ETSI TS 136 523-2 V16.7.0 (2021-01)



LTE; 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 (3GPP TS 36.523-2 version 16.7.0 Release 16)



Reference RTS/TSGR-0536523-2vg70

Keywords

LTE

ETSI

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Modal verbs terminology

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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:

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- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
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Introduction iTeh STANDARD PREVIEW

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

ETSI TS 136 523-2 V16.7.0 (2021-01) The present document is part 2 of a multi-part conformance test specification for User Equipment (UE).

3GPP TS 36.523-1 [19]: "Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification".

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". (the present document)

3GPP TS 36.523-3 [20]: "Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 3: Abstract Test Suite (ATS)".

1 Scope

The present document provides the Implementation Conformance Statement (ICS) proforma for 3rd Generation User Equipment (UE), in compliance with the relevant EPS (E-UTRA/EPC) requirements, and in accordance with the relevant guidance given in ISO/IEC 9646-1 [24] and ISO/IEC 9646-7 [25].

The present document also specifies a recommended applicability statement for the test cases included in TS 36.523-1 [19]. These applicability statements are based on the features implemented in the UE.

Special conformance testing functions can be found in TS 36.509 [6] and the common test environments are included in 3GPP TS 36.508 [18].

The present document is valid for UE complying with EPS (E-UTRA/EPC) and implemented according to 3GPP releases starting from Release 8 up to the Release indicated on the cover page of the present document.

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. (Standards.iten.al)
- [1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
- [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] Void
- [6] 3GPP TS 36.509: "Special conformance testing functions for User Equipment ".
- [7] Void
- [8] 3GPP TS 34.123-2: "User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification".
- [9] Void
- [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: "Services provided by the physical layer for E-UTRA".
- [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 36.508: "Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); Common Test Environments for User Equipment (UE) Conformance Testing".
- [19] 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".
- [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 TR 24.801: "3GPP System Architecture Evolution; CT WG1 Aspects".
- [22] 3GPP TS 23.401: "3GPP System Architecture Evolution; GPRS enhancements for E-UTRAN access".
- [23] 3GPP TS 51.010-1: "Mobile Station (MS) conformance specification; Part 1: Conformance specification".
- [24] ISO/IEC 9646-1: "Information technology Open Systems Interconnection Conformance testing methodology and framework Part 1: General concepts".
- [25] ISO/IEC 9646-7: "Information technology Open systems interconnection Conformance testing methodology and framework Part 7: Implementation Conformance Statements".
- [26] 3GPP2 C.S0024-A-v3.0: "cdma2000 High Rate Packet Data Air Interface Specification".
- [27] 3GPP2 C.S0002-A: "Physical Layer Standard for cdma2000 Spread Spectrum Systems Release A".
- [28] 3GPP TS 24.303: "Mobility management based on Dual-Stack Mobile IPv6; Stage 3".
- [29] IEEE Std 802.11 (1999): "Standard for Information Technology Telecommunications and information exchange between systems - Local and Metropolitan Area networks - Specific requirements - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) specifications".
- [30] 3GPP TS 36.307: "Requirements on User Equipments (UEs) Supporting a release-independent frequency band ".
- [33] GSMA PRD IR.92: "IMS Profile for Voice and SMS".
- [34] 3GPP TS 22.101: "Service aspects; Service principles"
- [35] 3GPP TS 24.301: "Non-Access-Stratum (NAS) protocol for Evolved Packet System (EPS); Stage 3".
- [36] 3GPP TS 25.306: "UE Radio Access capabilities".
- [37] 3GPP TS 25.331: "Radio Resource Control (RRC); Protocol specification".
- [38] 3GPP TS 23.216: "Super-Charger technical realization; Stage 2".
- [39] 3GPP TS 23.272: "Circuit Switched (CS) fallback in Evolved Packet System (EPS); Stage 2".
- [40] 3GPP TS 44.060: "General Packet Radio Service (GPRS); Mobile Station (MS) Base Station System (BSS) interface; Radio Link Control / Medium Access Control (RLC/MAC) protocol".

- [41] 3GPP TS 26.114: "IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction".
- [42] 3GPP TS 24.229: "IP multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3".
- [43] 3GPP TS 24.173: "IMS Multimedia telephony communication service and supplementary services; Stage 3".
- [44] 3GPP TR 21.904: "User Equipment (UE) capability requirements".
- [45] 3GPP TS 34.229-2: "Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP);User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) specification".
- [46] 3GPP TS 36.101: "User Equipment (UE) radio transmission and reception".
- [47] 3GPP TS 24.368: "Non-Access Stratum (NAS) configuration Management Object (MO)".
- [48] 3GPP TS 31.102: "Characteristics of the Universal Subscriber Identity Module (USIM) application".
- [49] 3GPP TS 23.221: "Architectural requirements".
- [50] 3GPP TS 45.008: "GSM/EDGE Radio Access Network; Radio subsystem link control".
- [51] 3GPP TS 23.041: "Technical realization of Cell Broadcast Service (CBS)".
- [52] 3GPP TS 24,334: "Proximity-services (ProSe) User Equipment (UE) to Proximity-services (ProSe) Function Protocol aspects; Stage 3"
- [53] 3GPP TS 24.334: "Proximity services (ProSe) User Equipment (UE) to Proximity-services (ProSe) Function Protocol aspects; Stage 3".
- [54] GSMA PRD IR.51: "IMS Profile for Voice, Video and SMS over Wi-Fi". https://standards.iteh.ai/catalog/standards/sist/91d78006-67af-415c-906b-
- [55] GSMA PRD NG.1085.2 IMS/Profile for Voice and SMS for UE category M1".

