**3GPP TSG- Meeting # *R5-24XXXX***

**Netherlands, –**

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| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  |  | **CR** | **XXXX** | **rev** |  | **Current version:** | **17.7.0** |  |
|  | | | | | | | | |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* | | | | | | | | |
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| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network |  |

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|  | | | | | | | | | | |
| ***Title:*** | Introduction of new PICS item for Support of UICC Modification via AT Command | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Qualcomm CDMA Technologies | | | | | | | | | |
| ***Source to TSG:*** |  | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | TEI\_15 | | | | |  | ***Date:*** | | |  |
|  |  | | | |  | |  | | |  |
| ***Category:*** |  |  | | | | | ***Release:*** | | |  |
|  | *Use one of the following categories:* ***F*** *(correction)* ***A*** *(mirror corresponding to a change in an earlier release)* ***B*** *(addition of feature),* ***C*** *(functional modification of feature)* ***D*** *(editorial modification)*  Detailed explanations of the above categories can be found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | | | | | | | | *Use one of the following releases: Rel-8 (Release 8) Rel-9 (Release 9) Rel-10 (Release 10) Rel-11 (Release 11) … Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)  Rel-20 (Release 20)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | To enable SS Automation, a new PICS needs be introduced for UE support of AT command to update test case specific USIM configuration specified in TS 38.508-1 cl6.4 or default generic test profile in case of eUICC.  Reference for TS 27.007 and GSMA TS48 needs to be added | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Introdued new PICS items under clause A4.4 for UE supporting AT command to update test case specific USIM configuration specified in TS 38.508-1 cl6.4 or equivalent sections of default generic test profile in case of eUICC.  Under clause 2, the Reference section is updated to include the GSMA TS48 and TS 27.007 references. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Reference to eUICC test profile specfication and TS 27.007 would be not present in this specifications and UE indication for support of AT CMDs will be unknown to SS. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 2 (References) and A.4.4 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **X** | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | |  | **X** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | | Secretary to resolve ‘xy’ | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

<Start of modified section>

# 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 38.523-1: "5GS; UE conformance specification; Part 1: Protocol conformance specification".

[3] 3GPP TS 38.523-2: “5GS; User Equipment (UE) conformance specification; Part 2: Applicability of protocol test cases”.

[4] 3GPP TS 38.523-3: “5GS; User Equipment (UE) conformance specification; Part 3: Protocol Test Suites”.

[5] 3GPP TS 38.521-1: “NR; User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Range 1 Standalone”.

[6] 3GPP TS 38.521-2: “NR; User Equipment (UE) conformance specification; Radio transmission and reception; Part 2: Range 2 Standalone”.

[7] 3GPP TS 38.521-3: “NR; User Equipment (UE) conformance specification; Radio transmission and reception; Part 3: Range 1 and Range 2 Interworking operation with other radios”.

[8] 3GPP TS 38.521-4: “NR; User Equipment conformance specification; Radio transmission and reception; Part 4: Performance”.

[9] 3GPP TS 38.522: “NR; User Equipment (UE) conformance specification; Applicability of radio transmission, radio reception and radio resource management test cases”.

[10] 3GPP TS 38.533: “NR; User Equipment (UE) conformance specification; Radio resource management”.

[11] 3GPP TS 38.508-1: "5GS; User Equipment (UE) conformance specification; Part 1: Common test environment".

[12] 3GPP TS 38.509: "5GS; Special conformance testing functions for UE".

[13] 3GPP TS 36.508: "Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access (E-UTRAN); Common Test Environments for User Equipment (UE) Conformance Testing".

[14] 3GPP TS 36.509: "Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Special conformance testing functions for User Equipment (UE)".

[15] 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".

[16] 3GPP TS 36.523-2: "Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access (E-UTRAN); User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification".

[17] 3GPP TS 38.306: “NR; User Equipment (UE) radio access capabilities”.

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

[19] 3GPP TS 38.307: “NR; User Equipments (UEs) supporting a release-independent frequency band”.

[20] 3GPP TS 37.340:"Evolved Universal Terrestrial Radio Access (E-UTRA) and NR; Multi-connectivity; Stage 2".

[21] 3GPP TS 38.300: "NR; NR and NG-RAN Overall Description; Stage 2".

[22] 3GPP TS 24.229: "IP multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3"

[23] 3GPP TS 38.101-1: “NR; User Equipment (UE) radio transmission and reception; Part 1: Range 1 Standalone”

[24] 3GPP TS 38.101-2: “NR; User Equipment (UE) radio transmission and reception; Part 2: Range 2 Standalone”

[25] 3GPP TS 38.101-3: “NR; User Equipment (UE) radio transmission and reception; Part 3: Range 1 and Range 2 Interworking operation with other radios”

[26] 3GPP TS 23.003: “Numbering, addressing and identification”

[27] GSMA TS 48: "Generic eUICC Test Profile for Device Testing"

[28] TS 27.007: “Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; 5G; AT command set for User Equipment (UE)"

