DRB(n, m)		DRB(n, m)
securityConfigHO	Not present		
nonCriticalExtension SEQUENCE {}	Not present		
}			
}			
}			
}			

Table 5.2A.5.1.1-2: RadioResourceConfigDedicated-SRB2-DRB(n, m)

Derivation Path: clause 4.6.3, Table 4.6.3-16 RadioRes	sourceConfigDedicated-SRB	2-DRB(n,m)	
Information Element	Value/remark	Comment	Condition
RadioResourceConfigDedicated-SRB2-DRB(n, m) ::= SEQUENCE {			
neighCellsCRS-Info-r11 ::= CHOICE {			
setup SEQUENCE {			
CRS-AssistancedInfoList-r11 ::= SEQUENCE (SIZE (1maxCellReport)) OF CRS-AssistanceInfo-r11			
CRS-AssistanceInfo-r11 :: = SEQUENCE {		CRS information for all the configured neighbour cells	
physCellId-r11	Based on simulated cell requirements		
antennaPortsCount-r11	Based on simulated cell requirements		
mbsfn-SubframeConfigList-r11	Based on simulated cell requirements		
}			
}			
}			
}			

5.3 Default RRC message and information elements contents

5.3.1 Radio resource control information elements

As defined in clause 4.6.3 with the following exceptions:

Table 5.3.1-1: TDD-Config-DEFAULT

Derivation Path: Clause 4.6.3 Table 4.6.3-23			
Information Element	Value/remark	Comment	Condition
TDD-Config-DEFAULT ::= SEQUENCE {			
subframeAssignment	sa1		
specialSubframePatterns	ssp4		RF
}			

Condition	Explanation
RF	For all the RF tests specified in 36.521-1

Table 5.3.1-2: RadioResourceConfigCommonSIB-DEFAULT

Derivation Path: Clause 4.6.3 Table 4.6.3-14			
Information Element	Value/remark	Comment	Condition
RadioResourceConfigCommonSIB-DEFAULT ::=			
SEQUENCE {			
rach-ConfigCommon	RACH-ConfigCommon-		
	DEFAULT		
bcch-Config	BCCH-Config-DEFAULT		
pcch-Config	PCCH-Config-DEFAULT		
prach-Config	PRACH-ConfigSIB-		
	DEFAULT		
pdsch-ConfigCommon	PDSCH-ConfigCommon-		
	DEFAULT		
pusch-ConfigCommon	PUSCH-ConfigCommon-		
	DEFAULT		
pucch-ConfigCommon	PUCCH-ConfigCommon-		
	DEFAULT		
soundingRS-UL-ConfigCommon CHOICE {			
release	NULL		
}			
uplinkPowerControlCommon	UplinkPowerControlCom		
	mon-DEFAULT		
ul-CyclicPrefixLength	len1		
}			

Table 5.3.1-3: PRACH-Config-DEFAULT

Derivation Path: Clause 4.6.3 Table 4.6.3-7			
Information Element	Value/remark	Comment	Condition
PRACH-Config-DEFAULT ::= SEQUENCE {			
prach-ConfigInfo SEQUENCE {			
prach-ConfigIndex	3		TDD
}			
}			

Condition	Explanation
TDD	TDD cell environment

Table 5.3.1-4: RadioResourceConfigCommonSCell-r10-DEFAULT

Derivation Path: Clause 4.6.3 Table 4.6.3-13A			
Information Element	Value/remark	Comment	Condition
RadioResourceConfigCommonSCell-r10 ::=			
SEQUENCE {			
ul-Configuration-r10	Not Present		
ul-Configuration-r10 SEQUENCE {	Not Present		
}			

Table 5.3.1-5: PhysicalConfigDedicatedSCell-r10-DEFAULT

Derivation Path: Clause 4.6.3 Table 4.6.3-6A			
Information Element	Value/remark	Comment	Condition
PhysicalConfigDedicatedSCell-r10 ::= SEQUENCE {			
ul-Configuration-r10	Not Present		
ul-Configuration-r10 SEQUENCE {	Not Present		
}			

5.4 Default NAS message and information elements contents

5.5 Reference radio bearer configurations

5.5.1 SRB and DRB parameters

5.5.1.1 MAC configurations

As defined in clause 4.8.2.1.5 with the following exceptions:

Table 5.5.1.1-1: MAC-MainConfig-RBC

Derivation Path: Clause 4.8.2.1.5, Table 4.8.2.1.5-1			
Information Element	Value/remark	Comment	Condition
MAC-MainConfig-RBC ::= SEQUENCE {			
ul-SCH-Config	Not present		SCell_AddM od
ul-SCH-Config SEQUENCE {			
maxHARQ-Tx	n1	Only one transmission per UL HARQ	
}			
drx-Config	Not present		SCell_AddM od
drx-Config CHOICE {			
release	NULL		
}			
timeAlignmentTimerDedicated	infinity		
}			

Condition	Explanation
SCell_AddMod	Addition or modification of Scell

5.5.1.2 Physical Layer configurations

Table 5.5.1.2-1: PhysicalConfigDedicated-DEFAULT

Derivation Path: Clause 4.8.2.1.6 Table 4.8.2.1.6-1			0 111
Information Element	Value/remark	Comment	Condition
PhysicalConfigDedicated-DEFAULT ::= SEQUENCE {			
pdsch-ConfigDedicated	PDSCH-	See subclause	SRB1
	ConfigDedicated-	4.6.3	
	DEFAULT		
	Not present		RBC
pucch-ConfigDedicated	PUCCH-	See subclause	SRB1
	ConfigDedicated-	4.6.3	
	DEFAULT		
	Not present		RBC
pusch-ConfigDedicated	PUSCH-	See subclause	SRB1
	ConfigDedicated-	4.6.3	
	DEFAULT		
	Not present		RBC
uplinkPowerControlDedicated	UplinkPowerControlDedic	See subclause	SRB1
·	ated-DEFAULT	4.6.3	
	Not present		RBC
tpc-PDCCH-ConfigPUCCH	Not present		SRB1
	TPC-PDCCH-Config-	See subclause	RBC
	DEFAULT using	4.6.3	
	condition PUCCH		
tpc-PDCCH-ConfigPUSCH	Not present		SRB1
,	TPC-PDCCH-Config-	See subclause	RBC
	DEFAULT using	4.6.3	
	condition PUSCH		
cqi-ReportConfig	Not present		SRB1
- 1 - 1 - 1 - 1	Not present		RBC
soundingRS-UL-ConfigDedicated	Not present		SRB1
g	Not present		RBC
antennalnfo CHOICE {			1.20
defaultValue	NULL		
}			
schedulingRequestConfig	Not present		SRB1
oon odding to quotioning	Not present	See subclause	RBC
	140t prodont	4.6.3	TOO .
}			
cqi-ReportConfig-r10	Not present		SCell_AddM
			od

Condition	Explanation
SRB1	Used at configuration of SRB1 during RRC connection (re-)establishment
RBC	Used at configuration of a radio bearer combination during SRB2+DRB establishment
SCell_AddMod	Addition or modification of SCell

5.5.1.3 SRB and DRB combinations

5.5.1.3.1 Combinations on DL-SCH and UL-SCH

5.5.1.3.1.1 SRB1 and SRB2 for DCCH + n x AM DRB + m x UM DRB, where n=1 and m=0

This SRB and DRB combination is setup in UE Registration procedure and the Generic Radio Bearer Establishment with UE Test Mode Activated using specific message content - the default RRCConnectionReconfiguration message with condition SRB2-DRB(n, m).

6 Test environment for Signalling test

6.1 Requirements of test equipment

The requirements of test equipment specified in this subclause apply to Signalling test cases defined in TS 36.523-1 [18], in addition to the common requirements of test equipment specified in cause 4.2 of this specification.

Test equipment shall be able to simulate cells of Radio Access Technology (RAT) E-UTRA, UTRA, GSM or HRPD / 1xRTT. Regardless of respective RAT, the overall number and configuration of cells to be simulated simultaneously by test equipment shall not exceed the resources specified in the following Table 6.1-1:

Table 6.1-1: Maximum resources in terms of number / configuration of cells to be simulated simultaneously in a test setup

Simulation of	Max. number / configuration of cells (SISO / SIMO)	Max. number / configuration of cells (MIMO)
E-UTRA single-mode networks (FDD or TDD)	3x cells	n/a
E-UTRA dual-mode networks (FDD and TDD)	3x cells	n/a
E-UTRA networks involving Carrier Aggregation	4x cells	n/a
Mixed E-UTRA / UTRA networks	3x cells	n/a
Mixed E-UTRA / GSM networks	3x cells	n/a
Mixed E-UTRA / HRPD or 1xRTT networks	3x cells	n/a
Mixed E-UTRA / UTRA / GSM networks	3x cells	n/a
Note 1: No differentiation between cell configuration	n types (as defined in clause	6.3.3) here, because these

- Note 1: No differentiation between cell configuration types (as defined in clause 6.3.3) here, because these types are relevant to specific test cases and their TTCN-3 implementation only.
- Note 2: Only network scenarios specified in clause 4.4.1 and 6.3.2.1 have been covered.
- Note 3: In case of Carrier Aggregation, each cell can act as a PCell, an SCell, or a standalone cell (not used as a CA component carrier). In Release 10 a maximum of 1 SCell can be aggregated with a PCell.
- Note 4: Virtual Cells are not included in the maximum cell number as they do not require resources in the SS.

Exceptions to the requirements outlined above are possible but need special evidence to be provided explicitly in the test case prose and should be allowed only if the test case purpose cannot be met otherwise.

Test equipment shall be able to simulate one or more UEs with PC5 interface for sidelink direct communication and/or sidelink direct discovery.

6.2 Reference test conditions

The reference test conditions specified in this subclause apply to all Signalling test cases defined in TS 36.523-1 [18] unless otherwise specified, in addition to the common reference test conditions specified in subclause 4.3 of this specification.

6.2.1 Physical channel allocations

6.2.1.1 Antennas

If the UE has two Rx antennas, the same downlink signal is applied to each one, except if MIMO is tested. Both UE Rx antennas shall be connected.

If the UE has one Rx antenna, the downlink signal is applied to it.

6.2.1.2 Downlink physical channels and physical signals

Power allocation of downlink physical channels for Signalling test cases is specified in table 6.2.1.2-1.

Table 6.2.1.2-1: Power allocation for OFDM symbols and reference signals for Signalling test cases

Physical Channel	EPRE Ratio	Comment
PBCH	PBCH_RA = 0 dB	
	PBCH_RB = 0 dB	
PSS	PSS_RA = 0 dB	
SSS	$SSS_RA = 0 dB$	
PCFICH	PCFICH_RB = 0 dB	
PDCCH	PDCCH_RA = 0 dB	
	PDCCH_RB = 0 dB	
PDSCH (BCCH, CCCH,	PDCCH_RA = 0 dB	To be consistent with
PCCH)		default physical channel
	PDCCH_RB = 0 dB	configuration in 36.331
		[17], 9.2.4
PDSCH (DCCH, DTCH)	PDSCH_RA = -3 dB	To reduce interference
		from PDSCH of intra-
		frequency neighbour cells
	PDSCH_RB = -3 dB	To reduce interference
		from PDSCH of intra-
		frequency neighbour cells
PHICH	PHICH_RB = 0 dB	
PMCH	PMCH_RA = 0 dB	
MBSFN RS	MBSFN RS_RA = 0dB	

NOTE: MBSFN RS is not defined downlink physical channels in TS 36.211 [35].

6.2.1.3 Mapping of downlink physical channels and signals to physical resources

Same as clause 4.3.3.3

6.2.1.4 Uplink physical channels and physical signals

[FFS].

6.2.1.5 Mapping of uplink physical channels and signals to physical resources

[FFS].

6.2.2 Signal levels

6.2.2.1 Downlink signal levels

The default settings of suitable cells and non-suitable cells for E-UTRA are specified in table 6.2.2.1-1.

Cells which are expected to be undetectable for UE under test shall fulfil the condition of non-suitable "Off" cell in table 6.2.2.1-1.

Table 6.2.2.1-1: Default settings of suitable / non-suitable cells

Power level type	_	TRAN e 1-3)	UTRAN	GERAN
	Unit	Power level		
Serving cell	dBm/15kHz	-85	Table 6.1.1 (FDD) / 6.1.6a (TDD) [5]	Table 6.1.10 [5]
Suitable neighbour intra-frequency cell	dBm/15kHz	-91	Table 6.1.2 (FDD) / 6.1.7 (TDD) [5]	n/a
Suitable neighbour inter-frequency cell	dBm/15kHz	-97	Table 6.1.2 (FDD) / 6.1.7 (TDD) [5]	Table 6.1.10 [5]
Non-suitable cell	dBm/15kHz	-115	Table 6.1.3 (FDD) / 6.1.8 (TDD) [5]	Table 6.1.11 [5]
Non-suitable "Off" cell	dBm/15kHz	≤ -145	Table 6.1.4 (FDD) / 6.1.9 (TDD) [5]	Cell is switched-off

- Note 1: The power level is specified in terms of cell-specific RS EPRE instead of RSRP as RSRP is a measured value and cannot be directly controlled by the SS.
- Note 2: Power levels are specified based on the precondition that q-Hyst, a3-Offset and hysteresis are 0 dB.
- Note 3: The power level is specified at each UE Rx antenna.

The default signal level uncertainty is specified in table 6.2.2.1-2 for any level specified, unless a tighter uncertainty is specified by a test case in TS 36.523-1 [18].

Table 6.2.2.1-2: SS signal level uncertainty

	Absolute signal level uncertainty for each cell	Relative signal level uncertainty between multiple cells						
Intra-frequency	+/-3 dB at each test port	+/-3 dB						
Inter-frequency	+/-3 dB at each test port	See Note 1						
Note 1: For Inter-frequency cells the relative signal level uncertainty between								

Note 1: For Inter-frequency cells the relative signal level uncertainty between multiple cells is determined by the absolute uncertainty of each cell, and does not have any additional constraint.

Cell-specific RS EPRE setting should be equal to or higher than -115 dBm except for Non-suitable "Off" cell. The figure is chosen to ensure that for all bands the DL signal is within the RSRP measurement range specified in TS 36.133 [39] clauses 9.1.2 and 9.1.3, taking into account the SS default absolute signal level uncertainty.

NOTE: (The power spectral density of a white noise source; specified in TS 36.133 [39]) can be assumed to be - Infinity [dBm/15kHz] for all intra and inter frequency test cases. It is applicable to both idle mode and connected mode in TS 36.523-1 [18], unless otherwise specified in specific test cases.

For test cases requiring AWGN (Noc), the default level uncertainty is specified in table 6.2.2.1-3 for any level specified, unless a tighter uncertainty is specified by a test case in TS 36.523-1 [18].

Table 6.2.2.1-3: SS AWGN level uncertainty

	Absolute AWGN level uncertainty for each frequency
Intra-frequency	+/-3 dB at each test port
Inter-frequency	+/-3 dB at each test port

6.2.2.2 Measurement accuracy and side conditions

Measurement accuracy shall be considered in setting downlink power levels.

RSRP measurement accuracy in E-UTRA RRC_IDLE state is specified in table 6.2.2.2-1, derived from TS 36.133 [39] clauses 4.2.2.3 and 4.2.2.4. This measurement accuracy is applicable to idle mode test cases specified in TS 36.523-1 [18]. For the serving cell and suitable neighbour cells, the following side conditions shall be satisfied including the effect of signal level uncertainty.

- RSRP ≥ -121 dBm
- RSRP Ês/Iot ≥ -4 dB
- SCH_RP ≥ -121 dBm
- SCH Ês/Iot ≥ -4 dB

Table 6.2.2.2-1: RSRP measurement accuracy in E-UTRA RRC_IDLE state

	Absolute RSRP measurement accuracy	Relative RSRP measurement accuracy
Intra-frequency	+/-6 dB	+/-3 dB
Inter-frequency	+/-6 dB	+/-5 dB

RSRP measurement accuracy in E-UTRA RRC_CONNECTED state is specified in table 6.2.2.2-2, derived from TS 36.133 [39] clauses 9.1.2 and 9.1.3 selecting Normal condition. The ranges and side conditions in TS 36.133 [39] clauses 9.1.2 and 9.1.3 apply. This measurement accuracy is applicable to connected mode test cases specified in TS 36.523-1 [18]. For the serving cell and suitable neighbour cells, the following side conditions shall be satisfied including the effect of signal level uncertainty.

- RSRP ≥ -124 dBm
- RSRP Ês/Iot > -6 dB- Io : -118 dBm/15kHz ... -70 dBm/BWChannel (for absolute RSRP measurement accuracy)
- Io: -118 dBm/15kHz ... -50 dBm/BWChannel (for relative RSRP measurement accuracy)

Table 6.2.2.2-2: RSRP measurement accuracy in E-UTRA RRC CONNECTED state

	Absolute RSRP measurement accuracy	Relative RSRP measurement accuracy
Intra-frequency	+/-6 dB	+/-3 dB
Inter-frequency	+/-6 dB	+/-6 dB

Signal level difference between the serving cell and any suitable intra-frequency neighbour cell shall be nominally 6 dB to satisfy the measurement accuracy requirement and its side conditions specified in TS 36.133 [39]. This figure is chosen based on the following preconditions for intra-frequency cells.

- Interference to reference signals from reference signals of other cells is eliminated by Physical Cell Identity shifting as specified in TS 36.523-3 [20].
- Interference to reference signals from PDSCH with SI-RNTI of other cells is negligible because it's sparse enough.
- Interference to reference signals from PDSCH of the serving cell is controlled by satisfying the conditions of clauses 6.2.2.1 and 6.2.2.2.
- Interference to P-SS/S-SS from P-SS/S-SS of other cells is eliminated by frame timing shifting as specified in TS 36.523-3 [20].
- Interference to P-SS/S-SS from PDSCH of other cells is eliminated by PDSCH resource allocation as specified in TS 36.523-3 [20].

6.2.3 Default test frequencies

The default channel bandwidth of 5/10/20 MHz is applied to the signalling test. The test frequencies are defined so that no frequency overlapping takes place, in order to avoid unnecessary inter-frequency interference.

For sidelink direct discovery, the default channel bandwidth of 5/10/20 MHz is applied to the signalling test. For sidelink direct communication the default channel bandwidth of 10 MHz is applied to the signalling test.

For Band 13, Band 18 and Band 31, only one test frequency f1 is defined. All operating Bands except Band 13, Band 18 and Band 31 can accommodate at least two test frequencies f1 and f2 (f1<f2). An additional test frequency f3 can be

defined for the operating Bands with at least triple of the default bandwidth. The fourth test frequency f4 (f3<f1<f4<f2) is applicable to the operating Bands which have at least quadruple of the default bandwidth.

To the single cell signalling test with channel bandwidth different from the default bandwidths of the operating bands, Mid Range defined in clause 4.3.1 is applied.

6.2.3.1 Test frequencies for signalling test

Test frequencies for signalling test are specified in table 6.2.3.1-1 and 6.2.3.1-1a for FDD and table 6.2.3.1-2 and 6.2.3.1-2a for TDD. Except f4 and a few f1, f5 which are specified according to EARFCN of the concerned operating Bands, the majority of the test frequencies in table 6.2.3.1-1, 6.2.3.1-1a, 6.2.3.1-2 and 6.2.3.1-2a are specified in terms of Low, Mid and High which are referred to the Low Range, Mid Range and High Range in clause 4.3.1.

Test frequencies for signalling test of MFBI are specified in table 6.2.3.1-1b and 6.2.3.1-1c for FDD and table 6.2.3.1-2b and 6.2.3.1-2c for TDD. Except f4 and a few f1, f5 which are specified according to EARFCN of the concerned operating Bands, the majority of the test frequencies in table 6.2.3.1-1b, 6.2.3.1-1c, 6.2.3.1-2b and 6.2.3.1-2c are specified in terms of Low, Mid and High which are referred to the Low Range, Mid Range and High Range in clause 4.3.1.

E-UTRA	Bandwidth	f1,	f5	f2	, f6	f3,	, f7	f	4
Operating	[MHz]	Nui	N _{DL}	N _{UL}	N _{DI}	Nu	N _{DL}	N _{UL}	N_{DL}
Band				<u> </u>				"-	
1	60	Mid	Mid	High	High	Low	Low	18350	350
2	60	Mid	Mid	High	High	Low	Low	18950	950
3	75	Mid	Mid	High	High	Low	Low	19625	1625
4	45	Mid	Mid	High	High	Low	Low	20225	2225
5	25	Mid	Mid	High	High	Low	Low	20575	2575
6	10	Low	Low	High	High	N/A	N/A	N/A	N/A
7	70	Mid	Mid	High	High	Low	Low	21150	3150
8	35	Mid	Mid	High	High	Low	Low	21675	3675
9	35	Mid	Mid	High	High	Low	Low	22025	4025
10	60	Mid	Mid	High	High	Low	Low	22500	4500
12	17	Low	Low	High	High	Mid	Mid	N/A	N/A
14	10	Low	Low	High	High	N/A	N/A	N/A	N/A
17	12	Low	Low	High	High	N/A	N/A	N/A	N/A
19	15	Mid	Mid	High	High	Low	Low	N/A	N/A
21	15	Mid	Mid	High	High	Low	Low	N/A	N/A
22	80	Mid	Mid	High	High	Low	Low	24950	6950
23	20	25575	7575	High	High	Low	Low	25625	7625
24	34	Mid	Mid	High	High	Low	Low	25920	7920
25	65	Mid	Mid	High	High	Low	Low	26390	8390
26	35	Mid	Mid	High	High	Low	Low	26865	8865
27	17	Mid	Mid	High	High	Low	Low	N/A	N/A
28	45	Mid	Mid	High	High	Low	Low	27560	9560
30	10	Low	Low	High	High	N/A	N/A	N/A	N/A
31	5	Mid	Mid	N/A	N/A	N/A	N/A	N/A	N/A

Table 6.2.3.1-1: Test frequencies for E-UTRA FDD(5MHz)

Table 6.2.3.1-1a: Test frequencies for E-UTRA FDD(10MHz)

E-UTRA	Bandwidth	f1,	f5	f2,	f2, f6 f3,			f	f4	
Operating Band	[MHz]	N _{UL}	N _{DL}	N _{UL}	N _{DL}	N _{UL}	N_{DL}	N _{UL}	N _{DL}	
11	20	Low	Low	High	High	N/A	N/A	N/A	N/A	
13	10	Mid	Mid	N/A	N/A	N/A	N/A	N/A	N/A	
18	15	Low	Low	N/A	N/A	N/A	N/A	N/A	N/A	
20	30	Mid	Mid	High	High	Low	Low	N/A	N/A	
23	20	Low	Low	High	High	N/A	N/A	N/A	N/A	

Table 6.2.3.1-1b: Test frequencies for E-UTRA FDD(5MHz) MFBI

E-UTRA	MFBI	Bandwidth	f1,	f5	f2,	f6	f3,	f7	f4	
Operating Band	Overlapping Band	[MHz]	N _{UL}	N _{DL}						
2	25	60	Mid	Mid	High	High	Low	Low	18950	950
3	9	35	Mid	Mid	High	High	Low	Low	19824	1824
4	10	45	Mid	Mid	High	High	Low	Low	20225	2225
5	18	6	Mid	Mid	N/A	N/A	N/A	N/A	N/A	N/A
5	19	25	Mid	Mid	High	High	Low	Low	20585	2585
5	26	25	Mid	Mid	High	High	Low	Low	20575	2575
9	3	35	Mid	Mid	High	High	Low	Low	22025	4025
10	4	45	Mid	Mid	High	High	Low	Low	22425	4425
12	17	12	Low	Low	High	High	N/A	N/A	N/A	N/A
17	12	12	Low	Low	High	High	N/A	N/A	N/A	N/A
19	5	15	Mid	Mid	High	High	Low	Low	N/A	N/A
19	26	15	Mid	Mid	High	High	Low	Low	N/A	N/A
25	2	60	Mid	Mid	High	High	Low	Low	26390	8390
26	5	25	Mid	Mid	High	High	Low	Low	26865	8865
26	18	15	Mid	Mid	High	High	Low	Low	N/A	N/A
26	19	15	Low	Low	High	High	N/A	N/A	N/A	N/A
26	27	10	Mid	Mid	High	High	Low	Low	N/A	N/A
27	18	9	Low	Low	High	High	N/A	N/A	N/A	N/A
27	26	10	Low	Low	High	High	N/A	N/A	N/A	N/A

Table 6.2.3.1-1c: Test frequencies for E-UTRA FDD(10MHz) MFBI

E-UTRA	MFBI	Bandwidth	f1,	f5	f2, f6		f3, f7		f4	
Operating Band	Overlapping Band	[MHz]	N _{UL}	N _{DL}						
18	5	6	Low	Low	N/A	N/A	N/A	N/A	N/A	N/A
18	26	15	Low	Low	N/A	N/A	N/A	N/A	N/A	N/A
18	27	9	Low	Low	N/A	N/A	N/A	N/A	N/A	N/A

Table 6.2.3.1-2: Test frequencies for E-UTRA TDD (5MHz)

E-UTRA Operating Band	Bandwidth [MHz]	f1, f5	f2, f6	F3, f7	f4
33	20	36075	High	Low	36125
34	15	Mid	High	Low	N/A
35	60	Mid	High	Low	36700
36	60	Mid	High	Low	37300
37	20	37625	High	Low	37675
•••					
42	100	Mid	High	Low	42640
43	100	Mid	High	Low	44640
44	50	Mid	High	Low	46115

Table 6.2.3.1-2a: Test frequencies for E-UTRA TDD(20MHz)

E-UTRA Operating Band	Bandwidth [MHz]	f1, f5	f2, f6	f3, f7	f4
38	50	Low	High	N/A	N/A
39	40	Low	High	N/A	N/A
40	100	Mid	High	Low	39350
41	194	Mid	High	Low	40970

Table 6.2.3.1-2b: Test frequencies for E-UTRA TDD (5MHz) MFBI

E-UTRA Operating Band	MFBI Overlapping Band	Bandwidth [MHz]	f1, f5	f2, f6	F3, f7	f4
33	39	20	36075	Hiah	Low	36125

Table 6.2.3.1-2c: Test frequencies for E-UTRA TDD(20MHz) MFBI

E-UTRA Operating Band	MFBI Overlapping Band	Bandwidth [MHz]	f1, f5	f2, f6	f3, f7	f4
38	41	50	Low	High	N/A	N/A
39	33	20	Low	High	N/A	N/A
41	38	50	High	Low	Mid	N/A

6.2.3.2 Test frequencies for CA signalling test

Test frequencies for CA signalling testing are specified in Table 6.2.3.2-1 for CA Intra-Band contiguous case; in Tables 6.2.3.2-2 for CA Inter-band case and in Table 6.2.3.2-4 for Intra-Band Non-Contiguous case.

NOTE 1: Alternative test frequencies for additional channel bandwidth combinations may need to be specified when new CA configurations or CA Bandwidth Combination Sets are introduced in TS 36.101 subclause 5.6A.

For CA Intra-Band contiguous scenarios then f1, f2 and f3 are used.

NOTE 2: f2 and f3 are not adjacent frequencies; hence those cannot be used simultaneously as Pcell and Scell for CA Intra-Band contiguous scenarios.

For CA Inter-Band scenarios then f1, f2, f5 and f6 are used.

NOTE 3: Table 6.2.3.2-2 specifies the test frequencies for operation with PCell in the frequency band mentioned first (= carrier 1) and SCell in the frequency band mentioned second (= carrier 2) in the E-UTRA CA Configuration name acc. to TS 36.101 subclause 5.6A (e.g. PCell in band 1 and SCell in band 5 for CA_1A-5A configuration), for operation with switched allocation of PCell and SCell. SCell in the frequency band mentioned first (= carrier 1) and PCell in the frequency band mentioned second (= carrier 2) in the E-UTRA CA Configuration name (given that UL is supported in both frequency bands in question).

NOTE 4: For operation with switched allocation f1 is mapped to f5, f2 is mapped to f6, f5 is mapped to f1, f6 is mapped to f2

For CA Intra-Band non-contiguous scenarios then f1, f2 and f3 are used.

Table 6.2.3.2-1: Test frequencies for E-UTRA PCell and SCell for CA contiguous Intra-band operation

E-UTRA CA Configura tion	Width of Operating band [MHz]	CC Combination / N _{RB_agg}	Test Freque ncy	CC N _{RB}	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
CA_1C	60	100 + 100	f1	CC 100	18300	1950	300	2140
			f2	CC 100	18498	1969.8	498	2159.8
			f3	CC 100	18102	1930.2	102	2120.2
CA_3C	60	100 + 100	f1	CC 100	19475	1737.5	1475	1832.5
			f2	CC 100	19673	1757.3	1673	1852.3
			f3	CC 100	19277	1717.7	1277	1812.7

CA_7C	70	100 + 100	f1	CC 100	21000	2525	3000	2645
	-		f2	CC 100	21198	2544.8	3198	2664.8
			f3	CC 100	20802	2505.2	2802	2625.2
CA_12B	17	25+25	f1	CC_25	23095	707.5	5095	737.5
			f2	CC_25	23143	712.3	5143	742.3
			f3	CC_25	23040	702	5040	732
CA_23B	20	50+50	f1	CC_50	25551	2005.1	7551	2185.1
			f2	CC_50	25650	2015	7650	2195
			f3	N/A	N/A	N/A	N/A	N/A
CA_27B	17	25+25	f1	CC_25	27100	813	9100	858
			f2	CC_25	27148	817.8	9148	862.8
			f3	CC_25	27050	808	9050	853
CA_38C	50	100 + 100	f1	CC 100	37901	2585.1	37901	2585.1
			f2	CC 100	38099	2604.9	38099	2604.9
			f3	N/A	N/A	N/A	N/A	N/A
CA_39C	40	100 + 50	f1	CC 100	38401	1895.1	38401	1895.1
			f2	CC 50	38545	1909.5	38545	1909.5
			f3	NA	NA	NA	NA	NA
CA_40C	100	100 + 100	f1	CC 100	39051	2340.1	39051	2340.1
			f2	CC 100	39249	2359.9	39249	2359.9
			f3	CC 100	38853	2320.3	38853	2320.3
CA_41C	194	100 + 100	f1	CC 100	40521	2583.1	40521	2583.1
			f2	CC 100	40719	2602.9	40719	2602.9
			f3	CC 100	40323	2563.3	40323	2563.3
CA_42C	200	100+100	f1	CC 100	42491	3490.1	42491	3490.1
			f2	CC 100	42689	3509.9	42689	3509.9
			f3	CC 100	42293	3470.3	42293	3470.3

Table 6.2.3.2-2: Test frequencies for E-UTRA PCell and SCell for CA Inter-band operation

E-UTRA CA Configurati on	Width of Operating bands [MHz+MHz]	CC Combinatio n / N _{RB_agg}	Test Frequency	CC N _{RB}	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
CA_1A-3A	60+75	50 + 50	f1	CC 50	18300	1950	300	2140
			f2	CC 50	18550	1975	550	2165
			f5	CC 50	19575	1747.5	1575	1842.5
			f6	CC 50	19900	1780	1900	1875
CA_1A-5A	60+25	50 + 50	f1	CC 50	18300	1950	300	2140
			f2	CC 50	[18550]	[1975]	[550]	[2165]
			f5	CC 50	20450	829	2450	874
			f6	CC 50	20600	844	2600	889
CA_1A-7A	60 + 70	50 + 50	f1	CC 50	18300	1950	300	2140
			f2	CC 50	18550	1975	550	2165
			f5	CC 50	21100	2535	3100	2655
			f6	CC 50	21400	2565	3400	2685
CA_1A-8A	60 + 35	50 + 50	f1	CC 50	18300	1950	300	2140
			f2	CC 50	18550	1975	550	2165
			f5	CC 50	21625	897.5	3625	942.5
			f6	CC 50	21750	910	3750	955
CA_1A-11A	60 + 20	100 + 50	f1	CC 100	18300	1950	300	2140
			f2	CC 100	18500	1970	500	2160
			f5	CC 50	22800	1432.9	4800	1480.9
			f6	CC 50	22900	1442.9	4900	1490.9
CA_1A-18A	60 + 15	50 + 50	f1	CC 50	18300	1950	300	2140
			f2	CC 50	18550	1975	550	2165
			f5	CC 50	23900	820	5900	865
			f6	N/A	N/A	N/A	N/A	N/A
CA_1A-19A	60+15	75 + 50	f1	CC 75	18324	1952.4	324	2142.4
			f2	CC 75	18525	1972.5	525	2162.5
			f5	CC 50	24100	840	6100	885
			f6	N/A	N/A	N/A	N/A	N/A
CA_1A-20A	60 + 30	50 + 50	f1	CC 50	18300	1950	300	2140
			f2	CC 50	18550	1975	550	2165
			f5	CC 50	24200	837	6200	796
			f6	CC 50	24400	857	6400	816
CA_1A-21A	60+15	75 + 75	f1	CC 75	18324	1952.4	324	2142.4
			f2	CC 75	18525	1972.5	525	2162.5
			f5	CC 75	24525	1455.4	6525	1503.4
00 40 000	00 - 05	50 - 50	f6	N/A	N/A	N/A	N/A	N/A
CA_1A-26A	60 + 35	50 + 50	f1	CC 50	18300	1950	300	2140
			f2	CC 50	18550	1975	550	2165
			f5	CC 50	26865	831.5	8865	876.5
CA 4A 00A	60.45	FO : 50	f6	CC 50	26990	844	8990	889
CA_1A-28A	60+45	50 + 50	f1 f2	CC 50	18300	1950	300	2140
				CC 50	18550	1975	550	2165
			f5	CC 50	27410	723	9410	778
04 44 44	00 101		f6	CC 50	27610	743	9610	798
CA_1A-41A	60 + 194	50 + 50	f1	CC 50	18300	1950	300	2140
			f2	CC 50	18550	1975	550	2165
			f5	CC 50	40620	2593	40620	2593
04 54 55	05 :=		f6	CC 50	41540	2685	41540	2685
CA_2A-4A	60 + 45	50 + 50	f1	CC 50	18900	1880	900	1960
			f2	CC 50	19150	1905	1150	1985
			f5	CC 50	20175	1732.5	2175	2132.5
04 04 =:	60.07	50 55	f6	CC 50	20350	1750	2350	2150
CA_2A-5A	60+25	50 + 50	f1	CC 50	18900	1880	900	1960
			f2	CC 50	19150	1905	1150	1985
			f5	CC 50	20450	829	2450	874
<u> </u>			f6	CC 50	20600	844	2600	889
CA_2A-12A	60 + 17	50 + 50	f1	CC 50	18900	1880	900	1960
			f2	CC 50	19150	1905	1150	1985

			f5	CC 50	23060	704	5060	734
			f6	N/A	N/A	N/A	N/A	N/A
CA_2A-13A	60 + 10	50 + 50	f1	CC 50	18900	1880	900	1960
			f2	CC 50	19150	1905	1150	1985
			f5	CC 50	23230	782	5230	751
			f6	N/A	N/A	N/A	N/A	N/A
CA_2A-17A	60+12	50 + 50	f1	CC 50	18900	1880	900	1960
			f2	CC 50	19150	1905	1150	1985
			f5	CC 50	23790	710	5790	740
			f6	N/A	N/A	N/A	N/A	N/A
CA_2A-29A	60+11	50 + 50	f1	CC 50	18900	1880	900	1960
			f2	CC 50	19150	1905	1150	1985
			f5	CC 50	N/A	N/A	9720	723
CA 2A 20A	00.40	50 . 50	f6	N/A	N/A	N/A	N/A	N/A
CA_2A-30A	60+10	50 + 50	f1	CC 50	18900	1880	900	1960
		_	f2	CC 50	19150	1905	1150	1985
		-	f5 f6	CC 50 N/A	27710	2310 N/A	9820 N/A	2355
CA_3A-5A	75+25	50 + 50	f1	CC 50	N/A 19575	N/A 1747.5	N/A 1575	N/A 1842.5
CA_SA-SA	75+25	30 + 30	f2	CC 50	[19900]	[1780]	[1900]	[1875]
			f5	CC 50	20450	829	2450	874
			f6	CC 50	20600	844	2600	889
CA_3A-7A	75+70	50 + 50	f1	CC 50	19575	1747.5	1575	1842.5
OA_3A-7A	75+76	30 + 30	f2	CC 50	[19900]	[1780]	[1900]	[1875]
			f5	CC 50	21100	2535	3100	2655
			f6	CC 50	21400	2565	3400	2685
CA_3A-8A	75+35	50+50	f1	CC 50	19575	1747.5	1575	1842.5
G/ (_G/ (G/ (f2	CC 50	19900	1780	1900	1875
			f5	CC 50	21625	897.5	3625	942.5
			f6	CC 50	21750	910	3750	955
CA_3A-19A	75+15	100+50	f1	CC 100	19575	1747.5	1575	1842.5
_			f2	CC 100	19850	1775	1850	1870
			f5	CC 50	24100	840	6100	885
			f6	N/A	N/A	N/A	N/A	N/A
CA_3A-20A	75+30	50+50	f1	CC 50	19575	1747.5	1575	1842.5
			f2	CC 50	19900	1780	1900	1875
			f5	CC 50	24200	837	6200	796
			f6	CC 50	24400	857	6400	816
CA_3A-26A	75 + 35	50 + 50	f1	CC 50	19575	1747.5	1575	1842.5
			f2	CC 50	19900	1780	1900	1875
			f5	CC 50	26865	831.5	8865	876.5
04 04 074			f6	CC 50	26990	844	8990	889
CA_3A-27A	75 + 17	50 + 50	f1	CC 50	19575	1747.5	1575	1842.5
			f2	CC 50	19900	1780	1900	1875
			f5	CC 50	27125	815.5	9125	860.5
CA_3A-28A	75+45	50+50	f6 f1	CC 50 CC 50	27160	819 1747.5	9160 1575	864
CA_3A-26A	75+45	50+50	f2	CC 50	19575 19900	1747.5	1900	1842.5 1875
		-		CC 50	27435	725.5	9435	780.5
			f5 f6	CC 50	27610	743	9610	798
CA_4A-5A	45+25	50 + 50	f1	CC 50	20175	1732.5	2175	2132.5
UA_4A-3A	40+20	30 + 30	f2	CC 50	20350	1752.5	2350	2152.5
			f5	CC 50	20450	829	2450	874
			f6	CC 50	20600	844	2600	889
CA_4A-7A	45+70	50+50	f1	CC 50	20175	1732.5	2175	2132.5
J / / /	.5170	55.55	f2	CC 50	20350	1752.5	2350	2150
			f5	CC 50	21100	2535	3100	2655
			f6	CC 50	21400	2565	3400	2685
CA_4A-12A	45+17	50+50	f1	CC 50	20175	1732.5	2175	2132.5
	÷ · · ·		f2	CC 50	20350	1750	2350	2150
			f5	CC 50	23130	711	5130	741
			f6	N/A	N/A	N/A	N/A	N/A
CA_4A-13A	45+10	50 + 50	f1	CC 50	20175	1732.5	2175	2132.5
		- L		CC 50				

		1	f5	CC 50	23230	782	5230	751
			f6	N/A	N/A	N/A	N/A	N/A
CA_4A-17A	45+12	50 + 50	f1	CC 50	20175	1732.5	2175	2132.5
			f2	CC 50	20350	1750	2350	2150
			f5	CC 50	23790	710	5790	740
			f6	N/A	N/A	N/A	N/A	N/A
CA_4A-29A	45+11	50 + 50	f1	CC 50	20175	1732.5	2175	2132.5
			f2	CC 50	20350	1750	2350	2150
			f5	CC 50	N/A	N/A	9720	723
			f6	N/A	N/A	N/A	N/A	N/A
CA_4A-30A	45+10	50 + 50	f1	CC 50	20175	1732.5	2175	2132.5
			f2	CC 50	20350	1750	2350	2150
			f5	CC 50	27710	2310	9820	2355
			f6	N/A	N/A	N/A	N/A	N/A
CA_2A_13A	60+10	50+50	f1	CC 50	18900	1880	900	1960
			f2	CC50	19150	1905	1150	1985
			f5	CC50	23230	782	5230	751
			f6	N/A	N/A	N/A	N/A	N/A
CA_5A-7A	25+70	50 + 50	f1	CC 50	20450	829	2450	874
	- -		f2	CC 50	20600	844	2600	889
			f5	CC 50	21100	2535	3100	2655
			f6	CC 50	21400	2565	3400	2685
CA_5A-12A	25+17	50+50	f1	CC 50	20525	836.5	2525	881.5
			f2	CC 50	20600	844	2600	889
			f5	CC 50	23130	711	5130	741
			f6	N/A	N/A	N/A	N/A	N/A
CA_5A-13A	25+10	50 + 50	f1	CC 50	20450	829	2450	874
			f2	CC 50	20600	844	2600	889
			f5	CC 50	23230	782	5230	751
			f6	N/A	N/A	N/A	N/A	N/A
CA_5A-17A	25+12	50 + 50	f1	CC 50	20525	836.5	2525	881.5
			f2	CC 50	20600	844	2600	889
			f5	CC 50	23790	710	5790	740
			f6	N/A	N/A	N/A	N/A	N/A
CA_5A-25A	25+65	50 + 50	f1	CC 50	20525	836.5	2525	881.5
			f2	CC 50	20600	844	2600	889
			f5	CC 50	26363	1882.5	8365	1962.5
04 54 004	05.40	50 . 50	f6	CC 50	26640	1910	8640	1990
CA_5A-30A	25+10	50 + 50	f1	CC 50	20525	836.5	2525	881.5
			f2 f5	CC 50	20600	844	2600	889
			f6	CC 50 N/A	27710 N/A	2310 N/A	9820 N/A	2355 N/A
CA_7A-20A	70+30	50 + 50	f1	CC 50	21100	2535	3100	2655
OA_1A-20A	<i>i</i> 0+30	30 + 30	f2	CC 50	[21400]	[2565]	[3400]	[2685]
			f5	CC 50	24200	837	6200	796
			f6	CC 50	24400	857	6400	816
CA_8A-11A	35 + 20	50 + 50	f1	CC 50	21750	910	3750	955
33	55 / 25		f2	N/A	N/A	N/A	N/A	N/A
			f5	CC 50	22800	1432.9	4800	1480.9
			f6	N/A	N/A	N/A	N/A	N/A
CA_8A_20A	35 + 30	50 + 50	f1	CC 50	21625	897.5	3625	942.5
_			f2	CC 50	21750	910	3750	955
			f5	CC 50	24200	837	6200	796
			f6	CC 50	24400	857	6400	816
CA_11A-	20+15	50 + 50	f1	CC 50	22800	1432.9	4800	1480.9
18A			f2	CC 50	22900	1442.9	4900	1490.9
			f5	CC 50	23900	820	5900	865
			f6	N/A	N/A	N/A	N/A	N/A
CA_12A-	17+65	50 + 50	f1	CC 50	23060	704	5060	734
25A			f2	N/A	N/A	N/A	N/A	N/A
			f5	CC 50	26363	1882.5	8365	1962.5
			f6	CC 50	26640	1910	8640	1990

CA_12A-	17+10	50 + 50	f1	CC 50	23060	704	5060	734
30A			f2	N/A	N/A	N/A	N/A	N/A
			f5	CC 50	27710	2310	9820	2355
			f6	N/A	N/A	N/A	N/A	N/A
CA_18A-	15+30	50 + 50	f1	CC 50	23900	820	5900	865
28A			f2	N/A	N/A	N/A	N/A	N/A
			f5	CC 50	27360	718	9360	773
			f6	CC 50	27460	728	9460	783
			f1	CC 50	24075	837.5	6075	882.5
CA_19A-	15+15	50+75	f2	N/A	N/A	N/A	N/A	N/A
21A	15+15	50+75	f5	CC 75	24525	1455.4	6525	1503.4
			f6	N/A	N/A	N/A	N/A	N/A
CA_20A-	30+44	50 + 50	f1	CC 50	24300	847	6300	806
32A			f2	CC 50	24400	867	6400	816
			f5	CC 50	N/A	N/A	10140	1474
			f6	CC 50	N/A	N/A	10310	1491
CA_23A-	20+11	50 + 50	f1	CC 50	25550	2005	7550	2185
29A			f2	CC 50	25650	2015	7650	2195
			f5	CC 50	N/A	N/A	9720	723
			f6	N/A	N/A	N/A	N/A	N/A
CA_26A-	60 + 194	50 + 50	f1	CC 50	26865	831.5	8865	876.5
41A			f2	CC 50	26990	844	8990	889
			f5	CC 50	40620	2593	40620	2593
			f6	CC 50	41540	2685	41540	2685
CA_39A-	40+194	100+100	f1	CC 100	38350	1890	38350	1890
41A			f2	CC 100	38550	1910	38550	1910
			f5	CC 100	40620	2593	40620	2593
			f6	CC 100	41490	2680	41490	2680

Table 6.2.3.2-3: Void

Table 6.2.3.2-4: Test frequencies for E-UTRA PCell and SCell for CA non-contiguous Intra-band operation

E-UTRA CA Configuration	Width of Operating band [MHz]	CC Combination / N _{RB_agg}	Test Frequency	CC N _{RB}	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
CA_2A-2A	60	50 + 50	f1	CC 50	18650	1855	650	1935
			f2	CC 50	19150	1905	1150	1985
			f3	CC 50	18900	1880	900	1960
CA_3A-3A	75	50 + 50	f1	CC 50	19250	1715	1250	1810
			f2	CC 50	19900	1780	1900	1875
			f3	CC 50	19575	1747.5	1575	1842.5
CA_4A-4A	45	50 + 50	f1	CC 50	20000	1715	2000	2115
			f2	CC 50	20350	1750	2350	2150
			f3	CC 50	20175	1732.5	2175	2132.5
CA_7A-7A	70	50 + 50	f1	CC 50	20800	2505	2800	2625
			f2	CC 50	21400	2565	3400	2685
			f3	CC 50	21100	2535	3100	2655
CA_23A-23A	20	25 + 50	f1	CC 25	25525	2002.5	7525	2182.5
			f2	CC 50	25650	2015	7650	2195
			f3	N/A	N/A	N/A	N/A	N/A
CA_25A-25A	65	50 + 50	f1	CC 50	26090	1855	8090	1935
			f2	CC 50	26640	1910	8640	1990
			f3	CC 50	26365	1882,5	8365	1962.5
CA_41A-41A	194	100 + 100	f1	CC 100	39750	2506	39750	2506
			f2	CC 100	41490	2680	41490	2680
			f3	CC 100	40620	2593	40620	2593
CA_42A-42A	200	100 + 100	f1	CC 100	41690	3410	41690	3410
			f2	CC 100	43490	3590	43490	3590
			f3	CC 100	42590	3500	42590	3500

6.3 Reference system configurations

The reference system configurations specified in this subclause apply to all Signalling test cases defined in TS 36.523-1 [18] unless otherwise specified, in addition to the common reference system configurations specified in subclause 4.4 of this specification.

For Signalling testing, MIMO (Multiple Input Multiple Output) is not applied for all cell configurations regardless of UE MIMO functionality. Only one SS Tx antenna is used.

One or two UE antennas are used for all signalling test cases. (*1)

(*1) Two UE antennas configuration is possible for UE diversity case.

6.3.1 Default parameter specific for simulated cells

Default parameters specific for simulated cells are specified in this subclause.

6.3.1.1 Intra-frequency neighbouring cell list in SIB4 for E-UTRA cells

Intra-frequency neighbouring cell list for signalling test cases is defined in table 6.3.1.1-1. This table is referred to in the default contents of IE *intraFreqNeighbouringCellList* in *SystemInformationBlockType4* defined in table 4.4.3.3-3.

Table 6.3.1.1-1: Intra-frequency neighbouring cell lists for E-UTRA cells

cell ID	Test	intra-frequency neighbouring cell list						
	Frequency	number of		ohysCellId[<i>n</i>]	q	-OffsetCell [/	n]
		entries	1 2 3			1	2	3
Cell 1	f1	3	Cell 2	Cell 4	Cell 11	dB0	dB0	dB0
Cell 2	f1	3	Cell 1	Cell 4	Cell 11	dB0	dB0	dB0
Cell 4	f1	3	Cell 1	Cell 2	Cell 11	dB0	dB0	dB0
Cell 11	f1	3	Cell 1	Cell 2	Cell 4	dB0	dB0	dB0
Cell 3	f2	1	Cell 23	-	-	dB0	-	-
Cell 23	f2	1	Cell 3	-	-	dB0	-	-

NOTE: The intra-frequency E-UTRA neighbouring cell list for signalling NAS test cases when cells are on same PLMN is defined in table 6.3.2.3.1-1.

6.3.1.2 Inter-frequency carrier frequency list in SIB5 for E-UTRA cells

Inter-frequency E-UTRA carrier frequency list for signalling test cases is defined in table 6.3.1.2-1. This table is referred to in the default contents of IE *interFreqCarrierFreqList* in *SystemInformationBlockType5* defined in table 4.4.3.3-4.

Table 6.3.1.2-1: Inter-frequency carrier frequency lists for E-UTRA cells

cell ID	Test	interFreqCarrierFreqList					
	Frequency	number of dl-CarrierFreq[[n]			
		entries	1	2	3		
Cell 1	f1	3	f2	f3	f5		
Cell 2							
Cell 4							
Cell 11							
Cell 3	f2	3	f1	f3	f5		
Cell 23							
Cell 6	f3	3	f1	f2	f5		
Cell 10	f5	3	f1	f2	f3		
Note 1:	The inter-frequency	uency E-UTRA	carrier frequ	uency list for	signalling		
	NAS test case	s when cells a	re on same l	PLMN is defi	ned in		
	table 6.3.2.3.2						
Note 2:	Depending on	the Band und	er test, f3 ma	ay not be app	olicable.		
Note 3:		t frequency f1,					
	•	ency list is applicable only in case of multi-band					
1	scenarios.						
Note 4:		t frequency f5,		•			
	frequency list	cy list is applicable only in case of multi-band scenarios.					

In the case of dual mode multi-cell network scenarios as defined in subclause 4.4.1.3, inter-frequency E-UTRA carrier frequency list for signalling test cases is defined in table 6.3.1.2-2.