3 Definitions, symbols and abbreviations

For the purposes of the present document, the following terms, definitions, symbols and abbreviations apply:

- such given in TR 21.905 [1]
- such given in ISO/IEC 9646-1 [24] and ISO/IEC 9646-7 [25]
- NOTE: Some terms and abbreviations defined in [24] and [25] are explicitly included below with small modification to reflect the terminology used in 3GPP.

3.1 Definitions

Implementation Conformance Statement (ICS): A statement made by the supplier of an implementation or system claimed to conform to a given specification, stating which capabilities have been implemented.

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

Implementation eXtra Information for Testing (IXIT): A statement made by a supplier or implementer of an UEUT which contains or references all of the information (in addition to that given in the ICS) related to the UEUT and its testing environment, which will enable the test laboratory to run an appropriate test suite against the UEUT.

IXIT proforma: A document, in the form of a questionnaire, which when completed for an UEUT becomes an IXIT.

Protocol Implementation Conformance Statement (PICS): An ICS for an implementation or system claimed to conform to a given protocol specification.

Protocol Implementation eXtra Information for Testing (PIXIT): An IXIT related to testing for conformance to a given protocol specification.

static conformance review: A review of the extent to which the static conformance requirements are claimed to be supported by the UEUT, by comparing the answers in the ICS(s) with the static conformance requirements expressed in the relevant specification(s).

3.2 Symbols

No specific symbols have been identified so far.

3.3 Abbreviations

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

ENB	Evolved Node B
FFS	For Further Study
ICS	Implementation Conformance Statement
IXIT	Implementation eXtra Information for Testing
PICS	Protocol Implementation Conformance Statement
PIXIT	Protocol Implementation eXtra Information for Testing
SCS	System Conformance Statement
TC	Test Case (standards iteh ai)
UEUT	Test Case (standards.iteh.ai) User Equipment Under Test

4 Recommended a Cest Gase Applicability 4449752533e/etsi-ts-136-523-2-v16-7-0-2021-01

The applicability of each individual test is identified in Table 4-1. This is just a recommendation based on the purpose for which the test case was written.

The applicability of every test is formally expressed by the use of Boolean expression that are based on parameters (ICS) included in annex A of the present document.

Additional information related to the Test Case (TC), e.g. affecting its dynamic behaviour or its execution may be provided as well.

When a test case is to be executed against a category M1 UE and with IMS enabled, it is assumed that the UE is compliant to GSMA profile NG.108 [55].

The columns in Table 4-1 have the following meaning:

Clause

The clause column indicates the clause number in TS 36.523-1 [19] that contains the test body.

Title

The title column describes the name of the test and contains the clause title of the clause in TS 36.523-1 [19] that contains the test body.

Release

The release column indicates the earliest release from which the test case is applicable. In some specific cases it may indicate the release(s) for which the TC is **only** applicable.

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Note: Some exceptions to this interpretation may be indicated in Notes in column 'Number of TC Executions' e.g. see Note 3 Table 4-1.

Applicability - Condition

The following notations are used for the applicability column:

R	recommended - the test case is recommended
0	optional – the test case is optional
N/A	not applicable - in the given context, the test case is not recommended.
Ci	conditional - the test is recommended ("R") or not ("N/A") depending on the support of other items. "i" is an integer identifying an unique conditional status expression which is defined immediately following the table. For nested conditional expressions, the syntax "IF THEN (IF THEN ELSE) ELSE" is used to avoid ambiguities.

NOTE: The conditions are defined in Table 4-1a.

Applicability - Comments

This column contains a verbal description of the condition.

Additional Information - Specific ICS

This column contains the mnemonics of ICS(s) affecting the dynamic behaviour of the TC.

NOTE: ICS items specified in 3GPP TS 34.123-2 [8] and 3GPP TS 34.229-2 [45] can be referred, to avoid redundant definitions. (standards.iteh.ai)

Additional Information - Specific IXIT

This column contains the mnemonics of IXIT(s) affecting the dynamic behaviour of the TC.

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Additional Information - Number of TC Executions

This column contains, wherever applicable, the recommended for certification purposes number of TC executions. It may contain also other information e.g. exceptions to the release applicable to the test. Clarifying notes are listed in Table 4-1b.

Additional Information - Release other RAT

In regard to a particular test case, this column provides information on the release which is used by the simulated network in the other (i.e. non E-UTRA) RAT(s) where applicable. For each applicable RAT the release shall be indicated in the format 'Rel-X RAT'. When multiple RATs are applicable the entries per RAT shall be separated by a comma. When a value for a 3GPP RAT is not provided but the RAT is in the scope of the test case then for this RAT the release indicated in the Release column applies (per default).

