**Third Generation Partnership Project (3GPP™)**

**DRAFT Meeting Report  
for  
TSG CT WG1  
meeting: 123e**

**Electronic, Electronic, 16/04/2020 to 24/04/2020**

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## 1 Opening and welcome

The attention of the delegates to the meeting of this Technical Specification Group was drawn to the fact that 3GPP Individual Members have the obligation under the IPR Policies of their respective Organizational Partners to inform their respective Organizational Partners of Essential IPRs they become aware of.

The delegates were asked to take note that they were thereby invited:

to investigate whether their organization or any other organization owns IPRs which were, or were likely to become Essential in respect of the work of 3GPP.

to notify their respective Organizational Partners of all potential IPRs, e.g., for ETSI, by means of the IPR Information Statement and the Licensing declaration forms.

The attention of the delegates to the meeting was drawn to the fact that 3GPP activities were subject to all applicable antitrust and competition laws and that compliance with said laws was therefore required by any participant of the meeting, including the Chairman and Vice-Chairmen and were invited to seek any clarification needed with their legal counsel. The leadership would conduct the present meeting with impartiality and in the interests of 3GPP. Delegates were reminded that timely submission of work items in advance of TSG/WG meetings was important to allow for full and fair consideration of such matters. Delegates were reminded of the fair network use rules established by the PCG:

1. Users shall not use the network to engage in illegal activities. This includes activities such as copyright violation, hacking, espionage or any other activity that may be prohibited by local laws.

2. Users shall not engage in non-work related activities that are consume excessive bandwidth or cause significant degradation of the performance of the network.

Statement Regarding Engagement with Companies Added to the U.S. Export Administration Regulations (EAR) Entity List in 3GPP Activities

2019-06-03, updated 2019-08-20, replaced 2019-10-10

1. Public Information is Not Subject to EAR

3GPP is an open platform where all contributions (including technology protected or not by patent) made by the different Individual Members under the membership of each respective Organizational Partner are publicly available. Indeed, contributions by all and any Individual Members are uploaded to a public file server when received and then the documents are effectively in the public domain.

In addition, since membership of email distribution lists is open to all, documents and emails distributed by that means are considered to be publicly available.

As a result, information contained in 3GPP contributions, documents, and emails distributed at 3GPP meetings or by 3GPP email distribution lists, because it is made available to the public without restrictions upon its further dissemination, is not subject to the export restrictions of the EAR.

Meeting minutes are maintained for 3GPP meetings. Such meeting minutes for 3GPP meetings are made available to the public without restrictions upon its further dissemination. As a result, information, including information conveyed orally, contained in 3GPP meetings is not subject to the export restriction of the EAR; this would include information conveyed during side meetings that may occur during the main meetings, if these meetings are open to any participants and the results of all said meetings are publicly available without restrictions upon their further dissemination.

2. Non-Public Information

Non-public information refers to the information not contained or not intended to be contained in 3GPP contributions, documents or emails. Such non-public information may be disclosed during informal meetings, exchanges, discussions or any form of other communication outside the 3GPP meetings and email distribution lists, and may be subject to the EAR.

3. Other Information

Certain encryption software controlled under the International Traffic in Arms Regulations (ITAR), even if publicly available, may still be subject to US export controls other than the EAR.

4. Conduct of Meetings

The situation should be considered as "business as usual" during all the meetings called by 3GPP.

5. Responsibility of Individual Members

It should be remembered that contributions, meetings, exchanges, discussions or any form of other communication in or outside the 3GPP meetings are of the accountability, integrity and the responsibility of each Individual Member. In addition, Individual Members remain responsible for ensuring their compliance with all applicable export control regulations, including but not limited to EAR.

Individual Members with questions regarding the impact of laws and regulations on their participation in 3GPP should contact their companies’ legal counsels.

## 2 Agenda & reports

**C1-202000 3GPP TSG CT1#123-e – agenda for Tdoc allocation**

*Type: agenda For: Information  
 Source: CT1 chairman*

**Decision:** The document was **revised to C1-202048**.

**C1-202001 3GPP TSG CT1#123-e – agenda after Tdoc allocation deadline**

*Type: agenda For: Information  
 Source: CT1 chairman*

**Decision:** The document was **noted**.

**C1-202002 3GPP TSG CT1#123-e – agenda with proposed LS-actions**

*Type: agenda For: Information  
 Source: CT1 chairman*

**Decision:** The document was **noted**.

**C1-202003 3GPP TSG CT1#123-e – agenda at start of meeting**

*Type: agenda For: Information  
 Source: CT1 chairman*

**Decision:** The document was **noted**.

**C1-202004 3GPP TSG CT1#123-e – agenda Thursday (23rd April) evening**

*Type: agenda For: Information  
 Source: CT1 chairman*

**Decision:** The document was **noted**.

**C1-202005 3GPP TSG CT1#123-e – agenda at end of meeting**

*Type: agenda For: Information  
 Source: CT1 chairman*

**Decision:** The document was **noted**.

**C1-202006 draft C1-122e report**

*Type: report For: (not specified)  
 Source: MCC*

**Decision:** The document was **approved**.

**C1-202048 3GPP TSG CT1#123-e – agenda for Tdoc allocation**

*Type: agenda For: Information  
 Source: CT1 chairman*

(Replaces C1-202000)

**Decision:** The document was **noted**.

## 3 Work organisation

### 3.1 Meeting schedule

### 3.2 Work plan and Other adm. Issues

**C1-202007 CT1#123-e Electronic Meeting – Process and Scope**

*Type: other For: Information  
 Source: CT1 chairman*

**Decision:** The document was **noted**.

**C1-202051 work plan**

*Type: Work Plan For: (not specified)  
 Source: MCC*

**Decision:** The document was **noted**.

**C1-202055 Decision making during CT1#123e – electronic show of hands**

*Type: other For: Information  
 Source: CT1 chairman*

**Decision:** The document was **noted**.

## 4 Input LSs

**C1-202033 Specification of NAS COUNT for 5G (FSAG Doc 78\_002)**

*Type: LS in For: (not specified)  
 Original outgoing LS: FSAG Doc 78\_002, to CT1, SA3, cc -  
 Source: GSMA FSAG*

**Decision:** The document was **noted**.

**C1-202034 Mandatory User Plane Integrity for 5G (FSAG Doc 79\_002)**

*Type: LS in For: (not specified)  
 Original outgoing LS: FSAG Doc 79\_002, to TSG SA, TSG RAN, TSG CT, RAN2, SA3, CT1, SA2, cc -  
 Source: GSMA FSAG*

**Decision:** The document was **noted**.

**C1-202035 LS Reply on QoS mapping procedure for FLUS (C3-201460)**

*Type: LS in For: (not specified)  
 Original outgoing LS: C3-201460, to SA4, cc CT1  
 Source: CT3*

**Abstract:**

notes from FF: attachments were missing in the original LS, I added them

**Decision:** The document was **noted**.

**C1-202036 LS on Proposal to transfer the study on service-based support for SMS in 5GC to CT WGs (CP-193301)**

*Type: LS in For: (not specified)  
 Original outgoing LS: CP-193301, to TSG SA, cc SA2, CT1, CT4  
 Source: TSG CT*

**Discussion:**

Rel-17

**Decision:** The document was **postponed**.

**C1-202037 LS on MO exception data (C4-201003)**

*Type: LS in For: (not specified)  
 Original outgoing LS: C4-201003, to SA2, cc RAN2, CT1  
 Source: CT4*

**Decision:** The document was **noted**.

**C1-202038 SMS and UDM (C4-201045)**

*Type: LS in For: (not specified)  
 Original outgoing LS: C4-201045, to SA2, CT1, cc -  
 Source: CT4*

**Decision:** The document was **noted**.

**C1-202039 LS on the Usage of Version ID (C4-2011218)**

*Type: LS in For: (not specified)  
 Original outgoing LS: C4-2011218, to SA2, cc CT1  
 Source: CT4*

**Decision:** The document was **noted**.

**C1-202040 Reply LS on Further clarifications on GLI/GCI and Line ID/ HFC\_Identifier (C4-201220)**

*Type: LS in For: (not specified)  
 Original outgoing LS: C4-201220, to SA2, BBF, CableLabs, cc CT1, SA3, RAN3  
 Source: CT4*

**Decision:** The document was **noted**.

**C1-202041 LS on subscribe/notify for 5G Steering of Roaming (C4-201221)**

*Type: LS in For: (not specified)  
 Original outgoing LS: C4-201221, to CT1, cc SA2  
 Source: CT4*

**Discussion:**

Reply LS in C1-202067 and C1-202151

Related CRs in C1-202068, C1-202069, C1-202152

**Decision:** The document was **noted**.

**C1-202042 Clarification on encryption requirements for AGF interfaces (N1, N2, N3) [WWC] (LIAISE-382)**

*Type: LS in For: (not specified)  
 Original outgoing LS: LIAISE-382, to CT3, SA2, CT1, CT4, RAN3, cc -  
 Source: Broadband Forum*

**Decision:** The document was **noted**.

**C1-202043 LS on RRC establishment cause value in EPS voice fallback from NR to E-UTRAN (R2-1916530)**

*Type: LS in For: (not specified)  
 Original outgoing LS: R2-1916530, to CT1, cc -  
 Source: RAN2*

**Decision:** The document was **noted**.

**C1-202044 Reply LS on Rel-16 NB-IoT enhancements (R2-2001815)**

*Type: LS in For: (not specified)  
 Original outgoing LS: R2-2001815, to SA2, CT1, RAN3, SA, cc TSG RAN, TSG CT  
 Source: RAN2*

**Discussion:**

CT1 questions in C1-201024 are not answered, no consensus in RAN2

**Decision:** The document was **noted**.

**C1-202045 LS on Manual CAG ID selection and granularity of UAC parameters for PNI-NPNs (R2-2002417)**

*Type: LS in For: (not specified)  
 Original outgoing LS: R2-2002417, to CT1, SA1, SA2, cc RAN3  
 Source: RAN2*

**Discussion:**

Reply LS in C1-202012, C1-202103, C1-202180, C1-202240, C1-202359

Disc paper C1-202102, C1-202239, C1-202493, C1-202499

Related CR C1-202397, 2091

**Decision:** The document was **noted**.

**C1-202046 LS on Concurrent Broadcasting for CMAS (R3-197749)**

*Type: LS in For: (not specified)  
 Original outgoing LS: R3-197749, to CT1, cc -  
 Source: RAN3*

**Discussion:**

revised because the CT1 tdoc number was missing from the cover sheet

Reply LS in C1-202232 and C1-202564

Disc paper in C1-202231 and C1-202565

Related CR in C1-202263

**Decision:** The document was **revised to C1-202597**.

**C1-202047 Reply LS on assistance indication for WUS (R3-201397)**

*Type: LS in For: (not specified)  
 Original outgoing LS: R3-201397, to SA2, cc CT1, RAN2  
 Source: RAN3*

**Decision:** The document was **noted**.

**C1-202049 Reply LS on Rel-16 NB-IoT enhancements (R3-201417)**

*Type: LS in For: (not specified)  
 Original outgoing LS: R3-201417, to SA2, TSG RAN, TSG CT, RAN2, CT1, cc TSG SA  
 Source: RAN3*

**Decision:** The document was **noted**.

**C1-202050 LS on Questions on onboarding requirements (S1-201087)**

*Type: LS in For: (not specified)  
 Original outgoing LS: S1-201087, to SA2, cc TSG SA, CT1, SA3, CT6  
 Source: SA1*

**Discussion:**

Rel-17

**Decision:** The document was **postponed**.

**C1-202052 LS on PLMN selection solutions for satellite access (S2-1912551)**

*Type: LS in For: (not specified)  
 Original outgoing LS: S2-1912551, to CT1, cc -  
 Source: SA2*

**Discussion:**

Rel-17

**Decision:** The document was **postponed**.

**C1-202053 Reply LS on clarification on the requirement for steering of roaming (S2-1912764)**

*Type: LS in For: (not specified)  
 Original outgoing LS: S2-1912764, to CT1, CT4, cc CT6, SA3  
 Source: SA2*

**Discussion:**

This LS was received in CT1 Jan e-meeting, and we had a related CT1 CR that was approved in CT#87e in CP-200094.