Table 6.3.1.2-2: Inter-frequency carrier frequency lists for E-UTRA cells in dual mode scenario

cell ID	Test	interFreqCarrierFreqList				
	Frequency	number of	dl-0	CarrierFreq	[<i>n</i>]	
		entries	1	2	3	
Cell 1	f1	3	f2	f5	f6	
Cell 2						
Cell 4						
Cell 3	f2	3	f1	f5	f6	
Cell 10,	f5	3	f1	f2	f6	
Cell 30,						
Cell 31						
Cell 28,	f6	3	f1	f2	f5	
Cell 29						

6.3.1.3 UTRA carrier frequency list in SIB6 for E-UTRA cells

UTRA carrier frequency list for signalling test cases is defined in table 6.3.1.3-1. This table is referred to in the default contents of IE *carrierFreqListUTRA-FDD* and *carrierFreqListUTRA-TDD* in *SystemInformationBlockType6* defined in table 4.4.3.3-5.

Table 6.3.1.3-1: UTRA carrier frequency lists for E-UTRA cells

interFreqCarrierFreqList							
number of carrierFreq[n]							
entries	1	2	3				
3	f9	f10					
Note: Band VI has	Note: Band VI has two entries.						

Table 6.3.1.3-2: Mapping of UTRA cell with TS 34.108 [5]

UTRA cell	A cell Frequency UTRA cell in 34.108, clause		UTRA frequency in TS 34.108				
Cell 5	f8	Cell 1	High (Note 2)				
Cell 7	f8	Cell 2	High (Note 2)				
Cell 8	f9	Cell 4	Mid (Note 2)				
Cell 9	f10	Cell 7	Low				
	Note 1: The following simultaneous co-existences in the test are not allowed: - cells on f1 (eUTRA cell 1, cell 2, cell 4, cell 11) and f9 (UTRA						

cells on f2 (eUTRA cell 3, cell 12, cell 23) and f8 (UTRA cell 5, cell 7);
cells on f3 (eUTRA cell 6, Cell 13) and f10 (UTRA cell 9).

Note 2: On UTRA Band VI, the Low range test frequency is applied to f9 for Cell 8, and f8 for Cell 5 and Cell 7.

Note 3: The combinations of the referred TS 34.108 UTRA Cell index and frequency in this table override that specified in TS 34.108.

6.3.1.4 GERAN carrier frequency group list in SIB7 for E-UTRA cells

GERAN carrier frequency group list for signalling test cases is defined in table 6.3.1.4-1. This table is referred to in the default contents of IE *carrierFreqsInfoList* in *SystemInformationBlockType7* defined in table 4.4.3.3-6.

Table 6.3.1.4-1: GERAN carrier frequency group list for E-UTRA cells

carrierFreqsInfoList								
number of	index	carrierFreqs[<i>n</i>]						
entries	(<i>n</i>)	startingARFCN[n]	explicitListOfARFCNs[n]					
			number of entries	ARFCN-ValueGERAN				
1	1	f11	2	f12, f13				

Table 6.3.1.4-2: Mapping of GERAN cells with TS 51.010-1 [25]

GERAN cell	Frequency	GERAN cell in TS 51.010-1, clause 40
Cell 24	f11	Cell A
Cell 25	f12	Cell D
Cell 26	f13	Cell B

NOTE 2: Unless otherwise stated, GERAN cells 24/25/26 take the default values of GERAN cells A/B/D as defined in TS 51.010 clause 40.

6.3.1.5 CDMA2000 HRPD carrier frequency list in SIB8 for E-UTRA cells

CDMA2000 HRPD carrier frequency list for signalling test cases is defined in table 6.3.1.5-1. This table is referred to in the default contents of IE *cellReselectionParametersHRPD* in *SystemInformationBlockTyp8* defined in table 4.4.3.3-7.

Table 6.3.1.5-1: CDMA2000 HRPD carrier frequency list for E-UTRA cells

	neighCellsPerFreqList									
number of	index	arfcn[n]		physCellIdList[n]						
entries	(<i>n</i>)		number of entries	index	PhysCellIdCDMA2000					
3	1	f14	2	1	Cell 15					
				2	Cell 16					
	2	f15	1	1	Cell 17					
	3	f16	1	1	Cell 18					

6.3.1.6 CDMA2000 1xRTT carrier frequency list in SIB8 for E-UTRA cells

CDMA2000 1xRTT carrier frequency list for signalling test cases is defined in table 6.3.1.6-1. This table is referred to in the default contents of IE *cellReselectionParameters1XRTT* in *SystemInformationBlockTyp8* defined in table 4.4.3.3-7.

Table 6.3.1.6-1: CDMA2000 1xRTT carrier frequency list for E-UTRA cells

neighCellsPerFreqList									
number of	index	arfcn[n] physCellIdList[n]							
entries	(<i>n</i>)				PhysCellIdCDMA2000				
3	1	f17	2	1	Cell 19				
				2	Cell 20				
	2	f18	1	1	Cell 21				
	3	f19	1	1	Cell 22				

6.3.1.7 E-UTRA carrier frequency list in SIB19 for UTRA cells

E-UTRA carrier frequency list for signalling test cases is defined in table 6.3.1.7-1. This table is referred to in the default contents of IE eutra-FrequencyAndPriorityInfoList in System Information Block type 19 defined in table 4.4.4.1-1.

Table 6.3.1.7-1: E-UTRA carrier frequency list for UTRA cells

eutra-FrequencyAndPriorityInfoList								
number of			earfcn[<i>n</i>]					
entries	1	2	3	4	-			
4	f1	f2	f3	f4	-			
Note: D	epending on the	Band under to	est, f2, f3 and f	4 may not be	applicable.			

6.3.2 Default configurations for NAS test cases

The default configurations specified in this subclause apply only to NAS test cases. They apply to all NAS test cases unless otherwise specified.

6.3.2.1 Simulated network scenarios for NAS test cases

Simulated network scenarios for NAS test cases to be tested are specified in the pre-test conditions of each individual test case.

NOTE: The number of cells specified does not necessarily correspond to the maximum number of resources to be configured simultaneously in test equipment. Please refer to Table 6.1-1 for such information.

Any combination is allowed with the following restrictions:

- Cell E should not be used if Cell G or Cell H is used, otherwise two different PLMNs will be operated on the same frequency
- a maximum 3 cells on the same frequency can be used, i.e. only 3 cells out of cells A, B, C, D and M may be used simultaneously in each individual test case when cells in the test case are in different PLMNs (refer to Table 6.3.2.2-3).

6.3.2.2 Simulated NAS cells

Simulated NAS cells and default parameters are specified in table 6.3.2.2-1.

Unless otherwise specified, the default parameters specified in section 4 also apply to all NAS cells.

Table 6.3.2.2-1: Default parameters for simulated NAS cells

NAS cell		Tracking	Area		TA# list	GUTI (Note 2)				
ID	TA#	PLM	N	TAC	(Note 1)	MME Ider	ntifier	M-TMSI		
		MCC	MNC			MME Group ID	MME Code			
Cell A	TAI-1	(Note	3)	1	TAI-1	32769	1	Arbitrarily		
Cell B	TAI-2	(Note	3)	2	TAI-2	32770	1	selected		
Cell C	TAI-3	(Note	3)	3	TAI-3	32771	1	according to		
Cell D	TAI-4	(Note	3)	4	TAI-4	32772	1	TS 23.003		
Cell E	TAI-12	002	101	3	TAI-12	32777	1	subclause 2.8		
Cell F								[2].		
Cell G	TAI-7	(Note 4)	02	1	TAI-7	32775	1			
Cell H	TAI-8	(Note 4)	02	2	TAI-8	32776	1			
Cell I	TAI-9	002	101	1	TAI-9	32777	1			
Cell J	TAI-10	003	101	1	TAI-10	32778	1			
Cell K	TAI-9	002	101	1	TAI-9	32777	1			
Cell L	TAI-11	002	101	2	TAI-11	32779	1			
Cell M	TAI-1	(Note	3)	1	TAI-1	32769	1			
	Note 1: The value(s) in the column TA# list indicates TAI(s) included in the response messages of the registration procedure (ATTACH ACCEPT or TRACKING AREA UPDATE ACCEPT) when the UE performs the									
	registration procedure on a corresponding cell.									
	The value in the column GUTI indicates GUTI included in the response messages of the registration									
	•					DATE ACCEPT) wh	en the UE perfo	rms the		
	registration pi	ocedure o	n a corre	esponding			_			

Note 5: Cell A is a serving cell and the other cells are suitable neighbour cells. The definitions are specified in subclause 6.2.2.1.

Set to the same Mobile Country Code stored in EF_{IMSI} on the test USIM card (subclause 4.9.3).

000010000 0.2.2.1.

Note 3:

Note 4:

Table 6.3.2.2-2: Default cell identifiers for simulated NAS cells when cells are in same PLMN

Set to the same Mobile Country Code and Mobile Network Code stored in EFIMSI on the test USIM card

NAS	Frequency	E-UTRAN Cell I	ldentifier	Physical	rootSequenceIndex	rootSequenceIndex
cell ID		eNB Identifier Cell		layer cell	FDD	TDD
			Identity	identity		

Cell A	f1	'0000 0000 0000 0001 0001'B	'0000 0001'B	1	22	0
Cell B	f1	'0000 0000 0000 0001 0001'B	'0000 0010'B	2	86	8
				_		_
Cell C	f2	,0000 0000 0000	'0000	3	22	0
		0001 0010'B	0011'B			
Cell D	f1	,0000 0000 0000	'0000	4	150	16
		0001 0001'B	0100'B			
Cell E	NA	NA	NA	NA	NA	NA
Cell F	NA	NA	NA	NA	NA	NA
Cell G	NA	NA	NA	NA	NA	NA
Cell H	NA	NA	NA	NA	NA	NA
Cell I	NA	NA	NA	NA	NA	NA
Cell J	NA	NA	NA	NA	NA	NA
Cell M	f2	,0000 0000 0000	'0001	17	86	8
		0010 0001'B	0001'B			

Table 6.3.2.2-3: Default cell identifiers for simulated NAS cells when cells are in different PLMNs

NAS cell			E-UTRAN Cell lo	dentifier	Physical	rootSeque	rootSeque
ID	PLMN	Frequency	eNB Identifier	Cell	layer cell	nceIndex	nceIndex
				Identity	identity	FDD	TDD
Cell A	MCC/MNC=	f1	'0000 0000 0000	'0000	1	22	0
	MCC/MNC in USIM		0010 0001'B	0001'B			
Cell B	MCC/MNC=	f1	'0000 0000 0000	'0000	2	86	8
	MCC/MNC in USIM		0010 0001'B	0010'B			
Cell C	MCC/MNC=	f1	'0000 0000 0000	'0000	3	150	16
	MCC/MNC in USIM		0010 0001'B	0011'B			
Cell D	MCC/MNC=	f1	'0000 0000 0000	'0000	4	214	24
	MCC/MNC in USIM		0010 0001'B	0100'B			
Cell E	MCC=002	f2	,0000 0000 0000	'0001	23	22	0
	MNC=101		0011 0101'B	0111'B			
Cell F	NA	NA	NA	NA	NA	NA	NA
Cell G	MCC = MCC in USIM	f2	'0000 0000 0000	'0000	11	86	8
	MNC=02		0010 0010'B	1011'B			
Cell H	MCC= MCC in USIM	f2	'0000 0000 0000	'0000	12	150	16
	MNC=02		0010 0010'B	1100'B			
Cell I	MCC=002	f3 (Note 1)	'0000 0000 0000	'0000	13	22	0
	MNC=101		0010 0011'B	1101'B			
Cell J	MCC=003	f4 (Note 1)	'0000 0000 0000	'0000	14	22	0
	MNC=101		0010 0100'B	1110'B			
Cell K	MCC=002	f3 (Note 1)	'0000 0000 0000	'0000	15	86	8
	MNC=101		0010 0011'B	1111'B			
Cell L	MCC=002	f3 (Note 1)	'0000 0000 0000	'0001	16	150	16
	MNC=101		0010 0011'B	0000'B			
Cell M	MCC/MNC=	f1	'0000 0000 0000	'0001	17	278	32
	MCC/MNC in USIM		0010 0001'B	0001'B			

Note 1: The test frequency f3 or f4 is allocated to the cell if f1 and f2 are already allocated to the cells in the test. Otherwise, f1 or f2 is allocated, instead.

6.3.2.3 Broadcast system information

6.3.2.3.1 Intra-frequency neighbouring cell list in SIB4 for E-UTRA NAS cells

Intra-frequency neighbouring cell list of the same PLMN for the NAS signalling test is defined in table 6.3.2.3.1-1 when SIB4 to be broadcast.

Table 6.3.2.3.1-1: Intra-freq. lists in SIB4 for NAS test cases (same PLMN)

NAS cell ID	Test	Intra-frequency neighbouring cell list			
	Frequency	number of	physC	ellid[n]	
		entries	1	2	
Cell A	f1	2	Cell B	Cell D	
Cell B	f1	2	Cell A	Cell D	
Cell D	f1	2	Cell A	Cell B	
Cell C	f2	1	Cell M	N/A	
Cell M	f2	1	Cell C	N/A	

6.3.2.3.2 Inter-frequency carrier frequency list in SIB5 for E-UTRA NAS cells

Inter-frequency neighbouring carrier and cell lists for NAS signalling test cases are defined in table 6.3.2.3.2-1 for same PLMN and table 6.3.2.3.2-2 for different PLMN.

Table 6.3.2.3.2-1: Inter-freq. lists in SIB5 for NAS test cases (same PLMN)

NAS cell ID	Test	interFreqCarrierFreqList			
	Frequency	number of	number of dl-Carrier		
		entries	1	2	
Cell A	f1	1	f2	NA	
Cell B					
Cell D					
Cell C	f2	1	f1	NA	
Cell M					
NOTE: Op	NOTE: Operating on Band 13, SIB5 is not broadcast.				

Table 6.3.2.3.2-2: Inter-freq. lists in SIB5 for NAS test cases (different PLMN)

NAS cell ID	Test Frequency	interF	interFreqCarrierFreqList		
		number of	dl-Carı	rierFreq[n]	
		entries	1	2	
Cell A	f1	0	NA	NA	
Cell B					
Cell C					
Cell D					
Cell M					
Cell G	f2	0	NA	NA	
Cell H					
Cell I	f3	0	NA	NA	E-NOT-CONF
Cell K		_			
Cell L		1	f2		E-CONF
Cell J	f4	0	NA	NA	
Cell E	f2	1	f3	NA	

Condition	Explanation
E-NOT-CONF	cell E is not configured in the test
E-CONF	cell E is configured in the test

6.3.3 Cell configurations

For the purpose of test not involving Carrier Aggregation, three types of SS cell configurations are defined, full (Active) cell configuration, broadcast only cell configuration and minimum uplink cell configuration.

The abovementioned configurations can also be used in Carrier Aggregation test cases, either for PCells or SCells. However another configuration, the virtual cell configuration, can additionally be used for an SCell that is not active.

6.3.3.1 Full cell configuration

Full cell configuration is also called active cell configuration. The cell configuration, in minimum, has all defined DL and UL physical channels configured, i.e.

in DL: PBCH, PCFICH, PDCCH, PDSCH, PHICH,

in UL: PRACH, PUCCH, PUSCH.

The DL and UL Reference and synchronization (both primary and secondary) signals are also configured.

6.3.3.2 Minimum uplink cell configuration

In this cell configuration,

in DL: physical channels capable of transmission, i.e. PBCH, PCFICH, PDCCH, PDSCH are configured;

DL physical reference and synchronization (both primary and secondary) signals are also configured.

In UL: PRACH is configured. SS shall report any detection of PRACH preambles, in order to assign test

verdicts. Decoding the preambles is not required.

6.3.3.3 Broadcast only cell configuration

In this cell configuration,

in DL: physical channels capable of transmission, i.e. PBCH, PCFICH, PDCCH, PDSCH are configured;

DL physical reference and synchronization (both primary and secondary) signals are also configured.

in UL: no physical resources are configured, neither channels, nor signals.

6.3.3.3A Virtual cell configuration

In this cell configuration,

in DL: no physical resources are configured, neither channels, nor signals;

in UL: no physical resources are configured, neither channels, nor signals.

6.3.3.4 Application of different cell configurations

By default, the cells specified in 36.523-1 are defined with the full cell configuration, unless it is explicitly specified as either the broadcast only, minimum uplink, or virtual cell configuration. The full cell configuration is suitable for UE to start camping, establish RRC connection or hand over from another active cell.

The broadcast only cells identified as 'DL only' can be applied in some RRC measurement test cases to those neighbour cells which UE shall not camp on during the test case execution.

The capability of a minimum uplink cell is much weaker than a full cell, but stronger than a broadcast only cell in UL. This cell configuration identified as 'min UL' can be applied in the idle mode test cases to those neighbour cells which a conformant UE shall not camp on during the test case execution.

The virtual cell configuration can only be used in Carrier Aggregation test cases as an SCell which is not active, i.e. the UE has it configured via RRC signalling but does not need to send or receive anything in this SCell.

If a cell configuration is specified in a test case it shall remain unchanged throughout the test case specification. In addition, there shall not be any requirement in the test specification or test implementation for a cell reconfiguration from one of the above configurations to the other.

For the UE conformance test, the broadcast only cell configuration can be replaced and implemented with the minimum uplink or full cell configurations. The minimum uplink cell configuration can also be implemented with the full cell configuration. The replacements in the implementation have no impact on the test purposes and the test requirements. The implementation guidelines are referred to 36.523-3.

6.3.4 SCell configurations

For the purpose of System Simulator resource management for Carrier Aggregation testing the following types of SCell configurations are defined:

- Active SCell: A cell that becomes an SCell at any point of time during the test case and which, while being an SCell, is activated .
- Inactive SCell: A cell that becomes an SCell at any point of time during the test case, but is never activated while being an SCell.

SCell activation is defined as sending an Activation/Deactivation MAC Control Element (ref. 36.321 cl. 6.1.3.8) to the UE to activate the SCell.

The SCell type does not depend on what the cell is used for in the test case while not being an SCell, and does not directly relate to the cell type specified in section 6.3.3. In particular an Inactive SCell can still be used as full cell or broadcast only cell (e.g. for measurements to be performed on such a cell), and may be used for UE dedicated traffic while not acting as an SCell.

Also note that an Active SCell will not become an Inactive SCell if the SCell is deactivated via Activation/Deactivation MAC Control Element or after the *sCellDeactivationTimer* timer expires.

6.4 Generic procedures

This clause describes UE test states which can be used in the initial condition of many test cases defined in TS 36.523-1 [18] in addition to the states already specified in clause 4.5 of this specification.

6.4.1 Initial UE states and setup procedures

6.4.1.1 Initial UE states and setup procedures

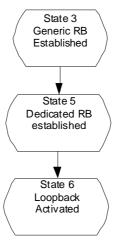


Figure 6.4.1.1-1: Initial UE states

In order that the UE can set up a call or session in E-UTRAN, there are a number of setup procedures to be undertaken in a hierarchical sequence to move between known states. The sequences are shown in figure 6.4.1.1-1 and the status of the relevant protocols in the UE in the different states are given in table 6.4.1.1-1. State 3 is defined in clause 4.5.1.

Table 6.4.1.1-1: Protocol state for each initial UE state

		RRC	ECM	EMM	ESM
State 5	Dedicated RB established	RRC_CONNECTED	ECM_CONNECTED	EMM-REGISTERED	1 default EPS bearer context active N dedicated EPS bearer context(s) active
State 6	Loopback Activated	RRC_CONNECTED	ECM_CONNECTED	EMM-REGISTERED	1 default EPS bearer context active N dedicated EPS bearer context(s) active

6.4.1.2 Dedicated Bearer Establishment (to state 5)

6.4.1.2.1 Initial conditions

System Simulator:

- Parameters are set to the default parameters for the basic single cell environment, as defined in subclause 4.4, unless otherwise specified in the test case.

User Equipment:

- The UE shall be in Generic RB established (State 3).

6.4.1.2.2 Definition of system information messages

The default system information messages are used.

6.4.1.2.3 Procedure

The establishment of dedicated radio bearer connection is assumed to always be mobile terminated.

Table 6.4.1.2.3-1: Procedure for dedicated bearer establishment

Step	Procedure	Message Sequence		
		U-S	Message	
1	The SS configures new data radio bearer(s) and the associated dedicated EPS bearer context(s).	<	RRC: RRCConnectionReconfiguration NAS: ACTIVATE DEDICATED EPS BEARER CONTEXT REQUEST	
2	The UE transmits an RRCConnectionReconfigurationComplete message to confirm the establishment of the new data radio bearer(s), associated with the dedicated EPS bearer context(s) in the NAS message.	>	RRC: RRCConnectionReconfigurationComplet e	
3	The UE transmits an ACTIVATE DEDICATED EPS BEARER CONTEXT ACCEPT message.	>	NAS: ACTIVATE DEDICATED EPS BEARER CONTEXT ACCEPT	

6.4.1.2.4 Specific message contents

All specific message contents shall be referred to clause 4.6 and 4.7.

6.4.1.3 Loopback Activation (to state 6)

Editor's Note: This section will be completed when message for loopback activation is defined in TS 36.509. The table below is just an example and should be aligned with TS 36.509.

6.4.1.3.1 Initial conditions

System Simulator:

- Parameters are set to the default parameters for the basic single cell environment, as defined in subclause 4.4, unless otherwise specified in the test case.

User Equipment:

- The UE shall be in Dedicated Radio Bearer Established (State 5).

6.4.1.3.2 Definition of system information messages

The default system information messages are used.

6.4.1.3.3 Procedure

Table 6.4.1.3.3-1: Procedure for loopback activation

Step	Procedure	Message Sequence		
		U-S	Message	
1	The SS transmits an ACTIVATE RB TEST MODE message to activate UE radio bearer test mode procedure.	\ '	RRC: DLInformationTransfer TC: ACTIVATE RB TEST MODE	
2	The UE transmits an ACTIVATE RB TEST MODE COMPLETE message.	>	RRC: ULInformationTransfer TC: ACTIVATE RB TEST MODE COMPLETE	
3	The SS transmits a CLOSE UE TEST LOOP message to enter the UE test loop mode.	<	RRC: DLInformationTransfer TC: CLOSE UE TEST LOOP	
4	The UE transmits a CLOSE UE TEST LOOP COMPLETE message to confirm that loopback entities for the radio bearer(s) have been created and loop back is activated (State 6).	^	RRC: ULInformationTransfer TC: CLOSE UE TEST LOOP COMPLETE	

6.4.1.3.4 Specific message contents

All specific message contents shall be referred to clause 4.6, 4.7 and 4.7A.

6.4.2 Test procedures

6.4.2.1 Introduction

This section defines test procedures which can be used within test procedure sequences for test steps where checking the UE state is needed.

For each test procedure,

- at the start of the test procedure,
 - the System Simulator condition and the value of system information messages are the ones applicable in the test case referring to this test procedure, as they are after the execution of the test step immediately preceding the test step where the test procedure is used;
 - the initial UE condition is one indicated in the test case referring to this procedure, as it is after the execution of the test step immediately preceding the test step where the test procedure is used.
- at the end of the test procedure,
 - the System Simulator condition after the test procedure execution is complete is the same as before it is started (this should not be changed by the test procedure).

6.4.2.2 Test procedure to check RRC_IDLE state

This procedure aims at checking whether the UE is in RRC_IDLE on a certain cell of a test case or not.

Table 6.4.2.2-1: Test procedure sequence

St	Procedure		Message Sequence	TP	Verdict
		U-S	Message/PDU/SDU		
0	The SS waits 1 second.	-	-	-	-
1	The SS sends RRC <i>Paging</i> message with UE S-TMSI on the cell(s) specified in the test case.	<	RRC: Paging (PCCH)	-	-
2	Check: Does the UE send an RRCConnectionRequest message on the cell specified in the test case?	>	RRC: RRCConnectionRequest		Р
3	The SS transmits a RRCConnectionSetup message	<	RRC: RRCConnectionSetup	1	-
4	The UE transmits an RRCConnectionSetupComplete message to confirm the successful completion of the connection establishment and to initiate the session management procedure by including the SERVICE REQUEST message.	>	RRC: RRCConnectionSetup Complete NAS: SERVICE REQUEST	-	-
5 - 6	Void	-	-	-	-
7	The SS transmits a SecurityModeCommand message to activate AS security.	<	RRC: SecurityModeCommand	-	-
8	The UE transmits a SecurityModeComplete message.	>	RRC: SecurityModeComplete	-	-
9	The SS transmits a RRCConnectionReconfiguration message to establish the default bearer with condition SRB2-DRB(1, 0) according to 4.8.2.2.1.1,	<	RRC: RRCConnectionReconfiguration	-	-
10	The UE transmits an RRCConnectionReconfiguration complete message.	>	RRC: RRCConnectionReconfigurationC omplete	-	-
11	The SS release the RRC connection.	<	RRC: RRCConnectionRelease	-	-

6.4.2.3 Test procedure to check RRC_CONNECTED state

Table 6.4.2.3-1: Test procedure sequence

St	Procedure	Message Sequence		TP	Verdict
		U-S	Message/PDU/SDU		
1	The SS sends <i>UECapabilityEnquiry</i> message to the UE.	<	UECapabilityEnquiry	-	-
2	Check: Does the UE send a UECapabilityInformation message?	>	UECapabilityInformation		Р

6.4.2.4 Test procedure Paging (for NAS testing)

This procedure aims at checking whether the UE is in registered with a certain S-TMSI.

For the PS domain this procedure is identical to the procedure in 6.4.2.2 except that the S-TMSI as indicated in step 1 is the one explicitly specified in the test step calling this procedure.

For the CS domain the test procedure is FFS (i.e. it shall be avoided to make use of CS paging in the test case design).

6.4.2.5 Test procedure for no response to paging (for NAS testing)

This procedure aims at checking that the UE ignores paging messages with a specified identity.

The procedure is defined in table 6.4.2.5-1.

Table 6.4.2.5-1: Test procedure sequence

St	Procedure		Message Sequence	TP	Verdict
		U - S	Message		
0	The SS waits 1 second.	-	-	-	-
1	The SS transmits a paging message using the UE identity and the CN domain which are both specified in the referring test step, and on the cell which is specified in the referring test step.	<	Paging	-	-
2	Check: Does the UE send an RRCConnectionRequest message on the cell where the paging was transmitted within the next 3s?	>	RRCConnectionRequest		F

6.4.2.6 Test procedure to check that a dedicated EPS bearer context is active (for NAS testing)

This procedure aims at checking that a dedicated EPS bearer context is active.

The procedure is defined in table 6.4.2.6-1.

Table 6.4.2.6-1: Test procedure sequence

St	Procedure	Message Sequence		TP	Verdict
		U - S	Message	1	
1	The SS modifies existing data radio bearer(s) and the associated EPS bearer context(s) with Bearer QoS update.	<	RRC: RRCConnectionReconfiguration NAS: MODIFY EPS BEARER CONTEXT REQUEST	-	-
2	The UE transmits an RRCConnectionReconfigurationComplete message to confirm the modification of the existing data radio bearer(s), associated with the EPS bearer context(s) in the NAS message.	>	RRC: RRCConnectionReconfigurationC omplete	-	-
3	Check: Does the UE transmit a MODIFY EPS BEARER CONTEXT ACCEPT message?	>	RRC: ULInformationTransfer NAS: MODIFY EPS BEARER CONTEXT ACCEPT		Р

6.4.2.7 Test procedure to check that UE is camped on a new E-UTRAN cell

This procedure aims at checking whether the UE is camping on a new E-UTRAN cell with different TAI of a test case or not.

The procedure is defined in table 6.4.2.7-1.

Table 6.4.2.7-1: Test procedure sequence

St	Procedure	Message Sequence		TP	Verdict
		U - S	Message		
1	The UE transmits an RRCConnectionRequest message on the cell specified in the test case.	>	RRC: RRCConnectionRequest	-	-
2	SS transmit an <i>RRCConnectionSetup</i> message.	<	RRC: RRCConnectionSetup	-	-
3	The UE transmits an RRCConnectionSetupComplete message to confirm the successful completion of the connection establishment and a TRACKING AREA UPDATE REQUEST message is sent to update the registration of the actual tracking area.		RRC: RRCConnectionSetupComplete NAS: TRACKING AREA UPDATE REQUEST	-	-
4	SS responds with TRACKING AREA UPDATE ACCEPT message.	<	RRC: DLInformationTransfer NAS: TRACKING AREA UPDATE ACCEPT	-	-
5	Check: Does the UE send a TRACKING AREA UPDATE COMPLETE on the cell specified in the test case?	>	RRC: <i>ULInformationTransfer</i> NAS: TRACKING AREA UPDATE COMPLETE	-	Р
6	The SS transmits an RRCConnectionRelease message to release RRC connection and move to RRC_IDLE.	<	RRC: RRCConnectionRelease	-	-

NOTE 1: The periodic tracking area updating timer T3412 is deactivated by default during the attach procedure (TS 36.508 clause 4.7.2).

NOTE 2: The SS does not initiate authentication and NAS SECURITY MODE COMMAND are not performed (reuse of keys allocated during the attach procedure).

6.4.2.7A Test procedure to check that UE is camped on E-UTRAN cell upon mobility from another RAT

This procedure aims at checking whether the UE is camping on a E-UTRAN cell upon mobility from another RAT after Inter RAT reselection.

The procedure if PDP context was established before inter RAT reselection, is defined in table 6.4.2.7A-1.

Table 6.4.2.7A-1: Test procedure sequence

			Message Sequence	TP	Verdict
		U - S	Message		
1	The UE transmits a <i>RRCConnectionRequest</i> message on the cell specified in the test case.	>	RRC: RRCConnectionRequest	-	-
2	SS transmit an <i>RRCConnectionSetup</i> message.	<	RRC: RRCConnectionSetup	-	-
3	The UE transmits a RRCConnectionSetupComplete message to confirm the successful completion of the connection establishment and a TRACKING AREA UPDATE REQUEST message is sent to update the registration of the actual tracking area.	>	RRC: RRCConnectionSetupComplete NAS: TRACKING AREA UPDATE REQUEST	-	-
4	The SS transmits a NAS SECURITY MODE COMMAND message to activate NAS security (mapped security context) (Note 1).	<	RRC: DLInformationTransfer NAS: SECURITY MODE COMMAND	-	-
5	The UE transmits a NAS SECURITY MODE COMPLETE message and establishes the initial security configuration.	>	RRC: <i>ULInformationTransfer</i> NAS: SECURITY MODE COMPLETE	-	-
6	SS responds with TRACKING AREA UPDATE ACCEPT message.	<	RRC: DLInformationTransfer NAS: TRACKING AREA UPDATE ACCEPT	-	-
7	Check: Does the UE send a TRACKING AREA UPDATE COMPLETE on the cell specified in the test case?	>	RRC: <i>ULInformationTransfer</i> NAS: TRACKING AREA UPDATE COMPLETE	-	Р
8	The SS transmits an RRCConnectionRelease message to release RRC connection and move to RRC_IDLE. 1: Step 4 and 5 are executed only when UE and S	<	RRC: RRCConnectionRelease	-	-

The procedure if PDP context was not established before inter RAT reselection, is defined in table 6.4.2.7A-2.

Table 6.4.2.7A-2: Test procedure sequence

St	Procedure	Message Sequence		TP	Verdict
		U-S	Message	1	
-	EXCEPTION: For Rel-8 and Rel-9 steps 1 to 6 are optional and depend on UE implementation. A Rel-10 UE directly starts attach procedure from step 6.	-	-	-	-
1	The UE transmits a RRCConnectionRequest message on the cell specified in the test case.	>	RRC: RRCConnectionRequest	-	-
2	SS transmit an <i>RRCConnectionSetup</i> message.	<	RRC: RRCConnectionSetup	-	-
3	The UE transmits a RRCConnectionSetupComplete message to confirm the successful completion of the connection establishment and a TRACKING AREA UPDATE REQUEST message is sent to update the registration of the actual tracking area.	>	RRC: RRCConnectionSetupComplete NAS: TRACKING AREA UPDATE REQUEST	-	-
4	The SS transmits a TRACKING AREA UPDATE REJECT message with cause #40 (No EPS bearer context activated) to force attach the UE	<	RRC: DLInformationTransfer NAS: TRACKING AREA UPDATE REJECT		
-	EXCEPTION: Step 5 describes the behaviour that depends on UE behaviour (Note 1).	-	-	-	-
5	The SS transmits an RRCConnectionRelease message to release RRC connection and move to RRC_IDLE.	<	RRC: RRCConnectionRelease	-	-
-	EXCEPTION: Step 6 describes a behaviour which depends on the UE capability	-	-	•	-
6	IF NOT pc_Auto_PDN_Connectivity, the user initiates an attach by MMI or by AT command. (Note 2)	-	-	-	-
7- 22	Steps 2 to 17 of the generic UE Registration procedure (4.5 .2.3-1) are executed to successfully complete the Attach procedure.	-	-	-	-

SS waits for 1.5 second to receive the Attach Request on the existing RRC Connection. In case Attach Request is not received within 1.5 second, existing RRC Connection is released.

The request is assumed to be triggered by AT command AT+CGDCONT=1,"IP" followed by AT+CGACT=1 Note 1:

6.4.2.7A.1 Specific message contents

Table 6.4.2.7A.1-1: TRACKING AREA UPDATE REQUEST (Step 3, table 6.4.2.7A-1, 6.4.2.7A-2)

Derivation Path: 36.508 clause 4.7.2 Information Element	Value/remark	Comment	Condition
	value/remark	Comment	Condition
EPS update type EPS update type Value	'000'B	TA undating	TA only
EFS update type value	'001'B or '010'B	TA updating Combined TA/LA updating or combined TA/LA updating with IMSI attach	TA_only No_LAU_Co mbinedRAU _GERAN_U TRA
	'010'B	Combined TA/LA updating with IMSI attach	LAU_Combi nedRAU_G ERAN_UTR A
"Active" flag	Any allowed value		
NAS key set identifier			
NAS key set identifier	The valid NAS key set identifier of the UE		
TSC	'0'B	native security context (for KSI _{ASME})	Native_Secu irty_Context
	'1'B	mapped security context (for KSI _{SGSN})	Mapped_Se cuirty_Conte xt
GPRS ciphering key sequence number	Not present or any allowed value		
Old P-TMSI signature	Any allowed value		
Additional GUTI	Not present or any allowed value		
Nonce _{UE}	Not present or any allowed value		
UE radio capability information update needed	Not present or any allowed value		
EPS bearer context status	Not present or (octet 3 = '00100000'B and octet 4 = '00000000'B)		Bearer_Esta blished
	Not present or (octet 3 = '000000000'B and octet 4 = '00000000'B)		No_Bearer_ Established

Condition	Explanation
TA_only	See the definition below table 4.7.2-24.
combined_TA_LA	See the definition below table 4.7.2-24.
Native_Secuirty_Context	UE has performed AKA on the EUTRA Cell
Mapped_Secuirty_Context	UE has performed AKA on the UTRA/GERAN Cell
No_LAU_CombinedRAU_GERAN_UTRA	UE has not performed location area update procedure or a combined routing area update procedure in A/Gb or lu mode
LAU_CombinedRAU_GERAN_UTRA	UE has performed location area update procedure or a combined routing area update procedure in A/Gb or lu mode
Bearer_Established	Bearer is Established when UE earlier camped at UTRAN/GERAN cell or UE previously successfully camped in EUTRA cell.
No_Bearer_Established	Bearer is not Established when UE earlier camped at UTRAN/GERAN cell and UE did not previously camped in EUTRA cell.

This message is sent integrity protected when a valid security context exists and without integrity protection otherwise.

6.4.2.8 Test procedure to check that UE is camped on a new UTRAN cell

This procedure aims at checking whether the UE is camping on a new UTRAN cell of a test case or not.

The procedure is defined in table 6.4.2.8-1.

Table 6.4.2.8-1: Test procedure sequence

St	Procedure	Message Sequence		TP	Verdict
		U-S	Message		
1	The UE transmits a RRC CONNECTION REQUEST message on the cell specified in the test case.	>	RRC: RRC CONNECTION REQUEST	-	-
2	The SS transmits an RRC CONNECTION SETUP message.	<	RRC: RRC CONNECTION SETUP	-	-
3	The UE transmits an RRC CONNECTION SETUP COMPLETE message.	>	RRC: RRC CONNECTION SETUP COMPLETE	-	-
4	The UE transmits a ROUTING AREA UPDATE REQUEST message.	>	RRC: INITIAL DIRECT TRANSFER NAS: ROUTING AREA UPDATE REQUEST	-	-
5	The SS transmits a SECURITY MODE COMMAND message.	<	RRC: SECURITY MODE COMMAND	-	-
6	The UE transmits a SECURITY MODE COMPLETE message.	>	RRC: SECURITY MODE COMPLETE	-	-
7	The SS transmits a ROUTING AREA UPDATE ACCEPT message.	<	RRC: DOWNLINK DIRECT TRANSFER NAS: ROUTING AREA UPDATE ACCEPT	-	-
8	The UE transmits a ROUTING AREA UPDATE COMPLETE message.	>	RRC: UPLINK DIRECT TRANSFER NAS: ROUTING AREA UPDATE COMPLETE	-	-
9	The SS transmits a RRC CONNECTION RELEASE message.	<	RRC: RRC CONNECTION RELEASE	-	-
10	Check: Does the UE transmit an RRC CONNECTION RELEASE COMPLETE message on the cell specified in the test?	>	RRC: RRC CONNECTION RELEASE COMPLETE	-	Р

NOTE: The TS 34.108 [5] and TS 34.123-1 [7] use Network Mode of Operation I as default, for this reason a combined MM/GMM procedure is performed.

6.4.2.9 Test procedure to check that UE is camped on a new GERAN cell

This procedure aims at checking whether the UE is camping on a new GERAN cell of a test case or not.

The procedure is defined in table 6.4.2.9-1.

Table 6.4.2.9-1: Test procedure sequence

St	Procedure	Message Sequence		TP	Verdict
		U - S	Message		
1	Check: Does the UE send a CHANNEL	>	CHANNEL REQUEST	-	-
	REQUEST message on the cell(s) specified in the test case?				
2	An uplink TBF is established in order to allow the UE to transmit a ROUTING AREA UPDATE REQUEST message signalling.	-	-	-	-
3	The UE transmits a ROUTING AREA UPDATE REQUEST message.	>	ROUTING AREA UPDATING REQUEST	-	-
4	A downlink TBF is established by the SS in order to transmit the AUTHENTICATION AND CIPHERING REQUEST message	-	-	-	-
5	The SS transmits an AUTHENTICATION AND CIPHERING REQUEST message.	<	AUTHENTICATION AND CIPHERING REQUEST	-	-
6	An uplink TBF is established in order to allow the UE to transmit an AUTHENTICATION AND CIPHERING RESPONSE message	-	-	-	-
7	The UE transmits a AUTHENTICATION AND CIPHERING RESPONSE message.	>	AUTHENTICATION AND CIPHERING RESPONSE	-	-
8	A downlink TBF is established by the SS in order to transmit the ROUTING AREA UPDATE ACCEPT message	-	-	-	-
9	The SS transmits a ROUTING AREA UPDATE ACCEPT message.	<	ROUTING AREA UPDATING ACCEPT	-	-
10	An uplink TBF is established in order to allow the UE to transmit a ROUTING AREA UPDATE COMPLETE message			-	-
11	The UE transmits a ROUTING AREA UPDATE COMPLETE message.	>	ROUTING AREA UPDATING COMPLETE	-	Р

NOTE: The TS 51.010-1 [25] uses Network Mode of Operation I as default, for this reason a combined MM/GMM procedure is performed.

6.4.2.10 Test procedure to check that UE performs tracking area updating procedure without ISR and security reconfiguration after successful completion of handover from UTRA

This procedure aims at checking whether the UE performs tracking area updating procedure where ISR is not activated and security reconfiguration after successful completion of handover from UTRA.

The procedure is defined in table 6.4.2.10-1.

Table 6.4.2.10-1: Test procedure sequence

St	Procedure	Message Sequence		TP	Verdict
		U - S	Message		
1	The UE transmits an <i>ULInformationTransfer</i> message on the cell specified in the test case. This message includes a TRACKING AREA UPDATE REQUEST message.	>	RRC: ULInformationTransfer NAS: TRACKING AREA UPDATE REQUEST	-	-
2	The SS transmits a <i>DLInformationTransfer</i> message on the cell specified in the test case. This message includes a TRACKING AREA UPDATE ACCEPT message.	<	RRC:DLInformationTransfer NAS: TRACKING AREA UPDATE ACCEPT	-	-
3	The UE transmits an <i>ULInformationTransfer</i> message on the cell specified in the test case. This message includes a TRACKING AREA UPDATE COMPLETE message.	>	RRC:ULInformationTransfer NAS: TRACKING AREA UPDATE COMPLETE	-	-
-	EXCEPTION: Steps 4a1 to 4a2 describe behaviour that depends on the IE included in TRACKING AREA UPDATE REQUEST in step 1.	-	-	-	-
4a1	IF TRACKING AREA UPDATE REQUEST transmitted in step 1 does not contain a valid KSI _{ASME} THEN the SS transmits a <i>DLInformationTransfer</i> message on the cell specified in the test case. This message includes an AUTHENTICATION REQUEST message.	<	RRC:DLInformationTransfer NAS: AUTHENTICATION REQUEST	-	-
4a2	The UE transmits an <i>ULInformationTransfer</i> message on the cell specified in the test case. This message includes an AUTHENTICATION RESPONSE message.	>	RRC:ULInformationTransfer NAS: AUTHENTICATION RESPONSE	-	-
5	The SS transmits a <i>DLInformationTransfer</i> message on the cell specified in the test case. This message includes a SECURITY MODE COMMAND message to take the native EPS security context into use.	<	RRC:DLInformationTransfer NAS: SECURITY MODE COMMAND	-	-
6	The UE transmits an <i>ULInformationTransfer</i> message on the cell specified in the test case. This message includes a SECURITY MODE COMPLETE message.	>	RRC:ULInformationTransfer NAS: SECURITY MODE COMPLETE	-	-
7	The SS transmits an RRCConnectionReconfiguration message to perform intra cell handover and security reconfiguration on the cell specified in the test case.	<	RRC:RRCConnectionReconfigura tion	-	-
8	Check: Does the UE transmit an RRCConnectionReconfigurationComplete message on the cell specified in the test case?	>	RRC:RRCConnectionReconfigura tionComplete	-	Р

Table 6.4.2.10-2: Message TRACKING AREA UPDATE REQUEST (step 1, Table 6.4.2.10-1)

Derivation Path: 36.508 clause 4.7.2-27			
Information Element	Value/remark	Comment	Condition
NAS key set identifier			
NAS key set identifier	The valid NAS key set identifier of the UE	mapped security context (for KSI _{SGSN})	
TSC	1		
Non-current native NAS key set identifier			
NAS key set identifier	The valid NAS key set identifier of the UE	native security context (for KSI _{ASME})	
TSC	0	•	
Old P-TMSI signature	any allowed value		
Additional GUTI	any allowed value		

Table 6.4.2.10-3: RRCConnectionReconfiguration (step 7, Table 6.4.2.10-1)

Derivation Path: 36.508, Table 4.6.1-8

Table 6.4.2.10-4: SecurityConfigHO (IE in RRCConnectionReconfiguration, Table 6.4.2.10-3)

Information Element	Value/remark	Comment	Condition
SecurityConfigHO ::= SEQUENCE {			
handoverType CHOICE {			
intraLTE SEQUENCE {			
keyChangeIndicator	TRUE		
nextHopChainingCount	0		
}			
}			
}			

6.4.3 Reference test procedures for TTCN development

This clause describes reference test procedures for the purpose of TTCN development.

6.4.3.1 UE triggered establishment of a dedicated EPS bearer context

Table 6.4.3.1-1: Test procedure sequence

St	Procedure	Message Sequence		
		U - S	Message	
1	Cause the UE to request bearer resource allocation of dedicated EPS bearer associated	-	-	
-	with first PDN connectivity. (see Note 1) EXCEPTION: Steps 2a1 to 2a7 describe behaviour that depends on RRC state; the	-	-	
	"lower case letter" identifies a step sequence that takes place if the UE is in RRC_IDLE state.			
2a1	IF the UE is in RRC_IDLE state THEN the UE transmits an <i>RRCConnectionRequest</i> message.	>	RRC: RRCConnectionRequest	
2a2	The SS transmits an RRCConnectionSetup message.	<	RRC: RRCConnectionSetup	
2a3	The UE transmits an RRCConnectionSetupComplete including the SERVICE REQUEST message.	>	RRC: RRCConnectionSetupComplete NAS: SERVICE REQUEST	
2a4	The SS transmits a SecurityModeCommand message to activate AS security.	<	RRC: SecurityModeCommand	
2a5	The UE transmits a SecurityModeComplete message and establishes the initial security configuration.	>	RRC: SecurityModeComplete	
2a6	The SS transmits an RRCConnectionReconfiguration message to configure data radio bearer(s) associated with the existing EPS bearer context. The RRCConnectionReconfiguration message is using condition SRB2-DRB(n, m) where n and m are the number of DRBs associated with existing EPS bearer contexts and configured respectively with RLC-AM and RLC-UM.	<	RRC: RRCConnectionReconfiguration	
2a7	The UE transmits an RRCConnectionReconfigurationComplete message.	>	RRC: RRCConnectionReconfigurationComplete	
3	The UE transmits an <i>ULInformationTransfer</i> message including the BEARER RESOURCE ALLOCATION REQUEST message.	>	RRC: ULInformationTransfer NAS: BEARER RESOURCE ALLOCATION REQUEST	
4	The SS transmits an RRCConnectionReconfiguration message including the ACTIVATE DEDICATED EPS BEARER CONTEXT REQUEST message to establish the dedicated EPS bearer context.	<	RRC: RRCConnectionReconfiguration NAS: ACTIVATE DEDICATED EPS BEARER CONTEXT REQUEST	
5	The UE transmits an RRCConnectionReconfigurationComplete message.	>	RRC: RRCConnectionReconfigurationComplete	
6	The UE transmits an <i>ULInformationTransfer</i> message including the ACTIVATE DEDICATED EPS BEARER CONTEXT ACCEPT message.	>	RRC: ULInformationTransfer NAS: ACTIVATE DEDICATED EPS BEARER CONTEXT ACCEPT	
Note	1: The request is assumed to be triggered by A	T comma	and +CGDSCONT_and +CGACT (activated)	

Note 1: The request is assumed to be triggered by AT command +CGDSCONT, and +CGACT (activated).

Note 2: If UE sends IP related data this shall be handled by the SS.

UE triggered establishment of a default EPS bearer context associated with 6.4.3.2 an additional PDN

Table 6.4.3.2-1: Test procedure sequence

St	Procedure	Message Sequence		
		U - S	Message	
1	Cause the UE to request connectivity to an additional PDN. (see Note 1)	-	-	
-	EXCEPTION: Steps 2a1 to 2a7 describe behaviour that depends on RRC state; the "lower case letter" identifies a step sequence that takes place if the UE is in RRC_IDLE state.	-	-	
2a1	IF the UE is in RRC_IDLE state THEN the UE transmits an <i>RRCConnectionRequest</i> message.	>	RRC: RRCConnectionRequest	
2a2	The SS transmits an <i>RRCConnectionSetup</i> message.	<	RRC: RRCConnectionSetup	
2a3	The UE transmits an RRCConnectionSetupComplete including the SERVICE REQUEST message.	>	RRC: RRCConnectionSetupComplete NAS: SERVICE REQUEST	
2a4	The SS transmits a SecurityModeCommand message to activate AS security.	<	RRC: SecurityModeCommand	
2a5	The UE transmits a SecurityModeComplete message and establishes the initial security configuration.	>	RRC: SecurityModeComplete	
2a6	The SS transmits an RRCConnectionReconfiguration message to configure data radio bearer(s) associated with the existing EPS bearer context. The RRCConnectionReconfiguration message is using condition SRB2-DRB(n, m) where n and m are the number of DRBs associated with existing EPS bearer contexts and configured respectively with RLC-AM and RLC-UM.	<	RRC: RRCConnectionReconfiguration	
2a7	The UE transmits an RRCConnectionReconfigurationComplete message.	>	RRC: RRCConnectionReconfigurationComplete	
3	The UE transmits an <i>ULInformationTransfer</i> message including the PDN CONNECTIVITY REQUEST message.	>	RRC: ULInformationTransfer NAS: PDN CONNECTIVITY REQUEST	
4	The SS transmits an RRCConnectionReconfiguration message including the ACTIVATE DEFAULT EPS BEARER CONTEXT REQUEST message to establish the default EPS bearer context.	<	RRC: RRCConnectionReconfiguration NAS: ACTIVATE DEFAULT EPS BEARER CONTEXT REQUEST	
5	The UE transmits an RRCConnectionReconfigurationComplete message.	>	RRC: RRCConnectionReconfigurationComplete	
6	The UE transmits an <i>ULInformationTransfer</i> message including the ACTIVATE DEFAULT EPS BEARER CONTEXT ACCEPT message.	>	RRC: ULInformationTransfer NAS: ACTIVATE DEFAULT EPS BEARER CONTEXT ACCEPT	
Note		T comma	and +CGDCONT and +CGACT (activated).	

Note 2: If UE sends IP related data this shall be handled by the SS.

Table 6.4.3.2-2: Message PDN CONNECTIVITY REQUEST (step 3, Table 6.4.3.2-1)

Derivation Path: TS 36.508 Table 4.7.3-20			
Information Element	Value/remark	Comment	Condition
EPS bearer identity	0000	No EPS bearer	
		identity assigned	
Procedure transaction identity	PTI-1	UE assigns a	
		particular PTI not	
		yet used between	
		1 and 254	
ESM information transfer flag	Not present	This IE is only	
		used during an	
		attach procedure.	
Access point name	APN-1(New PDN name)	The requested	
		PDN is different	
		from default PDN	

UE triggered modification of an EPS bearer context 6.4.3.3

Table 6.4.3.3-1: Test procedure sequence

St	Procedure	Message Sequence		
		U-S	Message	
1	Cause the UE to request bearer resource modification of EPS bearer associated with first PDN connectivity. (see Note 1)	-	-	
-	EXCEPTION: Steps 2a1 to 2a7 describe behaviour that depends on RRC state; the "lower case letter" identifies a step sequence that takes place if the UE is in RRC_IDLE state.	-	-	
2a1	IF the UE is in RRC_IDLE state THEN the UE transmits an <i>RRCConnectionRequest</i> message.	>	RRC: RRCConnectionRequest	
2a2	The SS transmits an <i>RRCConnectionSetup</i> message.	<	RRC: RRCConnectionSetup	
2a3	The UE transmits an RRCConnectionSetupComplete including the SERVICE REQUEST message.	>	RRC: RRCConnectionSetupComplete NAS: SERVICE REQUEST	
2a4	The SS transmits a SecurityModeCommand message to activate AS security.	<	RRC: SecurityModeCommand	
2a5	The UE transmits a SecurityModeComplete message and establishes the initial security configuration.	>	RRC: SecurityModeComplete	
2a6	The SS transmits an RRCConnectionReconfiguration message to configure data radio bearer(s) associated with the existing EPS bearer context. The RRCConnectionReconfiguration message is using condition SRB2-DRB(n, m) where n and m are the number of DRBs associated with existing EPS bearer contexts and configured respectively with RLC-AM and RLC-UM.	<	RRC: RRCConnectionReconfiguration	
2a7	The UE transmits an RRCConnectionReconfigurationComplete message.	>	RRC: RRCConnectionReconfigurationComplete	
3	The UE transmits an <i>ULInformationTransfer</i> message including the BEARER RESOURCE MODIFICATION REQUEST message.	>	RRC: ULInformationTransfer NAS: BEARER RESOURCE MODIFICATION REQUEST	
4	The SS transmits an RRCConnectionReconfiguration message including the MODIFY EPS BEARER CONTEXT REQUEST message to modify the EPS bearer context.	<	RRC: RRCConnectionReconfiguration NAS: MODIFY EPS BEARER CONTEXT REQUEST	
5	The UE transmits an RRCConnectionReconfigurationComplete message.	>	RRC: RRCConnectionReconfigurationComplete	
6 Note	Check: Does the UE transmit an ULInformationTransfer message including the MODIFY EPS BEARER CONTEXT ACCEPT message?	>	RRC: ULInformationTransfer NAS: MODIFY EPS BEARER CONTEXT ACCEPT	

The request is assumed to be triggered by AT command +CGCMOD. If UE sends IP related data this shall be handled by the SS.