<Start of modified section>

A.4.4 Additional information

**Table A.4.4-1: Additional information**

| **Item** | **Additional information** | **Ref.** | **Release** | **Mnemonic** | **Comments** |
| --- | --- | --- | --- | --- | --- |
| 1 | Support of ICMP or ICMP IPv6 | RFC 792 OR RFC 4443, RFC 4884 | NA | pc\_IP\_Ping | UE supports ICMP or ICMPv6 protocol to enable IP Ping Operation |
| 2 | Support of IMS | 24.229, Annex U | Rel-15 | pc\_IMS\_5GS |  |
| 3 | Support of rachReport | 38.306, 4.2.17 | Rel-16 | pc\_rachReport\_r16 | UE supports delivery of rachReport upon request from the network. |
| 4 | Support of GNSS | 38.306, 4.2.18 | Rel-16 | pc\_GNSS\_location\_r16 | UE is equipped with a GNSS or A-GNSS receiver that may be used to provide detailed location information along with SON or MDT related measurements in RRC\_CONNECTED, RRC\_IDLE and RRC\_INACTIVE. |
| 5 | Support of UL PDCP Packet Average Delay | 38.306, 4.2.18 | Rel-16 | pc\_PDCP\_Delay\_r16 | UE supports UL PDCP Packet Average Delay measurement and reporting in RRC\_CONNECTED state |
| 6 | Support logged MDT | 38.306, 4.2.18 | Rel-16 | pc\_loggedMeasurements\_r16 | UE supports logged measurements in RRC\_IDLE and RRC\_INACTIVE. A UE that supports logged measurements shall support both periodical logging and event-triggered logging. The memory size of MDT logged measurements is 64KB. |
| 7 | Support of uncompensated barometric pressure measurement reporting | 38.306, 4.2.18 | Rel-16 | pc\_barometer\_r16 | UE supports uncompensated barometric pressure measurement reporting upon request from the network. |
| 8 | Support of orientation information reporting | 38.306, 4.2.18 | Rel-16 | pc\_orientation\_r16 | UE supports orientation information reporting upon request from the network. |
| 9 | Support of speed information reporting | 38.306, 4.2.18 | Rel-16 | pc\_speed\_r16 | UE supports speed information reporting upon request from the network. |
| 10 | Support of Bluetooth measurements in RRC\_CONNECTED state | 38.306, 4.2.18 | Rel-16 | pc\_immMeasBT\_r16 | UE supports Bluetooth measurements in RRC\_CONNECTED state. |
| 11 | Support of WLAN measurements in RRC\_CONNECTED state | 38.306, 4.2.18 | Rel-16 | pc\_immMeasWLAN\_r16 | UE supports WLAN measurements in RRC\_CONNECTED state. |
| 12 | Support of Bluetooth measurements in RRC\_IDLE and RRC\_INACTIVE state | 38.306, 4.2.18 | Rel-16 | pc\_loggedMeasBT\_r16 | UE supports Bluetooth measurements in RRC\_IDLE and RRC\_INACTIVE state. |
| 13 | Support of WLAN measurements in RRC\_IDLE and RRC\_INACTIVE state | 38.306, 4.2.18 | Rel-16 | pc\_loggedMeasWLAN\_r16 | UE supports WLAN measurements in RRC\_IDLE and RRC\_INACTIVE state. |
| 14 | Support of SDT in RRC\_INACTIVE state via Random Access Procedure | 38.306, 4.2.2 | Rel-17 | pc\_ra\_SDT\_r17 | UE supports SDT via Random Access procedure in RRC\_INACTIVE state |
| 15 | Support of SRB SDT in RRC\_INACTIVE state | 38.306, 4.2.2 | Rel-17 | pc\_srb\_SDT\_r17 | UE supports SRB SDT in RRC\_INACTIVE state |
| 16 | Support of SDT in RRC\_INACTIVE state via Configured Grant Type 1 | 38.306, 4.2.7.2 | Rel-17 | pc\_cg\_SDT\_r17 | UE supports SDT via Configured Grant Type 1 in RRC\_INACTIVE state |
| 17 | Support of NR NTN access | 38.306, 4.2.2 | Rel-17 | pc\_nonTerrestrialNetwork\_r17 | UE supports NR NTN access. |
| 18 | Support of RRC INACTIVE state in NTN | 38.331, 6.3.3 | Rel-17 | pc\_inactiveStateNTN\_r17 | UE supports RRC INACTIVE state in NTN |
| 19 | Support of RA-SDT in NTN | 38.331, 6.3.3 | Rel-17 | pc\_ra\_SDT\_NTN\_r17 | UE supports RA-SDT in NTN |
| 20 | Support of SRB-SDT in NTN | 38.331, 6.3.3 | Rel-17 | pc\_srb\_SDT\_NTN\_r17 | UE supports SRB-SDT in NTN |
| 21 | Support of storage and delivery of multiple CEF reports | 38.306, 4.2.18 | Rel-17 | pc\_multiple\_CEF\_Report\_r17 | UE supports the storage and delivery of multiple CEF reports upon request from the network |
| 22 | Support of the storage of Early Measurement Logging in logged measurements. | 38.306, 4.2.18 | Rel-17 | pc\_earlyMeasLog\_r17 | UE supports the storage of Early Measurement Logging in logged measurements and the reporting upon request from the network as specified in TS 38.331 |
| 23 | Support of IDC problem detection | 38.331, 6.2.2 | Rel-17 | pc\_inDeviceCoexDetected\_r17 | UE supports that measurement logging is suspended due to IDC problem detection |
| 24 | Support of delivery of on-Demand SI information upon request from the network | 38.306, 4.2.17 | Rel-17 | pc\_onDemandSI\_Report\_r17 |  |
| 25 | Support of the storage and delivery of 2-step RACH related information upon request from the network | 38.306, 4.2.17 | Rel-17 | pc\_twoStepRACH\_Report\_r17 |  |
| 26 | Support of mpsPriorityIndication on RRC release with redirect | 38.306, 4.2.2 | Rel-16 | pc\_NR\_mpsPriorityIndication\_r16 | UE supports mpsPriorityIndication on RRC release with redirect as specified in TS 38.331 |
| 27 | Support of RLF-Report for conditional handover | 38.306, 4.2.17 | Rel-17 | pc\_rlfReportCHO\_r17 | UE supports RLF-Report for conditional handover. |
| 28 | Support of RLF-Report for DAPS handover. | 38.306, 4.2.17 | Rel-17 | pc\_rlfReportDAPS\_r17 | UE supports RLF-Report for DAPS handover. |
| 29 | Support of the storage and delivery of Successful Handover Report. | 38.306, 4.2.17 | Rel-17 | pc\_success\_HO\_Report\_r17 | UE supports the storage and delivery of Successful Handover Report. |