EXAMPLES:

Rel-9 UTRA FDD, Rel-8 GERAN or simply as Rel-9 UTRA FDD (meaning that the UTRA FDD will simulate Rel-9 and the GERAN Rel-8 behaviours)

Rel-9 UTRA TDD

(meaning that the UTRA LCR TDD network will simulate Rel-9 behaviours)

Image: constraint of	Clause	TC Title	Release	Applicability		Additional Information			
6.1.1.1 PLNN selection of RPLMN, HPLMN/EHPLMN, UPLMN and OPLMN / Automatic mode Rel-8 R UEs supporting E-UTRA FOD and E-UTRA DD and E-UTRA FOD and FOD FOD F				Condition	Comment	Specific ICS	Specific IXIT		Release other RA
and OPLMN / Automatic mode TC 6.1.1 behalled 6.1.1.1a PLMN selection / Automatic mode / between FDD and TDD Rel-8 C142 UEs supporting E-UTRA FDD and E-UTRA TDD Ether TC 6.1.1.1 behalled executed. (Note 4) 6.1.1.1.1 PLMN selection of RPLMN, HPLMN/EHPLMN, UPLMN and OPLMN / Automatic mode / Single Frequency operation Rel-8 R UEs supporting E-UTRA FDD and E-UTRA FDD Ether TC 6.1.1.2 or TC 6.1.1.2 behalled executed. (Note 4) 6.1.1.2 combinations' / Automatic mode Rel-8 R UEs supporting E-UTRA single frequency only equivalent of TC 6.1.1.2 Ether TC 6.1.1.2 or TC 6.1.1.2 behalled executed. (Note 4) 6.1.1.2 combinations' / Automatic mode Rel-8 R UEs supporting E-UTRA pc_eFDD Ether TC 6.1.1.2 or TC 6.1.1.2 behalled executed. (Note 4) 6.1.1.2 PLMN selection of 'Other PLMN/access technology operation Rel-8 R UEs supporting E-UTRA pc_eFDD Ether TC 6.1.1.2 behalled executed. (Note 4) 6.1.1.3 Cell reselection of ePLMN in manual mode Rel-8 C388 UEs supporting E-UTRA pc_eFDD FC 6.1.1.3 behall be executed. (Note 4) 6.1.1.3 Cell reselection of ePLMN in manual mode / between FDD and TDD Rel-8 C388 UEs supporting E-UTRA pc_eFDD FC 6.1.1.3 or TC 6.1.1.3 behall be executed. (Note 4) FC 6.1.1.3 or TC 6.1.1.3 behall be execute	6	IDLE MODE							
6.1.1.1a PLMN selection / Automatic mode/ between FDD and TDD Rel-8 C142 C142 DC PDD and E-UTRA TDD Either TC 6.1.1.1 or TC 6.1.1.1 ball be executed. (Note 4) 6.1.1.1a PLMN selection of RPLMN, HPLMN/EHPLMN, UPLMN, and OPLMN / Automatic mode / Single Frequency operation Rel-8 R UEs supporting E-UTRA This test is cells on single frequency only equivalent of TC 6.1.1.2 or TC 6.1.1.2 aball be executed. (Note 4) Either TC 6.1.1.2 or TC 6.1.1.2 aball be executed. (Note 4) 6.1.1.2 PLMN selection of "Other PLMN/access technology operation Rel-8 R UEs supporting E-UTRA point of 0.1.2 or TD 0 Either TC 6.1.1.2 or TC 6.1.1.2 aball be executed. (Note 4) 6.1.1.2 Cell reselection of "Other PLMN/access technology operation Rel-8 R UEs supporting E-UTRA point of 0.1.2 or TD 0 Either TC 6.1.1.2 or TC 6.1.1.2 aball be executed. (Note 4) 6.1.1.3 Cell reselection of ePLMN in manual mode Rel-8 R UEs supporting E-UTRA point field regree point point field regree point poin	6.1.1.1		Rel-8	R	UEs supporting E-UTRA	pc_eFDD		TC 6.1.1.1b shall be	
TDD FDD and EUTRA TDD FDD and FDD FEIther TC 6.11.3 or TC 6.11.3 or TC 6.1.1.3 or TC 6.1.						pc_eTDD		()	
and OPLMV Automatic mode / Single Frequency operation This test is cells on single frequency only equivalent of TC 6.1.1.1 TC 6.1.1.10 TC 6.1.1.10 TC 6.1.1.10 TC 6.1.1.10 6.1.1.2 PLMN selection of 'Other PLMV/access technology combinations" / Automatic mode / Single Frequency operation Rel-8 R UEs supporting E-UTRA pc_eFDD Ether TC 6.1.1.20 TC 6.1.1.20 Ether TC 6.1.1.20 TC 6.1.1.20 Ether TC 6.1.1.20 TC 6.1.1.20 6.1.1.2 PLMN selection of 'Other PLMV/access technology operation Rel-8 R UEs supporting E-UTRA on single Frequency only equivalent of 6.1.1.2 pc_eFDD Ether TC 6.1.1.3 or TC 6.1.1.30 trait is executed. (Note 4) 6.1.1.3 Cell reselection of ePLMN in manual mode / between FDD and TDD Rel-8 C388 UEs supporting E-UTRA and (NOT Category M1 AND (Intra-frequency Res_CONNECTED))) pc_eFDD Ether TC 6.1.1.3 or TC 6.1.1.30 thail be executed. (Note 4) 6.1.1.3a Cell reselection of ePLMN in manual mode / between FDD and TDD FRel-6 FD and TDD FRel-6 FT and (NOT Category M1 AND (Intra-frequency RSRQ measurements in RRQ_CONNECTED))) pc_eFDD Note 3 6.1.1.3b Cell reselection of ePLMN in manual mode / Single Frequency operation FRel-6 FT and (NOT Category M1 AND (Intra-frequency RSRQ_measurements in RSRQ_CONNECTED))) pc_eFDD Ether TC 6.1.1.3 or TC 6.1.1.3b shall be executed. (Note 4) 6.1.1.3b Ce	6.1.1.1a		Rel-8	C142					