Note 2:

UE triggered deletion of an EPS bearer context 6.4.3.4

Table 6.4.3.4-1: Test procedure sequence

St	Procedure	Message Sequence				
		U - S	Message			
1	Cause the UE to request bearer resource release of dedicated EPS bearer associated with first PDN connectivity. (see Note 1)	-	-			
-	EXCEPTION: Steps 2a1 to 2a7 describe behaviour that depends on RRC state; the "lower case letter" identifies a step sequence that takes place if the UE is in RRC_IDLE state.	-	-			
2a1	IF the UE is in RRC_IDLE state THEN the UE transmits an <i>RRCConnectionRequest</i> message.	>	RRC: RRCConnectionRequest			
2a2	The SS transmits an <i>RRCConnectionSetup</i> message.	<	RRC: RRCConnectionSetup			
2a3	The UE transmits an RRCConnectionSetupComplete including the SERVICE REQUEST message.	>	RRC: RRCConnectionSetupComplete NAS: SERVICE REQUEST			
2a4	The SS transmits a SecurityModeCommand message to activate AS security.	<	RRC: SecurityModeCommand			
2a5	The UE transmits a SecurityModeComplete message and establishes the initial security configuration.	>	RRC: SecurityModeComplete			
2a6	The SS transmits an RRCConnectionReconfiguration message to configure data radio bearer(s) associated with the existing EPS bearer context. The RRCConnectionReconfiguration message is using condition SRB2-DRB(n, m) where n and m are the number of DRBs associated with existing EPS bearer contexts and configured respectively with RLC-AM and RLC-UM.	<	RRC: RRCConnectionReconfiguration			
2a7	The UE transmits an RRCConnectionReconfigurationComplete message.	>	RRC: RRCConnectionReconfigurationComplete			
3	The UE transmits an <i>ULInformationTransfer</i> message including the BEARER RESOURCE MODIFICATION REQUEST message.	>	RRC: ULInformationTransfer NAS: BEARER RESOURCE MODIFICATION REQUEST			
4	The SS transmits an RRCConnectionReconfiguration message including the DEACTIVATE EPS BEARER CONTEXT REQUEST message to delete EPS bearer context.	<	RRC: RRCConnectionReconfiguration NAS: DEACTIVATE EPS BEARER CONTEXT REQUEST			
5	The UE transmits an RRCConnectionReconfigurationComplete message	>	RRC: RRCConnectionReconfigurationComplete			
6	The UE transmits an <i>ULInformationTransfer</i> message including the DEACTIVATE EPS BEARER CONTEXT ACCEPT message.	>	RRC: ULInformationTransfer NAS: DEACTIVATE EPS BEARER CONTEXT ACCEPT			
Note	1: The request is assumed to be triggered by A	T comma	and +CGACT (deactivated).			

The request is assumed to be triggered by AT command +CGACT (deactivated). If UE sends IP related data this shall be handled by the SS.

Note 2:

6.4.3.5 UE triggered CS call

Table 6.4.3.5-1: Test procedure sequence

St	Procedure		Message Sequence				
		U-S	Message				
1	Cause the UE to originate CS call. (see Note 1)	-	-				
-	EXCEPTION: Steps 2a1 to 2b1 describe behaviour that depends on RRC state; the "lower case letter" identifies a step sequence that takes place depending on RRC state.	-	-				
2a1	IF the UE is in RRC_IDLE state THEN the UE transmits an <i>RRCConnectionRequest</i> message.	>	RRC: RRCConnectionRequest				
2a2	The SS transmits an <i>RRCConnectionSetup</i> message.	<	RRC: RRCConnectionSetup				
2a3	The UE transmits an RRCConnectionSetupComplete including the EXTENDED SERVICE REQUEST message.	>	RRC: RRCConnectionSetupComplete NAS: EXTENDED SERVICE REQUEST				
2b1	ELSE The UE transmits an ULInformationTransfer message including the EXTENDED SERVICE REQUEST message.	>	RRC: ULInformationTransfer NAS: EXTENDED SERVICE REQUEST				
Note	Note 1: The request is assumed to be triggered by AT command D.						

6.4.3.6 UE triggered MO SMS over SGs

Table 6.4.3.6-1: Test procedure sequence

St	Procedure	Message Sequence			
		U - S	Message		
1	Cause the UE to originate SMS message. (see Note 1)	-	-		
-	EXCEPTION: Steps 2a1 to 2a7 describe behaviour that depends on RRC state; the "lower case letter" identifies a step sequence that takes place if the UE is in RRC_IDLE state.	-	-		
2a1	IF the UE is in RRC_IDLE state THEN the UE transmits an <i>RRCConnectionRequest</i> message.	>	RRC: RRCConnectionRequest		
2a2	The SS transmits an <i>RRCConnectionSetup</i> message.	<	RRC: RRCConnectionSetup		
2a3	The UE transmits an RRCConnectionSetupComplete including the SERVICE REQUEST message.	>	RRC: RRCConnectionSetupComplete NAS: SERVICE REQUEST		
2a4	The SS transmits a SecurityModeCommand message to activate AS security.	<	RRC: SecurityModeCommand		
2a5	The UE transmits a SecurityModeComplete message and establishes the initial security configuration.	>	RRC: SecurityModeComplete		
2a6	The SS transmits an RRCConnectionReconfiguration message to configure data radio bearer(s) associated with the existing EPS bearer context. The RRCConnectionReconfiguration message is using condition SRB2-DRB(n, m) where n and m are the number of DRBs associated with existing EPS bearer contexts and configured respectively with RLC-AM and RLC-UM.	<	RRC: RRCConnectionReconfiguration		
2a7	The UE transmits an RRCConnectionReconfigurationComplete message.	>	RRC: RRCConnectionReconfigurationComplete		
3	The UE transmits an <i>ULInformationTransfer</i> message including the UPLINK NAS TRANSPORT message to send the SMS message.	>	RRC: ULInformationTransfer NAS: UPLINK NAS TRANSPORT		
4	The SS transmits a <i>DLInformationTransfer</i> message including the DOWNLINK NAS TRANSPORT message to acknowledge receipt of the SMS message.	<	RRC: DLInformationTransfer NAS: DOWNLINK NAS TRANSPORT		
5	The SS transmits a <i>DLInformationTransfer</i> message including the DOWNLINK NAS TRANSPORT message to send the delivery report.	<	RRC: DLInformationTransfer NAS: DOWNLINK NAS TRANSPORT		
6 Note	The UE transmits an <i>ULInformationTransfer</i> message including the UPLINK NAS TRANSPORT message to acknowledge receipt of the delivery report. 1: The request is assumed to be triggered by A	>	RRC: ULInformationTransfer NAS: UPLINK NAS TRANSPORT and +CMGW and +CMSS.		

6.4.3.7 CS fallback to UTRAN procedures (LAI of UTRAN cell same as the LAI received in combined Attach procedure in EUTRA cell)

All procedures specified in this clause are referred to the UTRA target cell where the UE has been redirected or handed over from the EUTRA cell after a CS call requested. The default message contents are found in TS 34.108 [5], clause 9.

The procedures in 6.4.3.7.1 - 6.4.3.7.4 are applied if the UE supports (EUTRA) RRC connection release with redirection and Multi Cell System Information to UTRAN. The procedures in 6.4.3.7.5 - 6.4.3.7.7 are applied if the UE supports PS HO from EUTRA to UTRAN.

6.4.3.7.1 CS fallback to UTRAN with redirection / MT call (PS bearers not established)

Table 6.4.3.7.1-1: Test procedure sequence

St	Procedure	Message Sequence			Verdict
		U - S	Message		
1	The UE transmits an RRC CONNECTION REQUEST message.	>	RRC CONNECTION REQUEST	ı	-
2	The SS transmits an RRC CONNECTION SETUP message.	<	RRC CONNECTION SETUP	ı	-
3	The UE transmits an RRC CONNECTION SETUP COMPLETE message.	>	RRC CONNECTION SETUP COMPLETE	-	-
-	EXCEPTION: In parallel to the events described in step 4 to 15 the step specified in Table 6.4.3.7.1-2 takes place.	-	-	-	-
4	Check: Does the UE transmit a PAGING RESPONSE message?	>	PAGING RESPONSE	-	Р
5-15	Steps 7 to 17 of the generic test procedure in TS 34.108 [5] subclause 7.2.3.1.3 are performed using the UTRA reference radio bearer parameters and combination "UTRA Speech" according to subclause 4.8.3 and Table 4.8.3-1. NOTE: Mobile terminating CS call is established.	-	-	-	-
16	The SS transmits a SECURITY MODE COMMAND message for the PS domain. See Note 1.	<	SECURITY MODE COMMAND	-	-
17	The UE transmits a SECURITY MODE COMPLETE message.	>	SECURITY MODE COMPLETE	-	-
18	The SS transmits a ROUTING AREA UPDATE ACCEPT message.	<	ROUTING AREA UPDATE ACCEPT	1	-
19	The UE transmits a ROUTING AREA UPDATE COMPLETE message.	>	ROUTING AREA UPDATE COMPLETE	-	-

Note 1: A real network will initiate the security mode command procedure for the PS domain immediately after receiving the ROUTING AREA UPDATE REQUEST, but in this test procedure it was chosen to complete the procedure for CS domain first, in order to avoid the possibility of a security mode command procedure running in parallel with another RRC procedure.

Table 6.4.3.7.1-2: Parallel behaviour

St	Procedure		Message Sequence		Verdict
		U-S	Message		
1	The UE transmits a ROUTING AREA UPDATE	>	ROUTING AREA UPDATE	-	-
	REQUEST message.		REQUEST		

6.4.3.7.2 CS fallback to UTRAN with redirection / MO call (PS bearers not established)

Table 6.4.3.7.2-1: Test procedure sequence

St	Procedure		Message Sequence	TP	Verdict		
		U - S	Message				
1	The UE transmits an RRC CONNECTION REQUEST message.	>	RRC CONNECTION REQUEST	-	-		
2	The SS transmits an RRC CONNECTION SETUP message.	<	RRC CONNECTION SETUP	-	-		
3	The UE transmits an RRC CONNECTION SETUP COMPLETE message.	>	RRC CONNECTION SETUP COMPLETE	-	-		
-	EXCEPTION: In parallel to the events described in step 4 to 15 the step specified in Table 6.4.3.7.2-2 takes place.	-	-	-	-		
4	Check: Does the UE transmit a CM SERVICE REQUEST message?	>	CM SERVICE REQUEST	-	Р		
5-15	Steps 6 to 16 of the generic test procedure in TS 34.108 [5] subclause 7.2.3.2.3 are performed using the UTRA reference radio bearer parameters and combination "UTRA Speech" according to subclause 4.8.3 and Table 4.8.3-1. NOTE: Mobile originating CS call is established.	-	-	-	-		
16	The SS transmits a SECURITY MODE COMMAND message for the PS domain. See Note 1.	<	SECURITY MODE COMMAND	-	-		
17	The UE transmits a SECURITY MODE COMPLETE message.	>	SECURITY MODE COMPLETE	-	-		
18	The SS transmits a ROUTING AREA UPDATE ACCEPT message.	<	ROUTING AREA UPDATE ACCEPT	-	-		
19	The UE transmits a ROUTING AREA UPDATE COMPLETE message.	>	ROUTING AREA UPDATE COMPLETE	-	-		
Note 1	Note 1: A real network will initiate the security mode command procedure for the PS domain immediately after						

Note 1: A real network will initiate the security mode command procedure for the PS domain immediately after receiving the ROUTING AREA UPDATE REQUEST, but in this test procedure it was chosen to complete the procedure for CS domain first, in order to avoid the possibility of a security mode command procedure running in parallel with another RRC procedure.

Table 6.4.3.7.2-2: Parallel behaviour

St	Procedure		Message Sequence		Verdict
		U-S	Message		
1	The UE transmits a ROUTING AREA UPDATE	>	ROUTING AREA UPDATE	-	-
	REQUEST message.		REQUEST		

6.4.3.7.3 CS fallback to UTRAN with redirection / MT call (PS bearer established)

Table 6.4.3.7.3-1: Test procedure sequence

St	Procedure		Message Sequence	TP	Verdict
		U-S	Message		
1-19	Steps 1-19 of table 6.4.3.7.1-1. NOTE: Mobile terminating CS call is established and Routing Area Update procedure is performed			-	-
20	Check: Does the UE transmit a SERVICE REQUEST message?	>	SERVICE REQUEST	-	Р
21	SS transmits a RADIO BEARER SETUP message, using the UTRA reference radio bearer parameters and combination "UTRA PS RB + Speech" according to subclause 4.8.3 and Table 4.8.3-1. NOTE: Mobile originating packet switched session is established.	<	RADIO BEARER SETUP	-	-
22	The UE transmits a RADIO BEARER SETUP COMPLETE message	>	RADIO BEARER SETUP COMPLETE	-	-

6.4.3.7.4 CS fallback to UTRAN with redirection / MO call (PS bearer established)

Table 6.4.3.7.4-1: Test procedure sequence

St	Procedure		Message Sequence	TP	Verdict
		U-S	Message		
1-19	Steps 1-19 of table 6.4.3.7.2-1. NOTE: Mobile originating CS call is set up and Routing Area Update procedure is performed	-	-	-	-
20	Check: Does the UE transmit a SERVICE REQUEST message?	>	SERVICE REQUEST	-	Р
21	SS transmits a RADIO BEARER SETUP message, using the UTRA reference radio bearer parameters and combination "UTRA PS RB + Speech" according to subclause 4.8.3 and Table 4.8.3-1. NOTE: Mobile originating packet switched session is established.	<	RADIO BEARER SETUP	-	-
22	The UE transmits a RADIO BEARER SETUP COMPLETE message	>	RADIO BEARER SETUP COMPLETE	-	-

6.4.3.7.5 CS fallback to UTRAN with Handover / MT call

Table 6.4.3.7.5-1: Test procedure sequence

St	Procedure		Message Sequence	TP	Verdict
		U-S	Message		10.0.0
1	Check: Does the UE transmit a HANDOVER TO UTRAN COMPLETE message?	>	HANDOVER TO UTRAN COMPLETE	-	Р
-	EXCEPTION: In parallel to the events described in step 2a1 to 9 the steps specified in table 6.4.3.7.5-2 takes place.	-	-	-	-
-	Exception: Steps 2a1 to 2a10 and 2b1 to 2b9 describe behaviour that depends on the UE capability; the "lower case letter" identifies a step sequence that takes place if a capability is supported. Note: One sequence of steps 2a1 to 2a10 or 2b1 to 2b9 are executed	-	-	-	-
2a1	IF the UE does not determine the LAI of the new UTRAN cell, THEN Check: Does the UE transmit a LOCATION UPDATING REQUEST message?	>	LOCATION UPDATING REQUEST	-	Р
2a2	The SS transmits AUTHENTICATION REQUEST	<	AUTHENTICATION REQUEST	-	-
2a3	The UE transmits AUTHENTICATION RESPONSE	>	AUTHENTICATION RESPONSE	-	-
2a4	The SS transmits a SECURITY MODE COMMAND message for the CS domain.	<	SECURITY MODE COMMAND	-	-
2a5	The UE transmits a SECURITY MODE COMPLETE message.	>	SECURITY MODE COMPLETE	-	-
2a6	The SS transmits a LOCATION UPDATING ACCEPT message.	<	LOCATION UPDATING ACCEPT	-	-
2a7	The SS transmits a SECURITY MODE COMMAND message for the PS domain.	<	SECURITY MODE COMMAND	-	-
2a8	The UE transmits a SECURITY MODE COMPLETE message.	>	SECURITY MODE COMPLETE	-	-
2a9	The SS transmits an UTRAN MOBILITY INFORMATION message to notify CN information.	<	UTRAN MOBILITY INFORMATION	-	-
2a10	The UE transmits an UTRAN MOBILITY INFORMATION CONFIRM message.	>	UTRAN MOBILITY INFORMATION CONFIRM	-	-
	Exception: Steps 2b1 to 2b4 takes place if pc_UMI_ProcNeeded_DuringCSFB				
2b1	The SS transmits a SECURITY MODE COMMAND message for the PS domain.	<	SECURITY MODE COMMAND	-	-
2b2	The UE transmits a SECURITY MODE COMPLETE message.	>	SECURITY MODE COMPLETE	-	-
2b3	The SS transmits an UTRAN MOBILITY INFORMATION message to notify CN information.	<	UTRAN MOBILITY INFORMATION	-	-
2b4	The UE transmits an UTRAN MOBILITY INFORMATION CONFIRM message.	>	UTRAN MOBILITY INFORMATION CONFIRM	-	-
2b5	Check: Does the UE transmit a PAGING RESPONSE?	>	PAGING RESPONSE	-	Р
2b6	The SS transmits AUTHENTICATION REQUEST	<	AUTHENTICATION REQUEST	-	-
2b7	The UE transmits AUTHENTICATION RESPONSE	>	AUTHENTICATION RESPONSE	-	-
2b8	The SS transmits a SECURITY MODE COMMAND message for the CS domain.	<	SECURITY MODE COMMAND	-	-
2b9	The UE transmits a SECURITY MODE COMPLETE message.	>	SECURITY MODE COMPLETE	-	-
3-9	Steps 11 to 17 of the generic test procedure in TS 34.108 subclause 7.2.3.1.3 are performed using the UTRA reference radio bearer parameters and combination "UTRA PS RB + Speech" according to subclause 4.8.3 and	-	-	-	-

		Table 4.8.3-1. NOTE: Mobile terminating CS call is established.				
	10	The SS transmits a ROUTING AREA UPDATE	<	ROUTING AREA UPDATE	-	-
		ACCEPT.		ACCEPT		
ſ	11	The UE sends ROUTING AREA UPDATE	>	ROUTING AREA UPDATE	-	-
		COMPLETE.		COMPLETE		

Table 6.4.3.7.5-2: Parallel behaviour

St	Procedure		Message Sequence		Verdict
		U-S	Message		
1	The UE transmits a ROUTING AREA UPDATE	>	ROUTING AREA UPDATE	-	-
	REQUEST message.		REQUEST		

6.4.3.7.5.1 Specific message contents

Table 6.4.3.7.5.1-1: Void

Table 6.4.3.7.5.1-2: LOCATION UPDATING ACCEPT (step 2a6 of table 6.4.3.7.5-1)

Derivation Path: TS 36.508 Table 4.7B.2-5			
Information Element	Value/remark	Comment	Condition
Mobile identity	Not present		

6.4.3.7.6 CS fallback to UTRAN with Handover / MO call

Table 6.4.3.7.6-1: Test procedure sequence

St	Procedure		Message Sequence	TP	Verdict
		U-S	Message		
1	Check: Does the UE transmit a HANDOVER TO UTRAN COMPLETE message?	>	HANDOVER TO UTRAN COMPLETE	-	Р
-	EXCEPTION: In parallel to the events described in step 2a1 to 9 the steps specified in table 6.4.3.7.6-2 takes place.	-	-	-	-
-	Exception: Steps 2a1 to 2a12 and 2b1 to 2b9 describe behaviour that depends on the UE capability; the "lower case letter" identifies a step sequence that takes place if a capability is supported. Note: One sequence of steps 2a1 to 2a12 or 2b1 to 2b9 are executed	-	-	-	-
2a1	IF the UE does not determine the LAI of the new UTRAN cell, THEN Check: Does the UE transmit a LOCATION UPDATING REQUEST message?	>	LOCATION UPDATING REQUEST	-	Р
2a2	The SS transmits AUTHENTICATION REQUEST	<	AUTHENTICATION REQUEST	-	-
2a3	The UE transmits AUTHENTICATION RESPONSE	>	AUTHENTICATION RESPONSE	-	-
2a4	The SS transmits a SECURITY MODE COMMAND message for the CS domain.	<	SECURITY MODE COMMAND	-	-
2a5	The UE transmits a SECURITY MODE COMPLETE message.	>	SECURITY MODE COMPLETE	-	-
2a6	The SS transmits a LOCATION UPDATING ACCEPT message.	<	LOCATION UPDATING ACCEPT	-	-
2a7	Check: Does the UE transmit a CM SERVICE REQUEST?	>	CM SERVICE REQUEST	-	Р
2a8	The SS transmits a SECURITY MODE COMMAND message for the PS domain.	<	SECURITY MODE COMMAND	-	-
2a9	The UE transmits a SECURITY MODE COMPLETE message.	>	SECURITY MODE COMPLETE	-	-
2a10	The SS transmits an UTRAN MOBILITY INFORMATION message to notify CN information.	<	UTRAN MOBILITY INFORMATION	-	-
2a11	The UE transmits an UTRAN MOBILITY INFORMATION CONFIRM message.	>	UTRAN MOBILITY INFORMATION CONFIRM	-	-
2a12	The SS transmits a CM SERVICE ACCEPT message.	<	CM SERVICE ACCEPT	-	-
	Exception: Steps 2b1 to 2b4 takes place if pc_UMI_ProcNeeded_DuringCSFB				
2b1	The SS transmits a SECURITY MODE COMMAND message for the PS domain.	<	SECURITY MODE COMMAND	-	-
2b2	The UE transmits a SECURITY MODE COMPLETE message.	>	SECURITY MODE COMPLETE	-	-
2b3	The SS transmits an UTRAN MOBILITY INFORMATION message to notify CN information.	<	UTRAN MOBILITY INFORMATION	-	-
2b4	The UE transmits an UTRAN MOBILITY INFORMATION CONFIRM message.	>	UTRAN MOBILITY INFORMATION CONFIRM	-	-
2b5	Check: Does the UE transmit a CM SERVICE REQUEST?	>	CM SERVICE REQUEST	-	Р
2b6	The SS transmits AUTHENTICATION REQUEST	<	AUTHENTICATION REQUEST	-	-
2b7	The UE transmits AUTHENTICATION RESPONSE	>	AUTHENTICATION RESPONSE	-	-
2b8	The SS transmits a SECURITY MODE COMMAND message for the CS domain.	<	SECURITY MODE COMMAND	-	-
2b9	The UE transmits a SECURITY MODE COMPLETE message.	>	SECURITY MODE COMPLETE	-	-
3	The UE transmits a SETUP message.	>	SETUP	-	-

4-9	Steps 11 to 16 of the generic test procedure in TS 34.108 subclause 7.2.3.2.3 are performed using the UTRA reference radio bearer parameters and combination "UTRA PS RB + Speech" according to subclause 4.8.3 and Table 4.8.3-1. NOTE: Mobile originating CS call is established.	-	-	-	-
10	The SS transmits a ROUTING AREA UPDATE ACCEPT.	<	ROUTING AREA UPDATE ACCEPT	•	
11	The UE sends ROUTING AREA UPDATE COMPLETE.	>	ROUTING AREA UPDATE COMPLETE	-	-

Table 6.4.3.7.6-2: Parallel behaviour

St	Procedure	Message Sequence		TP	Verdict
		U - S	Message		
1	The UE transmits a ROUTING AREA UPDATE	>	ROUTING AREA UPDATE	-	-
	REQUEST message.		REQUEST		

6.4.3.7.6.1 Specific message contents

None.

Table 6.4.3.7.6.1-1: LOCATION UPDATING ACCEPT (step 2a6 of table 6.4.3.7.6-1)

Derivation Path: TS 36.508 Table 4.7B.2-5			
Information Element	Value/remark	Comment	Condition
Mobile identity	Not present		

6.4.3.7.7 CS fallback to UTRAN with Handover / emergency call

Table 6.4.3.7.7-1: Test procedure sequence

St	Procedure		Message Sequence	TP	Verdict
		U-S	Message		
1	Check: Does the UE transmit a HANDOVER TO UTRAN COMPLETE message?	>	HANDOVER TO UTRAN COMPLETE	-	Р
-	EXCEPTION: In parallel to the events described in step 2a1 to 9 the steps specified in table 6.4.3.7.7-2 takes place.	-	-	-	-
-	Exception: Steps 2a1 to 2a12 and 2b1 to 2b9 describe behaviour that depends on the UE capability; the "lower case letter" identifies a step sequence that takes place if a capability is supported. Note: One sequence of steps 2a1 to 2a12 or 2b1 to 2b9 are executed	-	-	-	-
2a1	IF the UE does not determine the LAI of the new UTRAN cell, THEN Check: Does the UE transmit a LOCATION UPDATING REQUEST message?	>	LOCATION UPDATING REQUEST	-	Р
2a2	The SS transmits AUTHENTICATION REQUEST	<	AUTHENTICATION REQUEST	-	-
2a3	The UE transmits AUTHENTICATION RESPONSE	>	AUTHENTICATION RESPONSE	-	-
2a4	The SS transmits a SECURITY MODE COMMAND message for the CS domain.	<	SECURITY MODE COMMAND	-	-
2a5	The UE transmits a SECURITY MODE COMPLETE message.	>	SECURITY MODE COMPLETE	-	-
2a6	The SS transmits a LOCATION UPDATING ACCEPT message.	<	LOCATION UPDATING ACCEPT	-	-
2a7	Check: Does the UE transmit a CM SERVICE REQUEST?	>	CM SERVICE REQUEST	-	Р
2a8	The SS transmits a SECURITY MODE COMMAND message for the PS domain.	<	SECURITY MODE COMMAND	-	-
2a9	The UE transmits a SECURITY MODE COMPLETE message.	>	SECURITY MODE COMPLETE	-	-
2a10	The SS transmits an UTRAN MOBILITY INFORMATION message to notify CN information.	<	UTRAN MOBILITY INFORMATION	-	-
2a11	The UE transmits an UTRAN MOBILITY INFORMATION CONFIRM message.	>	UTRAN MOBILITY INFORMATION CONFIRM	-	-
2a12	The SS transmits a CM SERVICE ACCEPT message.	<	CM SERVICE ACCEPT	-	-
	Exception: Steps 2b1 to 2b4 takes place if pc_UMI_ProcNeeded_DuringCSFB				
2b1	The SS transmits a SECURITY MODE COMMAND message for the PS domain.	<	SECURITY MODE COMMAND	-	-
2b2	The UE transmits a SECURITY MODE COMPLETE message.	>	SECURITY MODE COMPLETE	-	-
2b3	The SS transmits an UTRAN MOBILITY INFORMATION message to notify CN information.	<	UTRAN MOBILITY INFORMATION	-	-
2b4	The UE transmits an UTRAN MOBILITY INFORMATION CONFIRM message.	>	UTRAN MOBILITY INFORMATION CONFIRM	-	-
2b5	Check: Does the UE transmit a CM SERVICE REQUEST?	>	CM SERVICE REQUEST	-	Р
2b6	The SS transmits AUTHENTICATION REQUEST	<	AUTHENTICATION REQUEST	-	-
2b7	The UE transmits AUTHENTICATION RESPONSE	>	AUTHENTICATION RESPONSE	-	-
2b8	The SS transmits a SECURITY MODE COMMAND message for the CS domain.	<	SECURITY MODE COMMAND	-	-
2b9	The UE transmits a SECURITY MODE COMPLETE message.	>	SECURITY MODE COMPLETE	-	-
3	The UE transmits an EMERGENCY SETUP	>	EMERGENCY SETUP	-	-

	message.				
4-9	Steps 12 to 17 of the test procedure in TS 34.123-1 [7] subclause 13.2.1.1 are performed using the UTRA reference radio bearer parameters and combination "UTRA PS RB + Speech" according to subclause 4.8.3 and Table 4.8.3-1. NOTE: Emergency call is established	-		•	-
10	The SS transmits a ROUTING AREA UPDATE ACCEPT.	<	ROUTING AREA UPDATE ACCEPT	-	-
11	The UE sends ROUTING AREA UPDATE COMPLETE.	>	ROUTING AREA UPDATE COMPLETE	-	-

Table 6.4.3.7.7-2: Parallel behaviour

ſ	St	Procedure	Message Sequence		TP	Verdict
			U-S	Message		
	1	The UE transmits a ROUTING AREA UPDATE	>	ROUTING AREA UPDATE	-	-
		REQUEST message.		REQUEST		

6.4.3.7.7.1 Specific message contents

UTRAN MOBILITY INFORMATION (step 2a10 & 2b1 of table 6.4.3.7.7-1): same as Table 6.4.3.7.5.1-1

Table 6.4.3.7.7.1-1: LOCATION UPDATING ACCEPT (step 2a6 of table 6.4.3.7.7-1)

Derivation Path: TS 36.508 Table 4.7B.2-5			
Information Element	Value/remark	Comment	Condition
Mobile identity	Not present		

6.4.3.8 CS fallback to GERAN procedures (LAI of GERAN cell same as the LAI received in combined Attach procedure in EUTRA cell)

All procedures specified in this clause are referred to the GERAN target cell where the UE has been redirected or handed over from the EUTRA cell after a CS call requested. The default message contents are found in TS 34.108 [5], clause 9.

The procedures in 6.4.3.8.1 - 6.4.3.8.4 are applied if the UE supports (EUTRA) RRC connection release with redirection or Cell Change order and Multi Cell System Information to GERAN.

6.4.3.8.1 CS fallback to GERAN with redirection or CCO / MT call (DTM not supported)

Table 6.4.3.8.1-1: Test procedure sequence

St	Procedure	Message Sequence		TP	Verdict
		U-S	Message		
1	The UE transmits a CHANNEL REQUEST message.	>	CHANNEL REQUEST	-	-
2	The SS transmits an IMMEDIATE ASSIGNMENT message.	<	IMMEDIATE ASSIGNMENT	-	-
3	Void	-	-	-	-
-	EXCEPTION: In parallel to the events described in step 4 to 19 the steps specified in table 6.4.3.8.1-2 takes place	-	-	-	-
4	Check: Does the UE transmit a PAGING RESPONSE message?	>	PAGING RESPONSE	-	Р
4A	The UE transmits a Classmark Change message	>	CLASSMARK CHANGE	-	-
-	EXCEPTION: Step 4B describes behaviour that depends on the UE capability.	-	-	-	-
4B	IF pc_UTRA then the UE transmits a Utran Classmark message	>	UTRAN CLASSMARK CHANGE	-	-
5-19	Steps 5 to 19 of the generic test procedure in TS 51.010-1 sub clause 10.3.3 are performed NOTE: Mobile terminating CS call is established.	-	-	-	-
20	The SS transmits DISCONNECT.	<	DISCONNECT	-	-
21	The UE transmits RELEASE	>	RELEASE	-	-
22	The SS transmits RELEASE COMPLETE.	<	RELEASE COMPLETE	-	-
23	The SS transmits CHANNEL RELEASE, with GPRS Resumption Field set to 1	<	CHANNEL RELEASE	-	-
24- 34	Steps 1 to 11 of the generic test procedure in sub clause 6.4.2.9 are performed.	-	-	-	-

Table 6.4.3.8.1-2: Parallel behaviour

St	Procedure	Message Sequence		TP	Verdict
		U-S	Message		
1	The UE transmits a GPRS SUSPENSION REQUEST message.	>	GPRS SUSPENSION REQUEST	-	-

6.4.3.8.2 CS fallback to GERAN with redirection or CCO / MO call (DTM not supported)

Table 6.4.3.8.2-1: Test procedure sequence

St	Procedure		Message Sequence	TP	Verdict
		U-S	Message		
1	The UE transmits a CHANNEL REQUEST message.	>	CHANNEL REQUEST	-	-
2	The SS transmits an IMMEDIATE ASSIGNMENT message.	<	IMMEDIATE ASSIGNMENT	-	-
3	Void	-	-	-	-
-	EXCEPTION: In parallel to the events described in step 4 to 17 the steps specified in table 6.4.3.8.2-2 takes place	-	-	-	-
4	Check: Does the UE transmit a CM SERVICE REQUEST message?	>	CM SERVICE REQUEST	-	Р
4A	The UE transmits a Classmark Change message	>	CLASSMARK CHANGE	-	-
-	EXCEPTION: Step 4B describes behaviour that depends on the UE capability.	-	-	-	-
4B	IF pc_UTRA then the UE transmits a Utran Classmark message	>	UTRAN CLASSMARK CHANGE	-	-
5-17	Steps 5 to 17 of the generic test procedure in TS 51.010-1 sub clause 10.2.3 are performed NOTE: Mobile originating CS call is established.	-	-	-	-
18	The SS transmits DISCONNECT.	<	DISCONNECT	-	-
19	The UE transmits RELEASE	>	RELEASE	-	-
20	The SS transmits RELEASE COMPLETE.	<	RELEASE COMPLETE	-	-
21	The SS transmits CHANNEL RELEASE, with GPRS Resumption Field set to 1	<	CHANNEL RELEASE	-	-
22- 32	Steps 1 to 11 of the generic test procedure in sub clause 6.4.2.9 are performed.	-	-	-	-

Table 6.4.3.8.2-2: Parallel behaviour

St	Procedure	Message Sequence		TP	Verdict
		U-S	Message		
1	The UE transmits a GPRS SUSPENSION REQUEST message.	>	GPRS SUSPENSION REQUEST	-	-

6.4.3.8.3 CS fallback to GERAN with PS Handover / MT call (EDTM not supported)

Same as test procedure sequence in 36.523-1 [18] clause 13.1.11.3.2 from steps 11 to end.

6.4.3.8.4 CS fallback to GERAN with PS Handover / MO call (EDTM not supported)

Same as test procedure sequence in 36.523-1 [18] clause 13.1.12.3.2 from steps 4 to end.

6.4.3.8.5 CS fallback to GERAN with PS Handover / MT call (EDTM supported)

Same as test procedure sequence in 36.523-1 [18] clause 13.1.13.3.2 from steps 7 to end.

6.4.3.9 SRVCC Handover to UTRA

The procedure specified in this clause are referred to the UTRA target cell where the UE has been SRVCC handed over from the EUTRA cell. The default message contents are found in TS 34.108 [5], clause 9.

Table 6.4.3.9-1: Test procedure sequence

St	Procedure	Message Sequence		TP	Verdict
		U - S	Message		
1	Check: Does the UE transmit a HANDOVER	>	HANDOVER TO UTRAN	-	Р
	TO UTRAN COMPLETE message?		COMPLETE		
-	EXCEPTION: In parallel to the events	-	-	-	-
	described in step 2 to 7 the steps specified in				
	table 6.4.3.9-2 takes place.				
2	The SS transmits a SECURITY MODE	<	SECURITY MODE COMMAND	-	-
	COMMAND message for the CS domain.				
3	The UE transmits a SECURITY MODE	>	SECURITY MODE COMPLETE	-	-
	COMPLETE message.				
4	The SS transmits an UTRAN MOBILITY	<	UTRAN MOBILITY	-	-
	INFORMATION message to notify CN		INFORMATION		
	information.				
5	The UE transmits an UTRAN MOBILITY	>	UTRAN MOBILITY	-	-
	INFORMATION CONFIRM message.		INFORMATION CONFIRM		
6	The SS transmits a TMSI REALLOCATION	<	TMSI REALLOCATION	-	-
	COMMAND message.		COMMAND		
7	The UE transmits a TMSI REALLOCATION	>	TMSI REALLOCATION	-	-
	COMPLETE message.		COMPLETE		
8	The SS transmits a ROUTING AREA UPDATE	<	ROUTING AREA UPDATE	-	-
	ACCEPT.		ACCEPT		
9	The UE sends ROUTING AREA UPDATE	>	ROUTING AREA UPDATE	-	-
	COMPLETE.		COMPLETE		

Table 6.4.3.9-2: Parallel behaviour

St	Procedure	Message Sequence		TP	Verdict
		U-S	Message		
1	The UE transmits a ROUTING AREA UPDATE	>	ROUTING AREA UPDATE	-	-
	REQUEST message.		REQUEST		

6.4.3.9.1 Specific message contents

Table 6.4.3.9.1-1: SECURITY MODE COMMAND (step 2, Table 8.4.1.2.3.2-1)

Derivation Path: 34.108 clause 9.1.1 (SECURITY MODE COMMAND message)					
Information Element	Condition	Value/remark			
Ciphering mode info		Not Present			

6.4.3.10 Offload to WLAN

The procedure specified in this clause is referred to the WLAN target AP where the UE has been offloaded from the EUTRA cell.

Table 6.4.3.10-1: Test procedure sequence

St	Procedure		Message Sequence	TP	Verdict
		U-S	Message		
1	UE associates with the Wi-Fi AP and obtains	-	-	-	-
	the local IP address if it has not already done				
-	EXCEPTION: Step 2-3 are optional, and are	-	-	-	-
	executed if initiated by UE				
2	UE initiates a dynamic selection of ePDG	-	-	-	-
	using DNS				
3	UE initiates Authentication and Authorization	-	-	-	-
	(EAP-AKA) using CHAP as defined in				
	33.402[ZZ] clause 6.5.3				
4-9	Check: The UE initiates IPsec tunnel	-	-	-	Р
	establishment procedure using the IKEv2				
	protocol as defined in 3GPP TS 33.402[ZZ];				
	Procedure defined in 23.402[YY] clause 8.2.3				
	steps 4-9				
	Exception: Steps 10a1 to 10b2 describe			-	-
	behaviour that depends on UE configuration;				
	the "lower case letter" identifies a step				
	sequence that takes place depending on RRC				
40.4	state of UE in EUTRA cell.				
10a1	IF UE is in RRC Idle state in EUTRA cell, then	-	-	-	Р
10.4	the generic test procedure in TS 36.508				
10a1	subclause 4.5.3.3 is executed.				
0	NOTE: UE is brought to RRC Connected state.				
10b1	IF UE is in RRC Connected state in EUTRA	-	-	-	Р
-	cell, then the generic test procedure in TS				
10b3	36.508 subclause 4.5A.15.2 is executed.				

Note 1: The procedure is based on 23.402 clause 8.2.3.

Note 2: In steps 10a1 to 10a10 the network does not establish the Radio bearers for offloaded PDN hence resulting in local release of the Default Bearer context and hence PDN.

Editor's note: In steps 10a1 to 10a10, do we also need to release RRC connection? It has impact on the procedure in 6.4.3.11

6.4.3.10.1 Specific message contents

None

6.4.3.11 Offload from WLAN

The procedure specified in this clause are referred to the EUTRA cell WLAN target AP where the UE has been previously offloaded from the EUTRA cell and now the Offload from WLAN AP to EUTRA cell happens.

Table 6.4.3.11-1: Test procedure sequence

St	Procedure		Message Sequence	TP	Verdict
		U - S	Message		
	Exception: Steps 1 to 2 are executed if the UE			-	-
	is in RRC Idle state in EUTRA cell.				
1	Check: Does UE transmit an	>	SERVICE REQUEST	-	
	RRCConnectionRequest message with				
	establishmentCause set to 'mo-Data' followed				
	by a SERVICE REQUEST message?				
2-9	The SS establishes SRB2 and DRB	-	-	-	-
	associated with default EPS bearer context by				
	executing steps 3-10a7 in the generic test				
	procedure in of TS 36.508 subclause 4.5.3.3				
10	Check: Does the UE establish additional PDN	-	-	-	Р
	connection for offloaded PDN by executing the				
	generic test procedure in TS 36.508 subclause				
	4.5A.16.3.				
11	Network initiated Resource Allocation	-	-	-	-
	Deactivation for offloaded PDN is executed in				
	WLAN AP as per 23.402[YY] clause 7.9				

Note 1: The procedure is based on 23.402 clause 8.2.1.1 step 17.

6.4.3.11.1 Specific message contents

None

6.4.3A Test case postambles

6.4.3A.1 Introduction

In order to make test cases perfectly reproducible, the UE under test is switched off after the test procedure sequence of a test case is complete. In order to make it possible to run a number of test cases without any manual operation, it is important that the SS can properly handle any possible signalling from the UE between the end of the test procedure sequence and until the UE is off.

After the last verdict of a test procedure sequence is assigned, it is necessary to:

- terminate any ongoing signalling procedure,
- switch off the UE.

Usually, this can be performed by completing necessary TAU/LAU/RAU procedures, completing any ongoing voice call (CS or IMS), and switching off the UE with a detach procedure.

6.4.3A.2 Reference end states

Test procedures in TS 36.523-1 may only partially terminate ongoing signalling procedures, provided they indicate a reference end state at the end of the test procedure sequence, so that a matching procedure in TS 36.523-3 can be executed to switch off the UE.

Reference end states definitions include the necessary pieces of information to predict UE behaviour during the postambles.

If any extra information was stored in the UE or the USIM due to the test procedure sequence, it should be removed explicitly by the test procedure sequence, before the UE can be left in a reference end state.