There is no need to answer SA2, and noting the incoming LS is ok.

**Decision:** The document was **noted**.

**C1-202054 Reply LS on Dual-registration requirements for EHPLMNs (S2-2001130)**

*Type: LS in For: (not specified)  
 Original outgoing LS: S2-2001130, to CT1, cc -  
 Source: SA2*

**Discussion:**

related CR in C1-202136

**Decision:** The document was **noted**.

**C1-202056 LS on GSMA NG.116 Attribute Area of service and impact on PLMN selection (S2-2001726)**

*Type: LS in For: (not specified)  
 Original outgoing LS: S2-2001726, to CT1, SA1, GSMA 5GJA, cc -  
 Source: SA2*

**Decision:** The document was **postponed**.

**C1-202057 Questions on onboarding requirements (S2-2001729)**

*Type: LS in For: (not specified)  
 Original outgoing LS: S2-2001729, to SA1, cc TSG SA, CT1, SA3, CT6  
 Source: SA2*

**Decision:** The document was **postponed**.

**C1-202058 Reply LS on assistance indication for WUS (S2-2001732)**

*Type: LS in For: (not specified)  
 Original outgoing LS: S2-2001732, to CT1, RAN2, RAN3, cc -  
 Source: SA2*

**Discussion:**

related CRs in C1-202466 and C1-202467

**Decision:** The document was **noted**.

**C1-202059 Reply LS on IANA assigned values for mission critical (S3-194603)**

*Type: LS in For: (not specified)  
 Original outgoing LS: S3-194603, to CT1, cc -  
 Source: SA3*

**Decision:** The document was **postponed**.

**C1-202060 Reply LS to LS on native 5G NAS security context activation (S3-200529)**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to CT1, cc -  
 Source: SA3*

**Discussion:**

related CR in C1-202594

**Decision:** The document was **noted**.

**C1-202061 Reply on QoE Measurement Collection (S4-200241)**

*Type: LS in For: (not specified)  
 Original outgoing LS: S4-200241, to SA5, CT1, RAN2, cc RAN3  
 Source: SA4*

**Decision:** The document was **postponed**.

**C1-202062 LS on RTP/RTCP Verification (S4-200340)**

*Type: LS in For: (not specified)  
 Original outgoing LS: S4-200340, to CT1, cc -  
 Source: SA4*

**Decision:** The document was **postponed**.

**C1-202063 Reply LS to Transfer the study on service-based support for SMS in 5GC to CT WGs (SP-191362)**

*Type: LS in For: (not specified)  
 Original outgoing LS: SP-191362, to TSG CT, cc SA2, SA3, CT1, CT4  
 Source: TSG SA*

**Discussion:**

Rel-17

**Decision:** The document was **postponed**.

**C1-202064 Reply LS on support for eCall over NR (SP-200287)**

*Type: LS in For: (not specified)  
 Original outgoing LS: SP-200287, to SA2, SA5, RAN2, CT1, RAN5, cc SA1, SA4, TSG RAN, TSG CT  
 Source: TSG SA*

**Discussion:**

CRs available in C1-202081 and C1-202358

**Decision:** The document was **noted**.

**C1-202065 LS reply to SA2 on PLMN Selection (5GJA12\_115r3)**

*Type: LS in For: (not specified)  
 Original outgoing LS: 5GJA12\_115r3, to SA2, CT1, SA1, cc -  
 Source: GSMA 5G Joint-Activity (5GJA)*

**Decision:** The document was **postponed**.

**C1-202591 Reply LS on QoS mapping procedure (S4-200690)**

*Type: LS in For: (not specified)  
 Original outgoing LS: S4-200690, to CT3, CT1, cc -  
 Source: SA4*

**Decision:** The document was **noted**.

**C1-202597 LS on Concurrent Broadcasting for CMAS (R3-197749)**

*Type: LS in For: (not specified)  
 Original outgoing LS: R3-197749, to CT1, cc -  
 Source: RAN3*

(Replaces C1-202046)

**Decision:** The document was **noted**.

**C1-202602 LS on status of 5WWC work (LIAISE-390)**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to SA2, CT1, CT4, cc -  
 Source: Broadband Forum*

**Decision:** The document was **postponed**.

## 5 void

## 6 void

## 7 void

## 8 void

## 9 void

## 10 void

## 11 void

## 12 void

## 13 void

## 14 void

## 15 Release 15

#### 15.1.1 Rel-15 Mission Critical work items

#### 15.1.2 Rel-15 IMS work items

**C1-202584 Reference update for PASSporT Extension for Diverted Calls**

*Type: CR For: Agreement  
 24.229 v15.9.0 CR-6416 Cat: F (Rel-15)  
  
 Source: Orange / Mariusz*

**Decision:** The document was **agreed**.

**C1-202585 Reference update for PASSporT Extension for Diverted Calls**

*Type: CR For: Agreement  
 24.229 v16.5.0 CR-6417 Cat: A (Rel-16)  
  
 Source: Orange / Mariusz*

**Decision:** The document was **agreed**.

#### 15.1.3 Rel-15 non-IMS/non-MC work items

**C1-202032 Remove the duplicated cause value for announce request procedure not accepted by the ProSe Function**

*Type: CR For: Approval  
 24.334 v15.2.0 CR-0328 Cat: A (Rel-15)  
  
 Source: CATT*

**Decision:** The document was **postponed**.

**C1-202092 Correct N3AN node selection due to LI**

*Type: CR For: Agreement  
 24.502 v15.5.0 CR-0119 Cat: F (Rel-15)  
  
 Source: BlackBerry Uk Ltd.*

**Decision:** The document was **revised to C1-202672**.

**C1-202672 Correct N3AN node selection due to LI**

*Type: CR For: Agreement  
 24.502 v15.5.0 CR-0119 rev 1 Cat: F (Rel-15)  
  
 Source: BlackBerry Uk Ltd.*

(Replaces C1-202092)

**Decision:** The document was **revised to C1-202831**.

**C1-202831 Correct N3AN node selection due to LI**

*Type: CR For: Agreement  
 24.502 v15.5.0 CR-0119 rev 2 Cat: F (Rel-15)  
  
 Source: BlackBerry Uk Ltd.*

(Replaces C1-202672)

**Decision:** The document was **postponed**.

**C1-202093 Correct N3AN node selection due to LI**

*Type: CR For: Agreement  
 24.502 v16.3.0 CR-0120 Cat: A (Rel-16)  
  
 Source: BlackBerry Uk Ltd.*

**Decision:** The document was **revised to C1-202673**.

**C1-202673 Correct N3AN node selection due to LI**

*Type: CR For: Agreement  
 24.502 v16.3.0 CR-0120 rev 1 Cat: A (Rel-16)  
  
 Source: BlackBerry Uk Ltd.*

(Replaces C1-202093)

**Decision:** The document was **revised to C1-202832**.

**C1-202832 Correct N3AN node selection due to LI**

*Type: CR For: Agreement  
 24.502 v16.3.0 CR-0120 rev 2 Cat: A (Rel-16)  
  
 Source: BlackBerry Uk Ltd.*

(Replaces C1-202673)

**Decision:** The document was **postponed**.

**C1-202096 Correct EPS SRVCC support indication when registering with 5GS**

*Type: CR For: Agreement  
 24.501 v15.6.0 CR-1642 rev 1 Cat: F (Rel-15)  
  
 Source: BlackBerry Uk Ltd.*

(Replaces C1-198013)

**Discussion:**

Withdrawn

Following ConfCall

Revision of C1-198013

Alternative to C1-202133 (is Rel-16 only)

Ivo, Thu, 11:52

need to impact UEs and 5GS core network entities with EPS SRVCC aspects

CR requires a UE not support a feature to perform an action related to the feature - not a good approach.

no need of the CR, there is another alternative

Lena, Thu, 16:41

This is not FASMO

For Rel-16 prefers C1-202133

Ivo, Tue, 00:55

No need to impact ue and 5gs CN, no need for the CR

Oppo, Tue, 04:09

Not needed

**Decision:** The document was **withdrawn**.

**C1-202097 Correct EPS SRVCC support indication when registering with 5GS**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-1643 rev 3 Cat: A (Rel-16)  
  
 Source: BlackBerry Uk Ltd.*

(Replaces C1-198014)

**Discussion:**

Withdrawn

Following ConfCall

Revision of C1-198014

Alternative to C1-202133 (is Rel-16 only)

Ivo, Thu, 11:53

Same comments as for 2096

Lena, Thu, 16:41

prefer Ericsson’s competing proposal without UE impact in C1-202133.

John-Luc, Mon, 18:49

SA2 will follow stage-3

**Decision:** The document was **withdrawn**.

**C1-202227 Adding Unstructured type(non-IP) to encoding of UE policy part type URSP(R15)**

*Type: CR For: Agreement  
 24.526 v15.3.0 CR-0074 Cat: F (Rel-15)  
  
 Source: China Telecom Corporation Ltd.*

**Abstract:**

Adding Unstructured type into the traffic descriptor component type identifier,in TS 24.526 5.2 Encoding of UE policy part type URSP.