**Table A.4.4-2: Definition of UE implementation capabilities**

| **Item** | **Definition of UE implementation capabilities** | **Ref.** | **Release** | **Mnemonic** | **Comments** |
| --- | --- | --- | --- | --- | --- |
| 1 | Void |  |  |  |  |
| 2 | Void |  |  |  |  |
| 3 | Number of UE-requested PDU session establishments after REGISTRATION during the same signalling connection | 24.501 | Rel-15 | pc\_noOf\_PDUsSameConnection | If the UE requires an external trigger to establish a PDU session, this value shall be set to 0 |
| 4 | Number of UE-requested PDU session establishments after REGISTRATION in a new signalling connection | 24.501 | Rel-15 | pc\_noOf\_PDUsNewConnection | If the UE requires an external trigger to establish a PDU session, this value shall be set to 0 |
| 5 | Number of UE-requested PDN connection establishments after ATTACH during the same signalling connection | 24.301 | Rel-15 | pc\_noOf\_PDNsSameConnection | If the UE requires an external trigger to establish a PDN connection, this value shall be set to 0 |
| 6 | Number of UE-requested PDN connection establishments after ATTACH in a new signalling connection | 24.301 | Rel-15 | pc\_noOf\_PDNsNewConnection | If the UE requires an external trigger to establish a PDN connection, this value shall be set to 0 |
| 7 | Void |  |  |  |  |
| 8 | Support of Emergency PDU session transfer from N1 mode to S1 mode when network does not support N26 interface | TS 24.501, 6.1.4.2 | Rel-15 | pc\_TransferEmergencyPDUN1toS1noN26 | Will the UE attempt to transfer an existing Emergency PDU session upon inter-system change from N1 mode to S1 mode in EMM-IDLE mode if the network does not support N26 interface |
| 9 | Support of Emergency PDN connection transfer from S1 mode to N1 mode when network does not support N26 interface | TS 24.501, 6.1.4.2 | Rel-15 | pc\_TransferEmergencyPDUS1toN1noN26 | Will the UE attempt to transfer an existing Emergency PDN connection upon inter-system change from S1 mode to N1 mode in EMM-IDLE mode if the network does not support N26 interface |
| 10 | Support of UE's usage setting as data centric | TS 24.501, 4.3.1 | Rel-15 | pc\_data\_centric | UE supports to be configured to consistently behave as a Data centric UE. |
| 11 | Support of join in MBS multicast session by sending a PDU Session Modification Request | TS 23.247  7.2.1 | Rel-17 | pc\_Join\_MBS\_by\_PDU\_Modification | If pc\_Join\_MBS\_by\_PDU\_Modification, UE join in MBS multicast session by sending a PDU Session Modification Request, else UE join in MBS multicast session by sending a PDU Session Establishment Request |
| 12 | Number of UE-requested PDU session establishments after REGISTRATION during the same signalling connection for 5G ProSe | 24.501 | Rel-17 | pc\_noOf\_PDUsSameConnection\_Relay |  |
| xy | Support of AT command to update test case specific USIM configuration as specified in TS 38.508-1,cl 6.4 or equivalent sections of default generic test profile in case of eUICC [27] | 27.007, 8.17, 8.18 | Rel-15 | pc\_USIMConfUpdate |  |

<End of modified section>