Table 6.4.3A.2-1: Reference end states

E-UTRA idle (E1) I The UE: acmped on an E-UTRA cell, and RRC idle and registered for EPS services and EPS update status is "updated if CS fallback or SMS over SGs is supported) and has one or more default EPS bearer context are active, zero or more default ePS bearer context are active, E-UTRA connected (E2) E-UTRA connected (E2) E-UTRA connected, T3440 started (E4) E-UTRA connected, T3440 started (E4) E-UTRA deregistered (E4) E-UTRA deregistered (E4) The UE is RRC connected and - rest mode is active and - registered of EPS services and - not registered of EPS services. The UE is: - camped on a UTRA cell, RRC idle and - registered of EPS services. The UE is: - camped on a UTRA cell, RRC idle and - registered of EPS services. UTRA idle (U1) The UE is: - camped on a UTRA cell, RRC idle and - registered of EPS services. The UE is: - camped on a UTRA cell, RRC idle and - registered of EPS services. UTRA connected (U2) The UE is: - camped on a UTRA cell, RRC idle and - registered of EPS services and - registered of EPS services. UTRA connected (U2) The UE is: - registered of EPS services and EPS services and EPS services and E	Name	Description	Optional information
- registered for FPS services and EPS update status is updated (if CS allaback or SMS over SGs is supported) and - is registered for non-EPS services and update status is updated (if CS allaback or SMS over SGs is supported) and - has one or more default EPS bearer context are active, zero or more dedicated EPS bearer context are active, 2			_
- registered for EPS services and EPS update status is "updated" and - is registered for non-EPS services and update status is updated (if CS fallback or SMS over SGs is supported) and - has one or more default EPS bearer context are active, 2 core or more dedicated EPS bearer context are active, 2 core or more dedicated EPS bearer context are active, 2 core or more dedicated EPS bearer context are active, 2 core or more dedicated EPS bearer context are active, 2 core or more dedicated EPS bearer context are active, 2 core or more dedicated EPS bearer contexts are active, 2 core or more dedicated EPS bearer contexts are active, 2 core or more dedicated EPS bearer contexts are active, 2 core or more dedicated EPS bearer contexts are active, 2 core or active EPS bearer contexts are established. 2 core or active EPS bearer contexts are established. 3 core or EPS actives and core or active active. UTRA connected (UZ) UTRA co	, ,	- is camped on an E-UTRA cell, and RRC idle and	
## registered for non-EPS services and update status is updated (if CS fallback or SMS over SGs is supported) and has one or more default EPS bearer context are active, zero or more defaulte EPS bearer context are active. ### Same as E-UTRA idle, except that: ### UE is RC connected and ### DRBs for all active EPS bearer contexts are established. ### UE is RC connected and ### Inter T344(b) is started in UE. ### UE is RC connected and ### Inter T344(b) is started in UE. ### UE is RC connected and ### Inter T344(b) is started in UE. ### UE is Inter T344(b) is started in UE. ### UE is inter T344(b) is started in UE. ### UE is inter T344(b) is started in UE. ### UE Is inter T344(b) is started in UE. ### UE Is inter T344(b) is started in UE. ### UE Is inter T344(b) is started in UE. ### UE Is inter T344(b) is started in UE. ### UE Is inter T344(b) is started in UE is under the UE is under			registered for non-EPS
updated (if CS failback or SMS over SGs is supported) and has one or more dedicated EPS bearer context are active, zero or more dedicated EPS bearer contexts are active, same as E-UTRA dide, except that: - the UE is RC connected and - DRS for all active EPS bearer contexts are established. E-UTRA connected (E2 T3440) E-UTRA tomode (E3) E-UTRA tomode (E3) E-UTRA tomode (E3) E-UTRA tomode (E3) - test loop is closed. E-UTRA deregistered (E4) The UE is RC connected and - test loop is closed. E-UTRA deregistered (E4) The UE is RC connected and - test loop is closed. E-UTRA deregistered (E4) The UE is RC connected and - test loop is closed. E-UTRA deregistered (E4) The UE is: - camped on a UTRA cell, and idle and - not registered for non-EPS services. UTRA idle (U1) The UE is: - camped on a UTRA cell, RRC idle and - IMSI attached and updates status is "updated", and zero or one or several PDP context(s) with interactive or background OoS are active. UTRA connected (U2) The UE is in CELL DCH state and - a RVB associated with the active PDP context is established. UTRA handover (U3) The UE: - the UE is in CELL DCH state and - has completed a handover to UMTS or the UE is a transmitted an EXTENDED SERVICE REQUEST message due to MO or MT CS fallback call and - lifter the UE has completed a handover to UMTS or the UE has activated security and RABs for all previously active EPS bearer contexts were established and - the UE has performed a handover to UMTS or the UE has performed a handover to UMTS or the UE has performed a handover to UMTS and has performed a performed a handover to UMTS or the UE has completed A LAMA procedure if necessary and has established a CS call or the UE was in UTRAN coll, and the target UTRAN coll and has performed a handover to UTRAN with SRVCC. The UE is is camped on an GERAN cell, in idle mode and GPRS idle state and - it r			
- has one or more default EPS bearer context are active, zero or more dedicated EPS bearer contexts are active. E-UTRA connected, 12			
E-UTRA connected (E2) - DRBs for all active EPS bearer contexts are established. - DrBs for all active EPS bearer contexts are established. E-UTRA connected (E2, 73440) E-UTRA test mode (E2, 73440) E-UTRA test mode (E3) - Inser T3440 is started in UE. E-UTRA deregistered (E4) - Inser T3440 is started in UE. - Inser T3440 is started in UE. E-UTRA deregistered (E4) - Inser T3440 is started in UE. - Inser UE is:			SMS over SGs.
E-UTRA connected (E2) Bereauth Same as E-UTRA idle, except that: - In el UE is RRC connected and - DRBs for all active EPS bearer contexts are established. E-UTRA connected, T3440) E-UTRA test mode (E2) E-UTRA test mode (E3) C-UTRA deregistered (E4) UTRA idle (U1) ITHE UE is: - Camped on a UTRA cell, and idle and - not registered of non-EPS services and - not registered of ron-EPS services. The UE is: - Camped on a UTRA cell, RRC idle and - In UTRA idle (U1) UTRA connected (U2) UTRA connected (U2) UTRA connected (U2) - Research Same as UTRA connected and - set busyorts CS domain) and - GPRS attached, GPRS update status is "updated", and zero or one or several RDP context(s) with interactive or background QoS are active. UTRA handover (U3) UTRA connected (U2) UTRA CS fallback (U4) - Research Same as UTRA connected and - has transmitted an EXTENDED SERVICE REQUEST message due to MO or MT CS fallback call and - either the UE has completed a handover to UMTS or the UE has active security and RABs for all previously active EPS bearer contexts were established and - the UE has completed a handover to UMTS or the UE has active security and RABs for all previously active EPS bearer contexts were established and - the UE has been redirected to UMTS and has activated security and RABs for all previously active EPS bearer contexts were established and - the UE has been redirected to UMTS and has activated security and RABs for all previously active EPS bearer contexts were restablished and - the UE has been redirected to UMTS and has activated security and RABs for all previously active EPS bearer contexts were restablished and - the UE has been redirected to UMTS and has activated security and RABs for all previously active EPS bearer contexts were restablished and - the UE has been redirected to UMTS and has established a CS call or the UE was in UTRA CS fallback call and - to the UE has been redirected to UMTS and has activated security anot Rabs for all previously active EPS bearer contexts were establ			
(E2) - the UE is RRC connected and - DRBs for all active PSP bearer contexts are established. E-UTRA connected, T3440 started (E2_T3440) - the UE is RRC connected and - the UE is RRC connected and - the UE is RRC connected and - test mode is active and - not registered of EPS services and - RAB sacciated with the active properties or one or several PDP context(s) with interactive or background QOS are active. UTRA connected (U2) - Same as UTRA idle, except that: - the UE is in Cells. DCH state and - a RAB associated with the active PDP context is established RAB associated with the active PDP context is established RAB associated with the active PDP context is established Nas completed a handover to UMTS and - nas it nasmitted an extension and - nasmit yet sent or received any NAS signalling on the target UTRA cell has ctivated and - has transmitted an EXTENDED SERVICE REQUEST message due to MO or MT CS fallback call has activated security and RABs for all previously active EPS bearer contexts were established and - the UE has been redirected to UMTS and has established the RRC connection to a UTRA cell, and the target UTRA cell has activated security and RABs for all previously active EPS bearer contexts were established and - the UE has been redirected to UMTS and has established and has performed a handover to UMTS or the UE has completed LAU/RAU procedure if necessary and has established a CS call or the UE was in E-UTRAN connected and he UE has completed CAU/RAU procedure if necessary and has performed a handover to UMTS or the UE has been redirected to URAN with SRVCC. UT			
- DRBs for all active EPS bearer contexts are established. E-UTRA connected, T3440 started (E2 T3440) E-UTRA test mode (E3) E-UTRA deregistered (E4) Timer T3440 is started in UE. Same as E-UTRA connected and - test mode is active and - not registered of EPS services and - not registered for non-EPS services. UTRA idle (U1) The UE is: - camped on a UTRA cell, and idle and - MSI attached and update status is "updated" (if the UE supports CS domain) and - GPRS attached, GPRS update state is "updated", and zero or one or several PDP context(s) with interactive or background QoS are active. UTRA connected (U2) The UE is in CELL_DCH state and - a RAB associated with the active PDP context is assistablished. UTRA handover (U3) The UE: - was E-UTRA connected and - has completed a handover to UMTS and - hasn't yet sent or received any NAS signalling on the target UTRAN cell. UTRA CS fallback (U4) UTRA CS fallback (U4) UTRA CS call (U5) UTRA CS call (U5) UTRA deregistered (U5) UTRA deregistered (U5) GERAN Idle (G1) - The UE is: - camped on a UTRA cell, and the target UTRAN cell - the UE has completed a handover to UMTS or the UE has completed and handover to UMTS or the UE has connected and - handover to UMTS or the UE has connected and - the uE hash cell has activated security and RABs for all previously active EPS bearer contexts were established and - the UE has completed to UTRAN cell. UTRA deregistered (U5) GERAN Idle (G1) GERAN Idle (G1) GERAN Idle (G1) - The UE: - camped on a UTRA cell, and idle and - not registered GPRS/non-GPRS services The UE: - camped on a GERAN cell, in idle mode and GPRS idle state and - is registered for PS services and GPRS update status is "updated" and zero or one or several PDP context(s) with interactive or background GoS are active is IMSI attached of (IC S domain is supported) GERAN PS handover			Same as for E-UTRA idle.
E-UTRA connected, (E2, T3440) E-UTRA test mode (E3) E-UTRA deregistered (E4) The UE is RYTRA connected and + Item T3440 is started in UE. Same as E-UTRA connected and + Item T3440 is started in UE. E-UTRA deregistered (E4) The UE is: - camped on an E-UTRA cell, and idle and - not registered for non-EPS services. The UE is: - camped on a UTRA cell, RRC idle and - not registered for non-EPS services. The UE is: - camped on a UTRA cell, RRC idle and - item UE supports CS domain) and - GPRS attached, GPRS update status is "updated" (if the UE supports CS domain) and - GPRS attached, GPRS update state is "updated", and zero or one or several PDP context(s) with interactive or background QoS are active. UTRA connected (U2) Same as UTRA idle, except that: - the UE is in CELL_DCH state and - a RAB associated with the active PDP context is established a RAB associated with the active PDP context is established a RAB associated and - has completed a handover to UMTS and - has try at sent or received any NAS signalling on the target UTRA connected. UTRA CS falliback (U4) The UE: - was E-UTRA idle or E-UTRA connected and - has transmitted an EXTENDED SERVICE REQUEST message due to MO or MT C5 fallback call and - either the UE has completed a handover to UMTS or the UE has been redirected to UMTS and has established the RRC connection to a UTRA cell, and the target UTRA cell has activated security and RABs for all previously active EPS bearer contexts were established and - the UE has the utransmitted ane EXTENDED SERVICE REQUEST message due to UTRA or and RABs for all previously active EPS bearer contexts were established and - let UE has been redirected to UMTS and has established and - either the UE has completed LAU/RAU procedure if necessary and has established a CS call or the UE was in E-UTRAN cell. UTRA deregistered (U6) The UE: - camped on a UTRA cell, and idle and - not registered GPRS/non-GPRS services The UE is: - camped on a UTRA cell, and idle and - not registered GPRS/non-GPRS services GE	(E2)		
the UE is RRC connected and E-UTRA test mode (E3) Same as E-UTRA connected and test loop is closed.	E LITDA composted		Company F LITDA idla
(E2_T3440)			Same as for E-UTRA Idle .
E-UTRA test mode (E3) E-UTRA deregistered (E4) UTRA idle (U1) UTRA idle (U1) UTRA idle (U1) The UE is: - camped on an E-UTRA cell, and idle and - not registered for non-EPS services and - not registered for non-EPS services. The UE is: - camped on a UTRA cell, RRC idle and - lMSI attached and update status is "updated", and zero or one or several PDP context(s) with interactive or background QoS are active. Same as UTRA idle, except that: - the UE is in CELL_DCH state and - a RAB associated with the active PDP context is established. UTRA handover (U3) The UE: - was E-UTRA connected and - has completed a handover to UMTS and - has transmitted an EXTENDED SERVICE REQUEST message due to MO or MT CS fallback call and - either the UE has completed a handover to UMTS or the UE has competed a handover to UMTS or the UE has been redirected to UMTS and has established and either RRC connection to a UTRA cell, and the target UTRA cell has activated security and RABs for all previously active EPS bearer contexts were established and the target UTRA cell has activated security and RABs for all previously active EPS bearer contexts were established and the target UTRA cell has activated security and RABs for all previously active EPS bearer contexts were established and and has established and and has established and and has completed LAU/RAU procedure if necessary and has established and and has performed a handover to UTRAN with SRVCC. UTRA deregistered (U6) GERAN Idle (G1) GERAN Idle (G1) GERAN PS handover GERAN PS handover GERAN PS handover The UE: - is camped on an GERAN cell, in idle mode and GPRS idle state and size and a service and proviously active in recessary and has established as it is registered for PS services and GPRS update status is "updated" and zero or one or several PDP context(s) with interactive or background OoS are active. GERAN PS handover			
Lest mode is active and + test mode is active and + test loop is closed.			Same as for E-LITP A idla
- test loop is closed. E-UTRA deregistered (E4) The UE is: - camped on an E-UTRA cell, and idle and - not registered of EPS services and - not registered of an Ort. EPS services. The UE is: - camped on a UTRA cell, RRC idle and - IMSI attached and update status is "updated" (if the UE supports CS domain) and - GPRS attached, GPRS update state is "updated", and zero or one or several PDP context(s) with interactive or background QoS are active. UTRA connected (U2) Same as UTRA idle, except that: - the UE is: in CELL_DCH state and - a RAB associated with the active PDP context is established a RAB associated with the active PDP context is established has Completed a handover to UMTS and - has completed a handover to UMTS and - has transmitted an EXTENDED SERVICE REQUEST message due to MO or MT CS fallback call and - either the UE has completed a handover to UMTS or the UE has been redirected to UMTS and has established the RRC connection to a UTRA cell, and the target UTRA cell has activated security and RABs for all previously active EPS bearer contexts were established and has established the RRC connection to a UTRA cell, and the target UTRA cell has activated security and RABs for all previously active EPS bearer contexts were established and has established did the UE has completed LAU/RAU procedure if necessary and has established and the UE has completed LAU/RAU procedure if necessary and has established and the UE has completed LAU/RAU procedure if necessary and has established and the UE has completed LAU/RAU procedure if necessary and has established and the UE has completed LAU/RAU procedure if necessary and has established and the UE has completed LAU/RAU procedure if necessary and has established and the UE has completed LAU/RAU procedure if necessary and has established and the UE has completed LAU/RAU procedure if necessary and has established and the UE has completed LAU/RAU procedure if necessary and has established and the UE has completed LAU/RAU procedure if necessary and has establi			Same as for E-OTRA fule.
E-UTRA deregistered (E4) The UE is: - camped on an E-UTRA cell, and idle and - not registered of EPS services and - not registered for non-EPS services. The UE is: - camped on a UTRA cell, RRC idle and - lmSI attached and update status is "updated" (if the UE supports CS domain) and - GPRS attached, GPRS update state is "updated", and zero or one or several PDP context(s) with interactive or background OoS are active. UTRA connected (U2) Same as UTRA idle, except that: - the UE is in CELL_DCH state and - a RAB associated with the active PDP context is established has completed a handover to UMTS and - has completed a handover to UMTS and - has completed and handover to UMTS and - has transmitted an EXTENDED SERVICE REQUEST message due to MO or MT CS fallback call and - either the UE has completed to UMTS and has established the RRC connection to a UTRA cell, and the target UTRA cell has activated security and RABs for all previously active EPS bearer contexts were established and - the UE has been redirected to UMTS and has established the RRC connection to a UTRA cell, and the target UTRA cell has activated security and RABs for all previously active EPS bearer contexts were established and - the UE has not yet each of the UE has completed LAU/RAU procedure if necessary and has established and established a CS call or the UE was in UTRAN connected and the UE has completed LAU/RAU procedure if necessary and has established and established established established established established established established establis	(L3)		
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- was E-UTRA idle or E-UTRA connected and - has transmitted an EXTENDED SERVICE REQUEST message due to MO or MT CS fallback call and - either the UE has completed a handover to UMTS or the UE has been redirected to UMTS and has established the RRC connection to a UTRA cell, and the target UTRA cell has activated security and RABs for all previously active EPS bearer contexts were established and - the UE hasn't yet sent or received any NAS signalling on the target UTRAN cell UTRA CS call (U5) The UE was in UTRAN CS fallback and the UE has completed LAU/RAU procedure if necessary and has established a CS call or the UE was in E-UTRAN connected and the UE has completed LAU/RAU procedure if necessary and has performed a handover to UTRAN with SRVCC. The UE is: - camped on a UTRA cell, and idle and - not registered GPRS/non-GPRS services GERAN idle (G1) The UE: - is camped on an GERAN cell, in idle mode and GPRS idle state and - is registered for PS services and GPRS update status is "updated" and zero or one or several PDP context(s) with interactive or background QoS are active is IMSI attached (if CS domain is supported) The UE:	UTRA CS fallback (U4)		
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- either the UE has completed a handover to UMTS or the UE has been redirected to UMTS and has established the RRC connection to a UTRA cell, and the target UTRA cell has activated security and RABs for all previously active EPS bearer contexts were established and - the UE hasn't yet sent or received any NAS signalling on the target UTRAN cell UTRA CS call (U5) The UE was in UTRAN CS fallback and the UE has completed LAU/RAU procedure if necessary and has established a CS call or the UE was in E-UTRAN connected and the UE has completed LAU/RAU procedure if necessary and has performed a handover to UTRAN with SRVCC. UTRA deregistered (U6) The UE is: - camped on a UTRA cell, and idle and - not registered GPRS/non-GPRS services GERAN idle (G1) The UE: - is camped on an GERAN cell, in idle mode and GPRS idle state and - is registered for PS services and GPRS update status is "updated" and zero or one or several PDP context(s) with interactive or background QoS are active is IMSI attached (if CS domain is supported) The UE:			
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- the UE hasn't yet sent or received any NAS signalling on the target UTRAN cell UTRA CS call (U5) The UE was in UTRAN CS fallback and the UE has completed LAU/RAU procedure if necessary and has established a CS call or the UE was in E-UTRAN connected and the UE has completed LAU/RAU procedure if necessary and has performed a handover to UTRAN with SRVCC. The UE is: - camped on a UTRA cell, and idle and - not registered GPRS/non-GPRS services GERAN idle (G1) The UE: - is camped on an GERAN cell, in idle mode and GPRS idle state and - is registered for PS services and GPRS update status is "updated" and zero or one or several PDP context(s) with interactive or background QoS are active is IMSI attached (if CS domain is supported) GERAN PS handover		cell has activated security and RABs for all previously active	
the target UTRAN cell UTRA CS call (U5) The UE was in UTRAN CS fallback and the UE has completed LAU/RAU procedure if necessary and has established a CS call or the UE was in E-UTRAN connected and the UE has completed LAU/RAU procedure if necessary and has performed a handover to UTRAN with SRVCC. UTRA deregistered (U6) The UE is: - camped on a UTRA cell, and idle and - not registered GPRS/non-GPRS services The UE: - is camped on an GERAN cell, in idle mode and GPRS idle state and - is registered for PS services and GPRS update status is "updated" and zero or one or several PDP context(s) with interactive or background QoS are active is IMSI attached (if CS domain is supported) GERAN PS handover The UE:			
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established a CS call or the UE was in E-UTRAN connected and the UE has completed LAU/RAU procedure if necessary and has performed a handover to UTRAN with SRVCC. UTRA deregistered (U6) The UE is: - camped on a UTRA cell, and idle and - not registered GPRS/non-GPRS services The UE: - is camped on an GERAN cell, in idle mode and GPRS idle state and - is registered for PS services and GPRS update status is "updated" and zero or one or several PDP context(s) with interactive or background QoS are active is IMSI attached (if CS domain is supported) GERAN PS handover The UE:	UTRA CS call (U5)		
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- not registered GPRS/non-GPRS services GERAN idle (G1) The UE: - is camped on an GERAN cell, in idle mode and GPRS idle state and - is registered for PS services and GPRS update status is "updated" and zero or one or several PDP context(s) with interactive or background QoS are active is IMSI attached (if CS domain is supported) GERAN PS handover The UE:			
GERAN idle (G1) The UE: - is camped on an GERAN cell, in idle mode and GPRS idle state and - is registered for PS services and GPRS update status is "updated" and zero or one or several PDP context(s) with interactive or background QoS are active is IMSI attached (if CS domain is supported) GERAN PS handover The UE:	(30)		
- is camped on an GERAN cell, in idle mode and GPRS idle state and - is registered for PS services and GPRS update status is "updated" and zero or one or several PDP context(s) with interactive or background QoS are active is IMSI attached (if CS domain is supported) GERAN PS handover The UE:	GERAN idle (G1)		
state and - is registered for PS services and GPRS update status is "updated" and zero or one or several PDP context(s) with interactive or background QoS are active is IMSI attached (if CS domain is supported) GERAN PS handover The UE:			
"updated" and zero or one or several PDP context(s) with interactive or background QoS are active is IMSI attached (if CS domain is supported) GERAN PS handover The UE:		·	
"updated" and zero or one or several PDP context(s) with interactive or background QoS are active is IMSI attached (if CS domain is supported) GERAN PS handover The UE:		- is registered for PS services and GPRS update status is	
interactive or background QoS are active is IMSI attached (if CS domain is supported) GERAN PS handover The UE:			
GERAN PS handover The UE:		interactive or background QoS are active.	
(G2) - was E-UTRA connected and			
	(G2)	- was E-UTRA connected and	

	 - has performed a PS handover procedure to a GERAN cell and - hasn't yet sent or received any NAS signalling on the target GERAN cell. 	
GERAN CS fallback	The UE:	
(G3)	- was E-UTRA idle or E-UTRA connected and	
	- has transmitted an EXTENDED SERVICE REQUEST	
	message due to MO or MT CS fallback call and	
	- either the UE has completed a PS handover to GERAN or	
	a CCO to GERAN or the UE has been redirected to GERAN	
	and has entered dedicated mode, and if DTM is supported,	
	- the UE hasn't yet sent or received any NAS signalling on	
	the target GERAN cell	
GERAN CS call (G4)	The UE was in GERAN CS fallback and the UE has	
	established a CS call or the UE was in E-UTRAN connected	
	and has performed a handover to GERAN with SRVCC.	
GERAN deregistered	The UE is:	
(G5)	- camped on a GERAN cell, and idle and	
	- not registered GPRS/non-GPRS services	
1xRTT state 1 (1x1)	FFS	
•••		
HRPD state 1 (H1)	FFS	
•••		

6.5 Default RRC message and information element contents

The default RRC message and information element contents specified in this subclause apply to all Signalling test cases defined in TS 36.523-1 [18] unless otherwise specified, in addition to the default RRC message and information element contents specified in subclause 4.6 of this specification.

6.5.1 Measurement information elements

- MeasConfig-DEFAULT

Table 6.5.1-1: MeasConfig-DEFAULT

Derivation Path: 36.331, clause 6.3.5			
Information Element	Value/remark	Comment	Condition
MeasConfig-DEFAULT ::= SEQUENCE {			
measObjectToRemoveList	Not present		
measObjectToAddModList	Not present		
reportConfigToRemoveList	Not present		
reportConfigToAddModList	Not present		
measIdToRemoveList	Not present		
measIdToAddModList	Not present		
quantityConfig	QuantityConfig- DEFAULT		
measGapConfig	Not present		
	MeasGapConfig-GP1		INTER- FREQ, UTRAN
	MeasGapConfig-GP2		GERAN, INTER- RAT
s-Measure	Not present		
preRegistrationInfoHRPD	Not present		
speedStatePars	Not present		
}			

Condition Explanation	
-----------------------	--

INTER-FREQ	For E-UTRA inter-freq measurements
UTRAN	For inter-RAT measurements with UTRAN
GERAN	For inter-RAT measurements with GERAN
INTER-RAT	For inter-RAT measurements with UTRAN and GERAN

MeasGapConfig-GP1

Table 6.5.1-2: MeasGapConfig-GP1

Derivation Path: 36.331, clause 6.3.5			
Information Element	Value/remark	Comment	Condition
MeasGapConfig-GP1 ::= CHOICE {			
setup SEQUENCE {			
gapOffset CHOICE {			
gp0	30	TGRP = 40 ms	
}			
}			
}			

MeasGapConfig-GP2

Table 6.5.1-3: MeasGapConfig-GP2

Derivation Path: 36.331, clause 6.3.5			
Information Element	Value/remark	Comment	Condition
MeasGapConfig-GP2 ::= CHOICE {			
setup SEQUENCE {			
gapOffset CHOICE {			
gp1	30	TGRP = 80 ms	
}			
}			
}			

6.6 Default NAS message and information element contents

The default NAS message and information element contents specified in this subclause apply to all Signalling test cases defined in TS 36.523-1 [18] unless otherwise specified, in addition to the default NAS message and information element contents specified in subclause 4.7 of this specification.

6.6.1 Reference default EPS bearer contexts

The following table defines Reference default EPS bearer contexts. Default EPS bearer context1 is the default "default EPS bearer context" which is used in the common procedures and test cases where no particular default EPS bearer context is specified.

Table 6.6.1-1: Reference default EPS bearer contexts

Parameters	Reference default EPS bearer context #1	Reference default EPS bearer context #2	Reference default EPS bearer context #3
EPS QoS			
QCI	9	5	FFS
(Note 1)	(non-GBR QCI)	(non-GBR QCI)	
Maximum bit rate for uplink	64 kbps	64 kbps	FFS
	(Note 2)	(Note 2)	
Maximum bit rate for	64 kbps	64 kbps	FFS
downlink	(Note 2)	(Note 2)	
Guaranteed bit rate for	64 kbps	64 kbps	FFS
uplink	(Note 2)	(Note 2)	
Guaranteed bit rate for	64 kbps	64 kbps	FFS
downlink	(Note 2)	(Note 2)	
Maximum bit rate for uplink	0	0	FFS
(extended)			
Maximum bit rate for	0	0	FFS
downlink (extended)			
Guaranteed bit rate for	0	0	FFS
uplink (extended)			
Guaranteed bit rate for	0	0	FFS
downlink (extended)			
Negotiated QoS	Note 3, Note 4	Note 3, Note 4	FFS
Negotiated LLC SAPI	Note 4	Note 4	FFS
Radio priority	Note 4	Note 4	FFS
APN-AMBR	Not present	Not present	FFS
Configuration protocol	PPP	PPP	FFS

Note 1: For all non-GBR QCIs, the maximum and guaranteed bit rates shall be ignored.

6.6.2 Reference dedicated EPS bearer contexts

The following table defines Reference dedicated EPS bearer contexts. Dedicated EPS bearer context #1 is the default "dedicated EPS bearer context" which is used in the common procedures and test cases where no particular dedicated EPS bearer context is specified.

Note 2: According to TS 24.301, the UE ignores these parameters for a non-GBR QCI.

Note 3: Parameters included for UEs capable of UTRAN according to TS 34.123-3 clause 8.10.

Note 4: Parameters included for UEs capable of GERAN according to TS 51.010 subclause 40.5.

Table 6.6.2-1: Reference dedicated EPS bearer contexts

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Parameters	Reference dedicated EPS bearer context #1	Reference dedicated EPS bearer context #2	Reference dedicated EPS bearer context #3	Reference dedicated EPS bearer context #4
Linked EPS bearer identity	Reference default EPS	Reference default EPS bearer #1	Reference default EPS	Reference default EPS
	bearer #1		bearer #2	bearer #2
EPS QoS				
QCI	1	5	2	1
(Note 1)	(GBR QCI)	(non-GBR QCI)	(GBR QCI)	(GBR QCI)
Maximum bit rate for uplink	384 kbps	384 kbps (Note 2)	432 kbps	384 kbps
Maximum bit rate for downlink	384 kbps	384 kbps (Note 2)	432 kbps	384 kbps
Guaranteed bit rate for uplink	128 kbps	128 kbps (Note 2)	432 kbps	128 kbps
Guaranteed bit rate for downlink	128 kbps	128 kbps (Note 2)	432 kbps	128 kbps
Maximum bit rate for uplink (extended)	0	0	0	0
Maximum bit rate for downlink (extended)	0	0	0	0
Guaranteed bit rate for uplink (extended)	0	0	0	0
Guaranteed bit rate for downlink (extended)	0	0	0	0
TFT (Swarman Control of the Control				· ·
TFT operation code	"create new TFT"	"create new TFT"	"create new TFT"	"create new TFT"
E bit	0	0	0	0
Packet filters	1, 2	3	5	4
(Note 5)	., _			·
Negotiated QoS			1	
Traffic Class	conversational	See "PDP ContextDchForLTE" (Note 3); See "PDP context3" (Note 6)	conversational	conversational
Delivery Order	'no'	See "PDP ContextDchForLTE" (Note 3); See "PDP context3" (Note 6)	'no'	'no'
Delivery of erroneous SDU	'no'	See "PDP ContextDchForLTE" (Note 3); See "PDP context3" (Note 6)	'no'	'no'
Maximum SDU size	150	See "PDP ContextDchForLTE" (Note 3); See "PDP context3" (Note 6)	1400	150
Maximum bit rate for uplink	384 kbps	See "PDP ContextDchForLTE" (Note 3); See "PDP context3" (Note 6)	432 kbps	384 kbps
Maximum bit rate for downlink	384 kbps	See "PDP ContextDchForLTE" (Note 3); See "PDP context3" (Note 6)	432 kbps	384 kbps

Residual BER	5*10 ⁻²	See "PDP ContextDchForLTE" (Note 3);	10 ⁻⁵	5*10 ⁻²
		See "PDP context3" (Note 6)		
SDU error ratio	10 ⁻²	See "PDP ContextDchForLTE"	7*10 ⁻³	10 ⁻²
		(Note 3);		
		See "PDP context3" (Note 6)		
Transfer delay	80 ms	See "PDP ContextDchForLTE"	130 ms	80 ms
		(Note 3);		
		See "PDP context3" (Note 6)		
Traffic Handling priority	0	See "PDP ContextDchForLTE"	0	0
		(Note 3);		
		See "PDP context3" (Note 6)		
Guaranteed bit rate for uplink	0	See "PDP ContextDchForLTE"	0	0
		(Note 3);		
		See "PDP context3" (Note 6)		
Guaranteed bit rate for downlink	0	See "PDP ContextDchForLTE"	0	0
		(Note 3);		
0: 10: 1: 1: 1:		See "PDP context3" (Note 6)		
Signalling Indication	0	See "PDP ContextDchForLTE"	0	0
		(Note 3);		
Onesan Otatiatian Denominator	0	See "PDP context3" (Note 6)	2	4
Source Statistics Descriptor	0	See "PDP ContextDchForLTE"	0	1
		(Note 3); See "PDP context3" (Note 6)		
Maximum bit rate for downlink (extended)	0	See "PDP ContextDchForLTE"	0	0
Maximum bit rate for downlink (extended)	U	(Note 3);	U	0
		See "PDP context3" (Note 6)		
Guaranteed bit rate for downlink (extended)	0	See "PDP ContextDchForLTE"	0	0
Oddianteed bit rate for downlink (extended)	O	(Note 3);	O	Ŭ
		See "PDP context3" (Note 6)		
Maximum bit rate for uplink (extended)	0	See "PDP ContextDchForLTE"	0	0
maramam an rate ter apimin (extended)	v	(Note 3);	· ·	
		See "PDP context3" (Note 6)		
Guaranteed bit rate for uplink (extended)	0	See "PDP ContextDchForLTE"	0	0
		(Note 3);		
		See "PDP context3" (Note 6)		
Negotiated LLC SAPI	3 (Note 6)	See "PDP context3" (Note 6)	-	3 (Note 6)
Radio priority	1 (Note 6)	See "PDP context3" (Note 6)	-	1 (Note 6)
Protocol configuration options	=	-	-	-
Protocol configuration options	-	-	-	-

Note 1: For all non-GBR QCIs, the maximum and guaranteed bit rates shall be ignored.

Note 2: According to TS 24.301, the UE ignores these parameters for a non-GBR QCI.

Note 3:

Parameters included for UEs capable of UTRAN according to TS 34.123-3 clause 8.10 (table 8.10.1 and 8.10.2).

This row refers to the reference packet filters defined in the tables below. For each reference dedicated EPS bearer context, a list of reference packet filter Note 5: numbers is provided.

Parameter included for UEs capable of GERAN; when value is not provided then value from TS 51.010 subclause 40.5 is applied. Note 6:

Table 6.6.2-2: Reference packet filter #1

Derivation path: 24.008 table 10.5.162 Information Element	Value/Remark	Comment	Condition
Identifier	00010000	DL only filter,ID=0	
Evaluation precedence	(0 0 0 0 0 0 0 0) + EPS Bearer ID - 6	0 to 7	
Component type 1 ID	00010000	IPv4 remote address type	remotelPv 4
	0010000	IPv6 remote address type	remotelPv 6
Component type 1 Value	remoteAddress 255.255.255.255	See note 1	remotelPv 4
	remoteAddress ff:ff:ff:ff:ff:ff:ff: ff:ff:ff:ff:ff:ff	See note 1	remotelPv 6
Component type 2 ID	01010000	Single remote port type	
Component type 2 Value	31 160 + EPS Bearer ID - 6		
Component type 3 ID	00110000	Protocol identifier/Next header type	
Component type 3 Value	17	UDP	

Note 1: remoteAddress should be set to the address of an IP server able to send a flow of downlink IP/UDP packets to the UE. remoteIPv4 applies if the UE has acquired an IPv4 address only, remoteIPv6 applies if the UE has acquired an IPv6 address only, or both an IPv6 and an IPv4 address.

Table 6.6.2-3: Reference packet filter #2

Derivation path: 24.008 table 10.5.162			
Information Element	Value/Remark	Comment	Condition
Identifier	00100001	UL only filter, ID=1	
Evaluation precedence	(0 0 0 0 0 0 0 0) + EPS Bearer ID - 6 + 8	8 to 15	
Component type 1 ID	00010000	IPv4 remote address type	remotelPv 4
	0010000	IPv6 remote address type	remotelPv 6
Component type 1 Value	remoteAddress 255.255.255.255	See note 1	remotelPv 4
	remoteAddress ff:ff:ff:ff:ff:ff:ff: ff:ff:ff:ff:ff:ff	See note 1	remotelPv 6
Component type 2 ID	01010000	Single remote port type	
Component type 2 Value	61 000 + EPS Bearer ID - 6		
Component type 3 ID	00110000	Protocol identifier/Next header type	
Component type 3 Value	17	UDP	

Note 1: remoteAddress should be set to the address of an IP server able to process a flow of uplink IP/UDP packets received from the UE. When configured together with packet filter #1, remoteAddress is the same as that for packet filter #1. remoteIPv4 applies if the UE has acquired an IPv4 address only, remoteIPv6 applies if the UE has acquired an IPv6 address only, or both an IPv6 and an IPv4 address.

Table 6.6.2-4: Reference packet filter #3

Derivation path: 24.008 table 10.5.162 Information Element	Value/Remark	Comment	Condition
Identifier	00110010	Bidirectional filter, ID=2	
Evaluation precedence	00001111	Lowest priority	
Component type 1 ID	00010000	IPv4 remote address type	remotelPv 4
	0010000	IPv6 remote address type	remotelPv 6
Component type 1 Value	remoteAddress 255.255.255	See note 1	remotelPv 4
	remoteAddress ff:ff:ff:ff:ff:ff:ff: ff:ff:ff:ff:ff:ff	See note 1	remotelPv 6

Note 1: remoteAddress should be set to the address of an IP server able to process a uplink IP packets from the UE and transmit downlink IP packets to the UE. remoteIPv4 applies if the UE has acquired an IPv4 address only, remoteIPv6 applies if the UE has acquired an IPv6 address only, or both an IPv6 and an IPv4 address.

Table 6.6.2-5: Reference packet filter #4

Derivation path: 24.008 table 10.5.162			
Information Element	Value/Remark	Comment	Condition
Identifier	00110011	Bidirectional,ID=3	
Evaluation precedence	(0 0 0 0 0 0 0 0) + EPS	0 to 7	
	Bearer ID – 6		
Component type 1 ID	01010001	Remote port	
		range type	
Component type 1 Value	media port	SS speech media	
		port as used in	
		the SDP	
		negotiation (RTP	
		remote port); see	
		Note 1	
	media port + 1	RTCP remote	
	-	port; see Note 1	
Component type 2 ID	00110000	Protocol	
		identifier/Next	
		header type	
Component type 2 Value	17	UDP	
Note 1: Acc. to TS 26.114 and RFC 4566 a "r	nedia port" can be understood as th	e transport port to wh	ich a media

Note 1: Acc. to TS 26.114 and RFC 4566 a "media port" can be understood as the transport port to which a media stream is sent.

Table 6.6.2-6: Reference packet filter #5

Information Element	Value/Remark	Comment	Condition
Identifier	00110100	Bidirectional,ID=4	
Evaluation precedence	(0 0 0 0 0 0 0 0) + EPS Bearer ID - 6	0 to 7	
Component type 1 ID	01010001	Remote port range type	
Component type 1 Value	media port	SS video media port as used in the SDP negotiation (RTP remote port); see Note 1	
	media port + 1	RTCP remote port; see Note 1	
Component type 2 ID	00110000	Protocol identifier/Next header type	
Component type 2 Value	17	UDP	

6.6A Default SMS over SGs message and information element contents

The default SMS over SGs message and information element contents specified in this subclause apply to all SMS over SGs Signalling test cases defined in TS 36.523-1 [18] unless otherwise specified. All the messages and information elements are listed in alphabetical order.

6.6A.1 CM-sublayer messages

- CP-ACK

This message is sent between the SS and the UE, in both directions.

Table 6.6A.1-1: Message CP-ACK

Derivation Path: 24.011 clause 7.2.2			
Information Element	Value/remark	Comment	Condition
Protocol discriminator	'1001'B	SMS messages	
Transaction identifier	Any allowed value		
Message type	'00000100'B	CP-ACK	

- CP-DATA

This message is sent between the SS and the UE, in both directions.

Table 6.6A.1-2: Message CP-DATA

Derivation Path: 24.011 clause 7.2.1			
Information Element	Value/remark	Comment	Condition
Protocol discriminator	'1001'B	SMS messages	
Transaction identifier	Any allowed value		
Message type	'00000001'B	CP-DATA	
CP-User data	RP-ACK RPDU or RP- DATA RPDU (as specified in the test case)		

6.6A.2 Short Message Relay Layer (SM-RL) messages

- RP-ACK RPDU

This message is sent between the SS and the UE, in both directions.

Table 6.6A.2-1: Message RP-ACK RPDU

Derivation Path: 24.011 clause 7.3.3			
Information Element	Value/remark	Comment	Condition
RP-Message Type	'010'B	RP-ACK_PDU uplink	Uplink_SMS
	'011'B	RP-ACK_PDU downlink	Downlink_S MS
RP-Message Reference	Same as in associated (preceding) RP-DATA RPDU		
RP-User Data	Not present or any allowed value		Uplink_SMS
	Not present		Downlink_S MS

Condition	Explanation
Uplink_SMS	This condition applies when the message is sent by the UE to the SS.
Downlink_SMS	This condition applies when the message is sent by the SS to the UE.

RP-DATA RPDU

This message is sent between the SS and the UE, in both directions.

Table 6.6A.2-2: Message RP-DATA RPDU

Derivation Path: 24.301 clause 8.2.23			
Information Element	Value/remark	Comment	Condition
RP-Message Type	'001'B	RP-DATA_PDU downlink	Downlink_S MS
	'000'B	RP-DATA_PDU uplink	Uplink_SMS
RP-Message Reference	Any allowed value		
RP-Originator Address	Any allowed value	originating Service Centre address	Downlink_S MS
	Not present		Uplink_SMS
RP-Destination Address	Not present		Downlink_S MS
	Any allowed value	destination Service Centre address	Uplink_SMS
RP-User Data	SMS-SUBMIT or SMS- DELIVER (as set in the test case)		

Condition	Explanation
Uplink_SMS	See the definition below table 6.6A.2-1.
Downlink SMS	See the definition below table 6.6A.2-1.

6.6A.3 Short Message Transfer Layer (SM-TL) messages

- SMS-DELIVER

This message is sent by the SS to the UE.

Table 6.6A.3-1: Message SMS-DELIVER

Derivation Path: 23.040 clause 9.2.2.1 Information Element	Value/remark	Comment	Condition
TP-MTI	'00'B	SMS-DELIVER	Condition
TP-MMS	'1'B	No more	
	. 5	messages are	
		waiting for the MS	
		in this SC	
TP-RP	Any allowed value		
TP-UDHI	'0'B		
TP-SRI	'0'B		
TP-OA	Any allowed value		
TP-PID	'00000000'B		
TP-DCS	Any allowed value		
TP-SCTS	Any allowed value		
TP-UDL	160		
TP-UD (140 octets)	text of message (160	The 160	
	characters)	characters in TP-	
		UD shall include	
		at least one	
		occurrence of	
		each character in	
		the default	
		alphabet (see	
		3GPP TS 23.038,	
		clause 6.2.1).	

- SMS-SUBMIT

This message is sent by the UE to the SS.

Table 6.6A.3-2: Message SMS-SUBMIT

Derivation Path: 23.040 clause 9.2.2.2			
Information Element	Value/remark	Comment	Condition
TP-MTI	'01'B	SMS-SUBMIT	
TP-RD	Any allowed value		
TP-VPF	Any allowed value		
TP-RP	Any allowed value		
TP-UDHI	Not present or any		
	allowed value		
TP-SRR	Not present or any		
	allowed value		
TP-MR	Any allowed value		
TP-DA	Any allowed value		
TP-PID	'00000000'B		
TP-DCS	Any allowed value		
TP-VP	Not present or any		
	allowed value		
TP-UDL	160		
TP-UD (140 octets)	text of message (160		
	characters)		

6.6B Reference radio bearer configurations

6.6B.1 SRB and DRB parameters and combinations

6.6B.1.1 SRB and DRB parameters

6.6B.1.1.1 Physical Layer configurations

Table 6.6B.1.1.1-1: PhysicalConfigDedicated-DEFAULT

Derivation Path: TS 36.508 clause 4.8.2.1.6, Table 4.8.2.1.6-1				
Information Element	Value/remark	Comment	Condition	
PhysicalConfigDedicated-DEFAULT ::= SEQUENCE {				
cqi-ReportConfig	CQI-ReportConfig- DEFAULT using condition CQI_PERIODIC	See subclause 4.6.3	SRB1 or RBC or RBC-HO or HO-TO- EUTRA	
soundingRS-UL-ConfigDedicated	SoundingRS-UL- ConfigDedicated- DEFAULT	See subclause 4.6.3	SRB1 or RBC or RBC-HO or HO-TO- EUTRA	
 				

Condition	Explanation
	Used at configuration of SRB1 during RRC connection (re-)establishment
	Used at configuration of a radio bearer combination during SRB2+DRB establishment
2TX	Used for cells with two antenna ports
RBC-HO	Used during Handover
HO-TO-EUTRA	Inter-RAT handover to E-UTRA

6.7 Timer Tolerances

The timer tolerances specified for the test environment in this subclause apply to all Signalling test cases defined in TS 36.523-1 [18] unless otherwise specified

All the timers used during testing are within a tolerance margin given by the equation below. If for a specific test a different tolerance value is required then this should be specified in the relevant test document (i.e. the document where the test is described).

Timer tolerance = 10%, or $5 \times RTT$, whichever value is the greater.

Where RTT = 8 TTIs for FDD, and RTT= Maximum RTT from Table 6.7-1 for TDD (see Note).

NOTE: Since the exact RTT for TDD varies depending on the UL/DL configurations and subframe number [29], the maximum RTT is defined in Table 6.7-1.

Table 6.7-1: Maximum RTT for TDD UL/DL configurations

UL/DL Configuration	Maximum RTT (TTIs)	
0	10	
1*	11	
2	12	
3	15	
4	16	
5	TBD	
6 11		
*Note: Default UL/DL configuration defined in Table 4.6.3-		

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7 Test environment for RRM tests

This section contains all the exceptions of the common test parameters specified in clause 4 for specific needs of test cases defined in TS 36.521-3 [34], TS 34.121-1 [50] and TS 34.122[51]. Exceptions specified in clause 7 overwrite the parameter settings of clause 4; exceptions defined within the test cases overwrite parameter settings of clause 4 and 7.

This clause describes UE test states which can be used in the initial condition for TS 36.521-3 [34], TS 34.121-1 [50] and TS 34.122[51].

Requirements of test equipment 7.1

<void>

RRM Reference system configurations 7.2

7.2.1 Common parameters for simulated E-UTRA cells

7.2.1.1 Combinations of system information blocks

<void>

7.2.1.2 Scheduling of system information blocks

<void>

7.2.1.3 Common contents of system information messages

- SystemInformationBlockType2

As defined in Table 4.4.3.3-1 with the following exceptions:

Table 7.2.1.3-1: SystemInformationBlockType2 exceptions

Derivation Path: Clause 4.4.3.3, Table 4.4.3.3-1 SystemInformationBlockType2			
Information Element	Value/remark	Comment	Condition
mbsfn-SubframeConfigList ::= SEQUENCE (SIZE			FDD
(1maxMBSFN-Allocations)) OF SEQUENCE {			
radioframeAllocationPeriod	n1	Every radio frame is with MBSFN subframe	
radioframeAllocationOffset	0	Sabilatile	
subframeAllocation CHOICE {			
oneFrame	'111111'B	Subframe 1, 2, 3, 6, 7, 8 is used for MBSFN	
}			
}			

- SystemInformationBlockType3

As defined in Table 4.4.3.3-2 with the following exceptions:

Table 7.2.1.3-2: SystemInformationBlockType3 exceptions

Derivation Path: Clause 4.4.3.3, Table 4.4.3.3-2 SystemInformationBlockType3			
Information Element	Value/remark	Comment	Condition
neighCellConfig	'10'B (The MBSFN		FDD with E-
	subframe allocations of		UTRA FDD
	all neighbour cells are		neighbour
	identical to or subsets of		cell
	that in the serving cell)		

- SystemInformationBlockType5

As defined in Table 4.4.3.3-3 with the following exceptions:

Table 7.2.1.3-3: SystemInformationBlockType5 exceptions

Derivation Path: Clause 4.4.3.3, Table 4.4.3.3-4 SystemInformationBlockType5			
Information Element	Value/remark	Comment	Condition
neighCellConfig[n]	'10'B (The MBSFN		FDD with E-
	subframe allocations of		UTRA FDD
	all neighbour cells are		neighbour
	identical to or subsets of		cell
	that in the serving cell)		
	'11'B (Different UL/DL		FDD with E-
	allocation in neighbouring		UTRA TDD
	cells for TDD compared		neighbour
	to the serving cell)		cell,
			TDD with E-
			UTRA FDD
			neighbour
			cell

- SystemInformationBlockType7

As defined in Table 4.4.3.3-6 with the following exceptions:

Table 7.2.1.3-4: SystemInformationBlockType7 exceptions

Derivation Path: Clause 4.4.3.3, Table 4.4.3.3-6 SystemInformationBlockType7						
Information Element	Value/remark	Comment	Condition			
commonInfo SEQUENCE {						
p-MaxGERAN	33 (33 dBm)		GSM 400 &			
			GSM 900 &			
			GSM 850 &			
			GSM 700			
	30 (30 dBm)		DCS 1800 &			
			PCS 1900			
}						

7.2.2 Common parameters for simulated GERAN cells

7.2.2.1 Mapping of GERAN cells

Unless otherwise stated, GERAN cells take the default values defined in Table 7.2.2.1-1.

Table 7.2.2.1-1: Mapping of GERAN cells with TS 51.010-1 [25]

	GERAN cell	Frequency	GERAN cell in TS 51.010-1, clause 40
	Cell 24	f11	Cell A
ĺ	Cell 25	f12	Cell D
ĺ	Cell 26	f13	Cell B

7.2A Generic RRM procedures

7.2A.1 UE RRM test states

Table 7.2A.1-1: The E-UTRAN UE states

		RRC	ECM	ЕММ	ESM	UE Test Mode
State 2A-RF	Registered, Idle Mode, UE Test Mode Activated	Refer to Table 5.2A.1-1	Refer to Table 5.2A.1-1	Refer to Table 5.2A.1-1	Refer to Table 5.2A.1-1	Refer to Table 5.2A.1-1
State 3A-RF	Generic Default RB Established, UE Test Mode Activated	Refer to Table 5.2A.1-1	Refer to Table 5.2A.1-1	Refer to Table 5.2A.1-1	Refer to Table 5.2A.1-1	Refer to Table 5.2A.1-1
State 3B-RF	Generic Default RB Established, UE Test Mode Activated, pre- registered on HRPD	RRC_CONNECTED 1 data radio bearer configured	ECM-CONNECTED	EMM-REGISTERED	1 default EPS bearer context active	Active

7.2A.2 UE Registration, UE Test Mode Activated (State 2A-RF)

As described in clause 5.2A.1A.

7.2A.3 Generic Default Radio Bearer Establishment, UE Test Mode Activated (State 3A-RF)

As described in clause 5.2A.2.

7.2A.4 Generic Default Radio Bearer Establishment, UE Test Mode Activated, pre-registration on HRPD (State 3B-RF)

Editor's note: This section is incomplete. The following aspects are either missing or not yet determined:

Other than UATI Request message and UATI Assignment message are FFS

7.2A.4.1 Initial conditions

System Simulator:

- Cell 1
- Cell 1 is transmitting SystemInformationBlockType8

User Equipment:

- The Test USIM shall be inserted.

7.2A.4.2 Definition of system information messages

As described in clause 4.5.2B.2.

7.2A.4.3 Procedure

Table 7.2A.4.3-1: UE registration with default EPS bearer establishment, test mode activation and HRPD pre-registration procedures (state 1 to state 3B-RF)

Step	Procedure	Message Sequence		Message Sequence
		U-S		Message
1 to	Steps 1 to 19 as specified in the procedure in	-	-	
19	clause 5.2A.1A.3 take place.			
20 to	Same procedure for steps 17 to 30D as			
37	specified in the procedure in clause 4.5.2B.3.			

7.2A.4.4 Specific message contents

As described in clauses 4.5.2B.4 and 7.2A.2.

7.2A.5 Procedure to configure SCC

As described in clause 5.2A.4.

7.2A.6 Exceptions for felCIC tests

As described in clause 5.2A.5.

7.2B Other generic RRM procedures

7.2B.1 Tracking area updating procedure

The procedure is defined in table 7.2B.1-1.

Table 7.2B.1-1: Tracking area updating procedure

Step	Procedure		Message Sequence
		U-S	Message
1	The SS transmits system information on the cell specified in the test case.	<	RRC: SYSTEM INFORMATION (BCCH)
-	EXCEPTION: If all EPS bearer contexts are inactive in UE, for Rel-8 and Rel-9, steps 2 to 8a are optional and depend on UE implementation. If all EPS bearer contexts are inactive in UE, a Rel-10 or higher UE directly	-	-
2	starts attach procedure from step 9a. The UE transmits an RRCConnectionRequest message on the cell specified in the test case.	>	RRC: RRCConnectionRequest
3	The SS transmits an RRCConnectionSetup message.	<	RRC: RRCConnectionSetup
4	The UE transmits an RRCConnectionSetupComplete message to confirm the successful completion of the connection establishment and a TRACKING AREA UPDATE REQUEST message is sent to update the registration of the actual tracking area.	>	RRC: RRCConnectionSetupComplete NAS: TRACKING AREA UPDATE REQUEST
-	EXCEPTION: If all EPS bearer contexts are marked as inactive in the EPS bearer context status IE included in the TRACKING AREA UPDATE REQUEST message then, events described in steps 5a to 26a. Otherwise, events described in steps 5 to 7.	-	-
5	The SS responds with TRACKING AREA UPDATE ACCEPT message.	<	RRC: DLInformationTransfer NAS: TRACKING AREA UPDATE ACCEPT
6	The UE transmits a TRACKING AREA UPDATE COMPLETE	>	RRC: <i>ULInformationTransfer</i> NAS: TRACKING AREA UPDATE COMPLETE
7	The SS transmits an RRCConnectionRelease message to release RRC connection and move to RRC_IDLE.	<	RRC: RRCConnectionRelease
5a	The SS responds with TRACKING AREA UPDATE REJECT message with cause #40 (No EPS bearer context activated) to force attach the UE.	<	RRC: DLInformationTransfer NAS: TRACKING AREA UPDATE REJECT
6a	EXCEPTION: Step 7a describes the behaviour that depends on UE behaviour (Note 3).	-	-
7a	The SS transmits an RRCConnectionRelease message to release RRC connection and move to RRC_IDLE.	<	RRC: RRCConnectionRelease
-	EXCEPTION: Step 8a describes a behaviour which depends on the UE capability	-	-
8a	IF NOT pc_Auto_PDN_Connectivity, the user initiates an attach by MMI or by AT command (NOTE 4).	-	-
9a to 27a	Steps 2 to 20 of the generic UE Registration procedure (5.2A.1A.3) take place to complete the Attach procedure	-	-
NOTE NOTE	1: The periodic tracking area updating timer T34 procedure (TS 36.508 clause 4.7.2).		-
NOIE	performed (reuse of keys allocated during the		

performed (reuse of keys allocated during the attach procedure).

NOTE 3: The SS waits for 1.5 second to receive the Attach Request on the existing RRC Connection. In case Attach Request is not received within 1.5 second, existing RRC Connection is released.

NOTE 4: The request is assumed to be triggered by AT command AT+CGDCONT=1,"IP" followed by AT+CGACT=1.

Specific message contents

Table 7.2B.1-2: TRACKING AREA UPDATE ACCEPT (Step 5)

Derivation Path: 36.508 Table 4.7.2-24			
Information Element	Value/remark	Comment	Condition
EPS network feature support	'0000 0000'B	IMS voice over PS session in S1 mode not supported	
Additional update result	Not present		

7.3 Default RRC message and information elements contents

7.3.1 Contents of RRC messages

FFS.

7.3.2 Radio resource control information elements

Editor's note: Unless otherwise stated in the test parameters or messages exceptions in the respective test cases in TS 36.521-3 [34], PRACH configuration index and exceptional message as specified in Table 7.3.2-1 is used.

As defined in clause 4.6.3 with the following exceptions:

Table 7.3.2-1: PRACH-Config-DEFAULT

Derivation Path: Clause 4.6.3 Table 4.6.3-7			
Information Element	Value/remark	Comment	Condition
PRACH-Config-DEFAULT ::= SEQUENCE {			
prach-ConfigIndex	3		TDD
}			

Condition	Explanation
TDD	TDD cell environment

Table 7.3.2-2: RadioResourceConfigCommonSCell-r10-DEFAULT

Derivation Path: Clause 4.6.3 Table 4.6.3-13A			
Information Element	Value/remark	Comment	Condition
RadioResourceConfigCommonSCell-r10 ::= SEQUENCE {			
mbsfn-SubframeConfigList-r10 SEQUENCE (SIZE (1maxMBSFN-Allocations)) OF SEQUENCE {			FDD
radioframeAllocationPeriod	n1	Every radio frame is with MBSFN subframe	
radioframeAllocationOffset	0		
subframeAllocation CHOICE {			
oneFrame	'111111'B	Subframe 1, 2, 3, 6, 7, 8 is used for MBSFN	
}			
}			
ul-Configuration-r10	Not Present		
}			

Condition Explanation

FDD FDD cell environment	
--------------------------	--

Table 7.3.2-3: PhysicalConfigDedicatedSCell-r10-DEFAULT

Derivation Path: Clause 4.6.3 Table 4.6.3-6A			
Information Element	Value/remark	Comment	Condition
PhysicalConfigDedicatedSCell-r10 ::= SEQUENCE {			
ul-Configuration-r10	Not Present		
}			

7.3.3 Measurement information elements

As defined in clause 4.6.6 with the following exceptions:

Table 7.3.4-1: MeasObjectEUTRA-GENERIC (Freq)

Derivation Path: Clause 4.6.6, Table 4.6.6-2			
Information Element	Value/remark	Comment	Condition
neighCellConfig	10'B (The MBSFN		FDD with E-
	subframe allocations of		UTRA FDD
	all neighbour cells are		neighbour cell
	identical to or subsets of		
	that in the serving cell)		
	'11'B (Different UL/DL		FDD with E-
	allocation in neighbouring		UTRA TDD
	cells for TDD compared		neighbour cell,
	to the serving cell)		TDD with E-
			UTRA FDD
			neighbour cell

7.3A Default UTRA message and information element contents

7.3A.1 UTRA RRC messages

As defined in 4.7B with the following exceptions:

Contents of RRC CONNECTION SETUP message: UM

Information Element	Condition	Value/remark	Version	Index
 System specific capability update 		1 entry		RCSU-019
requirement list				
- System specific capability		GSM		RCSU-
update requirement				019a
CHOICE specification mode		Complete specification	Rel-5	RCSU-020
- Complete specification			Rel-5	RCSU-021

7.4 Default NAS message and information elements contents

7.5 Reference radio bearer configurations

7.5.1 SRB and DRB parameters

7.5.1.1 MAC configurations

As defined in clause 4.8.2.1.5 with the following exceptions:

Table 7.5.1.1-1: MAC-MainConfig-RBC

Information Element	Value/remark	Comment	Condition
MAC-MainConfig-RBC ::= SEQUENCE {			
mac-MainConfig-v1020SEQUENCE {			SCell_AddM od
sCellDeactivationTimer-r10	Not present		
extendedBSR-Sizes-r10	Not Present		
extendedPHR-r10	Not Present		
}			
}			

Condition	Explanation	
SCell_AddMod	Addition or modification of Scell	

Annex A (informative): Connection Diagrams

Definition of Terms

System Simulator or SS – A device or system, that is capable of generating simulated Node B signalling and analysing UE signalling responses on one or more RF channels, in order to create the required test environment for the UE under test. It will also include the following capabilities:

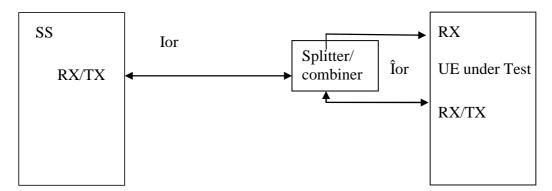
- 1. Measurement and control of the UE Tx output power through TPC commands
- 2. Measurement of Throughput
- 3. Measurement of signalling timing and delays
- 4. Ability to simulate UTRAN and/or E-UTRAN and/or GERAN signalling

Test System – A combination of devices brought together into a system for the purpose of making one or more measurements on a UE in accordance with the test case requirements. A test system may include one or more System Simulators if additional signalling is required for the test case. The following diagrams are all examples of Test Systems.