**Decision:** The document was **postponed**.

**C1-202231 CWMI use in PWS**

*Type: discussion For: (not specified)  
 Source: Ericsson / Mikael*

**Discussion:**

Noted

Lazaros, Thu, 15:01

Ok with the DISC in principle, needs clarification on one case

Mikael, Mon, 11:14

Acks Lazaros, a Note can be needed, which release to start with

**Decision:** The document was **noted**.

**C1-202291 Remove USE\_TRANSPORT\_MODE in response**

*Type: CR For: Agreement  
 24.502 v15.5.0 CR-0124 Cat: F (Rel-15)  
  
 Source: ZTE / Joy*

**Decision:** The document was **revised to C1-202786**.

**C1-202786 Remove USE\_TRANSPORT\_MODE in response**

*Type: CR For: Agreement  
 24.502 v15.5.0 CR-0124 rev 1 Cat: F (Rel-15)  
  
 Source: ZTE / Joy*

(Replaces C1-202291)

**Decision:** The document was **agreed**.

**C1-202292 Remove USE\_TRANSPORT\_MODE in response**

*Type: CR For: Agreement  
 24.502 v16.3.0 CR-0125 Cat: A (Rel-16)  
  
 Source: ZTE / Joy*

**Decision:** The document was **revised to C1-202787**.

**C1-202787 Remove USE\_TRANSPORT\_MODE in response**

*Type: CR For: Agreement  
 24.502 v16.3.0 CR-0125 rev 1 Cat: A (Rel-16)  
  
 Source: ZTE / Joy*

(Replaces C1-202292)

**Decision:** The document was **agreed**.

**C1-202360 Remove SUPI in the form of NSI from stage 2(in R15)**

*Type: CR For: (not specified)  
 24.501 v15.6.0 CR-2127 Cat: F (Rel-15)  
  
 Source: China Telecom / Michelle*

**Decision:** The document was **postponed**.

**C1-202361 Remove SUPI in the form of NSI from stage 2(in R15)**

*Type: CR For: (not specified)  
 24.502 v15.5.0 CR-0127 Cat: F (Rel-15)  
  
 Source: China Telecommunications*

**Decision:** The document was **postponed**.

**C1-202507 Registration at PLMN change at PLMN-SEARCH substate**

*Type: CR For: Agreement  
 24.501 v15.6.0 CR-2189 Cat: F (Rel-15)  
  
 Source: MediaTek Inc. / Marko*

**Decision:** The document was **postponed**.

**C1-202561 handling of ePWS message**

*Type: CR For: Approval  
 23.041 v15.5.0 CR-0216 Cat: F (Rel-15)  
  
 Source: Samsung/ Kyungjoo Grace Suh*

**Discussion:**

Not pursued

Based on email form Grace

Frederic, Thu, 11:37

ePWS is a Rel-16 work item, use “Rel-15” instead of “Rel 15”, 2563 seems a mirror so has to be in same agenda item

Lena, Thu, 16:41

Rel-15 CR under Rel-16 work item, title is about ePWS, but CR is about concurrent warning message, text adds no value

Grace, Fri, 14:00

Still needs to decide whether to go to rel-15 or rel-16

Grace, Fri, 14:17

Will make a revision so that this is only Rel-16 change

**Decision:** The document was **not pursued**.

**C1-202565 Discussion for concurrent broadcast for CMAS**

*Type: discussion For: Discussion  
 23.041 v..  
 Source: Samsung/ Kyungjoo Grace Suh*

**Decision:** The document was **noted**.

## 16 Release 16

### 16.1 Tdocs on Work Items

#### 16.1.1 Work Item Descriptions

**C1-202166 Revised WID on CT aspects of eV2XARC**

*Type: WID revised For: Agreement  
 Source: Huawei, HiSilicon /Christian*

(Replaces CP-200291)

**Abstract:**

Adding TS 29.388 and 29.389 (CT4) to the list of impacted TSs

**Decision:** The document was **agreed**.

#### 16.1.2 CRs and Discussion Documents related to new or revised Work Items

#### 16.1.3 Status of other Work Items

**C1-202424 5G\_CIoT WI workplan**

*Type: Work Plan For: Endorsement  
 Source: Qualcomm Incorporated / Amer*

**Decision:** The document was **noted**.

#### 16.1.4 Release 16 documents for information

### 16.2 WIs for common and SAE/5G

#### 16.2.1 ePWS

**C1-202563 handling of ePWS message**

*Type: CR For: Approval  
 23.041 v16.3.0 CR-0217 Cat: A (Rel-16)  
  
 Source: Samsung/ Kyungjoo Grace Suh*

**Decision:** The document was **revised to C1-202814**.

#### 16.2.2 SINE\_5G

**C1-202581 Handling of PDU session authentication**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2210 Cat: F (Rel-16)  
  
 Source: Samsung / Kyungjoo Grace Suh*

**Discussion:**

Postponed

Ivo, Thu, 11:58

Normative text in NOTE, NOTE does not reflect normative behaviour

Frederic, Thu, 12:01

SHALL in a NOTE

Sung, Thu, 18:46

Echoes Ivo, disagrees with the idea of the Note

Amer, Thu, 19:43

Intent of CR seems ok, but revision is needed

Grace, Fri, 14:38

Acks

**Decision:** The document was **postponed**.

#### 16.2.3 SAES16 WIs

##### 16.2.3.1 SAES16

**C1-202127 Consistent usage of "tracking area updating procedure"**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3341 Cat: D (Rel-16)  
  
 Source: Samsung Electronics Polska / Ricky*

**Decision:** The document was **agreed**.

**C1-202515 Correction of EMM initiated TAU procedure in EMM-REGISTERED.ATTEMPTING-TO-UPDATE-MM**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3366 Cat: F (Rel-16)  
  
 Source: MediaTek Inc. / Marko*

**Decision:** The document was **revised to C1-202688**.

**C1-202688 Correction of EMM initiated TAU procedure in EMM-REGISTERED.ATTEMPTING-TO-UPDATE-MM**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3366 rev 1 Cat: F (Rel-16)  
  
 Source: MediaTek Inc. / Marko*

(Replaces C1-202515)

**Decision:** The document was **agreed**.

**C1-202516 Correction to Handling of MO CSFB Emergency call in EMM-REGISTERED.ATTEMPTING-TO-UPDATE-MM**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3367 Cat: F (Rel-16)  
  
 Source: MediaTek Inc. / Marko*

**Decision:** The document was **revised to C1-202689**.

**C1-202689 Correction to Handling of MO CSFB Emergency call in EMM-REGISTERED.ATTEMPTING-TO-UPDATE-MM**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3367 rev 1 Cat: F (Rel-16)  
  
 Source: MediaTek Inc. / Marko*

(Replaces C1-202516)

**Decision:** The document was **agreed**.

**C1-202517 Correction to Handling of #31**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3368 Cat: F (Rel-16)  
  
 Source: MediaTek Inc. / Marko*

**Decision:** The document was **revised to C1-202690**.

**C1-202690 Correction to Handling of #31**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3368 rev 1 Cat: F (Rel-16)  
  
 Source: MediaTek Inc. / Marko*

(Replaces C1-202517)

**Decision:** The document was **agreed**.

**C1-202519 Correction to Handling of #35**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3369 Cat: F (Rel-16)  
  
 Source: MediaTek Inc. / Marko*

**Decision:** The document was **agreed**.

**C1-202542 Error handling of precedence value conflict**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3372 Cat: F (Rel-16)  
  
 Source: MediaTek Inc. / JJ*

**Decision:** The document was **revised to C1-202824**.

**C1-202824 Error handling of precedence value conflict**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3372 rev 1 Cat: F (Rel-16)  
  
 Source: MediaTek Inc. / JJ*

(Replaces C1-202542)

**Decision:** The document was **agreed**.

##### 16.2.3.2 SAES16-CSFB

##### 16.2.3.3 SAES16-non3GPP

#### 16.2.4 5GProtoc16 WIs

**C1-202144 Clarification on URSP in EPS**

*Type: CR For: Agreement  
 24.526 v16.3.0 CR-0073 Cat: F (Rel-16)  
  
 Source: ZTE / Joy*

**Discussion:**

Ivo, Thu, 12:05

Requires some clarification

Lena, Thu, 16:41

ok but it should be moved to the xBDT WI (AI 16.2.16).

Joy, Fri, 05:34

To Ivo, explaining, is it ok?

Joy, Fri, 06:47

This is xBDT and 5GProtoc16

**Decision:** The document was **revised to C1-202652**.

**C1-202652 Clarification on URSP in EPS**

*Type: CR For: Agreement  
 24.526 v16.3.0 CR-0073 rev 1 Cat: F (Rel-16)  
  
 Source: ZTE / Joy*

(Replaces C1-202144)

**Decision:** The document was **agreed**.

**C1-202175 No allowed NSSAI associated with a registration area**

*Type: CR For: Approval  
 24.501 v16.4.1 CR-2061 Cat: F (Rel-16)  
  
 Source: vivo*

**Decision:** The document was **revised to C1-202747**.

**C1-202747 No allowed NSSAI associated with a registration area**

*Type: CR For: Approval  
 24.501 v16.4.1 CR-2061 rev 1 Cat: F (Rel-16)  
  
 Source: vivo*

(Replaces C1-202175)

**Discussion:**

Kaj, Thu, 14:39

Does not see that the proposal makes it clearer

Yanchao, fri 06:14

Explaining why the CR is good

**Decision:** The document was **withdrawn**.

**C1-202524 Handling of allowed NSSAI when the RA includes the TAI belonging to EPLMN**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2198 Cat: F (Rel-16)  
  
 Source: SHARP*

**Decision:** The document was **revised to C1-202889**.

**C1-202889 Handling of allowed NSSAI when the RA includes the TAI belonging to EPLMN**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2198 rev 1 Cat: F (Rel-16)  
  
 Source: SHARP*

(Replaces C1-202524)

**Decision:** The document was **agreed**.

**C1-202527 UE initiating service request over non-3GPP access after stopping T3346**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2201 Cat: F (Rel-16)  
  
 Source: SHARP*

**Discussion:**

Merged into 2324

Based on request form author, Fri, 04:45

Joy, Thu, 11:53

Changes are covered by C1-202324, which is more complete

Amer, Thu, 19:54

Needs clarification, isn’t 24.501 already covering this?