6.1.1.2 PLMN selection of "Other PLMN/access technology combinations" / Automatic mode Rel-8 R UEs supporting E-UTRA pc_eFDD Either TC 6.1.1.2 or TC 6.1.1.2 or TC 6.1.1.2 or TC 6.1.1.2 article executed. (Note 4) 6.1.1.2a PLMN selection of "Other PLMN/access technology combinations" / Automatic mode / Single Frequency operation Rel-8 R UEs supporting E-UTRA in the test is cells on single frequency only equivalent of 6.1.1.2 Either TC 6.1.1.2 or TC 6.1.1.2 article executed. (Note 4) 6.1.1.3 Cell reselection of ePLMN in manual mode Rel-8 C388 C388 UEs supporting E-UTRA in the test is cells on single frequency only executed. (Note 4) Either TC 6.1.1.3 or TC 6.1.1.3 article executed. (Note 4) 6.1.1.3 Cell reselection of ePLMN in manual mode / between FDD and TDD Rel-8 C388 UEs supporting E-UTRA in the test is cells on single frequency only executed. (Note 4) Either TC 6.1.1.3 or TC 6.1.1.3	6.1.1.1b	and OPLMN / Automatic mode / Single Frequency	Rel-8	R	This test is 'cells on single frequency only'			TC 6.1.1.1b shall be	
combinations' / Automatic mode Rel-8 Rel-8 Rel-8 Rel-8 Rel-8 C388 UEs supporting E-UTRA This test is cells on single frequency only equivalent of 6.1.1.2 pc_eTDD Either TC 6.1.1.2 a shall be executed. (Note 4) 6.1.1.3 Cell reselection of ePLMN in manual mode / between FDD and TDD Rel-8 C388 UEs supporting E-UTRA This test is cells on single frequency equivalent of 6.1.1.2 pc_eTDD Either TC 6.1.1.3 or TC 6.1.1.3 b shall be executed. (Note 4) 6.1.1.3 Cell reselection of ePLMN in manual mode / between FDD and TDD Rel-8 C388 UEs supporting E-UTRA TRA RSRQ measurements in RRC_CONNECTED)) pc_eTDD Either TC 6.1.1.3 or TC 6.1.1.3b shall be executed. (Note 4) 6.1.1.3b Cell reselection of ePLMN in manual mode / between FDD and TDD Rel-9 C388 UEs supporting E-UTRA FDD and E-UTRA TDD and (MOT Category M1 ADD (intra-frequency RSRQ measurements in RRC_CONNECTED))) Note 3 6.1.1.3b Cell reselection of ePLMN in manual mode / between Frequency PSRP and RSRQ RSRP and RSRQ measurements in RRC_CONNECTED))) Note 3 6.1.1.3b Cell reselection of ePLMN in manual mode / Single Frequency operation RRel-9 C388 C388 C388 Rel-9 C388 Rel-9 RC RC RC RC RC RC RC RC RC <td>6110</td> <td>DI MN aplastian of "Other DI MN/appage technology</td> <td>Bol 9</td> <td>В</td> <td>LIEs supporting E LITRA</td> <td></td> <td></td> <td>Either TC 6 1 1 2 or</td> <td></td>	6110	DI MN aplastian of "Other DI MN/appage technology	Bol 9	В	LIEs supporting E LITRA			Either TC 6 1 1 2 or	
6.1.1.2a PLMN selection of "Other PLMN/access technology combinations" / Automatic mode / Single Frequency operation Rel-8 R UEs supporting E-UTRA This test is 'cells on single frequency only' equivalent of 6.1.2 pc_eFDD Either TC 6.1.1.2 or TC 6.1.1.2 ashall be executed. (Note 4) 6.1.1.3 Cell reselection of ePLMN in manual mode Rel-8 C388 UEs supporting E-UTRA and ((NOT Category M1 AND (intra-frequency RSRP and RSRQ measurements in RRC_CONNECTED))) Either TC 6.1.1.3 or TC 6.1.1.3b shall be executed. (Note 4) 6.1.1.3 Cell reselection of ePLMN in manual mode / between Rel-9 C389 UEs supporting E-UTRA and ((NOT Category M1 AND (intra-frequency RSRP and RSRQ measurements in RRC_CONNECTED))) Either TC 6.1.1.3 or TC 6.1.1.3b shall be executed. (Note 4) 6.1.1.3b Cell reselection of ePLMN in manual mode / between Rel-9 C389 UEs supporting E-UTRA and (NOT Category M1 AND (intra-frequency RSRP and RSRQ measurements in RRC_CONNECTED))) Note 3 6.1.1.3b Cell reselection of ePLMN in manual mode / between Rel-9 C389 C389 C389 MC 6.1.1.3b Cell reselection of ePLMN in manual mode / between Rel-9 C389 C389 MC MC Either TC 6.1.1.3 or TC 6.1.1.3 or TC 6.1.1.3 or TC 6.1.1.3 or TC 6.1.1.3 or TC 6.1.1.3 or	0.1.1.2		Rei-o	ĸ	Des supporting E-OTRA	рс_егоо		TC 6.1.1.2a shall be	
combinations" / Automatic mode / Single Frequency operation This test is cells on single frequency only equivalent of 6.1.1.2 This test is cells on single frequency only equivalent of 6.1.1.2 This test is cells on single frequency only equivalent of 6.1.1.2 This test is cells on single frequency only equivalent of 6.1.1.2 This test is cells on single frequency only equivalent of 6.1.1.2 This test is cells on single frequency only equivalent of 6.1.1.2 This test is cells on single frequency only equivalent of 6.1.1.2 This test is cells on single frequency only equivalent of 6.1.1.2 This test is cells on single frequency only equivalent of 6.1.1.2 This test is cells on single frequency only equivalent of 6.1.1.2 This test is cells on single frequency only This test is cells on single frequency only This test is cells on This test is cells on<						pc_eTDD			