NOTE 1: The above terms are logical definitions to be used to describe the test methods used in the documents TS36.521-1, TS 36.523-1 and TS36.521-3 in practice, real devices called 'System Simulators' may also include additional measurement capabilities or may only support those features required for the test cases they are designed to perform.

NOTE 2: Components in the connection diagrams:

The components in the connection diagrams represent ideal components. They are intended to display the wanted signal flow. They don't mandate real implementations. An alternative to Figure A3 is shown below as an example: It is nearer to real implementations. The signal levels are the same as in Figure A3. The signal flow cannot be displayed as detailed as in Figure A.3.



Alternative to Figure A.3

Connection: Each connection is displayed as a one or two sided arrow, showing the intended signal flow. In some cases, for some tests, some connections shown may not be necessary (for example UL RX connection for a second cell).

Circulator: The signal, entering one port, is conducted to the adjacent port, indicated by the arrow. The attenuation among the above mentioned ports is ideally 0 and the isolation among the other ports is ideally ∞ .

Splitter: a splitter has one input and 2 or more outputs. The signal at the input is equally divided to the outputs. The attenuation from input to the outputs is ideally 0 and the isolation between the outputs is ideally ∞ .

Combiner: a combiner has one output and 2 or more inputs. The signals at the inputs are conducted to the output, all with the same, ideally 0 attenuation. The isolation between the inputs is ideally ∞ .

Switch: contacts a sink (or source) alternatively to two or more sources (or sinks).

Fader: The fader has one input and one output. The MIMO fading channel is represented by several single faders (e.g. 8 in case of a MIMO antenna configuration 4x2) The correlation among the faders is described in TS 36.521-1 clause B.2.2. In some cases, for some tests, diagrams with fader(s) are referenced when no fading is required; in this case the fader(s) is omitted.

Attenuator: TBD

General considerations on connections for CA testing

Figures A.32<x> to A.37<x> and A.41<x> to A.46<x> contain connection diagrams for CA testing with 2 CCs. Different options (<x> = a, b, c) have been defined for each connection, to consider different UE employments with respect to UE antenna connectors and signal mapping:

- a: Separate antenna connectors for each CC. An optional *Combiner* may be used in case the UE employs one common wide band antenna only for the receive diversity for both CC-s.
- b: Common antenna connectors for both CC-s with same UL transmit antenna connector.
- c: Common antenna connectors for both CC-s with different UL transmit antenna connectors.

The connections are referred in tests as *Figure group* which imply figures with the same Arabic numeral in the number, but different Latin letter extension (e.g. Figure A.32a, A.32b etc.). The selection of the connection option for testing is done according to the UE employment as appropriate.

Connection diagrams for CA testing with 3CCs have been defined in other figures. The connections represent the case of a DUT with separate antenna connectors per CC. For other DUT antenna connector configurations, the necessary signal combining is done accordingly.

Following symbolic is used in the connection diagrams to distinguish CC-s and paths:

- p: primary CC
- s: secondary CC (in case of CA with 2CCs)
- s1: first secondary CC (in case of CA with >2CCs)
- s2: second secondary CC (in case of CA with >2CCs)
- $\langle j \rangle$: (integer) defines the receive antenna and the path to it $\langle j \rangle$ for a given CC
- $\langle i \rangle \langle j \rangle$: (integer) defines the path between transmit antenna $\langle i \rangle$ and receive antenna $\langle j \rangle$ for a given CC

The connections are general and support CA both in DL and UL. According to the test conditions, if the UL CA is not used, the "secondary CCs of UL" in the connections may be ignored.

For contiguous CA, single AWGN_k sources with $k = \{p, s, s1, s2, ...\}$ affecting the same UE antenna connector can be unified to AWGN sources with higher bandwidth.

Figure A.1: Void

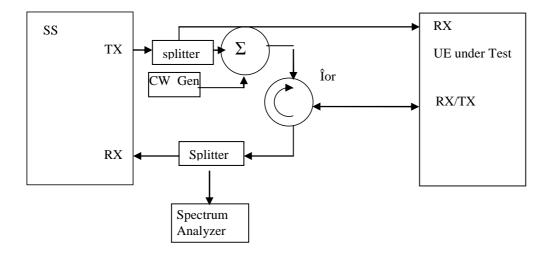


Figure A.2: Connection for Transmitter Intermodulation tests

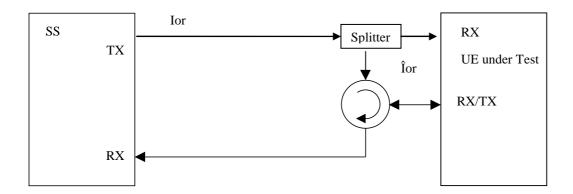


Figure A.3: Connection for basic single cell, RX and TX tests

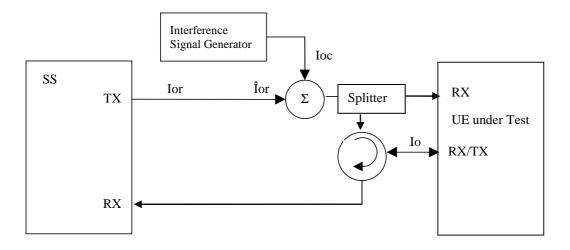


Figure A.4: Connection for Receiver tests with E-UTRA-Interference

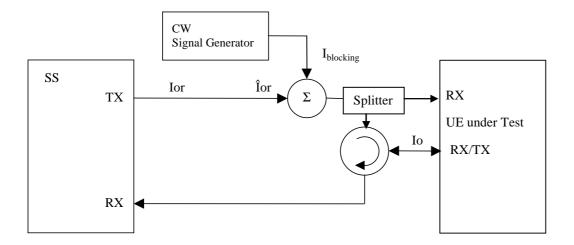


Figure A.5: Connection for Receiver tests with CW interferer

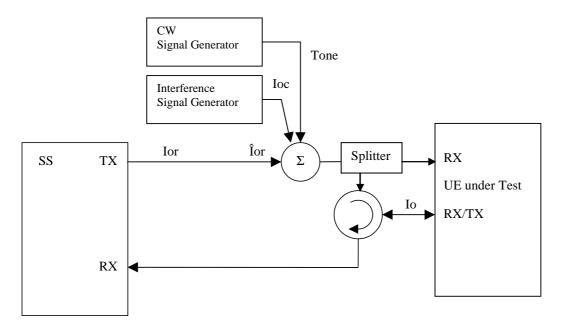


Figure A.6: Connection for Receiver tests with both E-UTRA Interference and additional CW signal

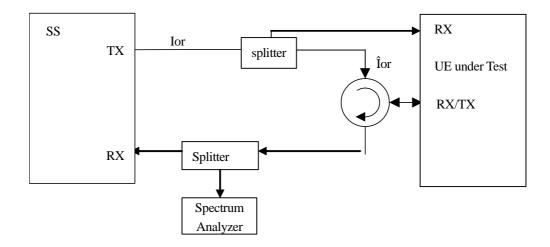


Figure A.7: Connection for TX-tests with additional Spectrum Analyzer

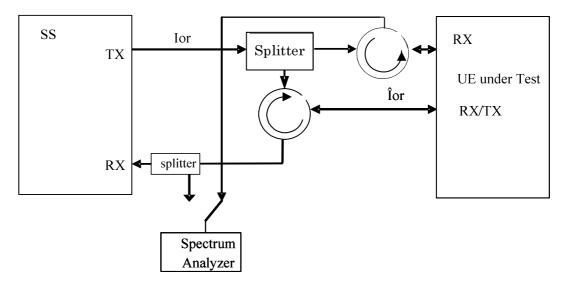


Figure A.8: Connection for RX-tests with additional Spectrum Analyzer

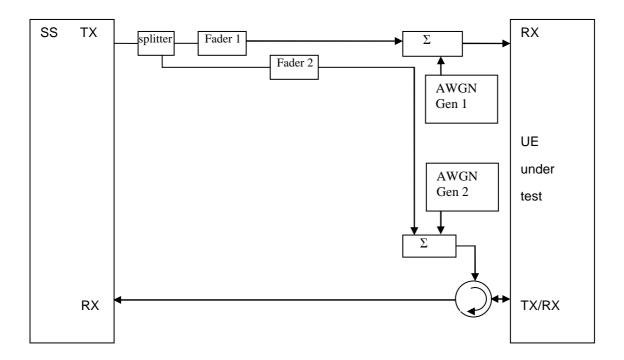


Figure A.9: Connection for RX performance tests with antenna configuration 1x2 (single antenna port)

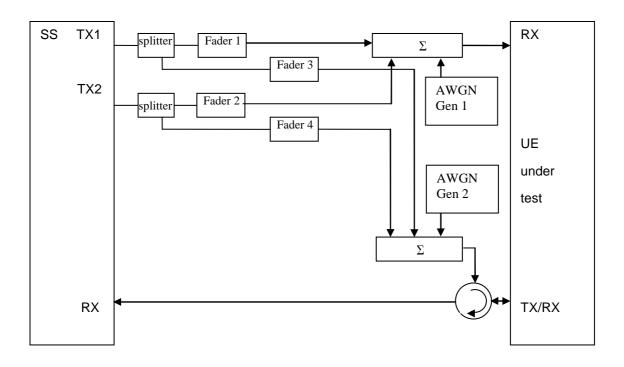


Figure A.10: Connection for RX performance tests with antenna configuration 2x2

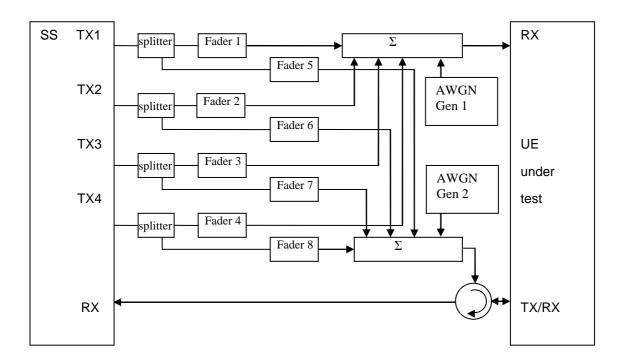


Figure A.11: Connection for RX performance tests with antenna configuration 4x2

Figure A.12: Void

Figure A.13: Void

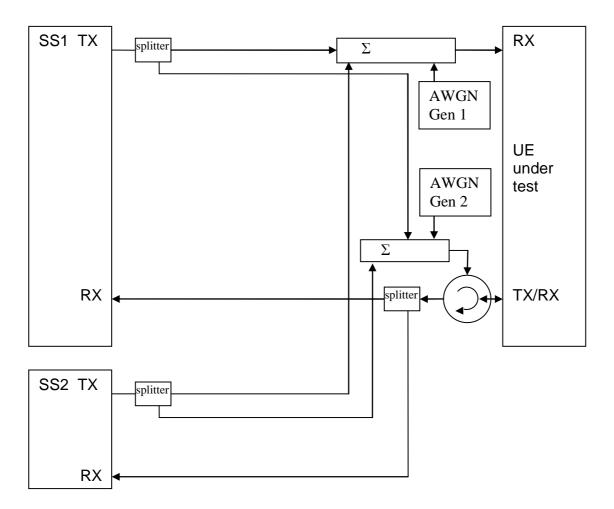


Figure A.14: Connection for 2 cells with static propagation and receive diversity

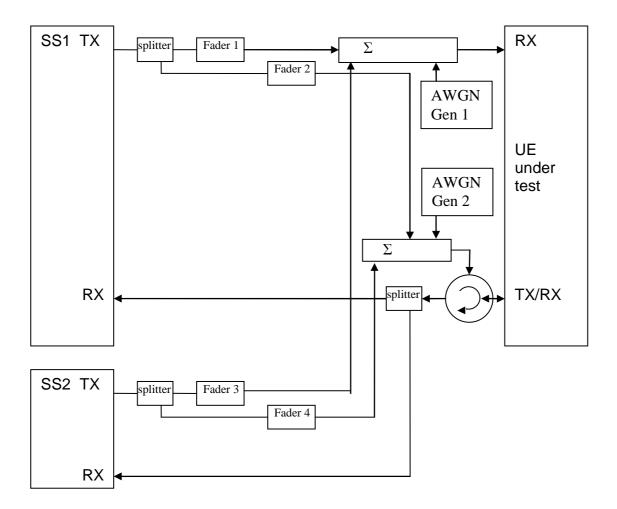


Figure A.15: Connection for 2 cells with multipath fading propagation and receive diversity

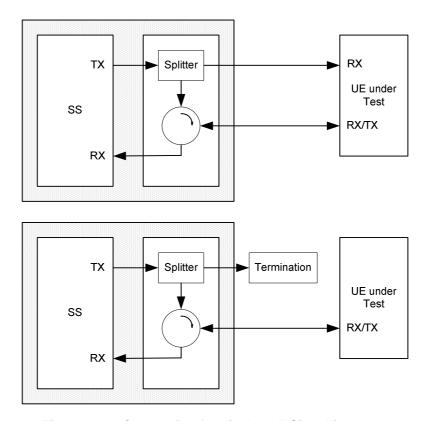


Figure A.16: Connection for single cell Signalling tests

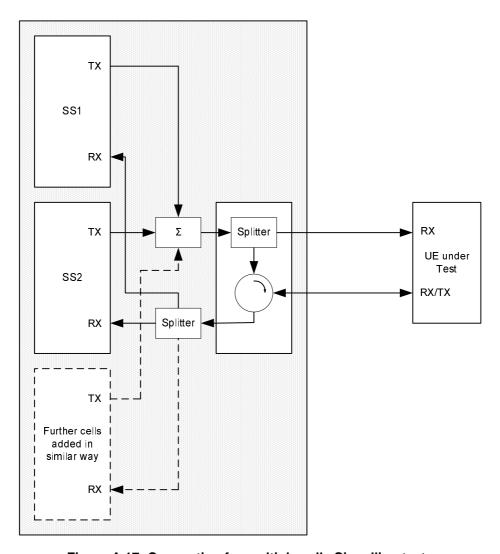


Figure A.17: Connection for multiple cells Signalling tests

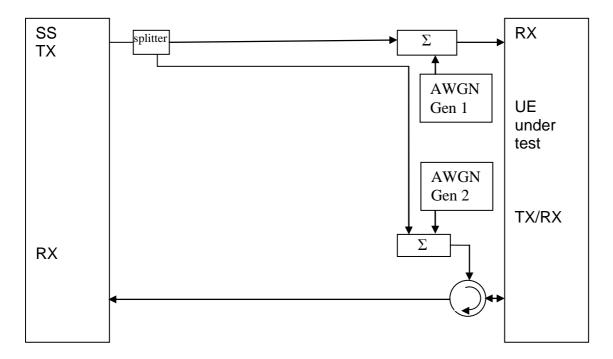


Figure A.18: Connection for 1 cell with antenna configuration 1x2 in static propagation conditions

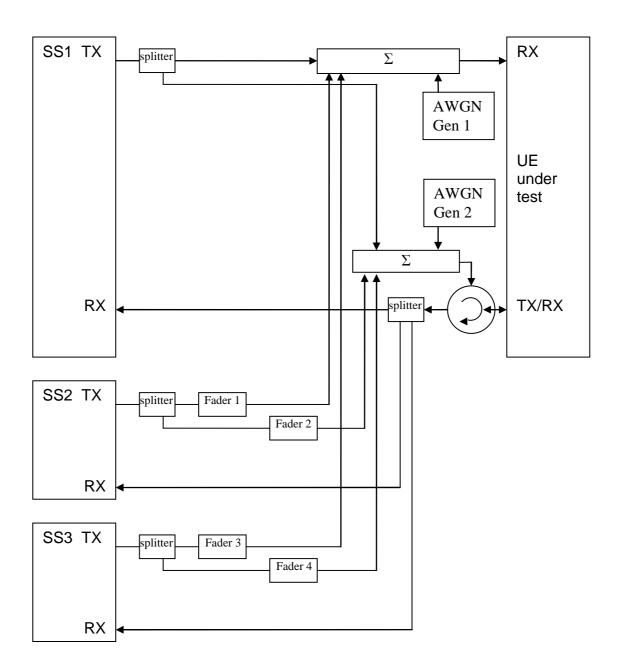


Figure A.19: Connection for 3 cells with antenna configuration 1x2 in static (cell 1) and multipath fading (cell 2 and 3) propagation conditions and receive diversity

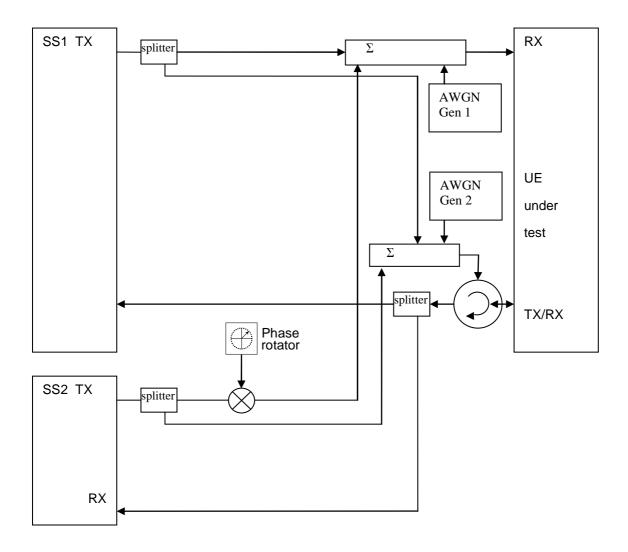


Figure A.20: Connection for 2 cells with static propagation and receive diversity with phase rotator (The frequency offset used in phase rotator is 5 Hz)

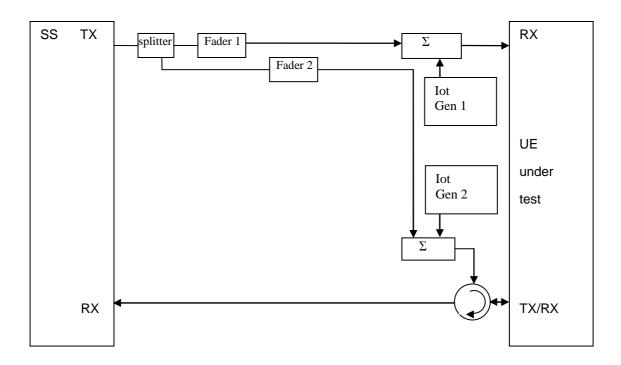


Figure A.21: Connection for frequency-selective interference with multipath fading propagation and receive diversity

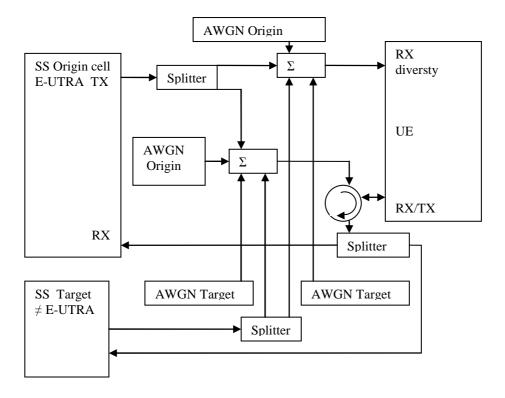


Figure A.22: Connection for 2 cells with static propagation condition. Origin (E-UTRAN) and target cell (≠ E-UTRAN) received with RX diversity

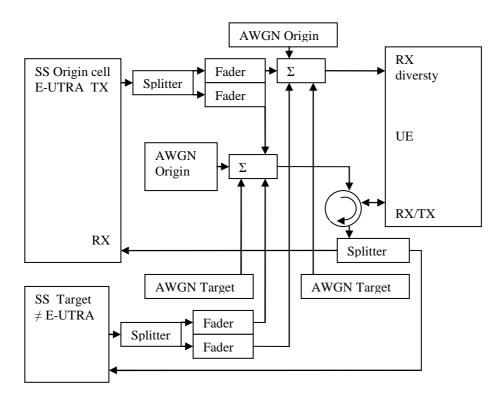


Figure A.23: Connection for 2 cells with multipath fading propagation condition. Origin (E-UTRAN) and target cell (# E-UTRAN) received with RX diversity

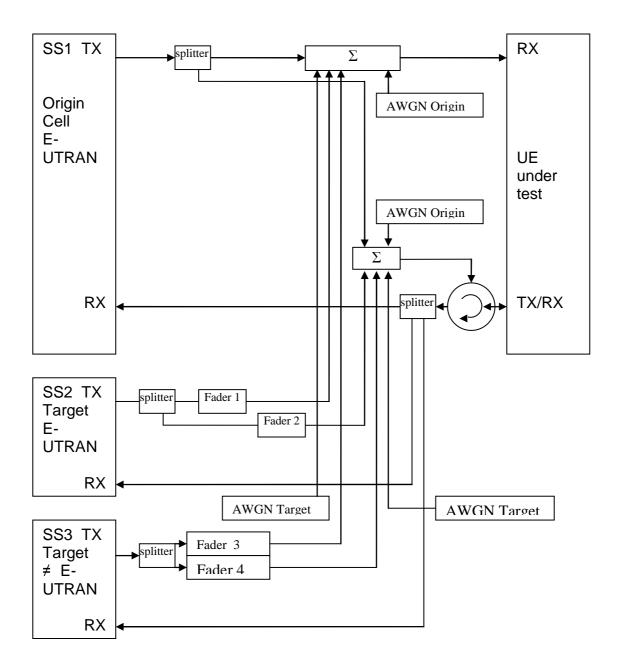


Figure A.24: Connection for 3 cells with antenna configuration 1x2 in static (cell 1) and multipath fading conditions (cell 2 and 3) and multiple RAT and receive diversity

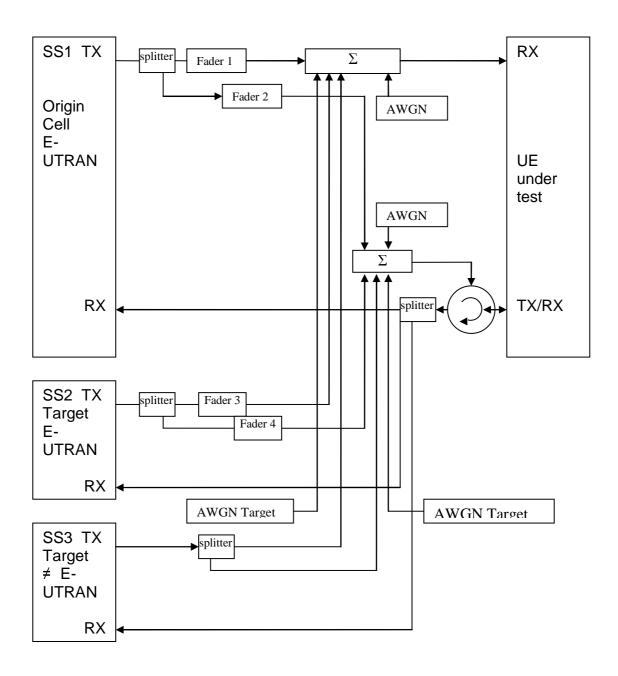


Figure A.25: Connection for 3 cells with antenna configuration 1x2 in multipath fading (cell 1 and 2) and multiple RAT (cell 3 static) and receive diversity

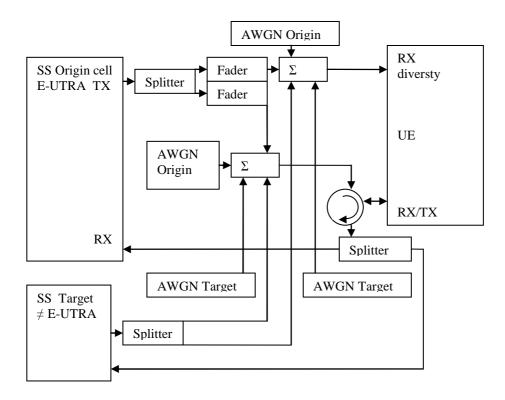


Figure A.26: Connection for 2 cells. Origin (E-UTRAN, multipath fading) and target cell (≠ E-UTRAN, static) received with RX diversity

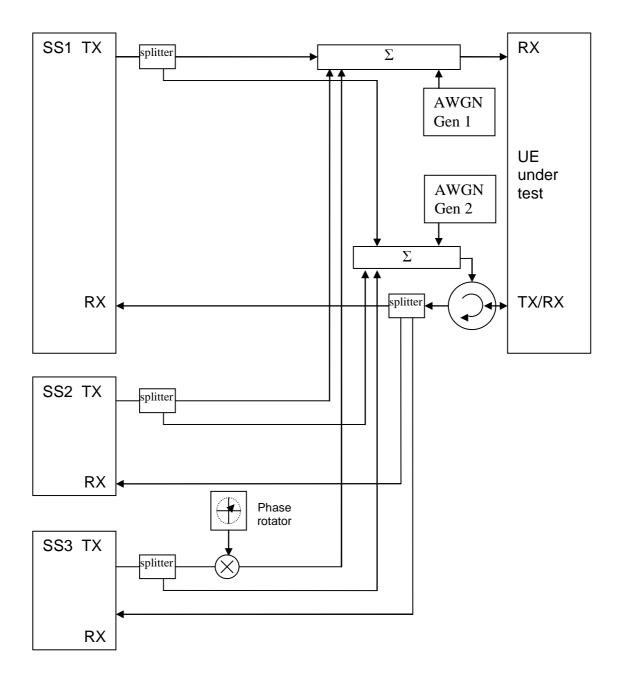


Figure A.27: Connection for 3 cells with static propagation and receive diversity

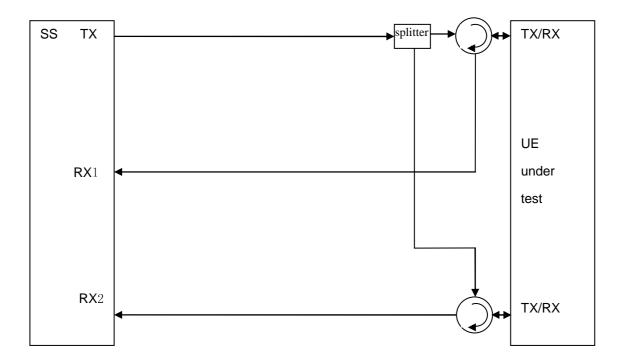


Figure A.28: Connection for basic UL MIMO with receive diversity

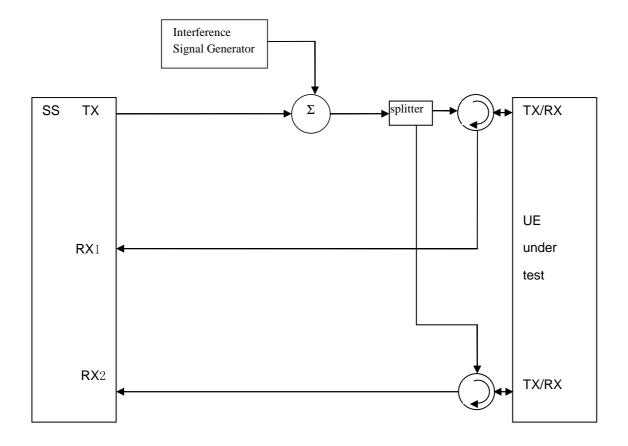


Figure A.29: Connection for UL MIMO Receiver tests with E-UTRA-Interference

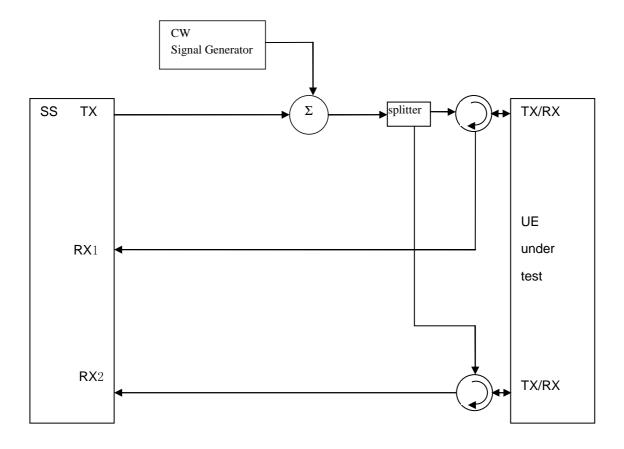


Figure A.30: Connection for UL MIMO Receiver tests with CW Interference

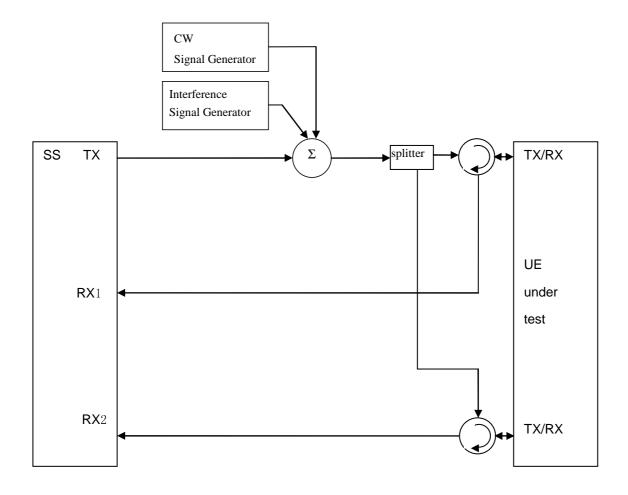


Figure A.31: Connection for UL MIMO Receiver tests with both E-UTRA-Interference and additional CW signal

Figure group A.32: Connections for basic Tx and Rx tests for CA

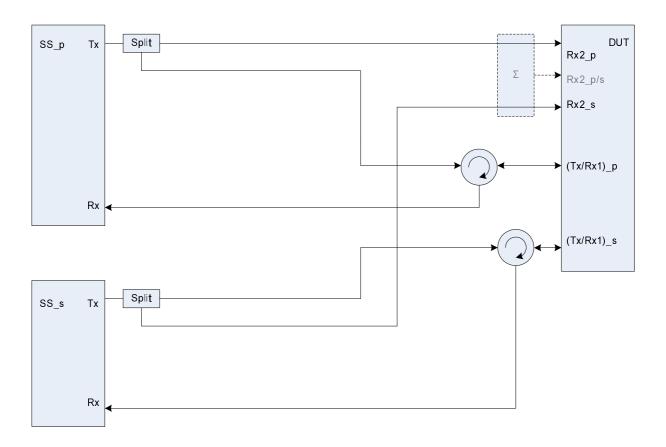


Figure A.32a: Connection for basic Tx and Rx tests for CA (separate connectors)

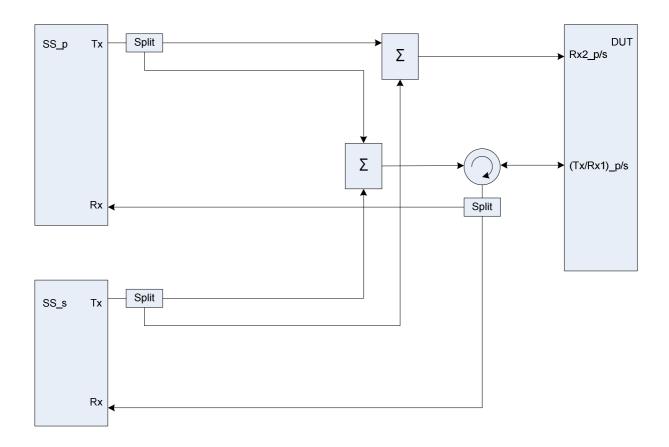


Figure A.32b: Connection for basic Tx and Rx tests for CA (common connectors, same UL antenna)

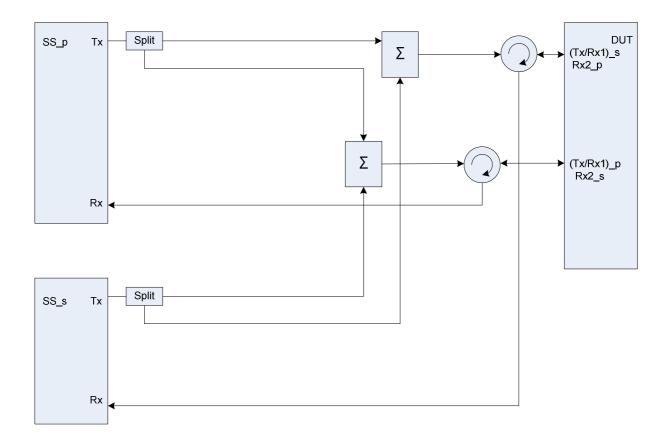


Figure A.32c: Connection for basic Tx and Rx tests for CA (common connectors, different UL antennas)

Figure group A.33: Connection for Tx tests for CA with additional Spectrum Analyzer

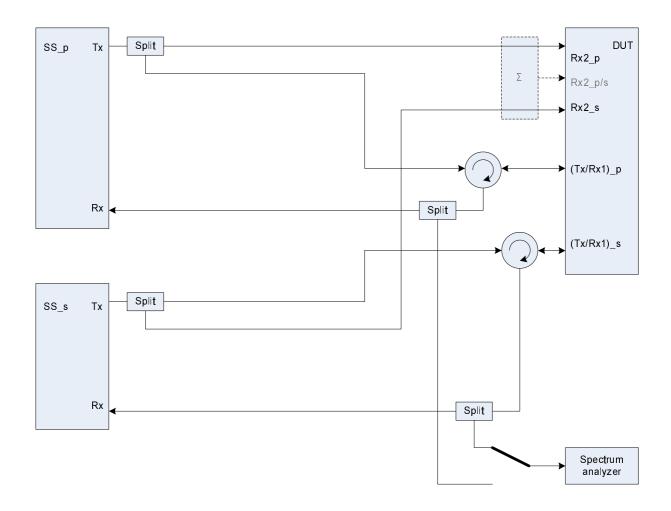


Figure A.33a: Connection for Tx tests for CA with additional Spectrum Analyzer (separate connectors)

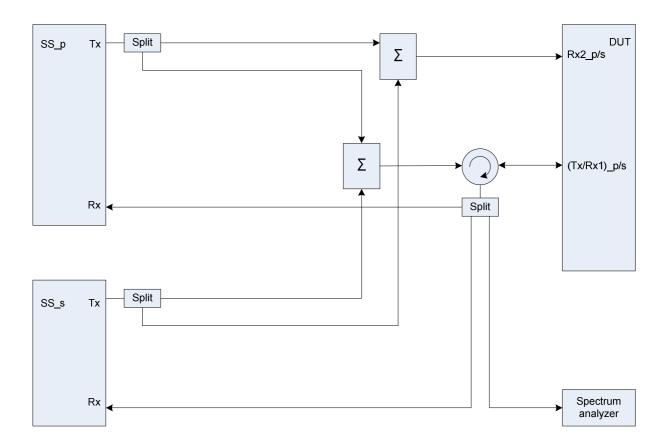


Figure A.33b: Connection for Tx tests for CA with additional Spectrum Analyzer (common connectors, same UL antenna)

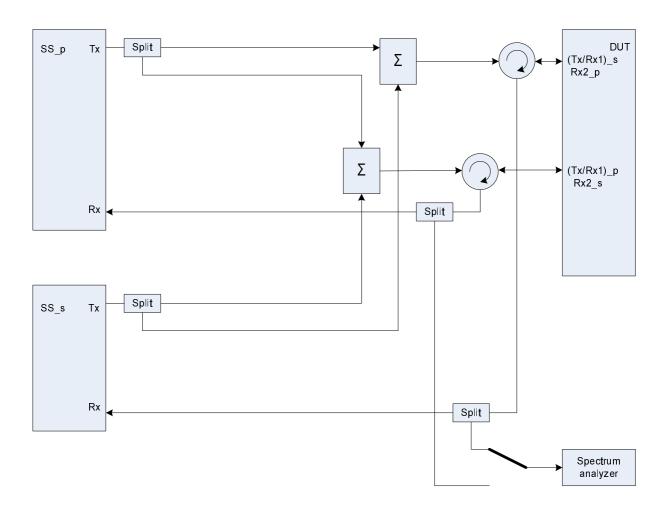


Figure A.33c: Connection for Tx tests for CA with additional Spectrum Analyzer (common connectors, different UL antennas)

Figure group A.34: Connection for Rx tests for CA with additional Interferer / CW

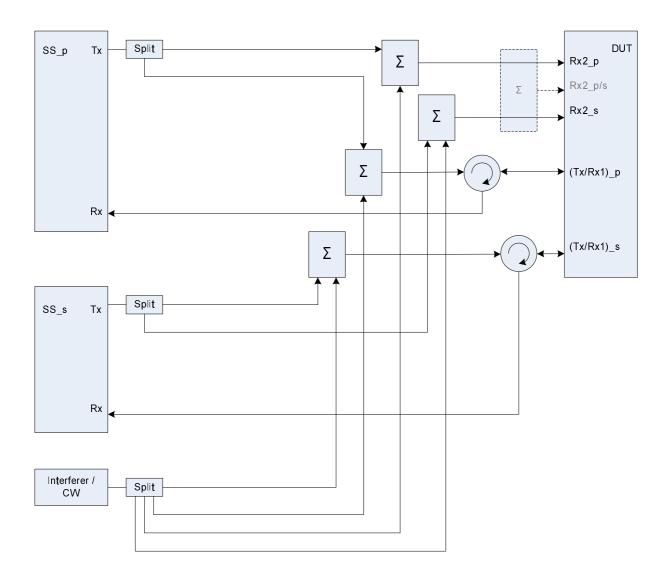


Figure A.34a: Connection for Rx tests for CA with additional Interferer / CW (separate connectors)

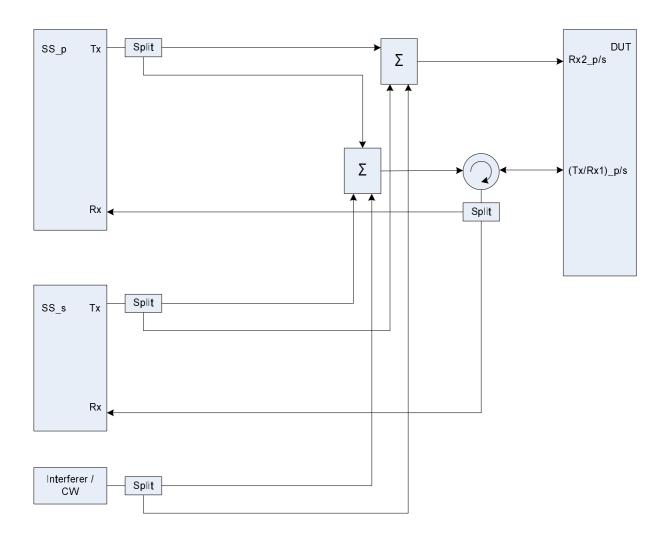


Figure A.34b: Connection for Rx tests for CA with additional Interferer / CW (common connectors, same UL antenna)

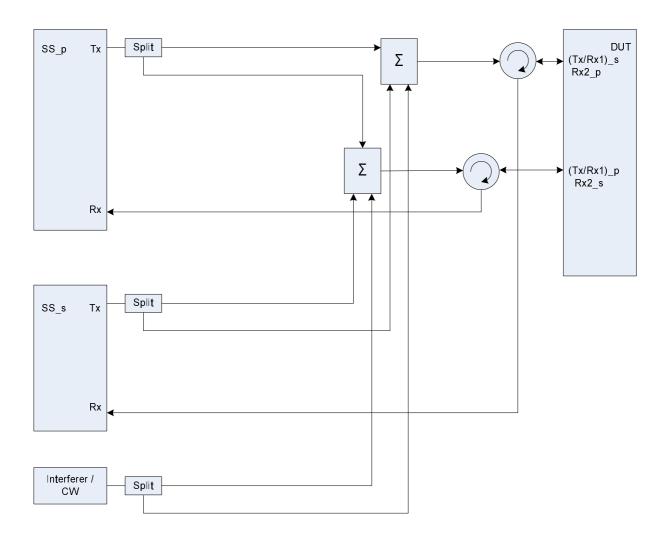


Figure A.34c: Connection for Rx tests for CA with additional Interferer / CW (common connectors, different UL antennas)

Figure group A.35: Connection for Rx performance tests for CA with antenna configuration 1x2

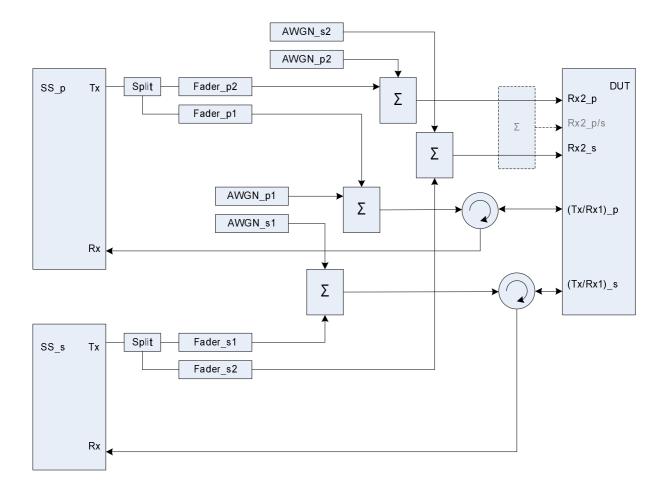


Figure A.35a: Connection for Rx performance tests for CA with antenna configuration 1x2 (separate connectors)

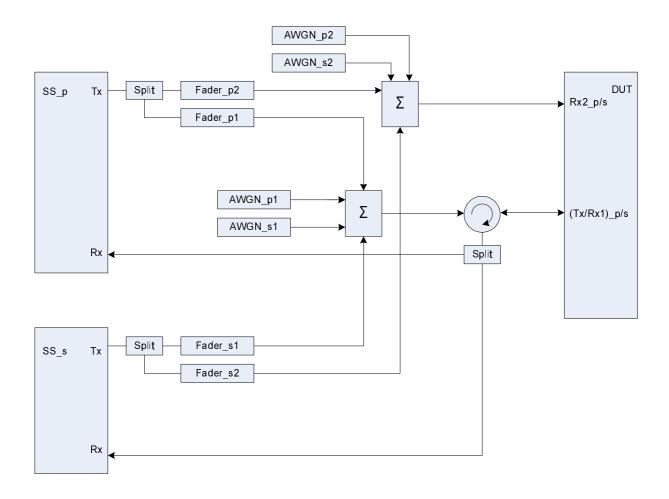


Figure A.35b: Connection for Rx performance tests for CA with antenna configuration 1x2 (common connectors, same UL antenna)

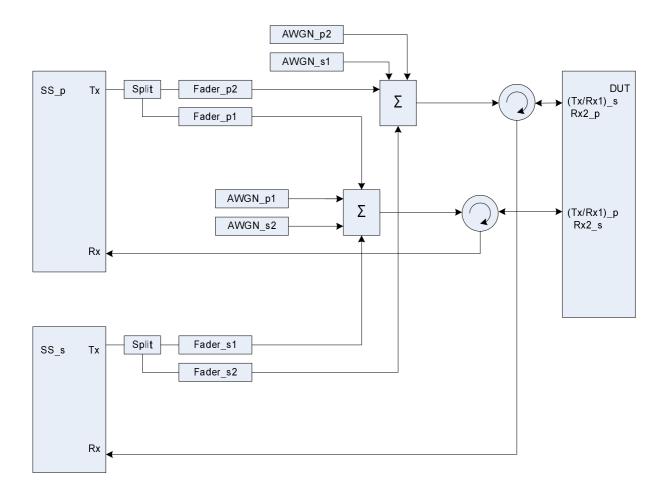


Figure A.35c: Connection for Rx performance tests for CA with antenna configuration 1x2 (common connectors, different UL antennas)

Figure group A.36: Connection for Rx performance tests for CA with antenna configuration 2x2

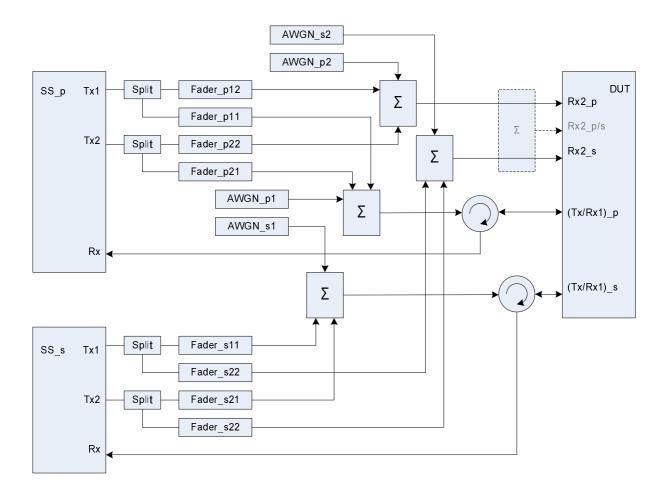


Figure A.36a: Connection for Rx performance tests for CA with antenna configuration 2x2 (separate connectors)

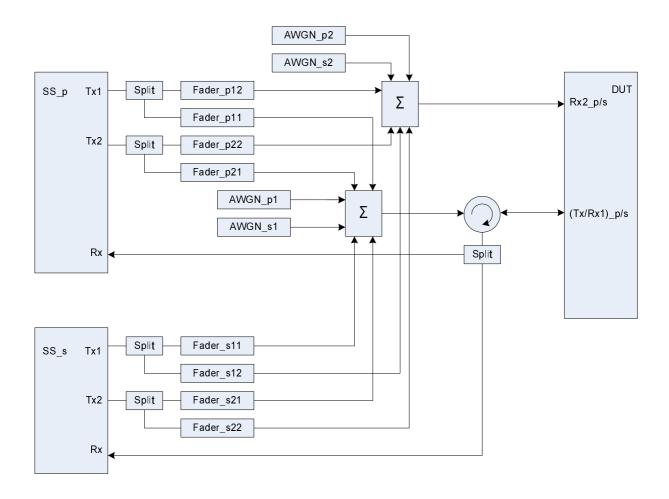


Figure A.36b: Connection for Rx performance tests for CA with antenna configuration 2x2 (common connectors, same UL antenna)

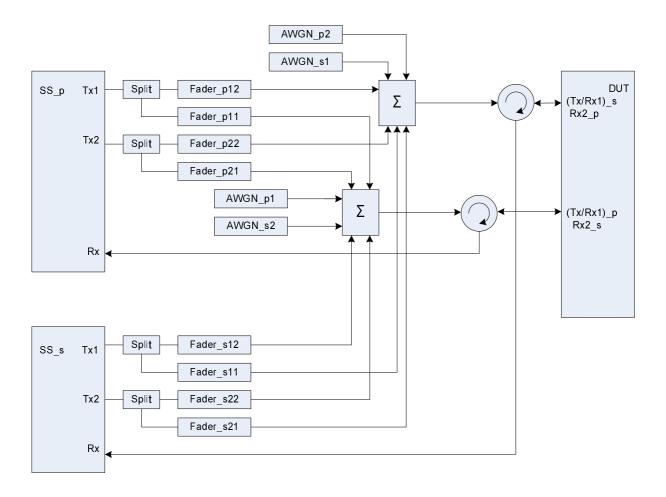


Figure A.36c: Connection for Rx performance tests for CA with antenna configuration 2x2 (common connectors, different UL antennas)

Figure group A.37: Connection for Tx tests for CA with additional CW and Spectrum Analyzer

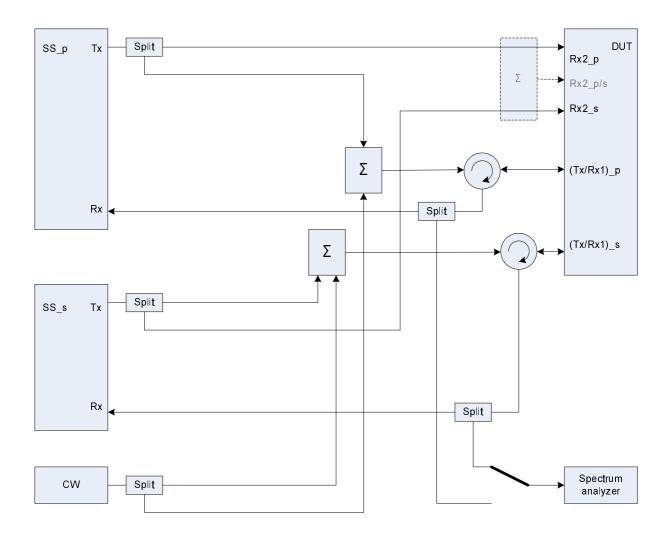


Figure A.37a: Connection for Tx tests for CA with additional CW and Spectrum Analyzer (separate connectors)

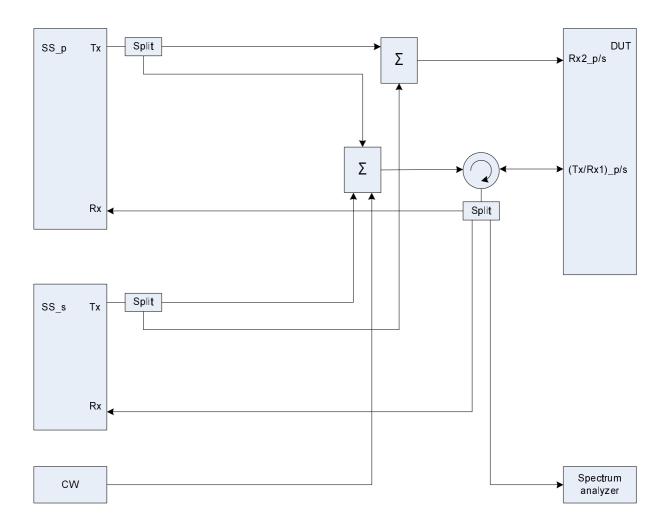


Figure A.37b: Connection for Tx tests for CA with additional CW and Spectrum Analyzer (common connectors, same UL antenna)