Sung, Thu, 23:11

Should be merged with C1-202324

Yoko, Fri, 04:45

Fine to merge into revision of C1-202324

**Decision:** The document was **merged**.

##### 16.2.4.1 5GProtoc16

**C1-202017 Correction for SoR-AF**

*Type: CR For: (not specified)  
 23.122 v16.5.0 CR-0481 rev 5 Cat: F (Rel-16)  
  
 Source: Ericsson / Ivo*

(Replaces C1-200064)

**Decision:** The document was **agreed**.

**C1-202068 SoR in HPLMN after registration**

*Type: CR For: Agreement  
 23.122 v16.5.0 CR-0508 Cat: F (Rel-16)  
  
 Source: Orange, Ericsson / Mariusz*

**Decision:** The document was **agreed**.

**C1-202069 Modification of exchanges between SOR-AF and UDM**

*Type: CR For: Agreement  
 23.122 v16.5.0 CR-0509 Cat: F (Rel-16)  
  
 Source: Orange, Ericsson / Mariusz*

**Decision:** The document was **revised to C1-202793**.

**C1-202793 Modification of exchanges between SOR-AF and UDM**

*Type: CR For: Agreement  
 23.122 v16.5.0 CR-0509 rev 1 Cat: F (Rel-16)  
  
 Source: Orange, Ericsson / Mariusz*

(Replaces C1-202069)

**Decision:** The document was **agreed**.

**C1-202070 OTAF renamed to SP-AF**

*Type: CR For: Agreement  
 23.122 v16.5.0 CR-0510 Cat: F (Rel-16)  
  
 Source: Orange / Mariusz*

**Discussion:**

Ivo, Thu, 12:03

Use 5GS\_OTAF as work item code

Lena, Thu, 16:41

Untick ME box

Mariusz, Fri, 11:12

Provides rev

Ivo, Fri, 11:51

Fine with rev, wants to co-sign

**Decision:** The document was **revised to C1-202607**.

**C1-202071 Reference correction in URSP encoding**

*Type: CR For: Agreement  
 24.526 v16.3.0 CR-0071 Cat: F (Rel-16)  
  
 Source: Orange / Mariusz*

**Decision:** The document was **agreed**.

**C1-202073 Removal of Duplicate Service Operation Details**

*Type: CR For: Approval  
 23.041 v16.3.0 CR-0207 rev 1 Cat: F (Rel-16)  
  
 Source: one2many*

(Replaces C1-200308)

**Decision:** The document was **revised to C1-202623**.

**C1-202623 Removal of Duplicate Service Operation Details**

*Type: CR For: Approval  
 23.041 v16.3.0 CR-0207 rev 2 Cat: F (Rel-16)  
  
 Source: one2many*

(Replaces C1-202073)

**Decision:** The document was **agreed**.

**C1-202074 Correction to figure**

*Type: CR For: Agreement  
 23.041 v16.3.0 CR-0212 Cat: F (Rel-16)  
  
 Source: one2many B.V.*

**Decision:** The document was **agreed**.

**C1-202075 Corrections to references**

*Type: CR For: Agreement  
 23.041 v16.3.0 CR-0213 Cat: F (Rel-16)  
  
 Source: one2many B.V.*

**Decision:** The document was **agreed**.

**C1-202076 Subscription management in PWS-IWF**

*Type: CR For: Agreement  
 23.041 v16.3.0 CR-0214 Cat: F (Rel-16)  
  
 Source: one2many B.V.*

**Decision:** The document was **revised to C1-202599**.

**C1-202599 Subscription management in PWS-IWF**

*Type: CR For: Agreement  
 23.041 v16.3.0 CR-0214 rev 1 Cat: F (Rel-16)  
  
 Source: one2many B.V.*

(Replaces C1-202076)

**Decision:** The document was **agreed**.

**C1-202089 Clarification of NAS COUNT handling in 5G**

*Type: CR For: (not specified)  
 24.501 v16.4.1 CR-2036 Cat: F (Rel-16)  
  
 Source: Vodafone GmbH, Deutsche Telekom*

**Decision:** The document was **agreed**.

**C1-202098 Correcting order in which connections/sessions are transferred if there is an emergency call**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-1782 rev 3 Cat: F (Rel-16)  
  
 Source: BlackBerry Uk Ltd.*

(Replaces C1-200115)

**Decision:** The document was **revised to C1-202670**.

**C1-202670 Correcting order in which connections/sessions are transferred if there is an emergency call**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-1782 rev 4 Cat: F (Rel-16)  
  
 Source: BlackBerry Uk Ltd.*

(Replaces C1-202098)

**Decision:** The document was **revised to C1-202868**.

**C1-202868 Correcting order in which connections/sessions are transferred if there is an emergency call**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-1782 rev 5 Cat: F (Rel-16)  
  
 Source: BlackBerry Uk Ltd.*

(Replaces C1-202670)

**Decision:** The document was **agreed**.

**C1-202100 Clarification on use of operator-defined access categories**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-1795 rev 2 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated, Ericsson, Nokia, Nokia Shanghai Bell / Lena*

(Replaces C1ah-200149)

**Decision:** The document was **revised to C1-202873**.

**C1-202873 Clarification on use of operator-defined access categories**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-1795 rev 3 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated, Ericsson, Nokia, Nokia Shanghai Bell / Lena*

(Replaces C1-202100)

**Decision:** The document was **agreed**.

**C1-202101 Clarification on DL only match-all packet filter**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2037 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated / Lena*

**Decision:** The document was **agreed**.

**C1-202110 Adding Unstructured type(non-IP) to encoding of UE policy part type URSP**

*Type: CR For: Agreement  
 24.526 v16.3.0 CR-0072 Cat: F (Rel-16)  
  
 Source: China Telecom Corporation Ltd.*

**Abstract:**

Adding Unstructured type into the traffic descriptor component type identifier,in TS 24.526 5.2 Encoding of UE policy part type URSP.

**Decision:** The document was **postponed**.

**C1-202128 Correction of the handling of timer TG**

*Type: CR For: Approval  
 23.122 v16.5.0 CR-0513 Cat: F (Rel-16)  
  
 Source: Apple, Qualcomm Incorporated, T-Mobile USA*

**Decision:** The document was **agreed**.

**C1-202129 Correction of the handling of 5GMM cause #27**

*Type: CR For: Approval  
 24.501 v16.4.1 CR-2047 Cat: F (Rel-16)  
  
 Source: Apple, Qualcomm Incorporated, T-Mobile USA*

**Decision:** The document was **agreed**.

**C1-202136 Dual-registration requirements for EHPLMNs**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-1974 rev 1 Cat: F (Rel-16)  
  
 Source: Intel, Qualcomm Incorporated / Vivek*

(Replaces C1-200620)

**Decision:** The document was **agreed**.

**C1-202141 Additional condition to start T3540**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2050 Cat: F (Rel-16)  
  
 Source: Samsung/Anikethan*

**Decision:** The document was **revised to C1-202811**.

**C1-202811 Additional condition to start T3540**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2050 rev 1 Cat: F (Rel-16)  
  
 Source: Samsung/Anikethan*

(Replaces C1-202141)

**Decision:** The document was **revised to C1-202890**.

**C1-202890 Additional condition to start T3540**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2050 rev 2 Cat: F (Rel-16)  
  
 Source: Samsung/Anikethan*

(Replaces C1-202811)

**Decision:** The document was **agreed**.

**C1-202145 Specify UE behaviour for NOTIFICATION message for additional state/sub-states**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2051 Cat: F (Rel-16)  
  
 Source: Samsung/Anikethan*

**Decision:** The document was **revised to C1-202815**.

**C1-202815 Specify UE behaviour for NOTIFICATION message for additional state/sub-states**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2051 rev 1 Cat: F (Rel-16)  
  
 Source: Samsung/Anikethan*

(Replaces C1-202145)

**Decision:** The document was **agreed**.

**C1-202146 Additional abnormal case handling for NOTIFICATION message**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-1791 rev 4 Cat: F (Rel-16)  
  
 Source: Samsung/Anikethan*

(Replaces C1ah-200199)

**Decision:** The document was **postponed**.

**C1-202149 Restricting handling of cause #9 to the access on which it was received**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-1792 rev 1 Cat: F (Rel-16)  
  
 Source: Samsung/Anikethan*

(Replaces C1ah-200031)

**Decision:** The document was **revised to C1-202812**.

**C1-202812 Restricting handling of cause #9 to the access on which it was received**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-1792 rev 2 Cat: F (Rel-16)  
  
 Source: Samsung/Anikethan*

(Replaces C1-202149)

**Decision:** The document was **agreed**.

**C1-202152 Correcting the parameter "RAT type" for SOR-AF**

*Type: CR For: Agreement  
 23.122 v16.5.0 CR-0515 Cat: F (Rel-16)  
  
 Source: DOCOMO Communications Lab.*

**Discussion:**

Related CRs in C1-202068, C1-202069

**Decision:** The document was **revised to C1-202902**.

**C1-202902 Adding the parameter "access technology" as input to SOR-AF”**

*Type: CR For: Agreement  
 23.122 v16.5.0 CR-0515 rev 1 Cat: F (Rel-16)  
  
 Source: DOCOMO Communications Lab.*

(Replaces C1-202152)

**Discussion:**

Postponed

Revision of C1-202152

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Releated CRs in C1-202068, C1-202069

Ivo, Thu, 12:08

Explanation ….Thus, we see no need of this CR.

Ban

Ivo, Tue, 14:28

providing "access technology" is not acceptable.

Mariusz, Tue, 16:33

Sung, Wed, 14:54

negative

Ban,

Providing a rev

Marius ongoing

Marius FINE

Ivo, Thu, 11:26

Ericsson sees no benefit in UDM performing the access technology derivation from RAT type on SOR-AF's behalf.

Ban not agreeing with Ivo

Ivo not agreeing it

Ban not agreeing

Ivo DOES NOT agree

**Decision:** The document was **postponed**.

**C1-202153 Correcting the case when the AMF does not need to provide SOR-info to the UE**

*Type: CR For: Agreement  
 23.122 v16.5.0 CR-0516 Cat: F (Rel-16)  
  
 Source: DOCOMO Communications Lab.*

**Discussion:**

Postponed

Based on email form the author

Ivo, Thu, 12:09

Explanation … Thus, we see no need of this CR. The baseline is correct.