6.1.1.3 Cell reselection of ePLMN in manual mode Rel-8 C388 UEs supporting E-UTRA and ((NOT Category M1 AND (intra-frequency RSRQ measurements in RC_CONNECTED))) Note 3 6.1.1.3b Cell reselection of ePLMN in manual mode / Single State 8 State 8 State 8 State 8 State 8 Pc_eFDD Note 3 6.1.1.3b Cell reselection of ePLMN in manual mode / Single State 8 State 8 State 8 State 8 State 8 State 8 Pc_eFDD Either TC 6.1.1.3 or TC 6.1.1.3 b shall be executed. (Note 4) equivalent of 6.1.1.3	6.1.1.2a	combinations" / Automatic mode / Single Frequency	Rel-8	R	This test is 'cells on single frequency only'	pc_eFDD		TC 6.1.1.2a shall be	
and ((NOT Category M1) MND (intra-frequency RSRQ measurements in RSRP and RSRQ measurements in RSRP and RSRQ measurements in RSRC_CONNECTED))) TC 6.1.1.3b shall be executed. (Note 4) 6.1.1.3a Cell reselection of ePLMN in manual mode / between FDD and TDD TC 6.1.1.3b shall be executed. (Note 4) 6.1.1.3b Cell reselection of ePLMN in manual mode / between FDD and TDD TC 6.1.1.3b shall be executed. (Note 4) 6.1.1.3b Cell reselection of ePLMN in manual mode / between FDD and TDD TC 6.1.1.3b shall be executed. (Note 4) 6.1.1.3b Cell reselection of ePLMN in manual mode / between FDD and TDD TC 6.1.1.3b shall be executed. (Note 4) 6.1.1.3b Cell reselection of ePLMN in manual mode / Single Frequency operation TC 6.1.1.3c Rel-8.102 TC 6.1.1.3c Rel-8.102 6.1.1.3b Cell reselection of ePLMN in manual mode / Single Frequency operation Rel-8.102 Rel-8.102 TC 6.1.1.3c Rel-8.102 TC 6.1.1.3c rt C 6.1.1.3c	6113	Cell reselection of ePI MN in manual mode	Rel-8	C388	UEs supporting E-UTRA			Fither TC 6 1 1 3 or	
6.1.1.3a Cell reselection of ePLMN in manual mode / between FDD and TDD Rel-9 C389 UEs supporting E-UTRA FDD and E-UTRA TDD and ((NOT Category M1) OR (Category M1 AND (intra-frequency RSRQ measurements and interfrequency RSRP and RSRQ measurements in RRC_CONNECTED))) Note 3 6.1.1.3b Cell reselection of ePLMN in manual mode / Single Frequency operation Rel-8 C Rel-8 C Rel-8 C Rel-8 C Rel-8 C Rel-8 C C Rel-8 C <t< td=""><td></td><td></td><td>https://standard 4aaf</td><td>Te</td><td>AND (intra-frequency RSRQ measurements and inter-frequency RSRP and RSRQ measurements in</td><td></td><td></td><td>executed. (Note 4)</td><td></td></t<>			https://standard 4aaf	Te	AND (intra-frequency RSRQ measurements and inter-frequency RSRP and RSRQ measurements in			executed. (Note 4)	
FDD and TDD FDD and E-UTRA TDD and (INOT Category M1) OR (Category M1 AND (intra-frequency RSRQ measurements and interfrequency RSRP and RSRQ measurements in RRC_CONNECTED))) FDD and E-UTRA TDD and (INOT Category M1) OR (Category M1) OR (Category M1 AND (intra-frequency RSRQ measurements in RRC_CONNECTED))) 6.1.1.3b Cell reselection of ePLMN in manual mode / Single Frequency operation FRel-8 Cell reselection of 6.1.1.3 FDD and E-UTRA TDD and (INOT Category M1) OR (Category M1) OR (Category M1 AND (intra-frequency RSRQ measurements in RRC_CONNECTED))) FDD and E-UTRA TDD and (INOT Category M1) OR (Category M1 AND (intra-frequency RSRP and RSRQ measurements in RRC_CONNECTED))) FEILER TC 6.1.1.3 or TC 6.1.1.3 brall be executed. (Note 4)	61100	Call resoluction of aDLMN in manual mode / hotuson	Y	C200		pc_eruu		Note 2	
Frequency operation This test is 'cells on single frequency only' equivalent of 6.1.1.3 This test is 'cells on single frequency only' equivalent of 6.1.1.3		FDD and TDD	<u>TSI TS 136 523-2</u> 2h ai/catalog/standi 2533e/etsi-ts-136	FANDA standar	FDD and E-UTRA TDD and ((NOT Category M1) OR (Category M1 AND (intra-frequency RSRQ measurements and inter- frequency RSRP and RSRQ measurements in RRC_CONNECTED)))				
	6.1.1.3b			S.I.	This test is 'cells on single frequency only'			TC 6.1.1.3b shall be	
	6111	DI MNI extension in charged notice the section sector	==6						
6.1.1.4 PLMN selection in shared network environment / Automatic mode UEs supporting E-UTRA pc_eFDD pc_eTDD	0.1.1.4				UES SUPPORING E-UTRA	. –			