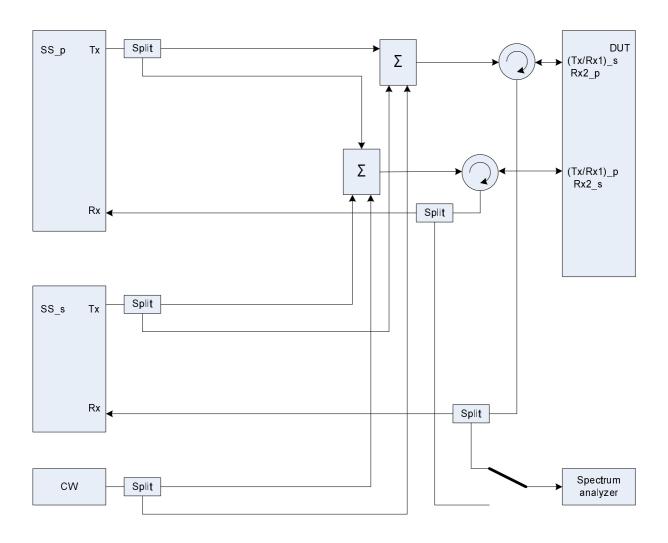


Figure A.37c: Connection for Tx tests for CA with additional CW and Spectrum Analyzer (common connectors, different UL antennas)

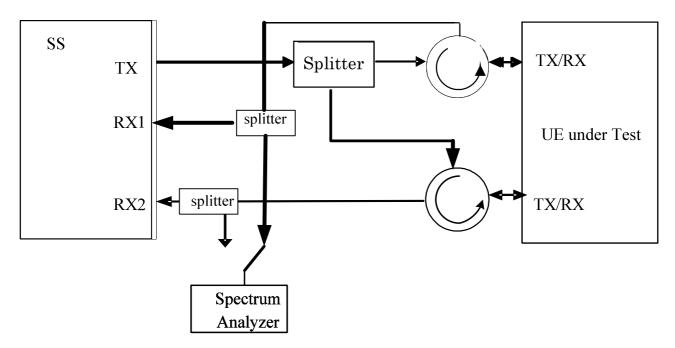


Figure A.38: Connection for UL MIMO tests with additional Spectrum Analyzer

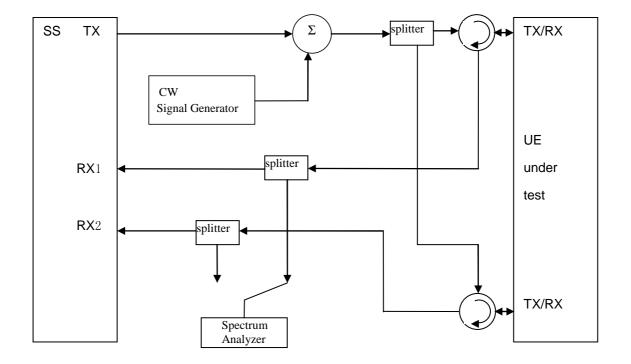


Figure A.39: Connection for Transmitter Intermodulation tests for UL-MIMO

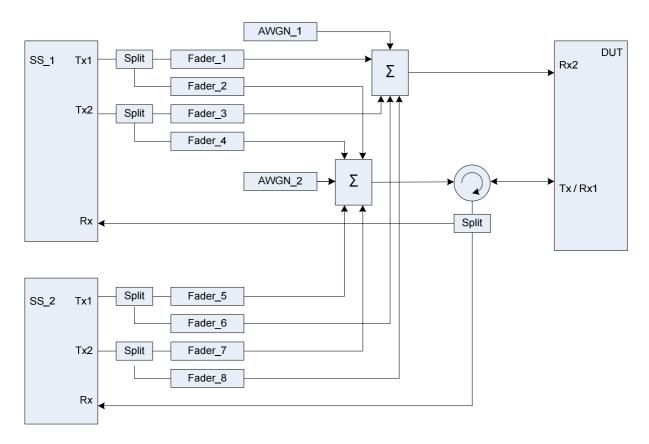


Figure A.40: Connection for 2 cells, antenna configuration 2x2, multipath fading and receive diversity

Figure group A.41: Connection for CA with additional intra-frequency cell and static propagation channel

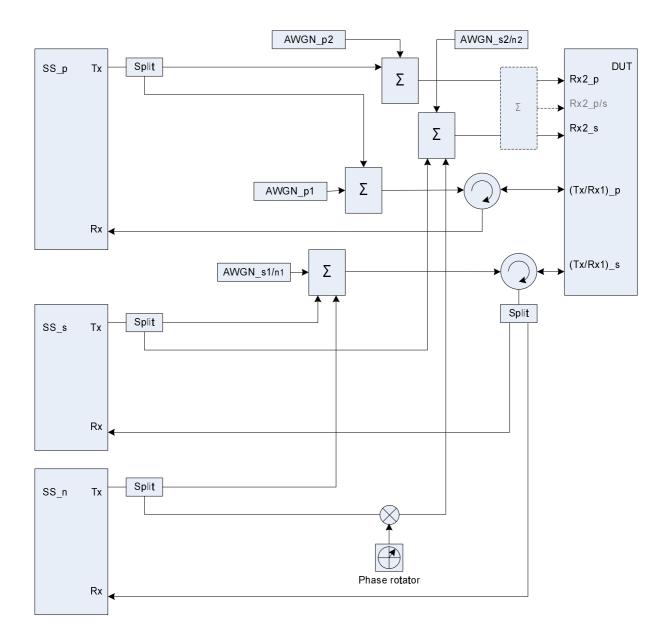


Figure A.41a: Connection for CA with additional intra-frequency cell and static propagation channel (separate connectors) (The frequency offset used in phase rotator is 5 Hz)

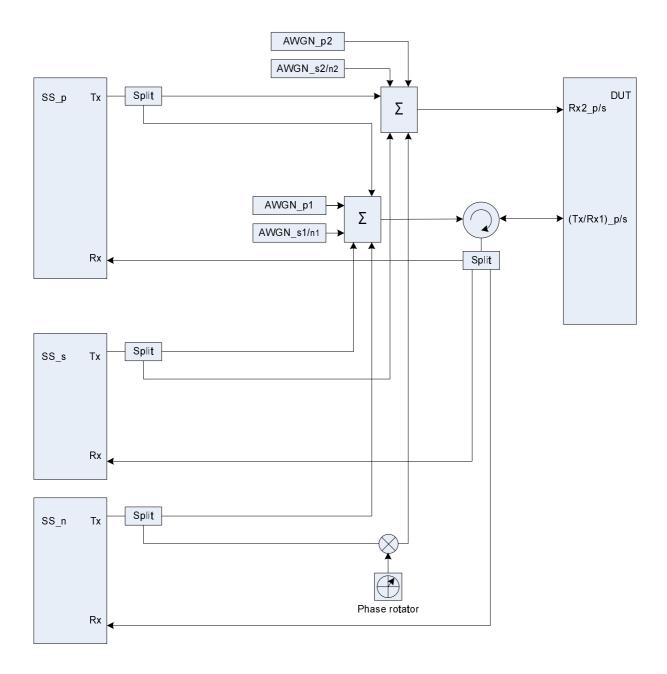


Figure A.41b: Connection for CA with additional intra-frequency cell and static propagation channel (common connectors, same UL antenna) (The frequency offset used in phase rotator is 5 Hz)

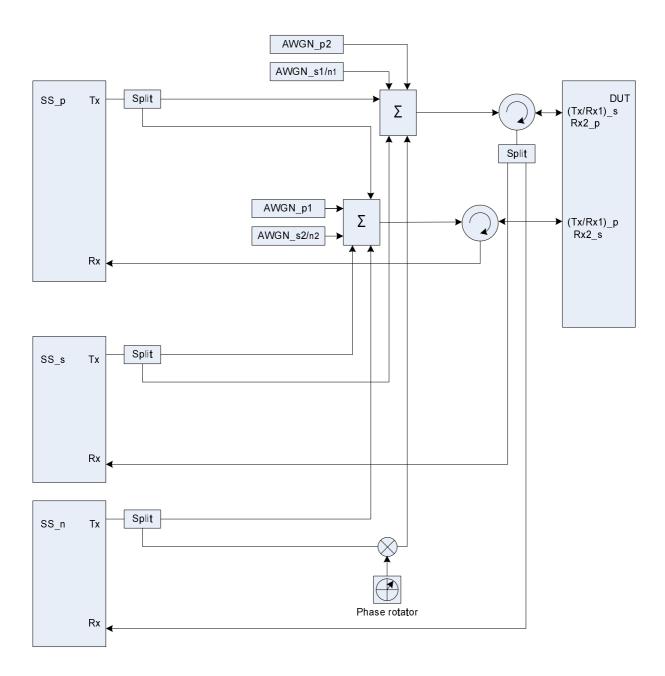


Figure A.41c: Connection for CA with additional intra-frequency cell and static propagation channel (common connectors, different UL antennas) (The frequency offset used in phase rotator is 5 Hz)

Figure group A.42: Connection for CA with additional intra-frequency cell and multipath fading propagation

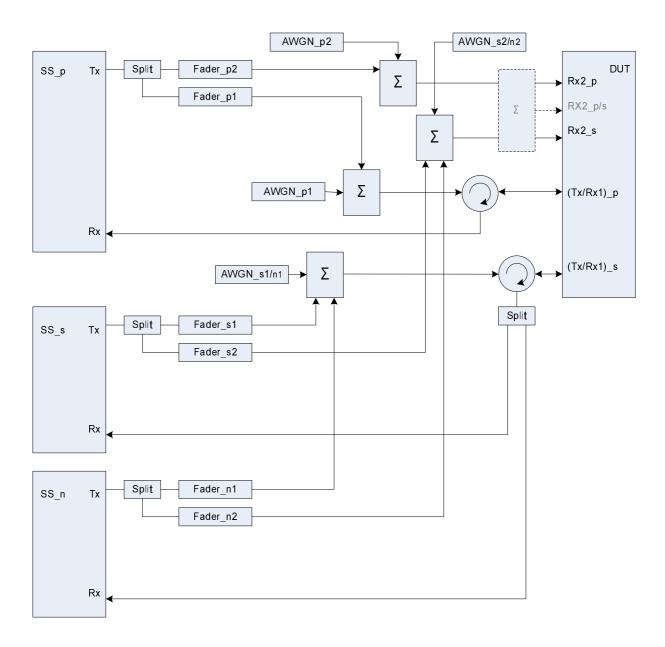


Figure A.42a: Connection for CA with additional intra-frequency cell and multipath fading propagation (separate connectors)

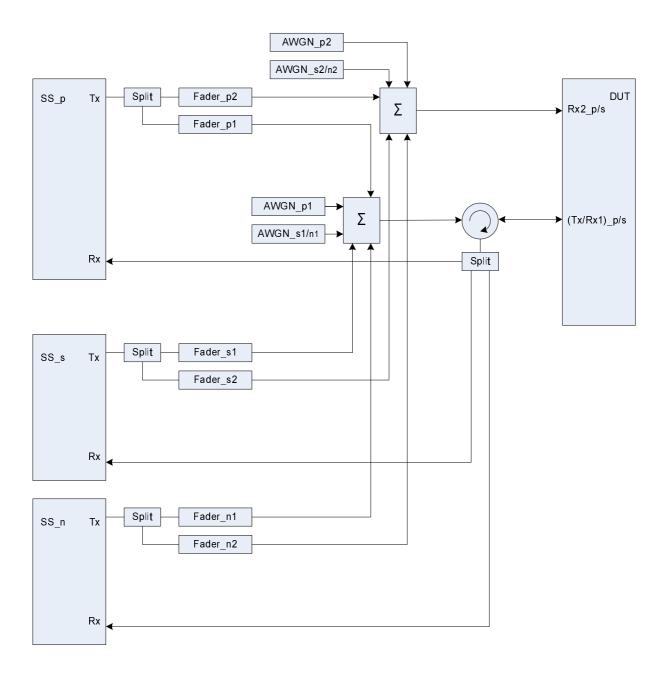


Figure A.42b: Connection for CA with additional intra-frequency cell and multipath fading propagation (common connectors, same UL antenna)

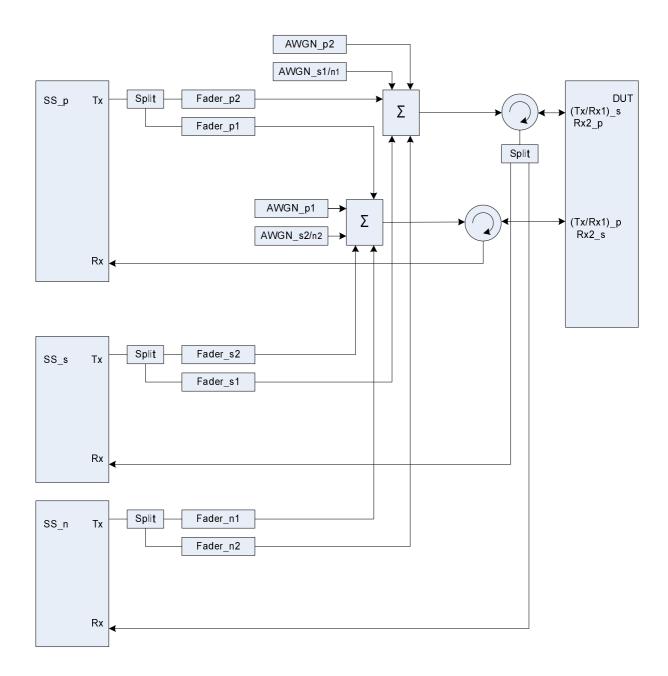


Figure A.42c: Connection for CA with additional intra-frequency cell and multipath fading propagation (common connectors, different UL antennas)

Figure group A.43: Connection for CA with additional inter-frequency cell and multipath fading propagation

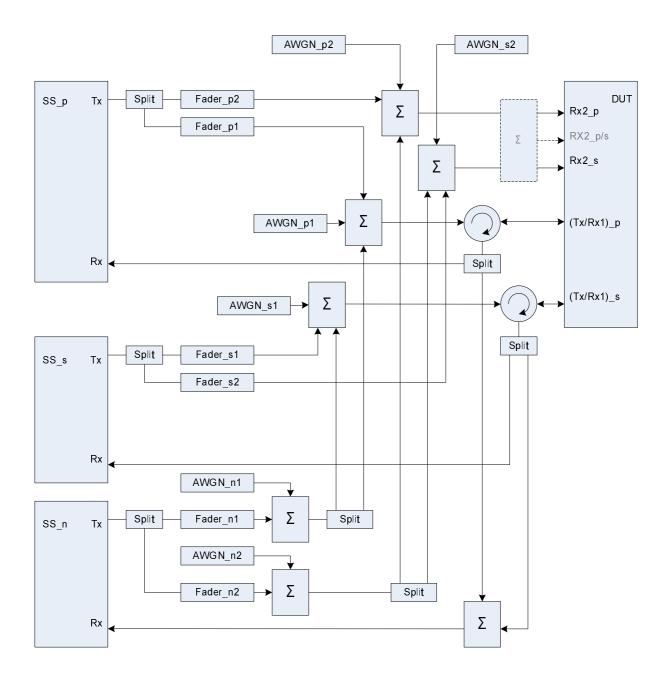


Figure A.43a: Connection for CA with additional inter-frequency cell and multipath fading propagation (separate connectors)

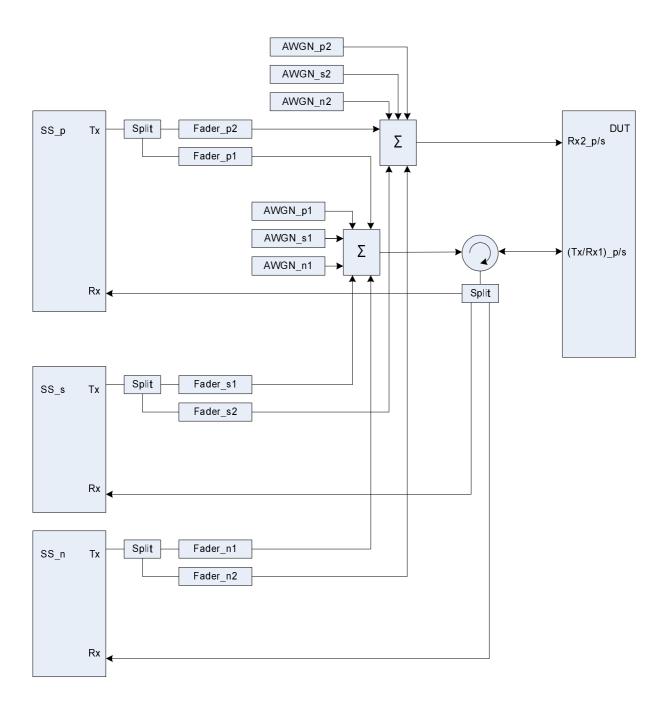


Figure A.43b: Connection for CA with additional inter-frequency cell and multipath fading propagation (common connectors, same UL antenna)

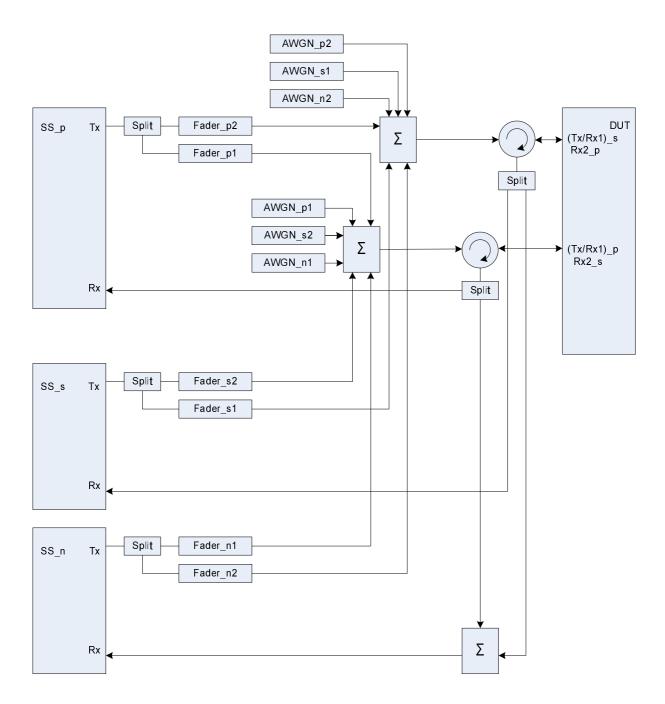


Figure A.43c: Connection for CA with additional inter-frequency cell and multipath fading propagation (common connectors, different UL antennas)

Figure group A.44: Connection for CA with additional inter-RAT cell and multipath fading propagation

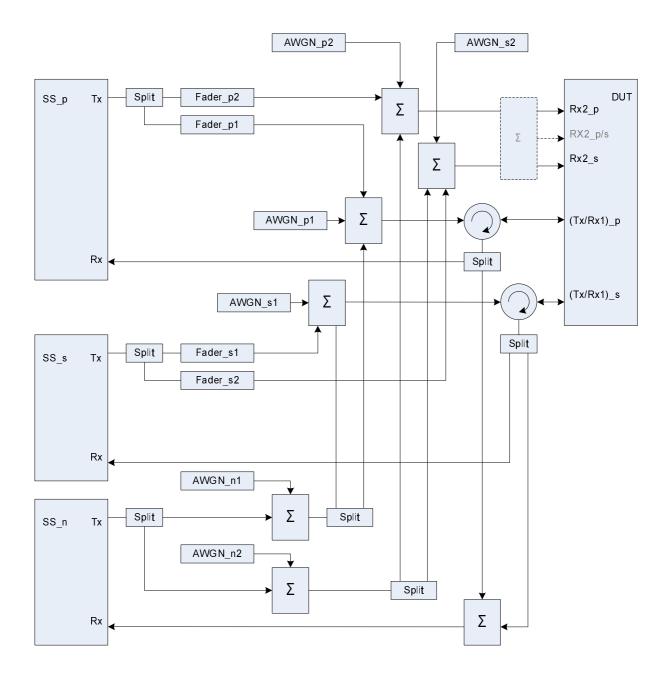


Figure A.44a: Connection for CA with additional inter-RAT cell and multipath fading propagation (separate connectors)

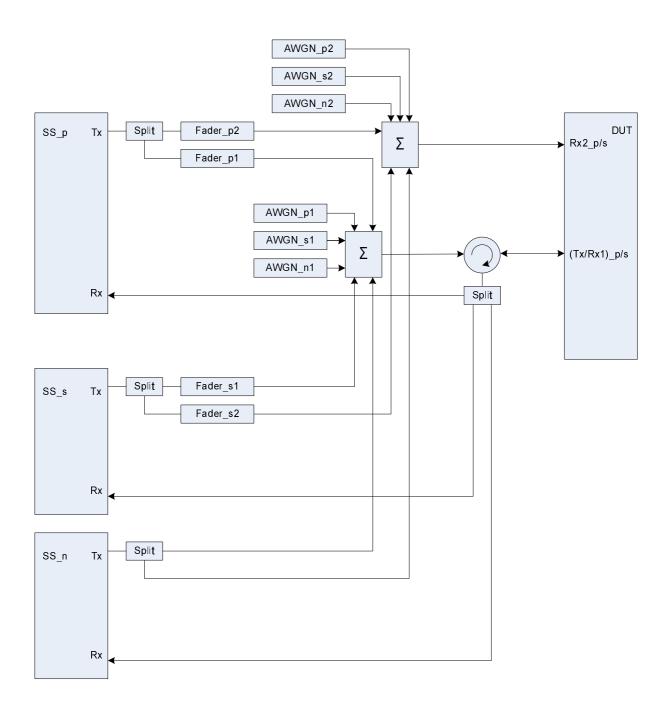


Figure A.44b: Connection for CA with additional inter-RAT cell and multipath fading propagation (common connectors, same UL antenna)

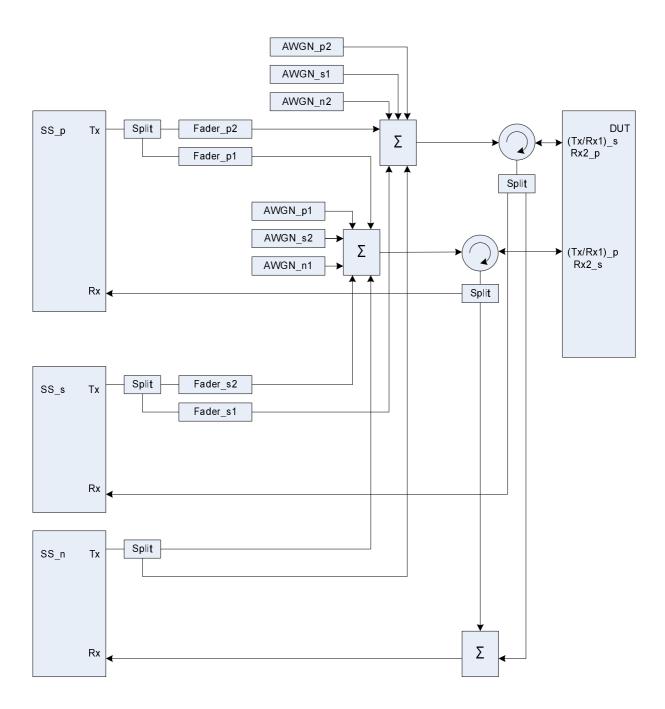


Figure A.44c: Connection for CA with additional inter-RAT cell and multipath fading propagation (common connectors, different UL antennas)

Figure group A.45: Connection for 2 cells with antenna configuration 1x2 and static propagation

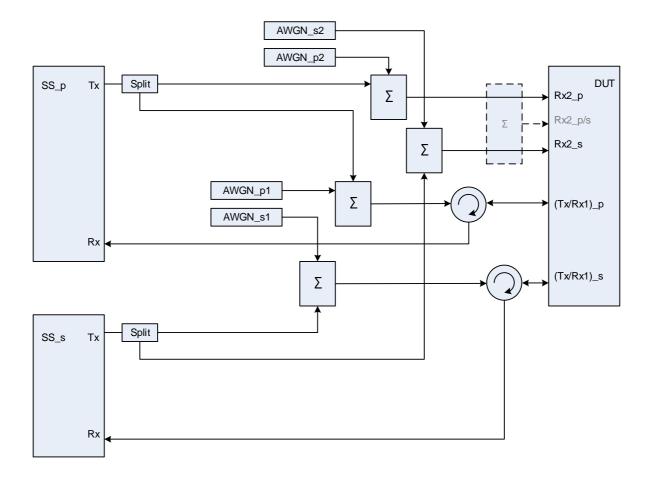


Figure A.45a: Connection for 2 cells with antenna configuration 1x2 and static propagation (separate connectors)

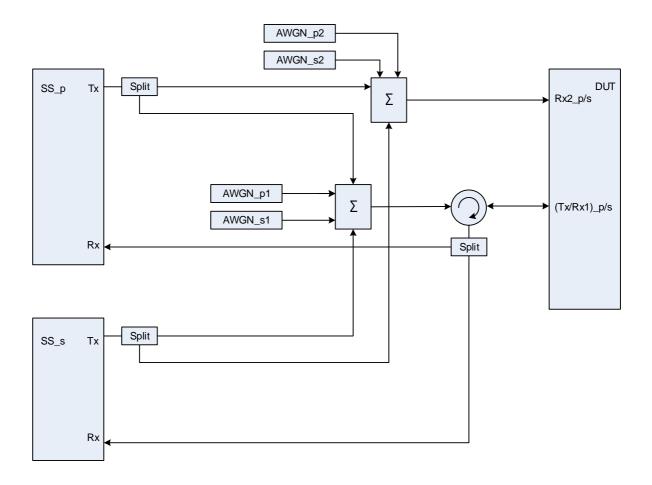


Figure A.45b: Connection for 2 cells with antenna configuration 1x2 and static propagation (common connectors, same UL antenna)

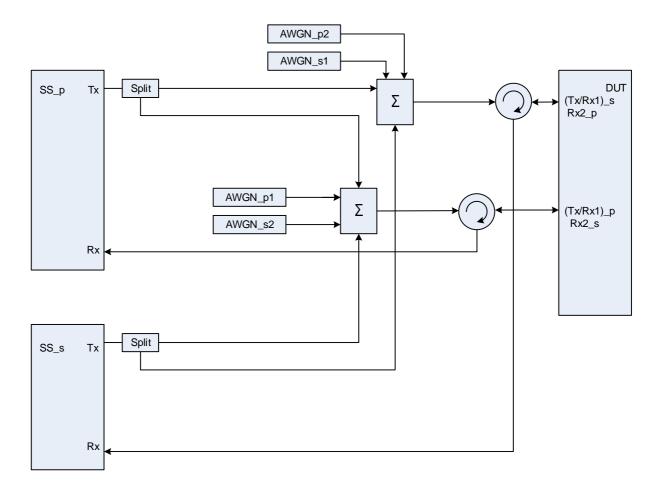


Figure A.45c: Connection for 2 cells with antenna configuration 1x2 and static propagation (common connectors, different UL antennas)

Figure group A.46: Connection for Rx performance tests for CA with antenna configuration 4x2

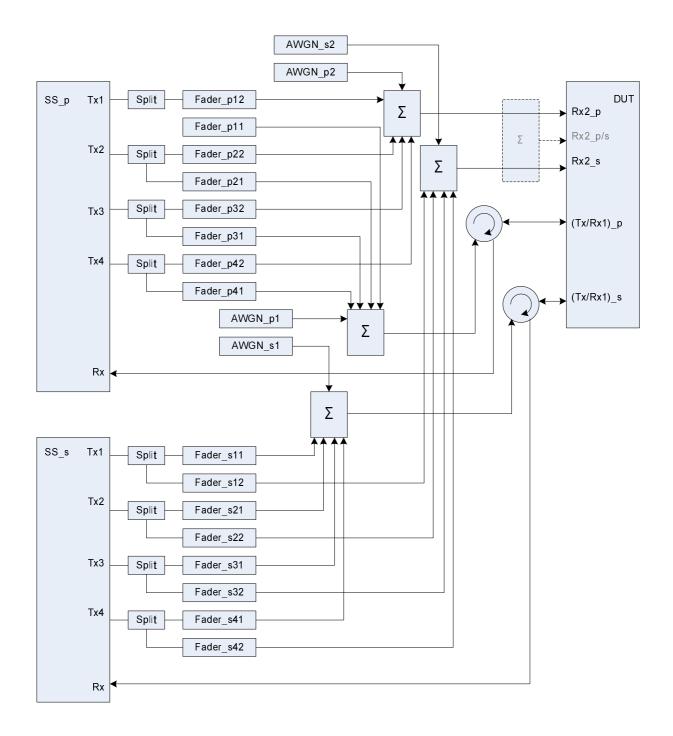


Figure A.46a: Connection for Rx performance tests for CA with antenna configuration 4x2 (separate connectors)

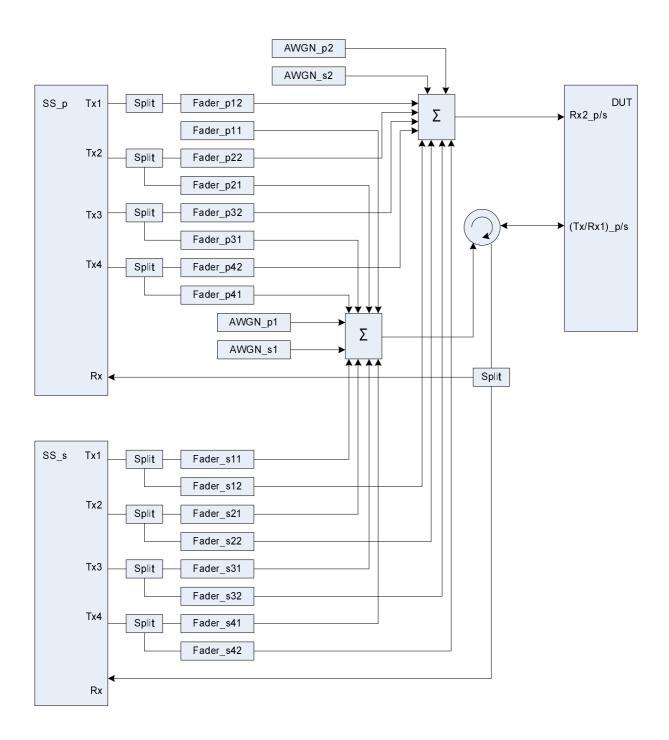


Figure A.46b: Connection for Rx performance tests for CA with antenna configuration 4x2 (common connectors, same UL antenna)

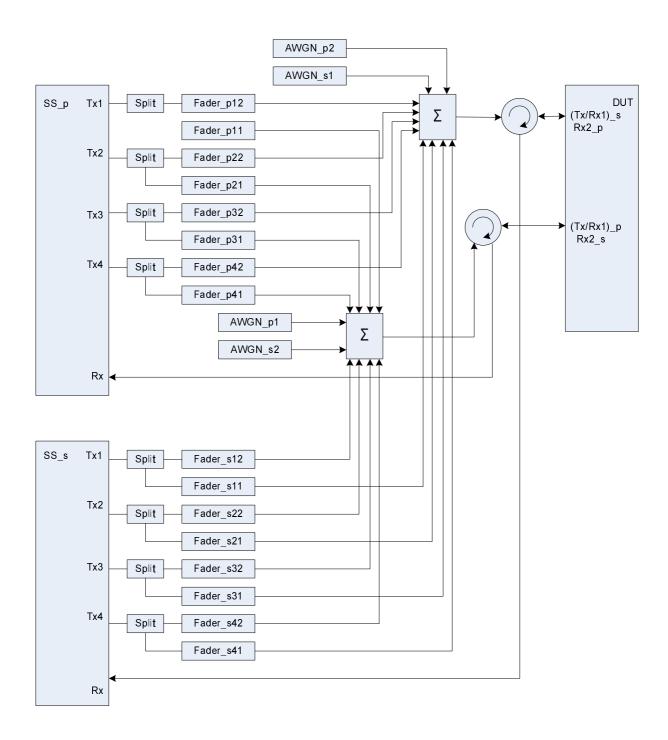


Figure A.46c: Connection for Rx performance tests for CA with antenna configuration 4x2 (common connectors, different UL antennas)

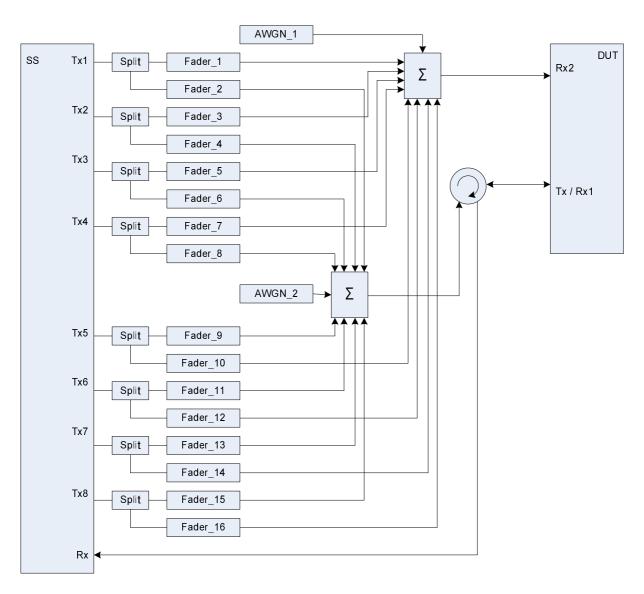


Figure A.47: Connection for RX performance tests with antenna configuration 8x2

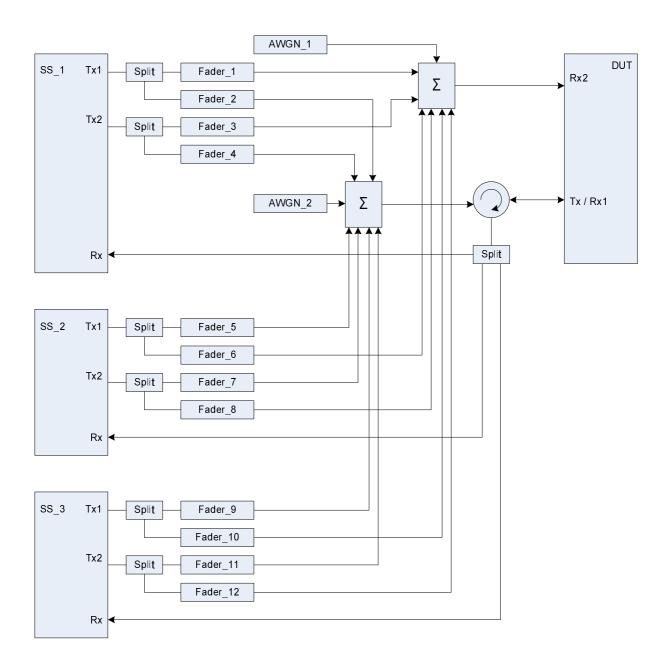


Figure A.48: Connection for 3 Cells (TPs) with antenna configuration 2x2 and fading

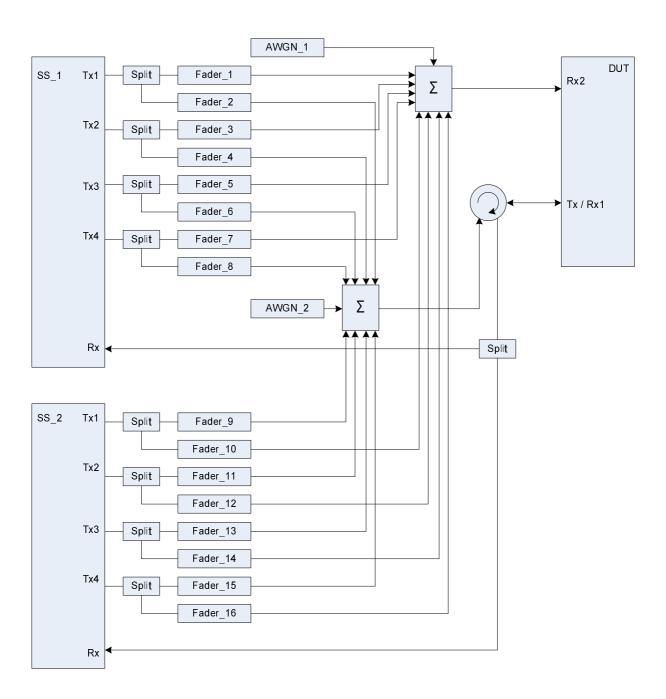


Figure A.49: Connection for 2 Cells (TPs) with antenna configuration 4x2 and fading

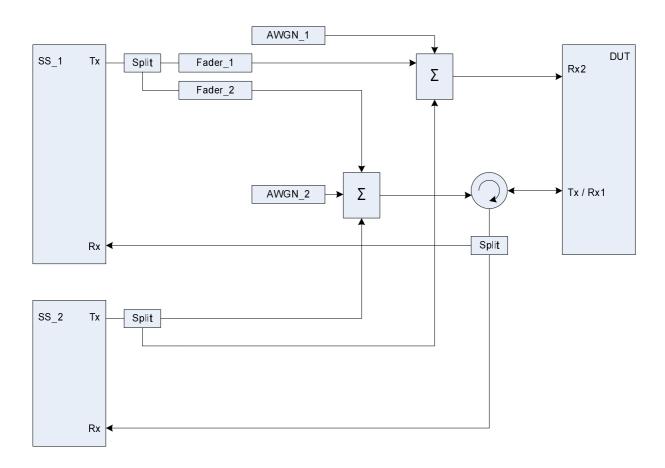


Figure A.50: Connection for 2 Cells (TPs) with antenna configuration 1x2 and fading for one Cell (TP)

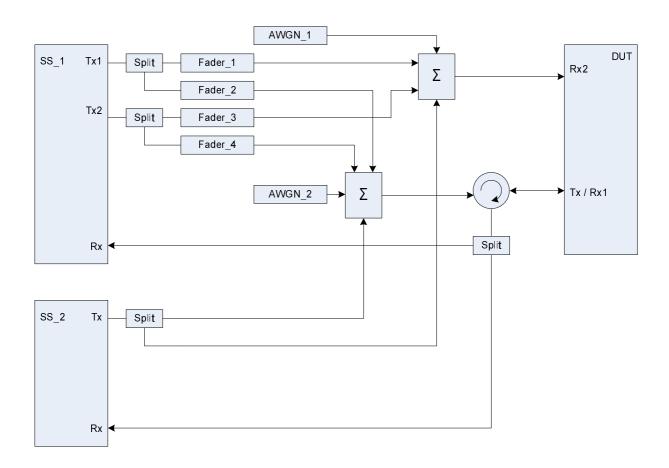


Figure A.51: Connection for 2 Cells (TPs) with antenna configuration 2x2 / 1x2 and fading for the 2x2 Cell (TP)

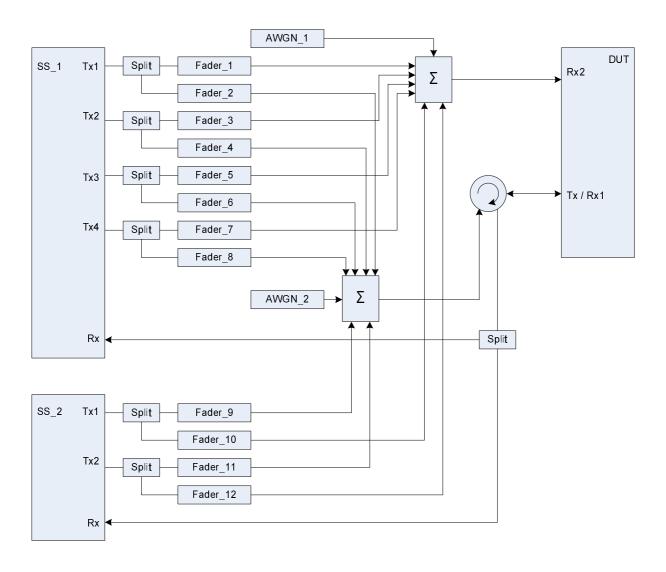


Figure A.52: Connection for 2 Cells (TPs) with antenna configuration 4x2 / 2x2 and fading

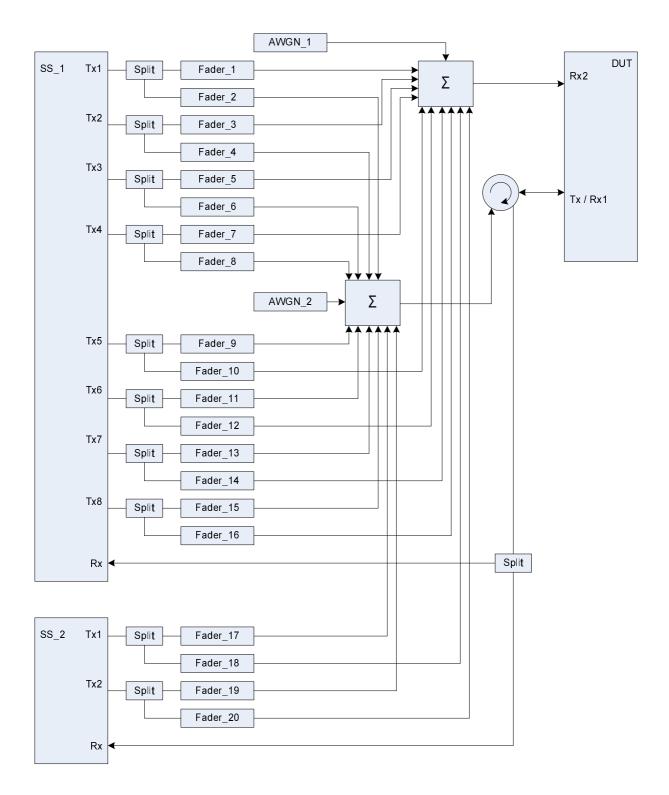


Figure A.53: Connection for 2 Cells (TPs) with antenna configuration 8x2 / 2x2 and fading

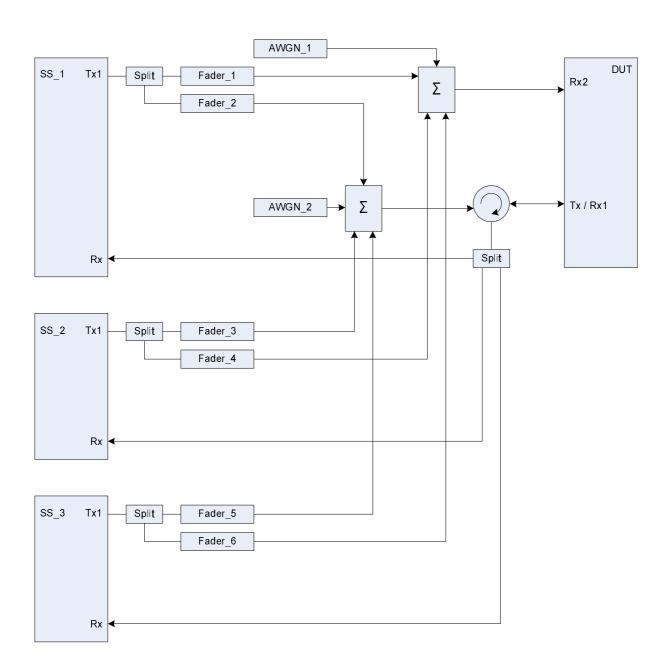


Figure A.54: Connection for 3 Cells (TPs) with antenna configuration 1x2 and fading

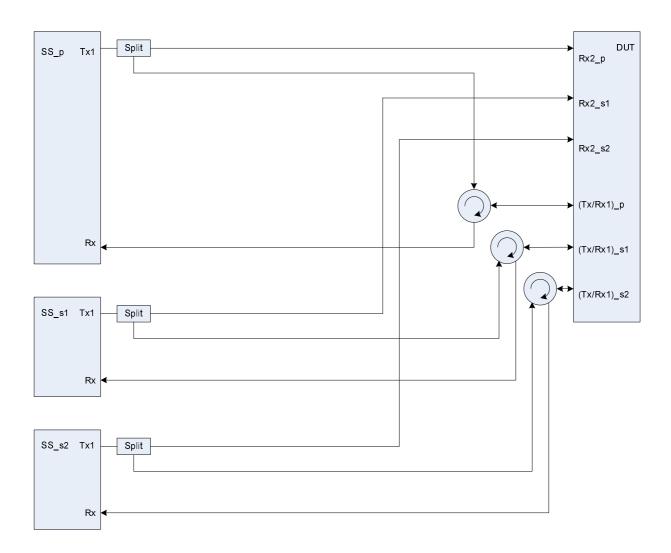


Figure A.55: Connection for basic Tx and Rx tests for CA (3CCs)

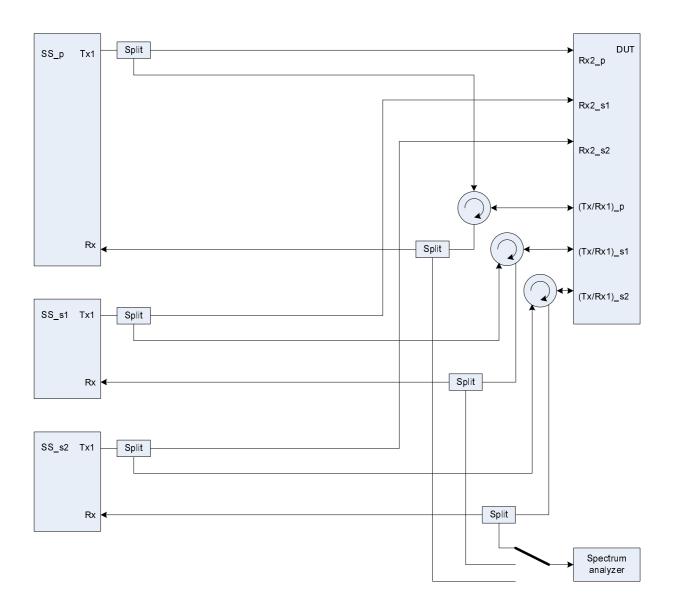


Figure A.56: Connection for Tx tests for CA (3CCs) with additional Spectrum Analyzer

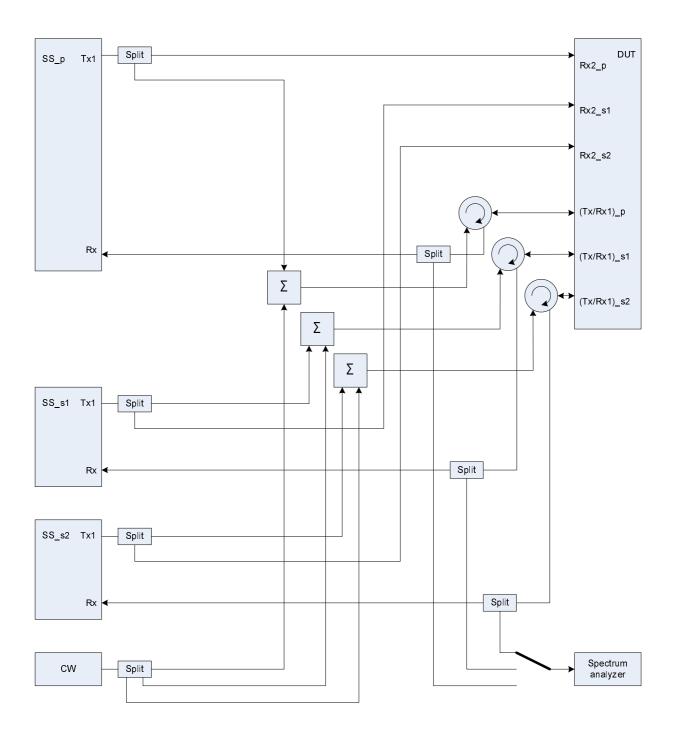


Figure A.57: Connection for Tx tests for CA (3CCs) with additional CW and Spectrum Analyzer

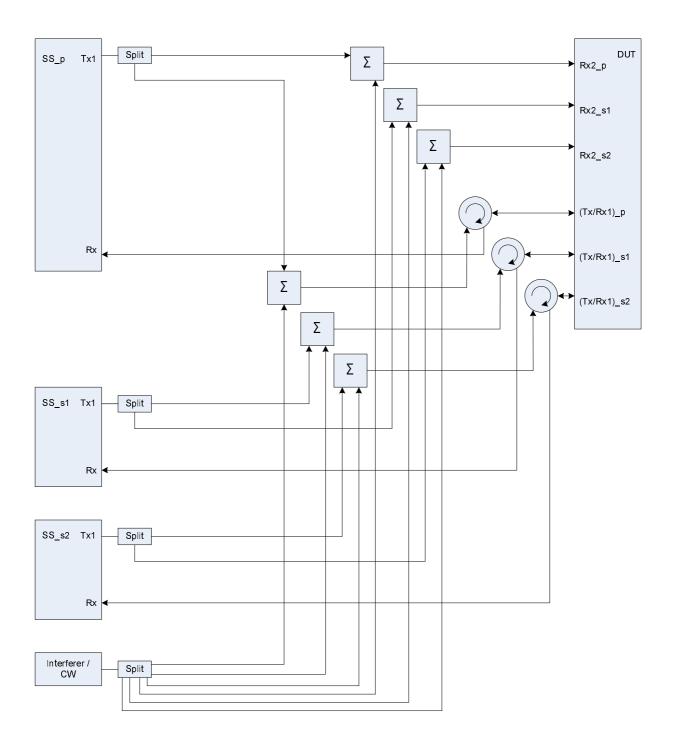


Figure A.58: Connection for Rx tests for CA (3CCs) with additional Interferer / CW

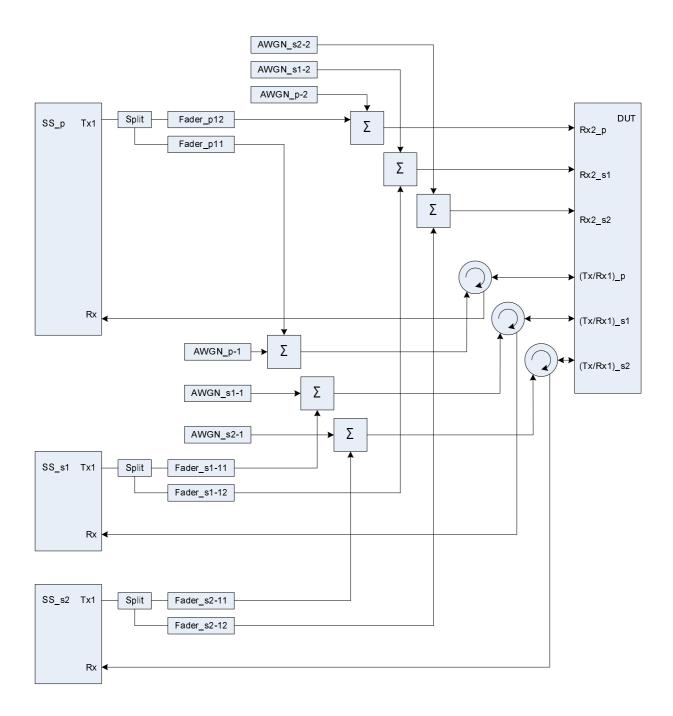


Figure A.59: Connection for Rx performance tests for CA (3CCs) with antenna configuration 1x2