Marius, Fri, 10:56

Similar as ivo

Ban, Sat, 10:59

Providing a rev

Ivo, Mon, 12:53

CR does not work

Ivo, Mon, 13:03

More agruments

**Decision:** The document was **postponed**.

**C1-202158 Adding new IMSDoPS indication bits in “EPS network feature support” IE for network to indicate support for “IMS Data over PS” services**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2054 Cat: B (Rel-16)  
  
 Source: MediaTek Inc., Apple*

**Abstract:**

During CT#121 meeting in Reno, discussion paper “C1-198436” was presented to highlight the reason and need for adding a separate indication in “5GS network feature support “ IE in REGISTRATION ACCEPT so that network can inform its ability to support for I

**Discussion:**

Ivo, Thu, 12:10

Missing stage-2 requirement, without stage-2 this should be solved on IMS layer

Lena, Thu, 17:52

Indicator on NAS level only needed for voice, not for data, CR is not needed

Sung, Fri. 00:11

Same as Ivo and Lena, without stage-2 this can not be done

Bill, Sat, 09:01

No need for this flag

Lena, Thu, 02:20

Can not agree the CR

**Decision:** The document was **postponed**.

**C1-202200 storage of counters for UE in PLMN**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2071 Cat: F (Rel-16)  
  
 Source: vivo*

**Decision:** The document was **revised to C1-202713**.

**C1-202713 storage of counters for UE in PLMN**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2071 rev 1 Cat: F (Rel-16)  
  
 Source: vivo*

(Replaces C1-202200)

**Decision:** The document was **revised to C1-202897**.

**C1-202897 storage of counters for UE in PLMN**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2071 rev 2 Cat: F (Rel-16)  
  
 Source: vivo*

(Replaces C1-202713)

**Discussion:**

Osamah, Thu, 22:01

Not extremely important to repeat DoS related counters in Annex C

Yanchao, Mon, 10:23

Provides a rev

Osama, Mon, 16:14

Further comments

Yanchao, Tue, 08:59

Provides a rev

Osama, Tue, 16:18

Further comments

Yanchao, Wed, 13:29

Asking forn Osama

Osama, wed:20:39

Still an issue with shall to may

Yang, Wed, 08:42

Shall

**Decision:** The document was **agreed**.

**C1-202201 Clarification of the figure of registration procedure**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2072 Cat: F (Rel-16)  
  
 Source: vivo*

**Discussion:**

Agreed

Kaj, Thu, 14:59

An “e.g.“ is missing

Yanchao, Mon, 05:27

Clarifying

Kaj, Mon, 14:01

fine

**Decision:** The document was **agreed**.

**C1-202203 Addition of Test Flag**

*Type: CR For: Agreement  
 23.041 v16.3.0 CR-0215 Cat: F (Rel-16)  
  
 Source: one2many B.V.*

**Decision:** The document was **revised to C1-202600**.

**C1-202600 Addition of Test Flag**

*Type: CR For: Agreement  
 23.041 v16.3.0 CR-0215 rev 1 Cat: F (Rel-16)  
  
 Source: one2many B.V.*

(Replaces C1-202203)

**Discussion:**

Postponed

Revision of C1-202203

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Current Status Postponed

RAN3 LS not received

Frederic, Thu, 09:08

Clauses affected missing

Lazaros, Thu, 17:03

Wait for RAN3 discussion to conclude

Commenting the content of the CR

PeterS, Thu, 20:46

Agrees to wait for RAN3, is happy to work on improving the text

Lazaros, Tue, 18:24

Wait for the RAN3 LS

PeterS, Tue, 10:45

Commenting

**Decision:** The document was **postponed**.

**C1-202218 Editorial corrections**

*Type: CR For: (not specified)  
 24.501 v16.4.1 CR-2074 Cat: D (Rel-16)  
  
 Source: Ericsson / Mikael*

**Decision:** The document was **revised to C1-202783**.

**C1-202783 Editorial corrections**

*Type: CR For: -  
 24.501 v16.4.1 CR-2074 rev 1 Cat: D (Rel-16)  
  
 Source: Ericsson / Mikael*

(Replaces C1-202218)

**Decision:** The document was **agreed**.

**C1-202219 UAC for MO-IMS registration related signalling EN resolution**

*Type: CR For: (not specified)  
 24.229 v16.5.0 CR-6413 rev 1 Cat: F (Rel-16)  
  
 Source: NTT DOCOMO INC.*

(Replaces C1-200684)

**Decision:** The document was **agreed**.

**C1-202228 Possible KSI types in EPS**

*Type: CR For: (not specified)  
 24.501 v16.4.1 CR-2076 Cat: F (Rel-16)  
  
 Source: Ericsson / Mikael*

**Decision:** The document was **withdrawn**.

**C1-202229 Possible KSI types in EPS**

*Type: CR For: (not specified)  
 24.301 v16.4.0 CR-3346 Cat: F (Rel-16)  
  
 Source: Ericsson / Mikael*

**Decision:** The document was **agreed**.

**C1-202244 Notification over non-3GPP access when UE is deregistered over 3GPP access**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2082 Cat: F (Rel-16)  
  
 Source: Ericsson /kaj*

**Decision:** The document was **revised to C1-202921**.

**C1-202921 Notification over non-3GPP access when UE is deregistered over 3GPP access**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2082 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson /kaj*

(Replaces C1-202244)

**Discussion:**

Ani, Fri, 03:56

We DO NOT agree to this solution

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Roozbeh, Thu, 23:24

Cover page needs improvement, existing text has a spelling error

Rae, Fri, 12:12

Not clear this can happen

Vishnau, Fri, 16:46

This does not solve the problem

Sung, Fri, 17:58

Supports Vishnu

Ani, Sat, 22:49

Does not solve problem, supported C1-202146

**Decision:** The document was **postponed**.

**C1-202254 No available S-NSSAIs at handover with emergency PDU session established**

*Type: discussion For: Agreement  
 Source: Ericsson /kaj*

**Decision:** The document was **noted**.

**C1-202255 No available S-NSSAIs and emergency PDU session at handover**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2088 Cat: F (Rel-16)  
  
 Source: Ericsson /kaj*

**Decision:** The document was **revised to C1-202843**.

**C1-202843 No available S-NSSAIs and emergency PDU session at handover**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2088 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson /kaj*

(Replaces C1-202255)

**Discussion:**

Postponed

Revision of C1-202255

NOT ON THE SERVER

Roozbeh, Thu, 23:53

Is in general agreement, some rewording needed, asks a question

Fei, Fri, 04:05

Clarification fine, capability indication not needed

Sung, Sat, 00:06

Commenting what he sees is needed, minimal

Osama, Sat, 02:49

Asking questions

Ani, Sat, 04:27

Same as Sung

Lena, Sun, 20:39

Agrees with Sung, Ani

Kaj, Mon, 22:47

Explaining the approach, why 5GMM capability is needed

Sung, Wed, 02:12

Not agreeing with Kaj

Sung, Wed.21:03

Not agreeing with Kaj

Kaj, Wed, 22:20

Arguing

Sung, wed, 22:23

Not agreeing

Kaj, wed, 22:50

Not agreeing, Ongoing

Ani, thinks that existing text covers this

**Decision:** The document was **postponed**.

**C1-202268 Add handling for parameter set to “value is not used” in 5GS**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2093 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Discussion:**

Ivo, Thu, 12:14

semantic of "release/version" is not clear. Can we use solely "version"?

Sung, Fri, 00:22

Prefers “release”

Osama, Sun, 16:28

Checking if “release” is ok

Ivo, Mon, 13:22

Release is fine

**Decision:** The document was **revised to C1-202634**.

**C1-202634 Add handling for parameter set to “value is not used” in 5GS**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2093 rev 1 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

(Replaces C1-202268)

**Discussion:**

Ivo, Thu, 12:14

semantic of "release/version" is not clear. Can we use solely "version"?

Sung, Fri, 00:22

Prefers “release”

Osama, Sun, 16:28

Checking if “release” is ok

Ivo, Mon, 13:22

Release is fine

Sung, Wed, 01:59

OK

**Decision:** The document was **agreed**.

**C1-202272 Correct parameters included by AMF during inter-system change from S1 mode to N1 mode in 5GMM-CONNECTED mode**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2095 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **agreed**.

**C1-202275 Remove invalid cases in error handling for QoS rule operation and TFT operation**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2096 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **agreed**.

**C1-202276 Clarify PAP/CHAP usage in PCO for 5GS**

*Type: CR For: Agreement  
 24.008 v16.4.0 CR-3215 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Discussion:**

Based on request from author, tue, 18:03

Lin, Sat, 06:57

Interesting, but we should ask SA2/SA3 whether to use PAP/CHAP and postpone the CR

Osama, Sat, 21:21

If LS, then some input on the content

JJ, Mon, 11:01

Guidance from SA2/SA3 useful

**Decision:** The document was **postponed**.

**C1-202277 Add handling for UE configured to use timer T3245 in 5GS via 3GPP access**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2097 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **withdrawn**.

**C1-202278 Add handling for UE configured to use timer T3245 in 5GS via 3GPP access**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-1803 rev 2 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

(Replaces C1ah-200178)

**Discussion:**

Ivo, Thu, 12:14

NOTE in 24.501 subclause 10.2 needs to be updated as well

Osama, Fri, 21:01

Acks Ivo

Osama, Fri, 16:47

Providing rev in Inbox

Vishnu, Mon, 13:23

Fine

Ivo, Mon, 13:28

Some “colors” in the accepted version, wants to co-sign

**Decision:** The document was **revised to C1-202635**.

**C1-202635 Add handling for UE configured to use timer T3245 in 5GS via 3GPP access**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-1803 rev 3 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

(Replaces C1-202278)

**Decision:** The document was **agreed**.

**C1-202280 Applicable URSP is not optional for a UE**

*Type: CR For: (not specified)  
 24.501 v16.4.1 CR-2098 Cat: F (Rel-16)  
  
 Source: Motorola Mobility, Lenovo*

**Discussion:**

Joy, Thu, 11:57

Text needs to be more precise,

Lena, Thu, 16:41

Requires rewording

Rae, Fri, 11:47

Comments

Roozbeh, Sun, 19:31

Providing rev in Inbox

Maoki, Mon ,09:18

More to consider

**Decision:** The document was **revised to C1-202615**.

**C1-202615 Applicable URSP is not optional for a UE**

*Type: CR For: -  
 24.501 v16.4.1 CR-2098 rev 1 Cat: F (Rel-16)  
  
 Source: Motorola Mobility, Lenovo*

(Replaces C1-202280)

**Discussion:**

Lena, fri, 00:01

Not full correct, agrees, if you will bring a revision to the May meeting to address this issue

Roozbeh acks that this will be resolved

JJ is fine with this assumption

-------------------------------------------

Joy, Thu, 11:57

Text needs to be more precise,

Lena, Thu, 16:41

Requires rewording

Rae, Fri, 11:47

Comments

Roozbeh, Sun, 19:31

Providing rev in Inbox

Maoki, Mon ,09:18

More to consider

Roozbeh, Tue, 02:24

Explaining

Rae, Tue, 04:15

Some comments on the rev

Joy, Tue, 05:45

Generally fine, editorial

Jj, Tue, 07:36

Agreeing with Rae

Roozbeh, Tue, 20:56

New rev

Maoki, Wed, 06:44

Withdraws comment, fine

Rae, Wed, 11:26

More needed

JJ, Wed, 19:11

More comments

Roozbeh, Wed, 19:12

New rev

Roozbeh, Thu, 00:39

Explanation

Len, Thu, 02:13

Not ok with the rev

Roozbeh, Thu, 03:21

Not clear what lena comment is

JJ, Thu, 04:31

Comments

Lena, Thu, 05:01

More comments

Roozbeh

New rev

Lena, Thu, 06:32

Still issues

Roozbhe, thu

Ongoing w

Lena, Thu, 07.22

Explaining

Roozbeh, Thu, 07:40

Discussing

New REV

**Decision:** The document was **agreed**.

**C1-202285 Additional QoS error handling related to mapped EBI**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2101 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated / Lena*