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Clause	TC Title	Release			Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RA
6.1.1.4a	PLMN selection in shared network environment / Automatic mode / Between FDD and TDD	Rel-8	C389	UEs supporting E-UTRA FDD and E-UTRA TDD and ((NOT Category M1) OR (Category M1 AND (intra-frequency RSRQ measurements and inter- frequency RSRP and RSRQ measurements in RRC_CONNECTED)))				
6.1.1.6	PLMN selection of RPLMN, HPLMN/EHPLMN, UPLMN and OPLMN / Automatic mode / User reselection	Rel-8	C157a	UEs supporting E-UTRA and user initiated PLMN reselection in automatic mode and ((NOT Category M1) OR (Category M1 AND (intra-frequency RSRQ measurements and inter- frequency RSRP and RSRQ measurements in RRC_CONNECTED)))	pc_eFDD		Either TC 6.1.1.6 or TC 6.1.1.6a shall be executed. (Note 4)	
					pc_eTDD			
6.1.1.6a	PLMN selection of RPLMN, HPLMN/EHPLMN, UPLMN and OPLMN / Automatic mode / User reselection / Single Frequency operation	Rel-8	C157	UEs supporting E-UTRA and user initiated PLMN reselection in automatic mode. This test is 'cells on single frequency only' equivalent of 6.1.1.6	pc_eFDD		Either TC 6.1.1.6 or TC 6.1.1.6a shall be executed. (Note 4)	
6.1.1.7	PLMN selection / Periodic reselection / MinimumPeriodicSearchTimer	ETSI TS 136 523-2 V and ards.iteh ai/catalog/standards 4aaf9752533e/etsi-ts-136-52	c179a	UEs supporting E-UTRA and MinimumPeriodicSearch Timer and not supporting "Fast First Higher Priority PLMN search" and ((NOT Category M1) OR (Category M1 AND (intra-frequency RSRQ measurements and inter- frequency RSRP and RSRQ measurements in RRC_CONNECTED)))	pc_eFDD		Either TC 6.1.1.7 or TC 6.1.1.7a shall be executed. (Note 4)	
6.1.1.7a	PLMN selection / Periodic reselection / MinimumPeriodicSearchTimer / Single Frequency operation	1 <u>6.7.0 (2021-01)</u> 1 <u>6</u> .7.0 (2021-01) 1 <u>6</u> .3 1 <u>6</u> .3 1 <u>7</u> .2-v16-7-0-2021-0	D PREVI ¹⁸ iteh.ai)	UEs supporting E-UTRA and MinimumPeriodicSearch Timer and not supporting "Fast First Higher Priority PLMN search". This test is 'cells on single frequency only' equivalent of 6.1.1.7	pc_eFDD		Either TC 6.1.1.7 or TC 6.1.1.7a shall be executed. (Note 4)	
6.1.1.8	PLMN selection of RPLMN or (E)HPLMN; Automatic mode	-4-8 Rel-8	C212 a	UEs supporting E-UTRA and EF_LRPLMSI_Exception and ((NOT Category M1)	pc_eFDD			