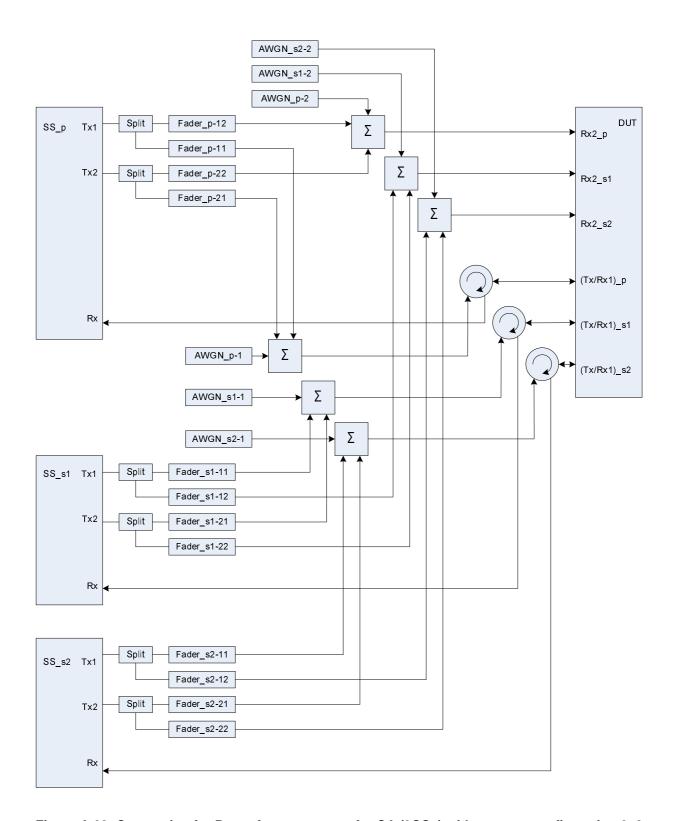


Figure A.60: Connection for Rx performance tests for CA (3CCs) with antenna configuration 2x2

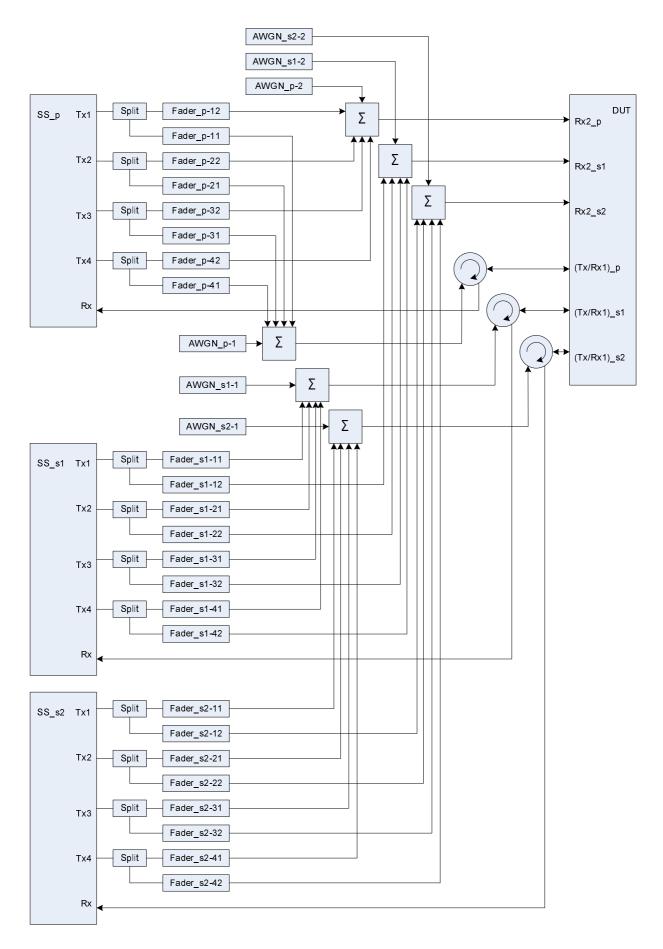


Figure A.61: Connection for Rx performance tests for CA (3CCs) with antenna configuration 4x2

Annex B (informative): Change history

g-1st-	Doc-1st-Level	CR	Rev	Subject	Cat	Version -Current	Version -New	Doc-2nd- Level
	R5-073107			Skeleton proposed for RAN5#37 Jeju			0.0.1	
#37 RAN5 LTE worksh op	R5w080007			Proposed for RAN5 LTE workshop, Sophia Antipolis		0.0.1	0.0.2	
	R5-081167			Following proposals have been incorporated: R5w080046 R5w080026 R5w080036		0.0.2	0.0.3	
RAN5 #39	R5-081615			Following proposals and many editorial corrections have been incorporated: R5-081564, R5-081561, R5-081248, R5-081530, R5-081126, R5-081443, R5-081382, R5-081200		0.0.3	0.1.0	
RAN5 #39bis	R5-082141			Following proposals and many editorial corrections have been incorporated: R5-082149, "Updates of reference test conditions for TS 36.508" R5-082148, "Addition of E-UTRA TDD Test frequencies for TS36.508" R5-082150, "Default downlink signal channel powers for LTE UE test" R5-082146, "Addition of Cell Environment for multi Cell Configuration" R5-082140, "Proposal of LTE reference system configurations for TS 36.508" R5-082204, "Addition of Cell and UE configuration for TS 36.508" R5-082090, "Update of default RRC message contents" R5-082100, "Proposal on Structure of Default Message Contents for TS 36.508" R5-082091, "Addition of SRB and DRB radio bearer combinations to 36.508" R5-082173, "Connection Diagrams for TX and RX tests"		0.1.0	0.2.0	
RAN5 #40	R5-083399			Following proposals have been incorporated: R5-083800, "Mapping of DL physical channels to physical resources for TS 36.508", NEC R5-083403, "Addition of New Cell Environment for multi Cell Configuration", NTT DOCOMO R5-083529, "Proposal on default system information contents for TS 36.508", NTT DOCOMO R5-083395, "Corrections to generic procedures in TS 36.508", NTT DOCOMO R5-083623, "Update of RRC default message contents and RB combination parameters", Ericsson R5-083622, "Radio Resource Configuration specification for TS 36.508", NEC R5-083397, "Addition of Default NAS message contents in TS 36.508", NTT DOCOMO		0.2.0	1.0.0	
RAN5 #40bis	R5-084102			Following proposals have been incorporated: R5-084101, "Missing corrections to TS 36.508" R5-084110, "Updates of Test frequencies for TS 36.508" R5-084144, "The mapping of DL physical channels to physical resources for TS 36.508" R5-084198, "Update of RA and RB power ratios definition in TS 36.508" R5-084199, "Update of Reference System Configuration in 36.508" R5-084109, "Addition of default RRC message contents to TS 36.508" R5-084202, "Update of RRC Message Contents and RB Configurations in 36.508" R5-084265, "Addition of default RRC message contents for handover" R5-084162, "Connection Diagrams for performance		1.0.0	1.1.0	
RAN5	R5-085145		-	tests" Following proposals have been incorporated:		1.1.0	2.0.0	

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#41				R5-085087, "Updates of Test frequencies for TS 36.508" R5-085701, "Cleaning up section 5 in TS 36.508" R5-085252, "Correction to Section 4.3.3.2 of TS 36.508" R5-085315, "Connection Diagrams: delete the editorial note"				
				R5-085454, "Addition of timer tolerances" R5-085566, "Addition of default settings of suitable / non-suitable cells in TS 36.508" R5-085541, "Update to default configurations of simulated cells in TS 36.508" R5-085514, "Update to default configurations of system information blocks in TS 36.508" R5-085472, "Addition of default settings of suitable /				
				non-suitable cells in TS 36.508" R5-085394, "Update of Reference system configurations in 36.508" R5-085457, "Update to generic procedure in TS 36.508" R5-085458, "Addition of new generic procedure to check the UE does not answer to paging" R5-085523, "Update of default RRC message contents" R5-085381, "Addition to default RRC IE contents for measurement configuration"				
				R5-085469, "Update to default NAS message contents in TS 36.508" R5-085451, "Parameter settings for reference RB configurations" R5-085556, "Common test USIM parameters for EPS testing"				
RAN#4 2	RP-085145			Approval of version 2.0.0 at RAN#42, then updated to v 8.0.0. Editorial corrections.		2.0.0 8.0.0	8.0.0	
RAN5 #41bis	R5-086021	0001	-	Introduction of half cell configurations in eUTRA SS		8.0.1	8.1.0	
RAN5 #41bis	R5-086166	0002	-	Removal of Redundant Environmental Conditions		8.0.1	8.1.0	
RAN5 #41bis	R5-086221	0003	-	CR to 36.508: correction of EARFCN		8.0.1	8.1.0	
RAN5 #41bis	R5-086226	0004	-	Correction to the default system informations in TS 36.508		8.0.1	8.1.0	
RAN5 #41bis	R5-086236	0005	-	Connection diagrams for RRM		8.0.1	8.1.0	
RAN5 #41bis	R5-086346	0006	-	Update of the default message AUTHENTICATION FAILURE		8.0.1	8.1.0	
RAN5 #41bis	R5-086362	0007	-	update of reference configuration systems for CDMA2000 in 36.508		8.0.1	8.1.0	
RAN5 #41bis	R5-086363	8000	-	Updated of common and default parameters for CDMA2000 cells		8.0.1	8.1.0	
RAN5 #41bis	R5-086364	0009	-	Update of SystemInformationBlockType8 in 36.508		8.0.1	8.1.0	
RAN5 #41bis	R5-086369	0010	-	Addition of reference EPS bearer contexts		8.0.1	8.1.0	
RAN5 #41bis	R5-086370	0011	-	Mapping of default DL Physical Channels for TDD in 36.508		8.0.1	8.1.0	
RAN5 #41bis	R5-086400	0012	-	Addition of RS_EPRE powers to default DL signal levels		8.0.1	8.1.0	
RAN5 #42	R5-090084	0013	-	Test procedure to verify that an EPS bearer context is active		8.0.1	8.1.0	
RAN5 #42	R5-090362	0014	-	Correction to the definition of simulated NAS cells in TS 36.508		8.0.1	8.1.0	
RAN5 #42	R5-090464	0015	-	Clean up the test algorithm for authentication		8.0.1	8.1.0	
RAN5 #42	R5-090586	0016	-	Add specific information elements for RRC reconfiguration		8.0.1	8.1.0	
RAN5 #42	R5-090630	0017	-	Introduction of alternative DRX configurations		8.0.1	8.1.0	
RAN5 #42	R5-090681	0018	-	Correction to the default NAS message contents in TS 36.508		8.0.1	8.1.0	
RAN5 #42	R5-090682	0019	-	Correction to the definition of simulated cells in TS 36.508		8.0.1	8.1.0	
RAN5 #42	R5-090698	0020	-	Update of 4.5 generic procedures in 36.508		8.0.1	8.1.0	

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RAN5 #42	R5-090699	0021	-	TDD RTT correction for timer tolerance		8.0.1	8.1.0	
RAN5	R5-090759	0022	-	Correction to the default RRC message contents in TS		8.0.1	8.1.0	
#42 RAN5	R5-091000	0023	-	Correction to clause 4.3.3.3		8.0.1	8.1.0	
#42 RAN5	R5-091001	0024	-	LTE-RF: Clarification to 36.508 Simulated Cells for RF		8.0.1	8.1.0	
_	RP-090447	0025	-	tests Correction to Cell off power		8.1.0	8.2.0	R5-092086
#43 RAN5	RP-090447	0026	-	LTE Signalling Tests: UE Rx antenna connection		8.1.0	8.2.0	R5-092087
#43 RAN5	RP-090448	0027	-	CR to 36.508 for subclause 4.3.1 channel bandwidth		8.1.0	8.2.0	R5-092124
#43 RAN5	RP-090448	0028	-	clarification for RF tests (re-submit no changes) Text for 4.2.2: Minimum functional requirements		8.1.0	8.2.0	R5-092128
#43 RAN5	RP-090448	0029	-	Annex A: transition from 1 to 2 RX antenna		8.1.0	8.2.0	R5-092132
#43 RAN5	RP-090447	0030	-	Update of SN length in UM RLC default configuration		8.1.0	8.2.0	R5-092202
#43 RAN5	RP-090448	0031	-	TP for simulated UTRA TDD cell parameter		8.1.0	8.2.0	R5-092275
#43 RAN5	RP-090447	0032	-	Correction to specific message contents in setup		8.1.0	8.2.0	R5-092349
#43 RAN5	RP-090447	0033	-	procedure in TS 36.508 Correction to the definition of simulated NAS cells in TS		8.1.0	8.2.0	R5-092352
	RP-090447	0034	-	36.508 CR on 6.7 TDD Timer Tolerance in 36.508		8.1.0	8.2.0	R5-092363
#43 RAN5	RP-090448	0044	-	Update of 4.5.2A in 36.508 (Re-submit not change)		8.1.0	8.2.0	R5-092457
#43 RAN5	RP-090448	0035	-	Default value of q-RxLevMin for RF TCs		8.1.0	8.2.0	R5-092458
#43 RAN5	RP-090598	0045	-	CR to 36.508 Addition of test frequencies for band 18		8.1.0	8.2.0	R5-092535
#43 RAN5	RP-090447	0036	-	and band 19 Update of the default NAS message contents in TS		8.1.0	8.2.0	R5-092708
_	RP-090447	0037	-	36.508 Correction to reference radio bearer configurations		8.1.0	8.2.0	R5-092721
#43 RAN5	RP-090447	0038	-	Definition of default Test Control (TC) messages		8.1.0	8.2.0	R5-092734
#43 RAN5	RP-090448	0039	-	Modification of procedures in section 4.5.2.3 /4.5.2A		8.1.0	8.2.0	R5-092735
_	RP-090447	0040	-	Addition of default physical layer parameters		8.1.0	8.2.0	R5-092736
#43 RAN5 #43	RP-090447	0041	-	Correction to default RRC message contents		8.1.0	8.2.0	R5-092738
RAN5 #43	RP-090447	0042	-	Introduction in 36.508 of a common tracking/routing area update procedure for Idle mode and RRC connection release test cases		8.1.0	8.2.0	R5-092765
RAN5 #43	RP-090447	0043	-	Corrections to default system configurations in TS 36.508		8.1.0	8.2.0	R5-092773
RAN5 #43	RP-090447	0046	-	Max. resources for signalling test cases		8.1.0	8.2.0	R5-092723
-	- DD 000000	-	-	Editorial corrections and merging of all sections together		8.2.0	8.2.1	-
RAN5 #44	RP-090802	0047	-	Correction to the default value of ul-Bandwidth in TS 36.508	F	8.2.1	8.3.0	R5-094059
RAN5 #44	RP-090802	0048	-	UTRAN SIB scheduling for LTE interRAT test	F	8.2.1	8.3.0	R5-094072
RAN5 #44	RP-090802	0049	-	Correction to the default NAS message contents	F	8.2.1	8.3.0	R5-094141
RAN5 #44	RP-090802	0050	-	TDD fields in default physical layer parameters	F	8.2.1	8.3.0	R5-094279
RAN5 #44	RP-090802	0051	-	Addition of UTRA reference radio bearer parameters and GERAN reference PDP context parameters for E-	F	8.2.1	8.3.0	R5-094304
RAN5	RP-090801	0052	-	UTRA Inter-RAT testing System information scheduling for RF testing	F	8.2.1	8.3.0	R5-094311
#44 RAN5	RP-090801	0053	-	Connection for 1 cell with antenna configuration 1x2 in	F	8.2.1	8.3.0	R5-094364
#44 RAN5	RP-090801	0054	-	static propagation conditions Correction to 4.3.1.2.5 TDD reference test frequencies	F	8.2.1	8.3.0	R5-094373
#44 RAN5	RP-090801	0055	-	for Operating Band 37 LTE RF: Physical Layer configurations for RF/RRM	F	8.2.1	8.3.0	R5-094421

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#44				testing				
RAN5 #44	RP-090802	0056	-	Update of SN length in PDCP default configuration	F	8.2.1	8.3.0	R5-094533
RAN5 #44	RP-090802	0057	-	Corrections to default RRC message and IE contents	F	8.2.1	8.3.0	R5-094639
RAN5 #44	RP-090801	0058	-	Update of TDD reference test frequencies for operating band 40	F	8.2.1	8.3.0	R5-094786
	RP-090810	0059	-	TDD special subframe pattern update	F	8.2.1	8.3.0	R5-094901
RAN5 #44	RP-090802	0060	-	corrections to reference RB configurations	F	8.2.1	8.3.0	R5-095064
	RP-090802	0061	-	Correction of test procedure 6.4.2.7 in TS 36.508	F	8.2.1	8.3.0	R5-095093
	RP-090802	0062	-	Adding new elementary files to the default USIM settings	F	8.2.1	8.3.0	R5-095100
	RP-090802	0063	-	Correction to the Test procedure to check RRC_IDLE state	F	8.2.1	8.3.0	R5-095102
RAN5 #44	RP-090802	0064	-	Introduction of UE mode of operation into NAS default message contents	F	8.2.1	8.3.0	R5-095138
RAN5 #44	RP-090802	0065	-	TDD ACK/NACK feedback mode update	F	8.2.1	8.3.0	R5-095152
	RP-090802	0066	-	Corrections to default signal levels	F	8.2.1	8.3.0	R5-095206
	RP-090802	0067		Update to default messages in regard to IP address allocation	F	8.2.1	8.3.0	R5-095218
	RP-091121	0068	-	Correction to 4.3.1.2.6 TDD reference test frequencies for Operating Band 38	F	8.3.0	8.4.0	R5-095486
	RP-091121	0069	-	Correction CR to 36.508: Set the default parameter for offsetFreq in MeasObjectGERAN Information Element	F	8.3.0	8.4.0	R5-095514
	RP-091470	0070	-	Addition of HSPA UTRA reference radio bearer parameters for E-UTRA Inter-RAT testing	F	8.3.0	8.4.0	R5-095555
RAN5 #45	RP-091122	0071	-	Introduction of RS power boosting to reduce interference	F	8.3.0	8.4.0	R5-095594
	RP-091122	0072	-	Corrections to default RRC message contents	F	8.3.0	8.4.0	R5-095651
RAN5 #45	RP-091122	0073	-	Clarification for Cell Configuration Identifiers in 36.508	F	8.3.0	8.4.0	R5-096005
RAN5 #45	RP-091122	0074	-	Correction to the generic procedure for IP allocation and more	F	8.3.0	8.4.0	R5-096114
RAN5 #45	RP-091122	0075		Addition of new generic procedure for TAU after inter- RAT HO from UTRA	F	8.3.0	8.4.0	R5-096115
	RP-091122	0076	-	Update of header chapter 5.2 in 36.508	F	8.3.0	8.4.0	R5-096202
RAN5 #45	RP-091122	0077	-	Correction to the default NAS message contents	F	8.3.0	8.4.0	R5-096403
RAN5 #45	RP-091122	0078	-	cell frequency allocation	F	8.3.0	8.4.0	R5-096440
	RP-091122	0079	-	Correction for IP address allocation	F	8.3.0	8.4.0	R5-096447
RAN5 #45	RP-091122	0800		LAI and TMSI in ATTACH ACCEPT and TAU ACCEPT messages	F	8.3.0	8.4.0	R5-096449
RAN5 #45	RP-091122	0081	-	Addition of generic procedure for IP address allocation / configuration in U-plane	F	8.3.0	8.4.0	R5-096455
RAN5 #45	RP-091122	0082	-	Correction of test procedures in TS 36.508	F	8.3.0	8.4.0	R5-096456
#45	RP-091122	0083	-	Update of MAC configuration for disabling PHR and BSR for L2 test cases	F	8.3.0	8.4.0	R5-096458
RAN5 #45	RP-091122	0084	-	Addition of default UTRA message contents to TS 36.508	F	8.3.0	8.4.0	R5-096461
RAN5 #45	RP-091122	0085	-	Clarification to the mapping of GERAN cells and the default parameter values	F	8.3.0	8.4.0	R5-096462
	RP-091122	0086	-	Correction of TFTs for reference dedicated EPS bearer contexts	F	8.3.0	8.4.0	R5-096464
RAN5 #45	RP-091122	0087	-	Cleanup of default NAS message contents	F	8.3.0	8.4.0	R5-096465
	RP-091122	0088	-	LTE-Sig: Assignment of different rootSequenceIndex for cells at the same frequency	F	8.3.0	8.4.0	R5-096641
	RP-100143	0089	-	Correction of SIB19 scheduling position in the neighbouring UTRA cell	F	8.4.0	8.5.0	R5-100086
RAN5 #46	RP-100143	0091	_	Correction of Quantity Configuration for EUTRA	F	8.4.0	8.5.0	R5-100110

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	RP-100143	0092	-	Correction for the offset value of RSRP in EUTRA	F	8.4.0	8.5.0	R5-100111
	RP-100143	0093	-	SIB10 and SIB11 periodicity	F	8.4.0	8.5.0	R5-100112
RAN5 #46	RP-100143	0094	-	Assignment of rootSequenceIndex for simulated NAS cells in different PLMNs	F	8.4.0	8.5.0	R5-100260
RAN5 #46	RP-100143	0095	-	Editorial correction to the default value of 'p-a'	F	8.4.0	8.5.0	R5-100261
#46	RP-100142	0096	-	New chapter: Test environment for RRM tests	F	8.4.0	8.5.0	R5-100396
RAN5 #46	RP-100143	0097	-	Remove UM in DRB reconfiguration	F	8.4.0	8.5.0	R5-100487
RAN5 #46	RP-100143	0098	-	Addition of default power allocation for two TX antennas	F	8.4.0	8.5.0	R5-100518
RAN5 #46	RP-100143	0099	-	Correction to TFT parameters used in ACTIVATE DEDICATED EPS BEARER CONTEXT REQUEST message	F	8.4.0	8.5.0	R5-100771
RAN5 #46	RP-100143	0100	-	Update to RRC common messages for support of test cases for MIMO	F	8.4.0	8.5.0	R5-100786
	RP-100152	0101	-	Adding band 20 in 36.508	F	8.4.0	8.5.0	R5-100846
	RP-100154	0102	-	CR to 36.508: Update test frequencies with extended LTE1500 operating bands	F	8.4.0	8.5.0	R5-100847
	RP-100143	0103	-	Defining default message contents for ATTACH/TAU REQUEST/ACCEPT messages according to UE capability	F	8.4.0	8.5.0	R5-101021
RAN5 #46	RP-100143	0104	-	Limitation of simultaneous co-existence of intra-freq cells to reduce interference	F	8.4.0	8.5.0	R5-101029
	RP-100143	0105	-	An additional option for IP address allocation in test cases using UE test mode	F	8.4.0	8.5.0	R5-101045
	RP-100143	0106	-	Specify default UL NAS check	F	8.4.0	8.5.0	R5-101051
	RP-100143	0107	-	Correct default requirement for some mandatory information elements	F	8.4.0	8.5.0	R5-101052
	RP-100142	0108	-	Addition of Tracking area updating procedure	F	8.4.0	8.5.0	R5-101136
	RP-100143	0109	-	Clarification of Security Protection for NAS Messages	F	8.4.0	8.5.0	R5-101147
	RP-100143	0110	-	Update to layer 2 UM test cases to increase the drx- Inactivity Timer to psf200	F	8.4.0	8.5.0	R5-101178
RAN5 #46	RP-100143	0111	-	Addition of new generic procedure for bearer establishment for MO call.	F	8.4.0	8.5.0	R5-101187
RAN5 #46	RP-100143	0112	-	update of default bandwidth configuration for signalling	F	8.4.0	8.5.0	R5-101207
RP#47	-	-	-	Moved to v9.0.0 with no change	-	8.5.0	9.0.0	-
RP#48	RP-100510	0143	-	Clarification of security protection when NAS security mode procedure has taken place outside of a TC sequence	F	9.0.0	9.1.0	R5-103085
RP#48	RP-100523	0113	-	CR to 36.508: Update of EARFCN for band 21	F	9.0.0	9.1.0	R5-103101
RP#48	RP-100510	0114	-	Correction to the default message contents of EXTENDED SERVICE REQUEST	F	9.0.0	9.1.0	R5-103128
RP#48	RP-100510	0115	-	Removal of unrealistic network behaviour from generic procedures	F	9.0.0	9.1.0	R5-103223
RP#48	RP-100510	0116	-	Correction of table numbers in clause 6.2.3.1	F	9.0.0	9.1.0	R5-103232
RP#48	RP-100510	0117	-	Correction to default values for PhysicalConfigDedicated and MIMO	F	9.0.0	9.1.0	R5-103287
RP#48	RP-100510	0118	-	Correction to SR-ConfigIndex for LTE TDD signalling test cases	F	9.0.0	9.1.0	R5-103290
RP#48	RP-100510	0119	-	Correction to MME Group ID to set MSB to 1	F	9.0.0	9.1.0	R5-103298
RP#48	RP-100500	0144	-	Connection diagram for test 8.11.2 (3 cells)	F	9.0.0	9.1.0	R5-103311
RP#48	RP-100510	0120	-	New combination of system information blocks for CSG Cell in TS 36.508	F	9.0.0	9.1.0	R5-103363
RP#48	RP-100510	0121	-	Clarification of security protection for detach request message	F	9.0.0	9.1.0	R5-103368
RP#48	RP-100510	0122	-	Corrections to cell numbers for 3GPP2 Inter-RAT network scenarios	F	9.0.0	9.1.0	R5-103374

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	RP-100510	0140	-	Clarification to default message content for Modify EPS Bearer Context Request message	F	9.0.0	9.1.0	R5-103625
RP#48	RP-100510	0141	-	Clarification to default message content for RRC Connection Reconfiguration message	F	9.0.0	9.1.0	R5-103626
RP#48	RP-100524	0123	-	Addition of WLAN test cell	F	9.0.0	9.1.0	R5-103647
RP#48	RP-100524	0124	-	Addition of default message contents for mobility management based on DSMIPv6 testing	F	9.0.0	9.1.0	R5-103648
RP#48	RP-100510	0125	-	Update default message contents for EPS attach conditions	F	9.0.0	9.1.0	R5-103673
RP#48	RP-100510	0126	-	Update default message with network support for IMS voice	F	9.0.0	9.1.0	R5-103674
RP#48	RP-100510	0127	-	Correction to Generic Test Procedure in TS 36.508	F	9.0.0	9.1.0	R5-103675
RP#48	RP-100510	0128	-	Default settings of suitable - non-suitable cells for UTRAN/GERAN	F	9.0.0	9.1.0	R5-103677
RP#48	RP-100510	0129	-	Correction to IE schedulingRequestConfig during Handover	F	9.0.0	9.1.0	R5-103678
RP#48	RP-100510	0130	-	Update generic procedures for IMS	F	9.0.0	9.1.0	R5-103679
RP#48	RP-100510	0131	-	Aligning E-UTRAN USIM parameters for multi-RAT devices	F	9.0.0	9.1.0	R5-103680
RP#48	RP-100510	0132	-	Adding Additional Update Result handling to the default messages	F	9.0.0	9.1.0	R5-103681
RP#48	RP-100509	0133	-	Connection diagram update for intra-freq measurement with phase rotator	F	9.0.0	9.1.0	R5-103770
RP#48	RP-100509	0134	-	Update of default bandwidth configuration for Signalling for Band 38	F	9.0.0	9.1.0	R5-103813
RP#48	RP-100524	0135	-	Addition of generic procedures for mobility management based on DSMIPv6 testing	F	9.0.0	9.1.0	R5-103858
RP#48	RP-100510	0136	-	Addition of new generic procedure for MO SMS over SGs and clarifications	F	9.0.0	9.1.0	R5-103869
RP#48	RP-100510	0137	-	Addition of generic procedures for HRPD and 1xRTT pre-registration	F	9.0.0	9.1.0	R5-103870
RP#48	RP-100510	0138	-	Introduction of reference information for test case postambles	F	9.0.0	9.1.0	R5-103875
RP#48	RP-100509	0139	-	Physical layer parameter correction to DCI formats used in RF tests	F	9.0.0	9.1.0	R5-103885
RP#49	RP-100812	0145	-	Update of tested channel bandwidths for Bands 13, 14 and 17	F	9.1.0	9.2.0	R5-104089
RP#49	RP-100816	0146	-	Correction to remove special configurations for UM Bearer test cases	F	9.1.0	9.2.0	R5-104106
RP#49	RP-100816	0147	-	Clarification to the procedure: UE triggered establishment of a default EPS bearer context associated with an additional PDN	F	9.1.0	9.2.0	R5-104128
RP#49	RP-100816	0148	-	Correction to Inter-frequency carrier frequency list in SIB5 and E-UTRA carrier frequency list in SIB19	F	9.1.0	9.2.0	R5-104169
RP#49	RP-100816	0149	-	Update of 6.2.3 of 36.508 - description of default frequency for the single cell signalling test	F	9.1.0	9.2.0	R5-104220
RP#49	RP-100831	0150	-	Update of default message contents for DSMIPv6 testing	F	9.1.0	9.2.0	R5-104392
RP#49	RP-100837	0151	-	Addition of UE test state model for HRPD	F	9.1.0	9.2.0	R5-104454
RP#49	RP-100812	0152	-	Correction to Qrxlevmin in SIB 1 for RF and RRM	F	9.1.0	9.2.0	R5-104503
RP#49	RP-100816	0153	-	Specification of HRPD specific values in SIB8	F	9.1.0	9.2.0	R5-104547
RP#49	RP-100816	0154	-	Update of default bandwidth configuration for signalling	F	9.1.0	9.2.0	R5-104685
RP#49	RP-100816	0155	-	Clarification to packet filter identifier and precedence in TFT	F	9.1.0	9.2.0	R5-104702
RP#49	RP-100816	0156	-	Add P-CSCF method II for IMS	F	9.1.0	9.2.0	R5-104703
RP#49	RP-100816	0157	-	Update generic procedures for IMS	F	9.1.0	9.2.0	R5-104704
RP#49	RP-100816	0158	-	Correction of clause 4.3.3.4	F	9.1.0	9.2.0	R5-104705
RP#49	RP-100816	0159	-	Correction to Downlink Frequency for N_DL 4850	F	9.1.0	9.2.0	R5-104706
RP#49	RP-100816	0160	-	Default message contents for UTRAN and GERAN	F	9.1.0	9.2.0	R5-104707

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	RP-100812	0161	-	Addition of the new connection diagram for the CSI test case	F	9.1.0	9.2.0	R5-104884
RP#49	RP-100816	0162	-	Correction to reference end states	F	9.1.0	9.2.0	R5-105003
RP#49	RP-100837	0163	-	Correction for Timer Tolerances	F	9.1.0	9.2.0	R5-105050
RP#49	RP-100885	0165	-	Introduction of default message contents for HRPD overhead messages	F	9.1.0	9.2.0	-
GP#49	GP-101743	0166	-	Update of Common parameters for simulated GERAN cells for supporting GERAN-EUTRAN Inter-RAT cell reselection	F	9.2.0	9.3.0	GP-101743
RP#50	RP-101138	0167	-	MBSFN configuration for RRM tests using E-UTRA FDD cells	F	9.2.0	9.3.0	R5-106070
RP#50	RP-101155	0169	-	CR to 36.508: Update test frequencies for EUTRA TDD LTE band 41.	F	9.2.0	9.3.0	R5-106105
RP#50	RP-101142	0168	-	CR to 36.508: Correction to HRPD Overhead messages (subclause 4.4.7.1)	F	9.2.0	9.3.0	R5-106116
RP#50	RP-101142	0170	-	Addition of test frequencies for LTE-C2k interworking test cases	F	9.2.0	9.3.0	R5-106298
RP#50	RP-101142	0172	-	Addition of UTRA reference radio parameters and combination for PS RB and Speech	F	9.2.0	9.3.0	R5-106383
RP#50	RP-101142	0175	-	Correction to EUTRA carrier frequency list in SIB19	F	9.2.0	9.3.0	R5-106421
RP#50	RP-101142	0171	-	Correction to the IDENTITY RESPONSE (with IMSI) message	F	9.2.0	9.3.0	R5-106551
RP#50	RP-101142	0178	-	Correction for DRX offset start time	F	9.2.0	9.3.0	R5-106552
RP#50	RP-101142	0177	=	Correction of specific message content for generic procedures (state 2 and state 2A)	F	9.2.0	9.3.0	R5-106596
RP#50	RP-101138	0180	-	LTE-RF state 3A	F	9.2.0	9.3.0	R5-106597
RP#50	RP-101142	0176	-	Correction to security protection header for Identity Request message	F	9.2.0	9.3.0	R5-106611
RP#50	RP-101142	0173	-	Addition of new system information combinations	F	9.2.0	9.3.0	R5-106616
RP#50	RP-101142	0174	-	Remove SS requirement for IMS in UTRA	F	9.2.0	9.3.0	R5-106690
RP#50	RP-101159	0179	=	Corrections to default settings for Elementary Files (EFs) on Test USIM	F	9.2.0	9.3.0	R5-106819
RP#50	RP-101138	0181	-	Update of the RF exceptional RRC message	F	9.2.0	9.3.0	R5-106820
RP#51	RP-110161	0182	-	Update of HRPD overhead message parameters AccessSignature, SectorSignature	F	9.3.0	9.4.0	R5-110069
RP#51	RP-110161	0183	-	Add a new eUTRA sub-end state E2_T3440	F	9.3.0	9.4.0	R5-110105
RP#51	RP-110161	0184	-	Correction for NAS message NOTE	F	9.3.0	9.4.0	R5-110229
RP#51	RP-110161	0185	-	Addition of CSIM default contents	F	9.3.0	9.4.0	R5-110331
RP#51	RP-110161	0186	=	Update of Table 4.4.2-1 with HRPD/1xRTT frequency range info	F	9.3.0	9.4.0	R5-110332
RP#51	RP-110157	0187	-	Update of the RF exceptional RRC message	F	9.3.0	9.4.0	R5-110410
RP#51	RP-110161	0188	-	Editorial correction for IMS signalling	F	9.3.0	9.4.0	R5-110433
RP#51	RP-110161	0189	-	Correction to SIB combinations related to HeNB Cells	F	9.3.0	9.4.0	R5-110471
RP#51	RP-110161	0190	-	Correction to default message content for Detach Request message	F	9.3.0	9.4.0	R5-110472
RP#51	RP-110157	0191	-	Removal of Lower Humidity Limit in Normal Conditions	F	9.3.0	9.4.0	R5-110534

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RP#51	RP-110157	0192	-	Correction of EARFCN numbers for band 41	F	9.3.0	9.4.0	R5-110542
RP#51	RP-110161	0193	-	Removal of "Modified contents of the EFs at the ISIM ADF (application DF) level"	F	9.3.0	9.4.0	R5-110593
RP#51	RP-110161	0194	=	Correction of the IEs for compressed mode in table 4.7B.1-5	F	9.3.0	9.4.0	R5-110601
RP#51	RP-110161	0195	=	Update to default message content for TRACKING AREA UPDATE REQUEST message	F	9.3.0	9.4.0	R5-110703
RP#51	RP-110161	0196	-	Add default APN for IMS	F	9.3.0	9.4.0	R5-110708
RP#51	RP-110161	0197	-	Introduction of over head messages for CDMA2000 1XRTT	F	9.3.0	9.4.0	R5-110710
RP#51	RP-110161	0198	-	Addition of default SMS over SGs message contents	F	9.3.0	9.4.0	R5-110875
RP#51	RP-110161	0199	-	Correction to 'Test procedure to check that UE is camped on E-UTRAN cell upon mobility from another RAT'	F	9.3.0	9.4.0	R5-110746
RP#51	RP-110161	0200	-	Correction of frequency allocations	F	9.3.0	9.4.0	R5-110788
RP#51	RP-110161	0201	-	Update of Reference packet filters contents	F	9.3.0	9.4.0	R5-110789
RP#51	RP-110157	0202	-	Correction to FDD Reference Test Frequencies for Operating Band 12	F	9.3.0	9.4.0	R5-110846
RP#51	RP-110157	0203	-	LTE RF: state 3A-RF update	F	9.3.0	9.4.0	R5-110937
RP#51	RP-110172	0204	-	Add test frequencies for bands 42, 43 (3500MHz)	F	9.3.0	9.4.0	R5-110968
RP#52	RP-110647	0205	=	Correction to default message content of LOCATION UPDATING REQUEST message	F	9.4.0	9.5.0	R5-112114
RP#52	RP-110647	0206	-	Correction to default message content of TRACKING AREA UPDATE REQUEST message	F	9.4.0	9.5.0	R5-112120
RP#52	RP-110643	0207	-	PRACH-Config-DEFAULT for RF-tests TDD: Correction to derivation path	F	9.4.0	9.5.0	R5-112146
RP#52	RP-110643	0208	=	Correction to connection diagram for CQI with uneven interference test (A.21)	F	9.4.0	9.5.0	R5-112147
RP#52	RP-110647	0209	-	Update to Common contents of system information blocks	F	9.4.0	9.5.0	R5-112161
RP#52	RP-110647	0210	-	Addition of missing labels in Figure 4.5.1-1	F	9.4.0	9.5.0	R5-112278
RP#52	RP-110647	0211	-	Corrections to Table 4.3.7-6	F	9.4.0	9.5.0	R5-112279
RP#52	RP-110647	0212	-	Update of CSIM default contents	F	9.4.0	9.5.0	R5-112285
RP#52	RP-110660	0213	-	Add emergency bearer support	F	9.4.0	9.5.0	R5-112289
RP#52	RP-110667	0214	-	Band 24 Addition to TS 36.508	F	9.4.0	9.5.0	R5-112381
RP#52	RP-110643	0215	-	New connection diagrams to Annex A	F	9.4.0	9.5.0	R5-112458
RP#52	RP-110647	0216	=	Correction to Derivation Path for RB Setup on UTRA side (condition UTRA PS RB)	F	9.4.0	9.5.0	R5-112571
RP#52	RP-110647	0217	-	Update APN check at attach	F	9.4.0	9.5.0	R5-112598
RP#52	RP-110647	0218	-	Update of SIB7 default message contents	F	9.4.0	9.5.0	R5-112599
RP#52	RP-110647	0219	-	Clarification to conditions for IP address configuration over user plane	F	9.4.0	9.5.0	R5-112600
RP#52	RP-110666	0220	-	Introduction of UE Test Loop Mode C for LTE MBMS testing	F	9.4.0	9.5.0	R5-112675

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	RP-110647	0222	-	Update 36.508 QoS definition for InterRat test cases	F	9.4.0	9.5.0	R5-112698
RP#52	RP-110666	0221	-	Addition of some MBMS related message definitions in TS36.508	F	9.4.0	9.5.0	R5-112748
RP#52	RP-110647	0223	-	Introduction of generic CS fall back procedures for UTRAN and GERAN	F	9.4.0	9.5.0	R5-112751
RP#52	RP-110643	0224	-	Default Bandwidth Configuration for RF Testing	F	9.4.0	9.5.0	R5-112760
RP#52	RP-110643	0225	-	Update for PRACH-Config-DEFAULT for the default TDD RRM message	F	9.4.0	9.5.0	R5-112872
RP#52	RP-110647	0205	-	Correction to default message content of LOCATION UPDATING REQUEST message	F	9.4.0	9.5.0	R5-112114
RP#52	RP-110647	0206	-	Correction to default message content of TRACKING AREA UPDATE REQUEST message	F	9.4.0	9.5.0	R5-112120
RP#52	RP-110643	0207	-	PRACH-Config-DEFAULT for RF-tests TDD: Correction to derivation path	F	9.4.0	9.5.0	R5-112146
RP#52	RP-110643	0208	-	Correction to connection diagram for CQI with uneven interference test (A.21)	F	9.4.0	9.5.0	R5-112147
RP#52	RP-110647	0209	-	Update to Common contents of system information blocks	F	9.4.0	9.5.0	R5-112161
RP#52	RP-110647	0210	-	Addition of missing labels in Figure 4.5.1-1	F	9.4.0	9.5.0	R5-112278
RP#52	RP-110647	0211	-	Corrections to Table 4.3.7-6	F	9.4.0	9.5.0	R5-112279
RP#52	RP-110647	0212	-	Update of CSIM default contents	F	9.4.0	9.5.0	R5-112285
RP#52	RP-110660	0213	-	Add emergency bearer support	F	9.4.0	9.5.0	R5-112289
RP#52	RP-110667	0214	-	Band 24 Addition to TS 36.508	F	9.4.0	9.5.0	R5-112381
RP#52	RP-110643	0215	-	New connection diagrams to Annex A	F	9.4.0	9.5.0	R5-112458
RP#52	RP-110647	0216	-	Correction to Derivation Path for RB Setup on UTRA side (condition UTRA PS RB)	F	9.4.0	9.5.0	R5-112571
RP#52	RP-110647	0217	-	Update APN check at attach	F	9.4.0	9.5.0	R5-112598
RP#52	RP-110647	0218	-	Update of SIB7 default message contents	F	9.4.0	9.5.0	R5-112599
RP#52	RP-110647	0219	-	Clarification to conditions for IP address configuration over user plane	F	9.4.0	9.5.0	R5-112600
RP#52	RP-110647	0222	-	Update 36.508 QoS definition for InterRat test cases	F	9.4.0	9.5.0	R5-112698
RP#52	RP-110666	0221	-	Addition of some MBMS related message definitions in TS36.508	F	9.4.0	9.5.0	R5-112748
RP#52	RP-110647	0223	-	Introduction of generic CS fall back procedures for UTRAN and GERAN	F	9.4.0	9.5.0	R5-112751
RP#52	RP-110643	0224	-	Default Bandwidth Configuration for RF Testing	F	9.4.0	9.5.0	R5-112760
RP#52	RP-110643	0225	-	Update for PRACH-Config-DEFAULT for the default TDD RRM message	F	9.4.0	9.5.0	R5-112872
RP#53	RP-111138	0226	-	Correction for generic CS fallback procedures for UTRAN	F	9.5.0	9.6.0	R5-113033
RP#53	RP-111138	0227	-	Correction to paging test procedure	F	9.5.0	9.6.0	R5-113163
RP#53	RP-111138	0228	-	Deletion of 'EPSOnlyAttachForced' in common part	F	9.5.0	9.6.0	R5-113195
RP#53	RP-111135	0229	-	Deletion of 'EPSOnlyAttachForced' in RF part	F	9.5.0	9.6.0	R5-113213

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RP#53	RP-111135	0230	-	Correction to PhysicalConfigDedicated-DEFAULT for HO case	F	9.5.0	9.6.0	R5-113450
RP#53	RP-111138	0231	-	Addition of the 'Expanded 1900 MHz band' as operating band 25 to TS 36.508	F	9.5.0	9.6.0	R5-113500
RP#53	RP-111153	0232	-	Band 24 Details for Signalling part of 36.508	F	9.5.0	9.6.0	R5-113521
RP#53	RP-111138	0233	-	Add new SI combination	F	9.5.0	9.6.0	R5-113658
RP#53	RP-111138	0234	-	Update of HRPD/1xRTT test frequencies, pre- registration procedures and message contents	F	9.5.0	9.6.0	R5-113659
RP#53	RP-111138	0235	-	Correction to test procedures specific message contents	F	9.5.0	9.6.0	R5-113660
RP#53	RP-111138	0236	-	Correction to 'Test procedure to check that UE is camped on E-UTRAN cell upon mobility from another RAT'	F	9.5.0	9.6.0	R5-113661
RP#53	RP-111138	0237	-	Correction for the default NAS message contents	F	9.5.0	9.6.0	R5-113662
RP#53	RP-111138	0238	-	Update UTRA RRC messages	F	9.5.0	9.6.0	R5-113663
RP#53	RP-111138	0239	-	Update UTRA NAS messages	F	9.5.0	9.6.0	R5-113664
RP#53	RP-111138	0240	-	Addition of default GERAN message PS HANDOVER COMMAND	F	9.5.0	9.6.0	R5-113665
RP#53	RP-111138	0241	-	Update test procedure 6.4.3.7.6	F	9.5.0	9.6.0	R5-113666
RP#53	RP-111138	0242	-	Update test procedure 6.4.3.7.5	F	9.5.0	9.6.0	R5-113667
RP#53	RP-111155	0243	-	Update test frequencies for FDD LTE Band 23 in 36.508	F	9.5.0	9.6.0	R5-113749
RP#53	RP-111138	0244	-	Correction on the IE ReportConfigEUTRA-PERIODICAL definition	F	9.5.0	9.6.0	R5-113751
RP#53	RP-111148	0245	-	Correction to TS36.508 subclause 4.6.1	F	9.5.0	9.6.0	R5-113761
RP#53	RP-111145	0246	-	Combined parallel procedures between EUTRA/EPC and IMS emergency call	F	9.5.0	9.6.0	R5-113801
RP#53	RP-111135	0247	-	RF/RRM State 3A-RF: Editors note	F	9.5.0	9.6.0	R5-114037
RP#54	RP-111579	0248	-	Correction of the default message contents of Transaction Identifiers in Activate Default EPS Bearer Context and Activate Dedicated EPS Bearer Context messages	F	9.6.0	9.7.0	R5-115091
RP#54	RP-111596	0250	-	Adding band 22 (3500MHz FDD) to 36.508	F	9.6.0	9.7.0	R5-115185
RP#54	RP-111579	0251	-	Update of UE Registration pre-registration on 1xRTT registrationPeriod	F	9.6.0	9.7.0	R5-115264
RP#54	RP-111579	0252	-	Update UTRA RRC message for handover to UTRAN	F	9.6.0	9.7.0	R5-115533
RP#54	RP-111579	0253	-	Add reference default EPS bearer context for QCI 5	F	9.6.0	9.7.0	R5-115537
RP#54	RP-111579	0254	-	Correction of EPS Bearer Contexts	F	9.6.0	9.7.0	R5-115585
RP#54	RP-111579	0255	-	Correction to ESM default messages	F	9.6.0	9.7.0	R5-115618
RP#54	RP-111579	0256	-	Introduction of Combined Generic test procedure for IMS Speech call	F	9.6.0	9.7.0	R5-115619
RP#54	RP-111576	0257	-	default band configuration for RF testing in band 25	F	9.6.0	9.7.0	R5-115633
RP#54	RP-111579	0258	_	Complete the system configuration for dual mode network scenario	F	9.6.0	9.7.0	R5-115694
RP#54	RP-111579	0259	-	Correction to IE PhysicalConfigDedicated-DEFAULT definition in Table 4.8.2.1.6-1	F	9.6.0	9.7.0	R5-115696

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RP#54	RP-111579	0260	-	Updates for 1xRTT pre-registration scenario	F	9.6.0	9.7.0	R5-115708
RP#54	RP-111579	0261	-	Update of UE 1xRTT registrationPeriod in SystemInformationBlock type8	F	9.6.0	9.7.0	R5-115750
RP#54	RP-111579	0262	-	Correction to 1xRTT Overhead Message contents	F	9.6.0	9.7.0	R5-115791
RP#55	RP-120176	0263	-	Correction to measurement control and report in default UTRA message	F	9.7.0	9.8.0	R5-120311
RP#55	RP-120176	0264	-	Update of E-UTRAN_QRXLEVMIN in SIB19 and SI2 Quater	F	9.7.0	9.8.0	R5-120312
RP#55	RP-120176	0265	-	Update of RF Reference system configurations	F	9.7.0	9.8.0	R5-120313
RP#55	RP-120179	0266	-	Correction of Physical Layer configurations	F	9.7.0	9.8.0	R5-120497
RP#55	RP-120179	0267	-	Correction of E2_T3440 state definition	F	9.7.0	9.8.0	R5-120566
RP#55	RP-120179	0268	-	Correction of default PCO value in some ESM messages	F	9.7.0	9.8.0	R5-120572
RP#55	RP-120179	0269	-	Correction to the default message content of GERAN carrier frequency group list for E-UTRA cells	F	9.7.0	9.8.0	R5-120604
RP#55	RP-120179	0270	-	Update of SystemInformationBlockType1	F	9.7.0	9.8.0	R5-120616
RP#55	RP-120179	0271	-	Update the default configuration of channel bandwidth for Band 39 for signalling testing	F	9.7.0	9.8.0	R5-120617
RP#55	RP-120179	0272	-	Correction for UE pre-registration on CDMA2000 system	F	9.7.0	9.8.0	R5-120618
RP#55	RP-120179	0273	-	Update to Reference default EPS bearer context #2	F	9.7.0	9.8.0	R5-120619
RP#55	RP-120179	0274	-	Correction to the default (UTRA) Physical Channel Reconfiguration message	F	9.7.0	9.8.0	R5-120620
RP#55	RP-120179	0275	-	Correction of default measurement gap offset	F	9.7.0	9.8.0	R5-120621
RP#55	RP-120179	0276	-	Correction to carrier bandwidth	F	9.7.0	9.8.0	R5-120677
RP#55	RP-120192	0277	-	Update generic procedure 4.5A.4	F	9.7.0	9.8.0	R5-120693
RP#55	RP-120192	0278	-	Update generic procedure 4.5A.5	F	9.7.0	9.8.0	R5-120694
RP#55	RP-120200	0280	-	Addition of the default value of Carrier Aggregation parameters	F	9.7.0	9.8.0	R5-120726
RP#55	RP-120179	0282	-	Correction of UE Release in UE capability	F	9.7.0	9.8.0	R5-120752
RP#55	RP-120179	0283	-	Introduction of generic test procedure for SRVCC call handover to UTRA	F	9.7.0	9.8.0	R5-120753
RP#55	RP-120179	0284	-	Correction to test procedure sequence 6.4.2.7A for check that UE is camped on E-UTRAN cell upon mobility from another RAT	F	9.7.0	9.8.0	R5-120754
RP#55	RP-120179	0285	-	Addition of Default UTRA RRC Connection Request message	F	9.7.0	9.8.0	R5-120756
RP#55	RP-120176	0286	-	TS 36.508: Band 23 test frequencies correction	F	9.7.0	9.8.0	R5-120800
RP#55	RP-120179	0287	-	Remove IPv4viaNAS_TestMode	F	9.7.0	9.8.0	R5-120908
RP#55	GP-120009	0288	-	Section 4.4.5 Common parameters for simulated GERAN cells – Correction to SI2 Quarter	F	9.7.0	9.8.0	GP-120009
RP#55	RP-120203	0279	-	Addition of two MBMS counting related messages in TS 36.508	F	9.8.0	10.0.0	R5-120723
RP#55	RP-120199	0281	-	Introduction of new RRC default messages for Rel-10	F	9.8.0	10.0.0	R5-120737