**Decision:** The document was **revised to C1-202874**.

**C1-202874 Additional QoS error handling related to mapped EBI**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2101 rev 1 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated / Lena*

(Replaces C1-202285)

**Discussion:**

Ivo, Thu, 12:15

… the check should not be dependent on QoS flow description being associated with the EPS bearer

Discussion not shown, lena<>JJ

JJ, OK

**Decision:** The document was **agreed**.

**C1-202289 PS Data Off status report for non-3GPP access**

*Type: CR For: (not specified)  
 24.501 v16.4.1 CR-2102 Cat: F (Rel-16)  
  
 Source: LG Electronics, Ericsson / SangMin*

**Decision:** The document was **revised to C1-202752**.

**C1-202752 PS Data Off status report for non-3GPP access**

*Type: CR For: -  
 24.501 v16.4.1 CR-2102 rev 1 Cat: F (Rel-16)  
  
 Source: LG Electronics, Ericsson / SangMin*

(Replaces C1-202289)

**Discussion:**

Partially overlaps with C1-202120

Joy, Thu, 11:44

Newly introduced condition is not correct, new NOTE not complete

Roozbeh, Fri, 00:11

Update cover page, requests changes

Roozbeh, Sat, 20:44

Resending the comment, correct Ai

SangMin, Tue, 10:33

Commenting

Roozbeh, Tue, 21:11

Fine with new proposal, i.e SanMin will revise this CR

SangMin, Wed, 10:44

Rev

Roozbeh, wed, 19:21

fine

**Decision:** The document was **agreed**.

**C1-202295 Unify terms network-initiated and network-requested**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2103 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon / Cristina*

**Decision:** The document was **revised to C1-202697**.

**C1-202697 Unify terms network-initiated and network-requested**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2103 rev 1 Cat: D (Rel-16)  
  
 Source: Huawei, HiSilicon / Cristina*

(Replaces C1-202295)

**Discussion:**

Osamah, Thu, 18:41

Needs to be CAT D

Cristina, Fri, 04:20

Will change category

Roozbeh, Sun 20:51

Wants to keep CAT F

Cristina, Mon, 10:53

Explaining on categories

Roozbeh, Mon, 17:56

CAT F

Crisitna, Tue, 01:54

Wants to keep CAT F

**Decision:** The document was **agreed**.

**C1-202324 NW triggered SR over N3GPP under MM congestion control**

*Type: CR For: Approval  
 24.501 v16.4.1 CR-2104 Cat: F (Rel-16)  
  
 Source: OPPO / Rae*

**Decision:** The document was **revised to C1-202709**.

**C1-202709 NW triggered SR over N3GPP under MM congestion control**

*Type: CR For: Approval  
 24.501 v16.4.1 CR-2104 rev 1 Cat: F (Rel-16)  
  
 Source: OPPO / Rae*

(Replaces C1-202324)

**Discussion:**

Agreed

Revision of C1-202324

Amer FINE

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Joy, Thu, 11:53

the changes should be applicable only when the UE is regsitered with the same PLMN over 3GPP access and non-3GPP access, this is missing in the CR

Rae, Thu, 12:56

Explaining her approach

Kaj, Thu, 15:05

Requires changes

Sung, Thu, 23:10

Needs improvement, agrees with some of Kaj’s proposals

Roozbeh, Fri, 01:00

Update cover sheet, some improvement needed

Amer, Sat, 04:41

Answering ot Sung

Ani, Mon, 08:11

Comments

Kaj, Mon, 13:48

Comments,

Chend, Mon, 17:52

Defending

Chen; Tue, 16:58

Providing a rev

Amer, Wed, 07:27

Changes need to go to different clause

Yoko, Wed, 09:07

Fine

Kaj, Wed, 14:09

improvements

Chen, Wed, 17:44

New rev

Roozbeh, Wed, 20:26

Fine

Amer, Thu 01:54

Which aspect of the CR is new?

Ani, Thu, 06:22

Fine, some suggestions

Chen, NEW REV

Ani FINE

**Decision:** The document was **agreed**.

**C1-202325 Initiate 3GPP access associated notification procedure over non-3GPP access**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2105 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon / Cristina*

**Discussion:**

Withdrawn

Based on request from author, Tue, 04:23

Kaj, Thu, 15:30

CR is not needed

Amer, Thu, 19:56

Agrees with Kaj

Cristina, Fri, 05:17

Does not agree with Kaj and Amer

Yanchao, Fri, 05:57

Same as Amer and Kaj

Cristina, Fri, 06:11

Does not agree with yanchao

Yanchao, Fri, 06:43

Explains to Cristina

Ani, Mon, 08:32

CR is not needed

Cristina, Mon, 11:08

Commenting

Ani, Mon, 12:57

No change needed

**Decision:** The document was **withdrawn**.

**C1-202331 Consider PDU session type IE set by UE in IP address allocation**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2110 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon / Cristina*

**Decision:** The document was **agreed**.

**C1-202339 Add MFBR as mandatory parameter in GBR QoS flow**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2116 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon / Cristina*

**Decision:** The document was **withdrawn**.

**C1-202341 Add MFBR as mandatory parameter in GBR QoS flow**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2117 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon / Cristina*

**Decision:** The document was **withdrawn**.

**C1-202342 Fixing a reference in the service request procedure**

*Type: CR For: (not specified)  
 24.501 v16.4.1 CR-2118 Cat: F (Rel-16)  
  
 Source: BEIJING SAMSUNG TELECOM R&D*

**Discussion:**

Agreed

Osamah, Thu, 18:45

Needs to be CAT D

Mahmoud, Thu, 19:18

Thinks it is CAT F, happy to chang to CAT D if others see this similar

Roozbeh, Sat, 18:58

Tends to agree with Mahmoud, can go with the group

Osama, Sat, 21:54

This is a typo

Roozbeh, Sun, 20:46

CAT F

**Decision:** The document was **agreed**.

**C1-202343 Add MFBR as mandatory parameter in GBR QoS flow**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2119 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon / Cristina*

**Decision:** The document was **withdrawn**.

**C1-202344 Add MFBR as mandatory parameter in GBR QoS flow**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2120 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon / Cristina*

**Decision:** The document was **revised to C1-202698**.

**C1-202698 Add MFBR as mandatory parameter in GBR QoS flow**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2120 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon / Cristina*

(Replaces C1-202344)

**Decision:** The document was **agreed**.

**C1-202347 Correcting length of extended emergency number list IE**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3352 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon / Cristina*

**Decision:** The document was **agreed**.

**C1-202348 Initial registration for initiating emergency PDU session**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2121 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon / Cristina*

**Decision:** The document was **revised to C1-202858**.

**C1-202858 Initial registration for initiating emergency PDU session**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2121 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon / Cristina*

(Replaces C1-202348)

**Decision:** The document was **revised to C1-202893**.

**C1-202893 Initial registration for initiating emergency PDU session**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2121 rev 2 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon / Cristina*

(Replaces C1-202858)

**Discussion:**

Ivo, Thu, 09:54

comments

Ivo, Thu, 12:15

Broken styles, some of the new bullets are already covered by existing bulltets

Sung, Fri, 01:20

Asks why adding T3502 and T3511 is needed

Cristian, Fri, 06:27

Will provide a revision

Sung, Sat, 00:40

question on the registration type

Cristina, Sat, 05:29

Answering Sung

Lena, Sun, 22:31

Some things not clear, cover page update needed

Cristina, Mon, 04:21

Explaining

Ivo, Mon, 13:48

Challenging the CR

Cristian, Tue, 02:42

Explaining

Ivo, Tue, 12:38

Additional wording

Cristina, Tue, 12:59

Additional change needed?

Ivo, Wed, 13:12

clarifying

**Decision:** The document was **agreed**.

**C1-202349 Missing QoS flow description parameters for GBR QoS flows in 5GSM and ESM coordination**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2122 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon / Cristina*

**Discussion:**

Ivo, Thu, 12:15

Wrong formatting

Osamah, Thu, 18:53

Please revise the CR and check the conditions again if applied to EPS ESM procedure and rewrite UE behavior to use EPS ESM procedures defined in TS 24.301

Cristina, Fri, 07:09

Fine with comments, rev to come later

**Decision:** The document was **revised to C1-202651**.

**C1-202651 Missing QoS flow description parameters for GBR QoS flows in 5GSM and ESM coordination**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2122 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon / Cristina*

(Replaces C1-202349)

**Decision:** The document was **revised to C1-202861**.

**C1-202861 Missing QoS flow description parameters for GBR QoS flows in 5GSM and ESM coordination**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2122 rev 2 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon / Cristina*

(Replaces C1-202651)

**Discussion:**

Postponed due to open discussion on the wording

Osama, thu, 03:45

Commenting, requesting some rewording

Cristina, Thu, 06:59

Does not agree with Osama

Revision of C1-202349

Osama, Tue, 23:52

Editorials

Osam, Wed, 02:00

Comments and proposals for additions

Cristina, Wed, 05:58

questions

Ivo, Thu, 12:15

Wrong formatting

Osamah, Thu, 18:53

Please revise the CR and check the conditions again if applied to EPS ESM procedure and rewrite UE behavior to use EPS ESM procedures defined in TS 24.301

Cristina, Fri, 07:09

Fine with comments, rev to come later

**Decision:** The document was **postponed**.

**C1-202358 Support for eCall over IMS over NR**

*Type: CR For: Agreement  
 23.122 v16.5.0 CR-0521 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon / Cristina*

**Discussion:**

Request form author, Mon11:14

Ivo, Thu, 12:16

UE in eCall only mode is allowed to select a PLMN in NG-RAN when the PLMN does NOT advertise support for eCall over, why? Some further problem

Lena, Thu, 22:50

CR is technically wrong (NG-RAN does not support CS)

Sung, Fri, 02:02

CR is not including any specification change needed to support eCall in IMS over NR (with 5G Core), requested by TSG-SA

**Decision:** The document was **postponed**.

**C1-202375 Initial NAS message protection on inter-system change from EPS to 5GS**

*Type: CR For: (not specified)  
 24.501 v16.4.1 CR-2136 Cat: F (Rel-16)  
  
 Source: Samsung/Kundan*

**Discussion:**

Amer, Thu, 20:11

Why is this 24.501 and not 24.301?

Fei, Fri, 04:24

Does not undertand the intention of the CR

Kundan, Fri, 06:32

Explaining to Amer

Sung, Sat, 18:03

CR is not needed

Kundan, Mon, 08:32

Explaining to Fei/Sung

Kundan, Mon, 08:47

Explaining to Fei

Fei, Mon, 08.54

CR is not needed

**Decision:** The document was **postponed**.

**C1-202376 Handling of MCS data in various 5GMM states**

*Type: CR For: Approval  
 24.501 v16.4.1 CR-1415 rev 7 Cat: F (Rel-16)  
  
 Source: Samsung*

(Replaces C1-194530)

**Abstract:**

Handling of MCS data in various 5GMM State.