6.1.2.1 Vo			Condition	Comment	0			
6.1.2.1 Vo				Common	Specific ICS	Specific IXIT	Number of TC Executions	Release other RA
6.1.2.1 Vo				OR (Category M1 AND				
6.1.2.1 Vo				(intra-frequency RSRQ				
6.1.2.1 Vo				measurements and inter-				
6.1.2.1 Vo				frequency RSRP and				
6.1.2.1 Vo				RSRQ measurements in				
6.1.2.1 Vo				RRC_CONNECTED)))				
6.1.2.1 Vo					pc_eTDD			
	LMN selection of RPLMN or (E)HPLMN; Manual mode	Rel-8	C213	UEs supporting E-UTRA	pc_eFDD			
				and				
				ManualModeNetworkSel				
				ectionException			_	
	oid				pc_eTDD			
-	ell selection / Q _{rxlevmin}	Rel-8	C224c	UEs supporting E-UTRA	pc_eFDD			
1				and NOT Category M1				
					pc_eTDD			_
6.1.2.2a Ce	ell selection / Q _{qualmin}	Rel-9	C224c	UEs supporting E-UTRA and NOT Category M1	pc_eFDD		Note 3	
				and NOT Category MIT	pc_eTDD		_	
6.1.2.2b Ce	ell selection / UE Cat 0 not allowed	Rel-12	C224	UEs supporting E-UTRA	pc_eFDD			
				and UE Category 0	. –			
		5 1 4 5	0.07.4		pc_eTDD			
6.1.2.2c Ce	ell selection / Q _{rxlevmin} / Enhanced Coverage	Rel-13	C254	UEs supporting E-UTRA and (CE mode A or CE	pc_eFDD			
		https		mode B)				
		ps	•	mode D)	pc eTDD			
6.1.2.2d Ce	ell selection / Q _{qualmin} / Enhanced Coverage	Rel-13	C254	UEs supporting E-UTRA	pc_eFDD			
		an	P	and (CE mode A or CE				
		andar 4a:		mode B)				
		Ľ Ó.	, —		pc_eTDD			
	ell selection / Intra E-UTRAN / Serving cell becomes	Rel-8	C388	UEs supporting E-UTRA	pc_eFDD			
no	on-suitable (S<0 or barred)	S P F		and ((NOT Category M1)				
		<u>ISI TS</u> h.ai/cat	Sta	OR (Category M1 AND				
		33 16 T		(intra-frequency RSRQ				
		ele S		measurements and inter-				
		136 talog/	d 4	frequency RSRP and RSRQ measurements in				
		STSI TS 136 52: eh.ai/catalog/sta 52533e/etsi-ts-1		RRC_CONNECTED)))				
		<u>52</u> /stai /stai			pc_eTDD			
6.1.2.3a Ce	ell selection / Intra E-UTRAN / Serving cell becomes	5 Rel-9	R C	UEs supporting E-UTRA	pc_eFDD		Note 3	
	on-suitable (Srxlev > 0 and Squal < 0)	$\frac{2}{10}$ M $\frac{1}{10}$ M 1	R		. –			
		a a c	•		pc_eTDD			
6.1.2.4 Ce	ell reselection	Rel-8		UEs supporting E-UTRA	pc_eFDD			
6.1.2.5 Ce	ell reselection for interband operation	Rel-8	C184 a 🗸	UEs supporting E-UTRA	pc_eTDD pc_eFDD			
0.1.2.0				and more than 1 FDD or	pc_eroo			
		.7 <u>-</u> (TDD E-UTRA band and		1		
		<u>1-0</u>		((NOT Category M1) OR		1		
		BYE		(Category M1 AND		1		
		-67;		(intra-frequency RSRQ				
				measurements and inter-				
		<u>4</u>		frequency RSRP and				
		15		RSRQ measurements in		1		
		<u>021-01)</u> 78006-67af-415c-90 -7-0-2021-01		RRC_CONNECTED)))				
		9066-			pc_eTDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RA
6.1.2.5a	Cell reselection for interband operation/ Power Class 2 UE operation/ Between FDD and TDD	Rel-14	C281	UEs supporting E-UTRA FDD and E-UTRA TDD and Bands38, 40, 41 and 42 Power class 2 operation and NOT Category M1	pc_eFDD		Note 17	
6.1.2.5b	Cell reselection for interband operation using Pcompensation / Between FDD and TDD	Rel-14	C389	UEs supporting E-UTRA FDD and E-UTRA TDD and ((NOT Category M1) OR (Category M1 AND (intra-frequency RSRQ measurements and inter- frequency RSRP and RSRQ measurements in RRC CONNECTED)))			Note 17	
6.1.2.5c	Inter-band cell reselection / Extended frequency list	Rel-12	C184 a	UEs supporting E-UTRA and more than 1 FDD or TDD E-UTRA band and ((NOT Category M1) OR (Category M1 AND (intra-frequency RSRQ measurements and inter- frequency RSRP and RSRQ measurements in RRC_CONNECTED)))	pc_eFDD			
		6			pc_eTDD			
6.1.2.6	Cell reselection using Q _{hyst} , Q _{offset} and T _{reselection}	Rel-8	C224c	UEs supporting E-UTRA and NOT Category M1	pc_eFDD			
6.1.2.6a	Cell reselection using Treselection / Enhanced Coverage	Alanderds.itel	C254	UEs supporting E-UTRA and (CE mode A or CE mode B)	pc_eTDD pc_eFDD pc_eTDD			
6.1.2.6b	Cell reselection for enhanced coverage	84 TS 136 523-2 V16.7 hojicatalog/standards/sist hojicatalog/standards/sist	candards.i	UEs supporting E-UTRA and (CE mode A or CE mode B) and ((NOT Category M1) OR (Category M1 AND (intra-frequency RSRQ measurements and inter- frequency RSRP and RSRQ measurements in RRC_CONNECTED)))	pc_eFDD			
6.1.2.7	Cell reselection / Equivalent PLMN	7.0, (2021-01) st/10 d78006-67af-41 2-v16-7-0-2021-01	PREVIH teh.ai)	UEs supporting E-UTRA and ((NOT Category M1) OR (Category M1 AND (intra-frequency RSRQ measurements and inter- frequency RSRP and RSRQ measurements in RRC_CONNECTED)))	pc_eTDD pc_eFDD pc_eTDD		Either TC 6.1.2.7 or TC 6.1.2.7a shall be executed. (Note 4)	
6.1.2.7a	Cell reselection / Equivalent PLMN / Single Frequency operation	Rel-8 906b-	R	UEs supporting E-UTRA. This test is 'cells on	pc_eFDD pc_eFDD		Either TC 6.1.2.7 or TC 6.1.2.7a shall be executed. (Note 4)	