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				and MDT				
RP#56	RP-120644	0290	=	Correction of power ratio allocation on PDSCH for common logical channels	F	10.0.0	10.1.0	R5-121089
RP#56	RP-120644	0291	=	Correction to default mobilityParameters message contents	F	10.0.0	10.1.0	R5-121121
RP#56	RP-120644	0292	-	Corrections to default overhead messages for HRPD	F	10.0.0	10.1.0	R5-121122
RP#56	RP-120644	0293	-	Corrections to default overhead messages for 1xRTT	F	10.0.0	10.1.0	R5-121123
RP#56	RP-120644	0294	-	Update of CSFBParametersRequest/ResponseCDMA2000 process in Registration	F	10.0.0	10.1.0	R5-121276
RP#56	RP-120641	0295	-	RRM: Definition of parameters for simulated GSM cells	F	10.0.0	10.1.0	R5-121357
RP#56	RP-120662	0296	-	SIB Combination for CA test scenarios	F	10.0.0	10.1.0	R5-121383
RP#56	RP-120644	0297	-	Addition of default value of RSRQ Cell Reselection parameters	F	10.0.0	10.1.0	R5-121384
RP#56	RP-120641	0298	-	Test frequencies for inter-band cells in RRM tests	F	10.0.0	10.1.0	R5-121407
RP#56	RP-120644	0299	-	Update generic procedure 4.5A.6	F	10.0.0	10.1.0	R5-121413
RP#56	RP-120644	0300	-	Update generic procedure 4.5A.7	F	10.0.0	10.1.0	R5-121414
RP#56	RP-120644	0301	-	Update generic procedure 4.5A.3	F	10.0.0	10.1.0	R5-121439
RP#56	RP-120644	0302	-	Correction to RadioResourceConfigCommon-DEFAULT	F	10.0.0	10.1.0	R5-121447
RP#56	RP-120641	0304	-	Removing 5.2A.3 for State 2A	F	10.0.0	10.1.0	R5-121521
RP#56	RP-120641	0305	=	Addition of A-GNSS testing to Test frequencies clause 4.3.1	F	10.0.0	10.1.0	R5-121543
RP#56	RP-120641	0306	=	Ensuring all SS TX antennas are in use for whole test sequence	F	10.0.0	10.1.0	R5-121544
RP#56	RP-120641	0307	=	Connection diagram for RRM 3 cell TCs with static propagation	F	10.0.0	10.1.0	R5-121556
RP#56	RP-120644	0308	-	Correction of Physical Layer configurations tables	F	10.0.0	10.1.0	R5-121665
RP#56	RP-120644	0309	=	Update of default bandwidth configuration for E-UTRA FDD band 11 and 18	F	10.0.0	10.1.0	R5-121712
RP#56	RP-120644	0310	-	Correction to default SIB4 contents for CSG cells	F	10.0.0	10.1.0	R5-121733
RP#56	RP-120644	0311	=	Update of CDMA2000 Band Class data and addition of CDMA2000 Band Class 10	F	10.0.0	10.1.0	R5-121734
RP#56	RP-120644	0312	-	Update to Reference dedicated EPS bearer context #3	F	10.0.0	10.1.0	R5-121735
RP#56	RP-120644	0313	-	Add generic procedure MO video call	F	10.0.0	10.1.0	R5-121736
RP#56	RP-120644	0314	-	Add generic procedure MT video call	F	10.0.0	10.1.0	R5-121737
RP#56	RP-120644	0315	-	Clarifications to UICC requirements for LTE-C2K testing	F	10.0.0	10.1.0	R5-121809
RP#56	RP-120644	0316	-	Update UE capability information	F	10.0.0	10.1.0	R5-121847
RP#56	RP-120658	0317	-	Introduction of System information for PWS	F	10.0.0	10.1.0	R5-121854
RP#56	RP-120662	0318	-	Update of the default value of Carrier Aggregation parameters	F	10.0.0	10.1.0	R5-121856
RP#56	RP-120644	0319	-	Correction to reference system configurations for dual mode scenarios	F	10.0.0	10.1.0	R5-121888

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RP#56	RP-120667	0320	-	Adding operating band 26 to TS 36.508	F	10.0.0	10.1.0	R5-121905
RP#56	RP-120641	0321	-	Addition of State 3B-RF in 36.508	F	10.0.0	10.1.0	R5-121919
RP#56	RP-120641	0322	-	Correction to Tracking area updating procedure in 36.508	F	10.0.0	10.1.0	R5-121936
RP#56	RP-120662	0323	-	Addition of Test mode call procedure for CA test cases	F	10.0.0	10.1.0	R5-121982
RP#56	RP-120641	0303	-	Correction to Handover to UTRAN commands for UTRA RRC messages in 36.508	F	10.0.0	10.1.0	R5-122018
RP#56	RP-120662	0324	-	36.508 - Test frequencies for CA_1C and CA_40C	F	10.0.0	10.1.0	R5-122134
RP#56	RP-120649	0289	-	Removal of technical content in 36.508 v9.8.0 and substitution with pointer to the next Release	F	10.0.0	10.1.0	R5-121078
RP#56	RP-120644	0290	-	Correction of power ratio allocation on PDSCH for common logical channels	F	10.0.0	10.1.0	R5-121089
RP#56	RP-120644	0291	-	Correction to default mobilityParameters message contents	F	10.0.0	10.1.0	R5-121121
RP#56	RP-120644	0292	-	Corrections to default overhead messages for HRPD	F	10.0.0	10.1.0	R5-121122
RP#56	RP-120644	0293	-	Corrections to default overhead messages for 1xRTT	F	10.0.0	10.1.0	R5-121123
RP#56	RP-120644	0294	-	Update of CSFBParametersRequest/ResponseCDMA2000 process in Registration	F	10.0.0	10.1.0	R5-121276
RP#56	RP-120641	0295	-	RRM: Definition of parameters for simulated GSM cells	F	10.0.0	10.1.0	R5-121357
RP#56	RP-120662	0296	-	SIB Combination for CA test scenarios	F	10.0.0	10.1.0	R5-121383
RP#56	RP-120644	0297	-	Addition of default value of RSRQ Cell Reselection parameters	F	10.0.0	10.1.0	R5-121384
RP#56	RP-120641	0298	-	Test frequencies for inter-band cells in RRM tests	F	10.0.0	10.1.0	R5-121407
RP#56	RP-120644	0299	-	Update generic procedure 4.5A.6	F	10.0.0	10.1.0	R5-121413
RP#56	RP-120644	0300	-	Update generic procedure 4.5A.7	F	10.0.0	10.1.0	R5-121414
RP#56	RP-120644	0301	-	Update generic procedure 4.5A.3	F	10.0.0	10.1.0	R5-121439
RP#56	RP-120644	0302	-	Correction to RadioResourceConfigCommon-DEFAULT	F	10.0.0	10.1.0	R5-121447
RP#56	RP-120641	0304	-	Removing 5.2A.3 for State 2A	F	10.0.0	10.1.0	R5-121521
RP#56	RP-120641	0305	-	Addition of A-GNSS testing to Test frequencies clause 4.3.1	F	10.0.0	10.1.0	R5-121543
RP#56	RP-120641	0306	-	Ensuring all SS TX antennas are in use for whole test sequence	F	10.0.0	10.1.0	R5-121544
RP#56	RP-120641	0307	-	Connection diagram for RRM 3 cell TCs with static propagation	F	10.0.0	10.1.0	R5-121556
RP#56	RP-120644	0308	-	Correction of Physical Layer configurations tables	F	10.0.0	10.1.0	R5-121665
RP#56	RP-120644	0309	-	Update of default bandwidth configuration for E-UTRA FDD band 11 and 18	F	10.0.0	10.1.0	R5-121712
RP#56	RP-120644	0310	-	Correction to default SIB4 contents for CSG cells	F	10.0.0	10.1.0	R5-121733
RP#56	RP-120644	0311	-	Update of CDMA2000 Band Class data and addition of CDMA2000 Band Class 10	F	10.0.0	10.1.0	R5-121734
RP#56	RP-120644	0312	-	Update to Reference dedicated EPS bearer context #3	F	10.0.0	10.1.0	R5-121735
RP#56	RP-120644	0313	-	Add generic procedure MO video call	F	10.0.0	10.1.0	R5-121736

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RP#56	RP-120644	0314	-	Add generic procedure MT video call	F	10.0.0	10.1.0	R5-121737
RP#56	RP-120644	0315	-	Clarifications to UICC requirements for LTE-C2K testing	F	10.0.0	10.1.0	R5-121809
RP#56	RP-120644	0316	-	Update UE capability information	F	10.0.0	10.1.0	R5-121847
RP#56	RP-120658	0317	-	Introduction of System information for PWS	F	10.0.0	10.1.0	R5-121854
RP#56	RP-120662	0318	-	Update of the default value of Carrier Aggregation parameters	F	10.0.0	10.1.0	R5-121856
RP#56	RP-120644	0319	-	Correction to reference system configurations for dual mode scenarios	F	10.0.0	10.1.0	R5-121888
RP#56	RP-120667	0320	-	Adding operating band 26 to TS 36.508	F	10.0.0	10.1.0	R5-121905
RP#56	RP-120641	0321	-	Addition of State 3B-RF in 36.508	F	10.0.0	10.1.0	R5-121919
RP#56	RP-120641	0322	-	Correction to Tracking area updating procedure in 36.508	F	10.0.0	10.1.0	R5-121936
RP#56	RP-120662	0323	-	Addition of Test mode call procedure for CA test cases	F	10.0.0	10.1.0	R5-121982
RP#56	RP-120641	0303	-	Correction to Handover to UTRAN commands for UTRA RRC messages in 36.508	F	10.0.0	10.1.0	R5-122018
RP#56	RP-120662	0324	-	36.508 - Test frequencies for CA_1C and CA_40C	F	10.0.0	10.1.0	R5-122134
RP#57	RP-121098	0325	-	Correction to default message content of UTRA NAS attach accept message	F	10.1.0	10.2.0	R5-123114
RP#57	RP-121098	0326	-	Correction default message content for Tracking Area Update Request message	F	10.1.0	10.2.0	R5-123117
RP#57	RP-121095	0327	-	RF: Addition of messages and SIB combination informations for RF MBMS tests	F	10.1.0	10.2.0	R5-123211
RP#57	RP-121098	0328	-	Clarify requirements for ROHC	F	10.1.0	10.2.0	R5-123259
RP#57	RP-121098	0329	-	Updates to cl 6.x regarding use of MIMO	F	10.1.0	10.2.0	R5-123304
RP#57	RP-121113	0330	-	Update of default parameters for Carrier Aggregation	F	10.1.0	10.2.0	R5-123305
RP#57	RP-121098	0331	-	Addition of default value of Additional update parameters	F	10.1.0	10.2.0	R5-123306
RP#57	RP-121098	0332	-	Addition of default value of Explicit Signalling Indication parameters	F	10.1.0	10.2.0	R5-123307
RP#57	RP-121095	0333	-	Update of NeighCellConfig for RRM tests	F	10.1.0	10.2.0	R5-123328
RP#57	RP-121095	0334	-	Correction to HO commands for UTRAN TDD	F	10.1.0	10.2.0	R5-123329
RP#57	RP-121116	0335	-	Addition of new connection diagrams for UL-MIMO Testing	F	10.1.0	10.2.0	R5-123390
RP#57	RP-121098	0336	-	Correction to generic test procedure CS fallback to GERAN with redirection or CCO / MT call(DTM not supported)	F	10.1.0	10.2.0	R5-123629
RP#57	RP-121098	0337	-	Correction to RRC Connection Reconfiguration message during Handover from UTRA to EUTRA	F	10.1.0	10.2.0	R5-123630
RP#57	RP-121098	0338	-	Update to Reference dedicated EPS bearer context #3	F	10.1.0	10.2.0	R5-123632
RP#57	RP-121098	0339	-	Update generic procedure 4.5A.6	F	10.1.0	10.2.0	R5-123633
RP#57	RP-121098	0340	-	Update generic procedure 4.5A.7	F	10.1.0	10.2.0	R5-123634
RP#57	RP-121098	0341	-	Update generic procedure 4.5A.8	F	10.1.0	10.2.0	R5-123635
RP#57	RP-121098	0342	-	Update generic procedure 4.5A.9	F	10.1.0	10.2.0	R5-123636

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RP#57	RP-121098	0343	-	Update the default value of IE RadioResourceConfigCommon and IE additionalSpectrumEmission	F	10.1.0	10.2.0	R5-123712
RP#57	RP-121098	0344	-	Correction to test procedure 6.4.2.10	F	10.1.0	10.2.0	R5-123720
RP#57	RP-121098	0345	-	Corrections to CDMA2000 message sequences	F	10.1.0	10.2.0	R5-123728
RP#57	RP-121098	0346	-	Update of UE Capability Information	F	10.1.0	10.2.0	R5-123729
RP#57	RP-121098	0347	-	Update of Paging test procedure (for NAS test cases)	F	10.1.0	10.2.0	R5-123730
RP#57	RP-121098	0348	-	Addition of guard timer to the procedure for IMS signalling	F	10.1.0	10.2.0	R5-123731
RP#57	RP-121098	0349	-	Update to cl. 6.4.2.7A and 7.2B.1	F	10.1.0	10.2.0	R5-123734
RP#57	RP-121113	0351	-	Extension of cell configurations for Carrier Aggregation	F	10.1.0	10.2.0	R5-123751
RP#57	RP-121113	0352	-	Maximum number of cells simultaneously used in Carrier Aggregation test cases	F	10.1.0	10.2.0	R5-123752
RP#57	RP-121098	0353	-	Update of default MSPL and MLPL contents in Test UICC	F	10.1.0	10.2.0	R5-123767
RP#57	RP-121113	0354	-	Correction to the CA test state references	F	10.1.0	10.2.0	R5-123949
RP#58	RP-121681	0356	-	Addition of new connection diagram for UL-MIMO testing	F	10.2.0	10.3.0	R5-125107
RP#58	RP-121659	0357	-	Update to test procedure sequence 6.4.2.7A for check that UE is camped on E-UTRAN cell upon mobility from another RAT	F	10.2.0	10.3.0	R5-125116
RP#58	RP-121677	0358	-	Introduction of connection diagrams for CA tests	F	10.2.0	10.3.0	R5-125187
RP#58	RP-121685	0359	-	Addition of default message contents for ESM NOTIFICATION message	F	10.2.0	10.3.0	R5-125219
RP#58	RP-121659	0360	-	Modification of measurement configuration for UTRAN FDD SIG	F	10.2.0	10.3.0	R5-125283
RP#58	RP-121659	0361	-	Clarification of table 6.6.2-1	F	10.2.0	10.3.0	R5-125287
RP#58	RP-121656	0362	-	Addition of channel bandwidth tested for E-UTRA FDD band 19	F	10.2.0	10.3.0	R5-125303
RP#58	RP-121656	0363	-	Correction of circulator in connection diagrams	F	10.2.0	10.3.0	R5-125370
RP#58	RP-121656	0364	-	Correction to test channel numbers for Band 26	F	10.2.0	10.3.0	R5-125372
RP#58	RP-121656	0365	-	Update of Chw Bw Parameters for 1.4MHz and 3MHz	F	10.2.0	10.3.0	R5-125373
RP#58	RP-121659	0366	-	Update generic procedure 4.5A.7	F	10.2.0	10.3.0	R5-125530
RP#58	RP-121659	0367	-	Update of default ROUTING AREA UPDATE REQUEST message	F	10.2.0	10.3.0	R5-125545
RP#58	RP-121690	0368	-	CA_38: Addition of new test frequency for CA band 38	F	10.2.0	10.3.0	R5-125573
RP#58	RP-121689	0369	-	Addition of Band 28 definition	F	10.2.0	10.3.0	R5-125778
RP#58	RP-121685	0370	-	Add generic procedure for IMS MO speech and aSRVCC	F	10.2.0	10.3.0	R5-125792
RP#58	RP-121677	0371	-	Modification to state 3A-RF-CA initial conditions of clause 5.2A.4	F	10.2.0	10.3.0	R5-125800
RP#58	RP-121688	0372	-	Introduction of Band 27 to TS 36.508	F	10.2.0	10.3.0	R5-125832
RP#58	RP-121677	0373	-	Update of RF Reference system configurations in 36.508	F	10.2.0	10.3.0	R5-125933

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RP#58	RP-121659	0374	-	Using not null integrity protection and ciphering algorithms by default	F	10.2.0	10.3.0	R5-126020
RP#58	RP-121677	0375	-	Introducing default channel bandwidth for CA signalling testing	F	10.2.0	10.3.0	R5-126053
RP#59	RP-130156	0377	-	Addition of new connection diagram for UL-MIMO testing	F	10.3.0	10.4.0	R5-130136
RP#59	RP-130145	0378	-	AWGN Level uncertainty for Signalling test cases	F	10.3.0	10.4.0	R5-130201
RP#59	RP-130144	0379	-	Correction to CDMA2000Parameters message contents	F	10.3.0	10.4.0	R5-130202
RP#59	RP-130167	0380	-	Addition of SCell configuration type	F	10.3.0	10.4.0	R5-130311
RP#59	RP-130145	0382	-	Addition of default message contents of measurement information elements for event A4 and A5 measurement test cases	F	10.3.0	10.4.0	R5-130363
RP#59	RP-130144	0383	-	Correction to ncc-Permitted value to TS 36.508	F	10.3.0	10.4.0	R5-130453
RP#59	RP-130167	0384	-	Correction to EARFCN definition for CA_40C	F	10.3.0	10.4.0	R5-130477
RP#59	RP-130144	0385	-	Addition of combination A2+A11 and condition "UTRA Speech + Packet RAB Setup after Speech RAB Setup in CELL_DCH in Table 4.7B.1-1: HANDOVER TO UTRAN COMMAND	F	10.3.0	10.4.0	R5-130561
RP#59	RP-130144	0386	-	Update of Band 18 configuration	F	10.3.0	10.4.0	R5-130619
RP#59	RP-130144	0387	-	Update generic procedure 4.5.2	F	10.3.0	10.4.0	R5-130620
RP#59	RP-130144	0388	-	Update generic procedure 4.5.2A	F	10.3.0	10.4.0	R5-130621
RP#59	RP-130144	0389	-	Add generic procedure MO add video	F	10.3.0	10.4.0	R5-130622
RP#59	RP-130144	0390	-	Add generic procedure MT add video	F	10.3.0	10.4.0	R5-130623
RP#59	RP-130167	0391	-	Correction of test frequencies for CA signalling tests	F	10.3.0	10.4.0	R5-130692
RP#59	RP-130146	0395	-	Addition of simulated cell for E-UTRA dual mode multi cell network scenarios	F	10.3.0	10.4.0	R5-130709
RP#59	RP-130167	0397	-	Corrections to Annex A general considerations on connections for CA testing	F	10.3.0	10.4.0	R5-130900
RP#59	RP-130165	0376	-	Addition of test frequencies of CA_1A-19A and CA_1A-21A for CA signalling testing	F	10.4.0	11.0.0	R5-130087
RP#59	RP-130165	0381	_	Addition of test frequencies for CA_7C and CA_41C signalling test	F	10.4.0	11.0.0	R5-130343
RP#59	RP-130165	0392	-	Addition of test frequencies of CA_38, CA_3-7 and CA_7-20 for CA signalling test	F	10.4.0	11.0.0	R5-130694
RP#59	RP-130165	0393	-	Addition of test frequencies of CA_4A-5A and CA_4A-13A for CA signalling testing	F	10.4.0	11.0.0	R5-130695
RP#59	RP-130165	0394	-	Updates of 6.2.3.2 Test frequency for CA_1A-18A and 11A-18A	F	10.4.0	11.0.0	R5-130696
RP#59	RP-130164	0396	-	Adding operating band 44 to TS36.508	F	10.4.0	11.0.0	R5-130710
RP#59	RP-130165	0398	-	Addition of new test frequencies for CA band 7 and band 41	F	10.4.0	11.0.0	R5-130955
RP#60	RP-130609	0399	-	Update of CDMA2000 specification references: TS 36.508	F	10.4.0	11.1.0	R5-131067
RP#60	RP-130609	0401	-	Editorial Fix Hysteris values for event B1&B2 ReportConfigInterRAT for GERAN	F	10.4.0	11.1.0	R5-131090

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RP#60	RP-130622	0402	=	elCIC: Connection diagram for 2x2 antenna configuration scenarios	F	10.4.0	11.1.0	R5-131116
RP#60	RP-130636	0403	-	CA: Connection diagrams for RRM tests	F	10.4.0	11.1.0	R5-131117
RP#60	RP-130609	0404	-	Clarification to ncc-Permitted value interpretation in TS 36.508	F	10.4.0	11.1.0	R5-131322
RP#60	RP-130626	0405	-	Maintenance of Band 23 Requirements in TS 36.508	F	10.4.0	11.1.0	R5-131462
RP#60	RP-130626	0406	-	Adding IE T3412 extended value	F	10.4.0	11.1.0	R5-131474
RP#60	RP-130611	0408	-	Addition of exception for p-MaxGERAN of SIB7	F	10.4.0	11.1.0	R5-131583
RP#60	RP-130627	0409	-	Correction of test bandwidth for band 44	F	10.4.0	11.1.0	R5-131611
RP#60	RP-130631	0410	-	Addition of default parameters for ePDCCH	F	10.4.0	11.1.0	R5-131638
RP#60	RP-130630	0411	-	Addition of default parameters for CoMP	F	10.4.0	11.1.0	R5-131667
RP#60	RP-130628	0412	=	Addition of test frequencies for CA_2A-17A and CA_4A-17A for signalling testing	F	10.4.0	11.1.0	R5-131704
RP#60	RP-130611	0413	-	Editorial update of generic procedure 4.5.2	F	10.4.0	11.1.0	R5-131804
RP#60	RP-130611	0414	-	Editorial update of generic procedure 4.5.2A	F	10.4.0	11.1.0	R5-131805
RP#60	RP-130609	0415	-	Correction of DRB Logical Channel configuration	F	10.4.0	11.1.0	R5-131806
RP#60	RP-130611	0416	-	Add generic procedure for XCAP establishment	F	10.4.0	11.1.0	R5-131807
RP#60	RP-130611	0417	-	Corrections to default messages for eMBMS testing	F	10.4.0	11.1.0	R5-131809
RP#60	RP-130611	0418	-	Complete the default MEASUREMENT CONTROL MESSAGE for LCR_TDD_UTRAN	F	10.4.0	11.1.0	R5-131872
RP#60	RP-130636	0419	-	Carrier Aggregation: PCC and SCC Configuration Update	F	10.4.0	11.1.0	R5-131885
RP#60	RP-130609	0420	-	Update of UECapabilityInformation for Rel-11 UEs	F	10.4.0	11.1.0	R5-131888
RP#60	RP-130636	0421	-	Modifications to Common Section CA settings	F	10.4.0	11.1.0	R5-132002
RP#60	RP-130636	0422	-	Correction to test frequencies for CA signalling test	F	10.4.0	11.1.0	R5-132027
RP#60	RP-130629	0423	=	Modification of default contents for UEInformationRequest message	F	10.4.0	11.1.0	R5-132029
RP#60	RP-130628	0424	=	Addition of test frequencies of CA_4-12, CA_5-12 for CA signalling test	F	10.4.0	11.1.0	R5-132041
RP#60	RP-130611	0426	-	Addition of generic procedure for IMS call release	F	10.4.0	11.1.0	R5-132066
RP#60	RP-130609	0425	-	Update of CSIM and USIM EFs	F	10.4.0	11.1.0	R5-132082
RP#60	RP-130609	0427	-	Corrections to setup of dedicated EPS bearer contexts in IMS generic procedures	F	10.4.0	11.1.0	R5-132085
RP#60	RP-130636	0428	-	Modifications to RF Section CA settings	F	10.4.0	11.1.0	R5-132106
RP#60	RP-130610	0429	-	Correction to generic MO CSFB procedures	F	10.4.0	11.1.0	R5-131496
RP#60	-	-	-	Correction in history table from v11.0.0 to v11.1.0	F	11.0.0	11.1.1	
RP#61	RP-131115	0460	-	Addition of frequency f2 to band combinations CA_2A-17A and CA_4A-17A	F	11.1.1	11.2.0	R5-133094
RP#61	RP-131115	0430	-	Addition of test frequencies of CA_3-8 for CA signaling test	F	11.1.1	11.2.0	R5-133113
RP#61	RP-131103	0431	-	Addition of option to use IP addresses from PCO IE in ESM INFORMATION RESPONSE	F	11.1.1	11.2.0	R5-133116

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RP#61	RP-131101	0432	-	Update of CSIM Elementary File for EPRL	F	11.1.1	11.2.0	R5-133118
RP#61	RP-131103	0433	-	Correction to SystemInformationBlockType13 message (eMBMS testing)	F	11.1.1	11.2.0	R5-133159
RP#61	RP-131114	0434	-	Correction to default MBMS Counting messages	F	11.1.1	11.2.0	R5-133160
RP#61	RP-131111	0435	-	CA RRM: Phase rotator for intra-frequency static scenarios	F	11.1.1	11.2.0	R5-133224
RP#61	RP-131125	0436	-	Addition of Band 31 to 36.508	F	11.1.1	11.2.0	R5-133246
RP#61	RP-131111	0437	-	Test frequencies for RF intra-band contiguous CA tests	F	11.1.1	11.2.0	R5-133270
RP#61	RP-131115	0438	-	Update of PUCCH-ConfigDedicated-v1020-DEFAULT for TDD	F	11.1.1	11.2.0	R5-133275
RP#61	RP-131101	0439	-	Default Bandwidth Configuration for E-UTRA Band 2 RF Testing	F	11.1.1	11.2.0	R5-133306
RP#61	RP-131116	0440	-	Modification of default contents for UEInformationRequest message	F	11.1.1	11.2.0	R5-133321
RP#61	RP-131115	0441	-	Correction of reference to cell frequencies for CA signalling test cases	F	11.1.1	11.2.0	R5-133348
RP#61	RP-131101	0442	-	Correction to SID value	F	11.1.1	11.2.0	R5-133365
RP#61	RP-131101	0443	-	Update of generic procedure 4.5A.7	F	11.1.1	11.2.0	R5-133366
RP#61	RP-131101	0444	-	Update of generic procedure 4.5A.14	F	11.1.1	11.2.0	R5-133367
RP#61	RP-131111	0445	-	Update of Generic RRM procedures for CA	F	11.1.1	11.2.0	R5-133451
RP#61	RP-131113	0446	-	Default Message Contents for eICIC PCell Pattern	F	11.1.1	11.2.0	R5-133453
RP#61	RP-131103	0447	-	Corrections to the reference dedicated EPS bearer contexts	F	11.1.1	11.2.0	R5-133509
RP#61	RP-131101	0448	-	Extension of default contents of ACTIVATE DEFAULT EPS BEARER CONTEXT REQUESTS message	F	11.1.1	11.2.0	R5-133554
RP#61	RP-131101	0449	-	Corrections to allow ISIM or USIM to be used in test cases using IMS	F	11.1.1	11.2.0	R5-133582
RP#61	RP-131101	0450	-	Correction of Feature Group Indicators in Table 4.6.1-23	F	11.1.1	11.2.0	R5-133583
RP#61	RP-131101	0451	-	Correction to ROUTING AREA UPDATE ACCEPT default message contents	F	11.1.1	11.2.0	R5-133584
RP#61	RP-131115	0452	-	Addition of test frequencies of CA_3A-5A for CA signalling test	F	11.1.1	11.2.0	R5-133614
RP#61	RP-131115	0453	-	Extension of EUTRA CA test frequency configurations	F	11.1.1	11.2.0	R5-133615
RP#61	RP-131113	0454	-	Update of Measurement information element	F	11.1.1	11.2.0	R5-133645
RP#61	RP-131117	0455	-	Introduction of new default messages for eMBMS service continuity testing	F	11.1.1	11.2.0	R5-133661
RP#61	RP-131117	0456	-	Introduction of system information combinations for eMBMS service continuity testing	F	11.1.1	11.2.0	R5-133662
RP#61	RP-131118	0457	-	Addition of specific message formats for eDDA test cases.	F	11.1.1	11.2.0	R5-133674
RP#61	RP-131101	0458	-	Missing agreed change in 36.508	F	11.1.1	11.2.0	R5-133704
RP#61	RP-131101	0459	-	Clean up of 36.508	F	11.1.1	11.2.0	R5-133714
RP#62	RP-131864	0461	-	Correction of MBSFNAreaConfiguration and SIB combination 15	F	11.2.0	11.3.0	R5-134152

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	RP-131874	0465	-	Correction to MeasConfig-DEFAULT	F	11.2.0	11.3.0	R5-134459
RP#62	RP-131876	0466	-	General clarification to CA test frequency tables for signalling	F	11.2.0	11.3.0	R5-134642
RP#62	RP-131861	0467	-	Update to MeasConfig-DEFAULT	F	11.2.0	11.3.0	R5-134645
RP#62	RP-131861	0469	-	Editorial correction to generic MO CSFB procedures	F	11.2.0	11.3.0	R5-134726
RP#62	RP-131864	0470	-	Corrections to default message contents of MBMSCountingRequest	F	11.2.0	11.3.0	R5-134727
RP#62	RP-131876	0471	-	Extension of default settings for the Elementary Files on Test UICC	F	11.2.0	11.3.0	R5-134730
RP#62	RP-131877	0472	-	Addition of CA band combinations CA_2A_29A, CA_4A_29A and CA_5A_17A	F	11.2.0	11.3.0	R5-134786
RP#62	RP-131873	0475	-	Addition of connection diagrams for CA CSI tests	F	11.2.0	11.3.0	R5-134803
RP#62	RP-131873	0477	-	Correction to PhysicalConfigDedicated-DEFAULT for SCell_AddMod	F	11.2.0	11.3.0	R5-134903
RP#62	RP-131873	0478	-	Clarification of multi antenna ports for all neighboring cells	F	11.2.0	11.3.0	R5-134904
RP#62	RP-131877	0480	-	Addition of B29 test frequencies to 36.508	F	11.2.0	11.3.0	R5-134986
RP#62	RP-131861	0481	-	Corrections to procedures for State 3A-RF	F	11.2.0	11.3.0	R5-135013
RP#62	RP-131864	0468	-	Correction to Generic Test Procedure for IMS Emergency call establishment in EUTRA: Limited Service	F	11.2.0	11.3.0	R5-135069
RP#62	RP-131864	0479	-	Correction of generic test procedure for IMS Emergency Call establishment in EUTRA limited service	F	11.2.0	11.3.0	R5-135070
RP#62	RP-131890	0462	-	Addition of test frequencies for CA_3C	F	11.3.0	12.0.0	R5-134336
RP#62	RP-131890	0463	-	Updates of 6.2.3.2 Test frequencies for CA_1A-26A	F	11.3.0	12.0.0	R5-134368
RP#62	RP-131890	0464	-	Addition of CA band combination CA_2A_5A	F	11.3.0	12.0.0	R5-134426
RP#62	RP-131873	0473	-	Addition of test frequencies of CA_3A-19A and CA_19A-21A for CA signalling testing	F	11.3.0	12.0.0	R5-134790
RP#62	RP-131890	0474	-	Addition of test frequencies for CA_3C signalling test	F	11.3.0	12.0.0	R5-134791
RP#63	RP-140329	0482	-	Adding default message content for SystemInformationBlockType14	F	12.0.0	12.1.0	R5-140075
RP#63	RP-140307	0484	-	Correction of UTRA cell carrier frequency in Table 6.3.1.3-2	F	12.0.0	12.1.0	R5-140136
RP#63	R5-140319	0485	-	CA RF: Adding connection diagram for CA 4x2 MIMO with fading scenarios	F	12.0.0	12.1.0	R5-140242
RP#63	R5-140319	0486	-	eDL-MIMO RF: Adding connection diagram for 8x2 MIMO scenarios	F	12.0.0	12.1.0	R5-140243
RP#63	RP-140307	0487	-	Correction to Table 6.4.2.7A.1-1 for TAU Request	F	12.0.0	12.1.0	R5-140325
RP#63	RP-140308	0488	-	Update of MBMS configurations	F	12.0.0	12.1.0	R5-140394
RP#63	RP-140332	0489	-	Addtion of test frequencies for CA_1A-8A	F	12.0.0	12.1.0	R5-140406
RP#63	R5-140319	0490	-	Correction to UL CA message exceptions	F	12.0.0	12.1.0	R5-140503
RP#63	RP-140308	0492	-	Correction to Generic Test Procedure for IMS Emergency call establishment in EUTRA: Limited Service	F	12.0.0	12.1.0	R5-140536

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	R5-140319	0493	-	Update to QuantityConfig in MeasConfig DEFAULT	F	12.0.0	12.1.0	R5-140743
RP#63	RP-140331	0494	-	Correction of CA band combinations CA_1A_18A and CA_11A_18A	F	12.0.0	12.1.0	R5-140744
RP#63	R5-140319	0495	-	Adding test frequencies for CA reverse inter band combination for bands 4 and 13	F	12.0.0	12.1.0	R5-140745
RP#63	RP-140307	0496	-	Update to Generic test procedure in TS 36.508 Table 6.4.2.7A-2	F	12.0.0	12.1.0	R5-140746
RP#63	RP-140307	0497	-	Addition of procedure for EPS Bearer Deactivaton and deletion of procedure for MT release of IMS call	F	12.0.0	12.1.0	R5-140747
RP#63	RP-140332	0498	-	Addition of Rel12 reverse band combination CA_2A-5A	F	12.0.0	12.1.0	R5-140789
RP#63	RP-140325	0499	-	Addition of neighbour cell CRS and dedicated SIB-1 IE for fEICIC test cases	F	12.0.0	12.1.0	R5-140830
RP#63	R5-140319	0500	-	Addition of transmissionMode-r10 for SCC	F	12.0.0	12.1.0	R5-140928
RP#63	RP-140331	0501	-	Addition of Rel11 reverse band combinations CA_2A-29A, CA_4A-5A, CA_4A-29A, CA_5A-17A	F	12.0.0	12.1.0	R5-140998
RP#63	RP-140302	0502	-	Change of test frequencies for Band 28	F	12.0.0	12.1.0	R5-141039
RP#64	RP-140838	0503	-	Addition of CA 3A-28A to 36.508	F	12.1.0	12.2.0	R5-142114
RP#64	RP-140812	0504	-	Update to MEASUREMENT CONTROL	F	12.1.0	12.2.0	R5-142126
RP#64	RP-140815	0505	-	Update to default non-MBSFNregionLength in SystemInformationBlockType13	F	12.1.0	12.2.0	R5-142127
RP#64	RP-140815	0506	-	Editorial Update to Table 4.6.1-4A: MBSFNAreaConfiguration	F	12.1.0	12.2.0	R5-142128
RP#64	RP-140837	0507	-	Correction to default SystemInformationBlockType15 message for eMBMS testing	F	12.1.0	12.2.0	R5-142254
RP#64	RP-140838	0508	-	Updates of 6.2.3.2 Test frequency for CA_3A-26A and CA_3A-27A	F	12.1.0	12.2.0	R5-142299
RP#64	RP-140832	0509	-	Adding connection diagramms for RF/RRM Rel-11 WI-s tests	F	12.1.0	12.2.0	R5-142318
RP#64	RP-140832	0510	-	Addition of exceptions for felCIC RRM test cases	F	12.1.0	12.2.0	R5-142336
RP#64	RP-140812	0511	-	Correction to NAS UTRA Routing Area Update Accept message	F	12.1.0	12.2.0	R5-142397
RP#64	RP-140812	0512	-	Correction to the exception of SIB2	F	12.1.0	12.2.0	R5-142602
RP#64	RP-140812	0513	-	Addition of 4Tx for RF demodulation test cases	F	12.1.0	12.2.0	R5-142603
RP#64	RP-140838	0514	-	Addtion of test frequencies for CA_2A-4A and CA_5A-7A	F	12.1.0	12.2.0	R5-142768
RP#64	RP-140837	0515	-	Correction to system information combination 16 and 19 for eMBMS testing	F	12.1.0	12.2.0	R5-142844
RP#64	RP-140817	0516	-	Update to ri-ConfigIndex in Table 4.6.3-2AC CQI- ReportPeriodic-r10-DEFAULT	F	12.1.0	12.2.0	R5-142845
RP#64	RP-140815	0517	-	Correction to MFBI Frequencies in 36.508	F	12.1.0	12.2.0	R5-142846
RP#64	RP-140838	0518	-	Addition of test frequencies of CA_39A-41A for CA signalling testing in TS 36.508	F	12.1.0	12.2.0	R5-142928
RP#64	RP-140838	0519	-	Updates to TS 36.508 for CA_27B sianlling test frequencies defined in section 6.2.3.2	F	12.1.0	12.2.0	R5-142930
RP#64	RP-140817	0520	-	Clarification of RRC message definitions	F	12.1.0	12.2.0	R5-143001

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RP#64	RP-140817	0521	-	Corrections to MBMS information elements in SIB2 and SIB13	F	12.1.0	12.2.0	R5-143002
RP#64	RP-140838	0522	-	Addition of new test frequency for CA_39C	F	12.1.0	12.2.0	R5-143132
RP#64	RP-140838	0523	-	Updates to TS 36.508 for CA_27B test frequencies defined in section 4.3.1.1	F	12.1.0	12.2.0	R5-143171
RP#65	RP-141573	0524	-	Correction to notificationSF-Index-r9 in Sib13	F	12.2.0	12.3.0	R5-144185
RP#65	RP-141571	0525	-	IMS APN pre-configured IR.92 devices	F	12.2.0	12.3.0	R5-144370
RP#65	RP-141571	0526	-	Removal of transition period for Band 28 test frequency definition in 36.508	F	12.2.0	12.3.0	R5-144459
RP#65	RP-141593	0527	-	Addition of Rel11 reverse band combinations CA_1A-18A, CA_11A-18A	F	12.2.0	12.3.0	R5-144543
RP#65	RP-141594	0528	-	Addition of Rel12 reverse band combination CA_1A-26A	F	12.2.0	12.3.0	R5-144544
RP#65	RP-141593	0529	-	Editorial correction to Table 6.2.3.2-2	F	12.2.0	12.3.0	R5-144644
RP#65	RP-141594	0530	-	Addition of reverse band combinations, CA_1A-19A, CA_1A-21A, CA_3A-19A and CA_19A-21A	F	12.2.0	12.3.0	R5-144685
RP#65	RP-141587	0531	-	Addition of default parameters for Enhanced downlink control channel(s) for LTE Advanced	F	12.2.0	12.3.0	R5-144711
RP#65	RP-141593	0532	-	Removal of FFS from IEs triggered by CoMP related TCs specification	F	12.2.0	12.3.0	R5-144712
RP#65	RP-141571	0533	-	Clarification on the default setting of Security header type in SECURITY PROTECTED NAS MESSAGE	F	12.2.0	12.3.0	R5-144750
RP#65	RP-141571	0534	-	Support of 2nd PDN connectivity at UE registration	F	12.2.0	12.3.0	R5-144797
RP#65	RP-141575	0535	-	CA: New structure for test frequencies for intra-band contiguous CA	F	12.2.0	12.3.0	R5-144890
RP#65	RP-141575	0536	-	Correction to 7.2B.1 Tracking Area Updating procedure	F	12.2.0	12.3.0	R5-144929
RP#65	-	-	-	Correction concerning R5-144797 to resolve the 4.5A.X, 4.5A.Y, 4.5A.Z reference in Table 4.5.2.3-1	-	12.3.0	12.3.1	-
RP#66	RP-142075	0538	-	New CA band combination CA_1A-3A - Updates of 6.2.3.2 Test Frequency		12.3.1	12.4.0	R5-145181
RP#66	RP-142076	0539	-	Addition of E-UTRA FDD Band 30 to TS 36.508, subclause 6.2.3.1.		12.3.1	12.4.0	R5-145606
RP#66	RP-142054	0540	-	Correction to SIB8 Default Message Contents for LTE<>1XRTT		12.3.1	12.4.0	R5-145657
RP#66	RP-142057	0541	-	Correction to Test frequencies for E-UTRA FDD(5MHz) for MFBI		12.3.1	12.4.0	R5-145658
RP#66	RP-142057	0542	-	Updating dataCodingScheme of CMAS TC in 36.508		12.3.1	12.4.0	R5-145659
RP#66	RP-142074	0543	-	Correction of default parameters for Enhanced downlink control channel(s) for LTE Advanced		12.3.1	12.4.0	R5-145661
RP#66	RP-142074	0544	-	Correction to eMBMS multiband test cases		12.3.1	12.4.0	R5-145662
RP#66	RP-142059	0545	-	Harmonization of CA terminology (36.508)		12.3.1	12.4.0	R5-145663
RP#66	RP-142054	0546	-	Correction to Test Frequencies for FDD Band 12->17 for 5MHZ		12.3.1	12.4.0	R5-145686
RP#66	RP-142075	0547	-	Addition of CA_1A-28A in 36.508		12.3.1	12.4.0	R5-145715
RP#66	RP-142075	0548	-	Introduction of 1+11 and 8+11 in 36.508		12.3.1	12.4.0	R5-145716

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RP#66	RP-142075	0549	-	Addition of Intra-Band Non-Contiguous Default Frequencies to 36.508 Chapter 6		12.3.1	12.4.0	R5-145717
RP#66	RP-142078	0550	-	Addition of CA_18A-28A in 36.508		12.3.1	12.4.0	R5-145718
RP#66	RP-142075	0551	-	Existing CA band combination CA_39C: update test frequencies for CA_39C signalling test		12.3.1	12.4.0	R5-145739
RP#66	RP-142054	0552	-	Correction to generic procedure for EPS Bearer Deactivation		12.3.1	12.4.0	R5-145774
RP#66	RP-142054	0553	-	Corrections for Generic Test Procedure for IMS MO/MT add video establishment in E-UTRA (clause 4.5A.11 and 4.5A.12)		12.3.1	12.4.0	R5-145779
RP#66	RP-142054	0554	-	Support of 2nd PDN connectivity at UE registration - XCAP		12.3.1	12.4.0	R5-145787
RP#66	RP-142054	0555	-	Correction of CSIM Elementary File for EPRL		12.3.1	12.4.0	R5-145792
RP#66	RP-142059	0556	-	Correction of SCell_AddMod condition in MAC Configurations		12.3.1	12.4.0	R5-145793
RP#66	RP-142059	0557	-	Addition of CA_4A-7A and CA_3A-20A Test Frequencies		12.3.1	12.4.0	R5-145799
RP#66	RP-142076	0558	-	Addition of operating band 30 to TS 36.508, subclause 4.3.1.1.30		12.3.1	12.4.0	R5-145850
RP#66	RP-142059	0559	-	Addition of editor's note for MFBI Test frequencies		12.3.1	12.4.0	R5-145879
RP#66	RP-142079	0560	-	Clarifications to connection diagrams		12.3.1	12.4.0	R5-145897
RP#66	RP-142059	0562	-	Correction to message exceptions for felCIC tests		12.3.1	12.4.0	R5-145916
RP#66	RP-142075	0563	-	CA: Test frequencies for intra-band non-contiguous		12.3.1	12.4.0	R5-145923
RP#66	RP-142075	0564	-	Introduction of CA_42C for TS36.508		12.3.1	12.4.0	R5-145959
RP#66	RP-142059	0565	-	TS 36.508: Correction to CA intra-band contiguous test frequencies		12.3.1	12.4.0	R5-145962
RP#66	RP-142054	0566	-	Correction to generic procedure for UE Registration, pre-registration on 1xRTT (State 2C)		12.3.1	12.4.0	R5-145971
RP#66	RP-142054	0561	-	UE registration for RF and RRM testing		12.3.1	12.4.0	R5-145979
-	-	-	-	correction of closing bracket in Table 5.2A.5.1.1-2 of R5-145916		12.4.0	12.4.1	-
-	-	-	-	correction of missing changes of R5-145787		12.4.0	12.4.1	-
RP#67	RP-150342	0567	-	Correction to CA_19A-21A, CA_39A-41A	F	12.4.1	12.5.0	R5-150103
RP#67	RP-150323	0568	-	Support of 2nd PDN connectivity at UE registration - Corrections for C2K	F	12.4.1	12.5.0	R5-150127
RP#67	RP-150326	0570	-	Correction of MFBI Test Frequencies for Band 38->41	F	12.4.1	12.5.0	R5-150273
RP#67	RP-150341	0571	-	Addition of CA_8A-20A to Clause 6.2.3.2 of TS 36.508	F	12.4.1	12.5.0	R5-150367
RP#67	RP-150343	0572	-	Addition of CA_1A-20A to Clause 6.2.3.2 of TS 36.508	F	12.4.1	12.5.0	R5-150480
RP#67	RP-150342	0575	-	Correction to TDD CA contiguous Intra-band setting for signalling test	F	12.4.1	12.5.0	R5-150679
RP#67	RP-150342	0576	-	Addition of Signalling test frequencies to 36.508 for CA_1A-7A	F	12.4.1	12.5.0	R5-150680
RP#67	RP-150343	0577	-	Addition of CA_2A-30A to Clause 6.2.3.2 of TS 36.508.	F	12.4.1	12.5.0	R5-150682
RP#67	RP-150343	0578	-	Addition of CA_4A-30A to Clause 6.2.3.2 of TS 36.508.	F	12.4.1	12.5.0	R5-150683

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	RP-150343	0579	-	Addition of CA_5A-30A to Clause 6.2.3.2 of TS 36.508.	F	12.4.1	12.5.0	R5-150684
RP#67	RP-150342	0580	-	Addition of Signalling test frequencies to 36.508 for CA_5A-25A and CA_12A-25A	F	12.4.1	12.5.0	R5-150722
RP#67	RP-150343	0581	-	Correction to CA_18A-28A SIG test frequency in 36.508	F	12.4.1	12.5.0	R5-150743
RP#67	RP-150342	0582	-	Addition of test frequency table for Band 23B to 36.508	F	12.4.1	12.5.0	R5-150859
RP#67	RP-150343	0583	-	Addition of test frequencies for CA_18A-28A in 36.508	F	12.4.1	12.5.0	R5-150864
RP#67	RP-150343	0584	-	Addition of 3DL Intra-band Contiguous and Non- contiguous Test Frequencies	F	12.4.1	12.5.0	R5-150895
RP#67	RP-150342	0585	-	Addition of further test frequencies for Intra-band Non- contiguous 2DL CA	F	12.4.1	12.5.0	R5-150896
RP#67	RP-150343	0586	-	Update of SCC configuration for 3DL CA RF/RRM tests	F	12.4.1	12.5.0	R5-150912
RP#67	RP-150345	0569	-	Addition of UE Positioning testing to State 3A	F	12.4.1	12.5.0	R5-150933
RP#67	RP-150342	0573	-	Addition of Signalling test frequencies to 36.508 for CA_23B	F	12.4.1	12.5.0	R5-150936
RP#67	RP-150342	0574	-	Addition of Signalling test frequencies to 36.508 for CA_23A-29A	F	12.4.1	12.5.0	R5-150937
RP#68	RP-150886	0587	-	APN IE requirements for IMS emergency PDN	F	12.5.0	12.6.0	R5-151104
RP#68	RP-150900	0588	-	CA RF: Connection diagrams for 3DL CA (RF) testing	F	12.5.0	12.6.0	R5-151113
RP#68	RP-150905	0592	-	Addition of band 32 to 36.508	F	12.5.0	12.6.0	R5-151327
RP#68	RP-150912	0594	-	Updates to 36.508 for CA_7C, CA_40C, CA_41C, CA_41D	F	12.5.0	12.6.0	R5-151365
RP#68	RP-150888	0595	-	Change of default Network Signalling Value for Uplink Carrier aggregation test cases	F	12.5.0	12.6.0	R5-151423
RP#68	RP-150900	0602	-	Addition of test frequencies for CA_1A-18A-28A in 36 508	F	12.5.0	12.6.0	R5-151582
RP#68	RP-150900	0604	-	Correction to test frequencies for CA_18A-28A in 36.508	F	12.5.0	12.6.0	R5-151626
RP#68	RP-150900	0607	-	36.508: Test frequencies definition for CA_12B	F	12.5.0	12.6.0	R5-151658
RP#68	RP-150900	0608	-	36.508: Signalling test frequencies definition for CA_12B	F	12.5.0	12.6.0	R5-151660
RP#68	RP-150888	0601	1	Addition of Carrier Aggregation band combination 2 to 13	F	12.5.0	12.6.0	R5-151737
RP#68	RP-150883	0605	1	New generic procedure 4.5A.15 Generic Test Procedure for IMS MO Customized Alerting Tones and speech establishment in E-UTRA	F	12.5.0	12.6.0	R5-151738
RP#68	RP-150912	0603	1	Removal of SIB1 transmission in 5.2A.5 Exceptions for felCIC tests	F	12.5.0	12.6.0	R5-151801
RP#68	RP-150888	0600	1	Addition of exception of RRC Connection Setup(UTRA)	F	12.5.0	12.6.0	R5-151804
RP#68	RP-150900	0591	1	Addition of 2DL CA and 3DL CA Frequencies to 36.508 Chapter 6	F	12.5.0	12.6.0	R5-151967
RP#68	RP-150909	0590	1	Update of default SIB1 for Low Cost MTC testing	F	12.5.0	12.6.0	R5-151975
RP#68	RP-150906	0596	2	Add generic procedure for IMS MO speech for EVS	F	12.5.0	12.6.0	R5-151976
RP#68	RP-150903	0598	1	Introduction of EUTRA-WLAN interworking test environment parameters and message contents	F	12.5.0	12.6.0	R5-151995

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RP#68	RP-150908	0589	1	Addition of Device to Device Proximity Services Test Environment	F	12.5.0	12.6.0	R5-152058
RP#68	RP-150903	0599	1	Introduction of generic procedures for EUTRA-WLAN interworking	F	12.5.0	12.6.0	R5-152117
RP#68	RP-150888	0609	1	Correction to default E-UTRA channel bandwidth combination for CA_39C	F	12.5.0	12.6.0	R5-152140
RP#68	RP-150903	0610	1	Update to registration procedure to support multi PDN for RAN assisted WLAN interworking	F	12.5.0	12.6.0	R5-152141

History

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