**Discussion:**

Withdrawn

Revision of C1-194530

Ivo, Thu, 12:16

Registration procedure for MCS not defined, PDU session for MCS is a regular PDU session from NAS perspective

Lena, Thu, 16:40

Can not agree to the CR, no SA1 requirement, no definition of PDU session related to MCS

Sung, Fri, 18:16

Echos Lena and Ivo

**Decision:** The document was **withdrawn**.

**C1-202377 No messages without integrity protection processed after security activation**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2137 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Not pursued

Andrew, Thu, 12:08

Summery of changes should be improved

Amer, Thu, 20:20

seems OK to us, but the note with the proposed changes could be improved

Sung, Thu, 23:32

Ok with comments, provides new version

Lin, Fri, 10:01

Not convinced anything is needed

Sung, Sun, 01:28

Not agreeing with Lin

Lin, Tue, 04:56

Ongoing

Mikael, Tue, 17:01

Same as Lin, this is not needed

**Decision:** The document was **not pursued**.

**C1-202378 Clarification on the AMF behaviour after security activation in case of integrity check failure**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2138 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Postponed

Requested by author

Fei, Fri, 04:34

CR is not needed

Lin, Fri, 10:04

Does not see conflict that needs to be solved

Sung, Sun, 01:36

Explaining

Lin, Tue, 04:56

ongoing

Mikael, Tue, 17:37

Similar as Lin, not needed

**Decision:** The document was **postponed**.

**C1-202379 Discarding a SECURITY MODE COMMAND message which fails integrity check**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2139 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Postponed

Amer, Thu, 20:26

CR is not needed, creates a problem

Lin, Fri, 10:14

CR is wrong and not needed.

Sung, Sun, 01:50

Explaining

Ani, Sun, 13:24

Asking Sung, how there will be a NAS counter desynchronization by sending an SMC reject

Lin, Tue, 04:56

Ongoing disc with Sung

Ani, Tue, 06:40

Same as lin and Amer

Sung, Wed, 03:56

Explaining to AN

Ani, Wed, 05:00

Commenting

Fei, Wed, 05:22

The CR is NOT needed

Lin, Wed, 07:20

On same page as Ani

**Decision:** The document was **postponed**.

**C1-202380 Initiation of ESFB by a UE in the state 5GMM-REGISTERED.ATTEMPTING-REGISTRATION-UPDATE**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2140 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Postponed

Ivo, Thu, 12:18

not backward compatible since Rel-15 AMF will consider such registration procedure as initial registration, not convinced yet tha the CR is needed

Lin, Fri, 10:10

Not inline with SA2, non backward compatible

Sung, Sun, 02:39

Rev which is backward compatible, explaining

Lena, Sun, 22:42

this should be discussed in SA2 first

Rae, Mon, 05:46

SA2 first

Fei, Mon, 09:56

Concerned

Lin, Tue, 05:15

There is still an NBC issue, concerns

Sung, Wed, 01:41

Rev

Lin, Wed, 07:27

Questions

Fei, Wed, 08:01

New IE not needed

Sung, Wed, 14:48

New rev

Lena, Thu, 05:17

Not convinced

Fei, Thu, 05:43

Not needed

Ivo, Thu, 08:53

Not agreeing

Fei, Thu, 09:10

Not clear

Lin, NOT CONVINCED

**Decision:** The document was **postponed**.

**C1-202381 No emergency session transfer after ESFB**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2141 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **agreed**.

**C1-202382 Indication that the emergency services fallback attempt failed**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2142 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to C1-202928**.

**C1-202928 Indication that the emergency services fallback attempt failed**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2142 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces C1-202382)

**Decision:** The document was **agreed**.

**C1-202390 Inclusion of ATTACH REQUEST message in REGISTRATION REQUEST message during initial registration when 5G-GUTI mapped from 4G-GUTI is used**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-0793 rev 8 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell, Ericsson, Qualcomm Incorporated*

(Replaces C1ah-200179)

**Decision:** The document was **revised to C1-202929**.

**C1-202929 Inclusion of ATTACH REQUEST message in REGISTRATION REQUEST message during initial registration when 5G-GUTI mapped from 4G-GUTI is used**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-0793 rev 9 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell, Ericsson, Qualcomm Incorporated*

(Replaces C1-202390)

**Decision:** The document was **agreed**.

**C1-202391 Attach request message for N1 mode**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3150 rev 8 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell, Ericsson*

(Replaces C1ah-200180)

**Decision:** The document was **revised to C1-202931**.

**C1-202931 Attach request message for N1 mode**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3150 rev 9 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell, Ericsson*

(Replaces C1-202391)

**Decision:** The document was **agreed**.

**C1-202392 Paging with two valid 5G-GUTIs**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-1841 rev 3 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces C1ah-200213)

**Decision:** The document was **revised to C1-202932**.

**C1-202932 Paging with two valid 5G-GUTIs**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-1841 rev 4 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces C1-202392)

**Decision:** The document was **agreed**.

**C1-202394 PDU session release for an inactive UE with RAN paging failure**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-1833 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces C1ah-200089)

**Discussion:**

Ivo, Thu, 12:18

SMF does not receive PDU SESSION RESOURCE RELEASE RESPONSE , goes only to AMF

Roozbeh, Fri, 02:59

Cover page to be updated

Lind, Fri, 09:51

we do not see anything need to be done in CT1 for this.

Sung, Fri, 19:43

Provides a rev

Ivo, Mon, 14:08

New comment

Lin, Tue, 05:33

This is not NAS, why add it?

Sung, Wed, 03:37

Defending, should an LS be sent?

Lin, Wed, 08:51

This is all CN internal, why do anything in CT1

Ivo, Wed 09:10

Arguing

Sung, Wed, 23:38

Prposes an LS and provides some justification

Ivo, Thu, 00:24

Does not agree with Sung

**Decision:** The document was **postponed**.

**C1-202417 Handling of correction to UE configuration update procedure conditions for re-registration**

*Type: CR For: (not specified)  
 24.501 v16.4.1 CR-2160 Cat: F (Rel-16)  
  
 Source: LG Electronics France*

**Decision:** The document was **withdrawn**.

**C1-202418 Correction to conditions for including the S-NSSAI(s) from default NSSAI in the requested NSSAI**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2161 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated / Amer*

**Discussion:**

Frederic, Thu, 09:08

Clauses affected missing

**Decision:** The document was **agreed**.

**C1-202420 Definition of current PLMN and serving PLMN**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2163 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated / Amer*

**Discussion:**

Based on request from author, Tue, 15:49

Frederic, Thu, 09:08

Clauses affected missing

Ivo, Thu, 12:19

Commenting on used terms “current PLMN” “registered PLMN”, asks for single term, cover sheet

Vishnu, Fri, 18:49

do not prefer to have these new definitions in 24.501

**Decision:** The document was **postponed**.

**C1-202436 Discussion on the selected EPS NAS security algorithms**

*Type: discussion For: (not specified)  
 Source: BEIJING SAMSUNG TELECOM R&D*

**Discussion:**

Noted

Andrew, Thu, 11:59

Has the proposal in C1-202436 been discussed and endorsed by SA3?

Are there supporting requirements in the SA3 specifications to support the change?

Mahmoud, Thu, 16:45

Explaining that the proposal does not need to be discussed in SA3, asking for specific comment against the proposal

Fei, Fri, 04:41

Fine in principle, additional cases needed

Andrew, Fri, 14:41

Does not like if, if the group agrees, andrew can live with it

Mikael, Fri, 23:15

Similar as Andrew, will discuss internally and come back

Mahmou, Fri, 23:39

Fine to wait for further comments

Mahmoud, Mon, 17:40

Fine with Fei’s comment

Mikael, Tue, 16:14

Needs SA3 analysis first, request the CR postponed and await SA3 outcom

**Decision:** The document was **noted**.

**C1-202437 Condition for setting the Selected EPS NAS algorithm IE to NULL**

*Type: CR For: (not specified)  
 24.501 v16.4.1 CR-2171 Cat: F (Rel-16)  
  
 Source: BEIJING SAMSUNG TELECOM R&D*

**Discussion:**

Postponed

Based on request from Mahmoud, should be marked as Postponed as per related discussion for “[16.2.4.1\_C1-202436] Discussion on the selected EPS NAS security algorithms”.

**Decision:** The document was **postponed**.

**C1-202476 Corrections on the abnormal cases of registration procedure for initial registration**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-1379 rev 5 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon/Lin*

(Replaces C1-199032)

**Decision:** The document was **revised to C1-202801**.

**C1-202801 Corrections on the abnormal cases of registration procedure for initial registration**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-1379 rev 6 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon/Lin*

(Replaces C1-202476)

**Discussion:**

Kaj, Thu, 16:32

Fine, some rewording

Osama, Fri, 16:18

Commenting

Lin, Sat, 08:33

Provides rev

Osama, Sun 20:07

Further questions

Lin, Tue, 12:01

Rev

Osama, Tue, 22:26

Q for clarification

Lin, Wed, 11:03

Answering Osama

Osama, Wed, 16:20

Not convinced

Lin, Thu, 03:12

Asking for clear advice what is to be changed from Osama

Osama, Thu, 03:21

Provides wording

Lin, thu, 08:33

New rev

**Decision:** The document was **agreed**.

**C1-202477 Correction on UE behaviour for service area restriction**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-1823 rev 4 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon/Lin*

(Replaces C1ah-200161)

**Decision:** The document was **agreed**.

**C1-202478 Single-registration mode without N26**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-2182 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon/Lin*

**Decision:** The document was **revised to C1-202802**.

**C1-202802 Single-registration mode without N26**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-2182 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon/Lin*

(Replaces C1-202478)

**Discussion:**

Agreed

Revision of C1-202478

Lena, Thu, 16.41

Some parts are ok, some changes are not OK

Sung, Fri, 22:29

Same as Lena

Lin, Mon, 12:21

Providing a rev

Sung, Wed, 01.58

Ok either way

Lin, Wed, 11:09

Explaining

Lena, Thu, 02:31

Not ok with some of the changes

Lin, Thu, 05:03

Discussion with Lena

Lena, Thu, 06:41

Explaining

Fei, Thu, 08:46

Condition update

Lena, Thu, 08:59

Does not work

**Decision:** The document was **agreed**.

**C1-202479 Single-registration mode without N26**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3358 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon/Lin*

**Decision:** The document was **revised to C1-202803**.

**C1-202803 Single-registration mode without N26**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3358 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon/Lin*

(Replaces C1-202479)