Clause	TC Title	Release	Applicability		Additional Information	-		
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RA
				single frequency only '				
				equivalent of 6.1.2.7	pc eTDD		_	
6.1.2.8	Cell reselection using cell status and cell reservations /	Rel-8	C388	UEs supporting E-UTRA	pc_eFDD		Either TC 6.1.2.8 or	
0.1.2.0	Access control class 0 to 9	Kero	0.000	and ((NOT Category M1) OR (Category M1 AND (intra-frequency RSRQ measurements and inter- frequency RSRP and RSRQ measurements in RRC_CONNECTED)))	pc_ei DD		TC 6.1.2.8a shall be executed. (Note 4)	
					pc_eTDD			
6.1.2.8a	Cell reselection using cell status and cell reservations / Access control class 0 to 9 / Single Frequency operation	Rel-8	R	UEs supporting E-UTRA. This test is 'cells on single frequency only ' equivalent of 6.1.2.8	pc_eFDD		Either TC 6.1.2.8 or TC 6.1.2.8a shall be executed. (Note 4)	
		D 1 0	0004		pc_eTDD			
6.1.2.9	Cell reselection using cell status and cell reservations / Access control class 11 to 15	Rel-8	C224c	UEs supporting E-UTRA and NOT Category M1	pc_eFDD		Either TC 6.1.2.9 or TC 6.1.2.9a shall be executed. (Note 4)	
					pc_eTDD			
6.1.2.9a	Cell reselection using cell status and cell reservations / Access control class 11 to 15 / Single Frequency operation	Rel-8 https	R	UEs supporting E-UTRA. This test is 'cells on single frequency only ' equivalent of 6.1.2.9	pc_eFDD		Either TC 6.1.2.9 or TC 6.1.2.9a shall be executed. (Note 4)	
			•	-	pc_eTDD			
6.1.2.10	Cell reselection in shared network environment	Rel-8	R 🛏	UEs supporting E-UTRA	pc_eFDD			
					pc_eTDD			
6.1.2.11	Inter-frequency cell reselection	<u>ETSI TS 13</u> <u>p</u> ards.iteh.ai/catalo 4aaf9752533e/etsi	c388h STAN (stand	UEs supporting E-UTRA and ((NOT Category M1) OR (Category M1 AND (intra-frequency RSRQ measurements and inter- frequency RSRP and RSRQ measurements in RRC_CONNECTED)))	pc_eFDD pc_eTDD			
6.1.2.11a	Inter-frequency cell reselection / Extended frequency list	Rel-12	C 388	UEs supporting E-UTRA	pc_eFDD			
		<u>23-2 V16.7.0 (20</u> tandards/sist/91d7 -136-523-2-v16-	ARD Pl nrds.iteh	and ((NOT Category M1) OR (Category M1 AND (intra-frequency RSRQ measurements and inter- frequency RSRP and RSRQ measurements in RRC_CONNECTED)))	pc_eTDD			
6.1.2.12	Cell reselection / Cell-specific reselection parameters	Rel-8	C388	UEs supporting E-UTRA	pc_eFDD			
	provided by the network in a neighbouring cell list	<u>1-01)</u> 06-67af-415c-9 0-2021-01	EVIEW ai)	and ((NOT Category M1) OR (Category M1 AND (intra-frequency RSRQ measurements and inter- frequency RSRP and RSRQ measurements in RRC_CONNECTED)))	pc_eTDD			
			/		Po_cipp	1		1

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