**Discussion:**

Agreed

Revision of C1-202479

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Lena, Thu, 16:40

perform TAU differently depending upon whether there is N26. This is not ok, further issue with security context

Sung, Fri, 22:34

Same as Lena

Lin, Sat, 09:10

Provides a rev, but asks to send an LS to SA3

Sung, sun, 02:45

Fine with the rev, fine with sending LS

Lena, thu, 02:04

Fine with rev, fine with sending LS

**Decision:** The document was **agreed**.

**C1-202480 Service reject for emergency EPS fallback**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3359 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon/Lin*

**Discussion:**

Used CR number against 24.301 although targeted for 24.501

**Decision:** The document was **withdrawn**.

**C1-202481 Handling of mapped EPS bearer contexts**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3360 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon/Lin*

**Discussion:**

Used CR number against 24.301 although targeted for 24.501

**Decision:** The document was **withdrawn**.

**C1-202482 Integrity check interworking in 5GMM-CONNECTED mode**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3361 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon/Lin*

**Discussion:**

Used CR number against 24.301 although targeted for 24.501

**Decision:** The document was **withdrawn**.

**C1-202483 Correction on LADN DNN based congestion control**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3362 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon/Lin*

**Discussion:**

Used CR number against 24.301 although targeted for 24.501

**Decision:** The document was **withdrawn**.

**C1-202491 Allowed SSC mode for association between an application and a PDU session**

*Type: CR For: Approval  
 24.526 v16.3.0 CR-0075 Cat: F (Rel-16)  
  
 Source: OPPO / Rae*

**Decision:** The document was **revised to C1-202705**.

**C1-202705 Allowed SSC mode for association between an application and a PDU session**

*Type: CR For: Approval  
 24.526 v16.3.0 CR-0075 rev 1 Cat: F (Rel-16)  
  
 Source: OPPO / Rae*

(Replaces C1-202491)

**Discussion:**

Agreed

Revision of C1-202491

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Joy, Thu, 12:01

Reason for change not correct, existing bullet va) incorrect

Ivo, Thu, 12:22

Summary of changes seem incorrect

Lena, Thu, 16:40

CR has a point, needs rewording

Roozbeh, Fri, 03:07

Original text works, if there is a need for a change then this needs rewording

Rai, Fri 04:58

Explaining here cse

Joy, Fri, 09:07

This is not correct

Joy, Fri, 10:47

Now agrees, proposes some rewording

Roozbeh, Sun, 02:44

Providing wording

Rae, Mon, 03:41

Discussing

Roozbeh, Tue, 00:42

Some comments

Rae, tue, 04:12

Explaining

Roozbeh, Tue, 18:27

Still some change

Rae, Wed, 04:20

Similar understanding as Roozbeh

Roozbeh, Wed, 05:39

There is a need for some mandatory wording

Roozbeh, 05:41

Is it only me having concerns?

Lena, Thu, 05:36

Not agreeing with Roozbeh proposal

Roozbeh fine with latest proposal from lena

**Decision:** The document was **agreed**.

**C1-202492 Handling of unallowed SSC mode**

*Type: CR For: Approval  
 24.501 v16.4.1 CR-2183 Cat: F (Rel-16)  
  
 Source: OPPO / Rae*

**Decision:** The document was **revised to C1-202706**.

**C1-202706 Handling of unallowed SSC mode**

*Type: CR For: Approval  
 24.501 v16.4.1 CR-2183 rev 1 Cat: F (Rel-16)  
  
 Source: OPPO / Rae*

(Replaces C1-202492)

**Discussion:**

Agreed

Revision of C1-202492

Roozbhe fine

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Joy, Thu, 11:58

Same purpose as 2280 and is incoplete, pls see comments on 2280

Lena, Thu, 16:40

CR has a point, but requires rewording

Roozbeh, Fri, 03:07

Original text works, if there is a need for a change then this needs rewording

Rae, Fri, 04:50

Not convinced with Lena rewording

Lena, Tue, 02:48

Fine with Rae explanation, found some more issues, if they are folved then it should be fine

Rae, Tue, 04:19

New rev

Roozbehm Tue, 22:22

New suggestion

Rae, Wed, 04:37

Similar understanding as roozbeh

Roozbeh, Wed, 05:45

Some proposal

Lena, Thu, 02:49

Cover sheet

Rae, Thu, 04:07

Not agreeing with Roozbeh

Roozbeh OK

Lena OK

**Decision:** The document was **agreed**.

**C1-202501 UAC exception for emergency**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2184 Cat: F (Rel-16)  
  
 Source: MediaTek Inc. / Marko*

**Decision:** The document was **revised to C1-202680**.

**C1-202680 UAC exception for emergency**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2184 rev 1 Cat: F (Rel-16)  
  
 Source: MediaTek Inc. / Marko*

(Replaces C1-202501)

**Decision:** The document was **agreed**.

**C1-202503 MRU after SR for ESFB aborted**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2185 Cat: F (Rel-16)  
  
 Source: MediaTek Inc. / Marko*

**Decision:** The document was **revised to C1-202682**.

**C1-202682 MRU after SR for ESFB aborted**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2185 rev 1 Cat: F (Rel-16)  
  
 Source: MediaTek Inc. / Marko*

(Replaces C1-202503)

**Decision:** The document was **agreed**.

**C1-202504 MRU failed due to RRC signalling connection release in restricted service area**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2186 Cat: F (Rel-16)  
  
 Source: MediaTek Inc. / Marko*

**Discussion:**

Based on request form author, tue, 12:16

Osama, Thu, 21:34

concern with the idea of moving to not updated state.

Kaj, Fri, 06:51

Fine but should state 5GMM cause #28

Marko, Fri, 09:58

Explains the problem to Osama, fine with kaj comment

Osama, Fri, 16:40

Still commenting

Sung, Fri, 23:18

Some wording fixes

**Decision:** The document was **postponed**.

**C1-202505 Correction to criteria to enter 5GMM-REGISTERED.UPDATE-NEEDED substate after resumption failure**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2187 Cat: F (Rel-16)  
  
 Source: MediaTek Inc. / Marko*

**Decision:** The document was **revised to C1-202683**.

**C1-202683 Correction to criteria to enter 5GMM-REGISTERED.UPDATE-NEEDED substate after resumption failure**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2187 rev 1 Cat: F (Rel-16)  
  
 Source: MediaTek Inc. / Marko*

(Replaces C1-202505)

**Decision:** The document was **agreed**.

**C1-202508 T3346 handling when the UE is registered to different PLMNs over 3GPP and non-3GPP**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2190 Cat: F (Rel-16)  
  
 Source: MediaTek Inc. / Marko*

**Decision:** The document was **revised to C1-202684**.

**C1-202684 T3346 handling when the UE is registered to different PLMNs over 3GPP and non-3GPP**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2190 rev 1 Cat: F (Rel-16)  
  
 Source: MediaTek Inc. / Marko*

(Replaces C1-202508)

**Discussion:**

Agreed

Revision of C1-202508

Sung can live with this

Kaj, Fri, 11:01

Requests this to be postponed

Kaj, Fri, 14:47

I’m fine to agree the CR and look into further improvements to the next meeting

Kaj, Thu, 17:09

Not needed, already covered

Vishnu, Thu, 17:19

Not needed

Amer, Thu, 20:30

New text could be a NOTE

Behrouz, Thu, 23:50

I am perfectly OK with this CR.

Sung, Fri, 23:41

CR not needed

Amer, Sat, 04:47

Keep text minimal

Kaj, Wed, 10:54

Fine

**Decision:** The document was **agreed**.

**C1-202509 Correction to 5G-GUTI handling when received at REGISTRATION ACCEPT**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2191 Cat: F (Rel-16)  
  
 Source: MediaTek Inc. / Marko*

**Discussion:**

Postponed

Request from author

Osama, Thu, 19:12

Text unclear

Sung, Fri, 22:43

Neutral on the CR, but needs an “if any”

**Decision:** The document was **postponed**.

**C1-202510 Correcting that 5G NAS integrity key is one of the input parameters for integrity protection algorithm**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2192 Cat: F (Rel-16)  
  
 Source: MediaTek Inc. / Marko*

**Decision:** The document was **agreed**.

**C1-202514 Correction to Handling of T3521 timer**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2193 Cat: F (Rel-16)  
  
 Source: MediaTek Inc. / Marko*

**Decision:** The document was **revised to C1-202687**.

**C1-202687 Correction to Handling of T3521 timer**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2193 rev 1 Cat: F (Rel-16)  
  
 Source: MediaTek Inc. / Marko*

(Replaces C1-202514)

**Discussion:**

Agreed

Revision of C1-202514

Roozbeh, Fri, 03:38

Just a NOTE might be better

Kaj, Fri, 06:25

Fine with the proposal, some rewording

Kaj, Fri, 06:34

Asks to disregard his previous email

Kaj, Fri, 06:36

Fine with the proposal, some rewording

Marko, Tue, 20:04

Will revise

**Decision:** The document was **agreed**.

**C1-202518 Correction to Handling of #31**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2194 Cat: F (Rel-16)  
  
 Source: MediaTek Inc. / Marko*

**Decision:** The document was **agreed**.

**C1-202523 De-registration before initial registration for Emergency Services**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2197 Cat: F (Rel-16)  
  
 Source: MediaTek Inc. / Marko*

**Decision:** The document was **agreed**.

**C1-202525 Handling of rejected NSSAI for the current RA when the RA includes the TAI belonging to EPLMN**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2199 Cat: F (Rel-16)  
  
 Source: SHARP*

**Discussion:**

Withdrawn

Based on request form Author, Wed, 09:17

Kaj, Fri, 07:00

proposed changes are not needed as already covered by 4.6.1

Yoko, Fri, 08:34

Explaining why this is needed

Osama, Fri, 18:50

Same as Kaj

Vishnu, Fri, 18:23

Change is confusing

Yoko, Mon, 04:26

Explaining

Vishnu, Mon, 10:58

Does not agree wit the CR

**Decision:** The document was **withdrawn**.

**C1-202526 Corrections on NSSAI storage**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2200 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon / Vishnu*

**Decision:** The document was **agreed**.

**C1-202528 UE behaviour when the UE receives the rejected NSSAI for the current RA in the registration reject message and the RA is not stored**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2202 Cat: F (Rel-16)  
  
 Source: SHARP*

**Decision:** The document was **revised to C1-202696**.

**C1-202696 UE behaviour when the UE receives the rejected NSSAI for the current RA in the registration reject message and the RA is not stored**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2202 rev 1 Cat: F (Rel-16)  
  
 Source: SHARP*

(Replaces C1-202528)

**Discussion:**

Agreed

Revision of C1-202528

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Roozbeh, Fri, 04:08

Is an implementation issue

Krisztian, 05:40

Why don’t we align the behavior in 5.5.1.2.5 with the behavior in 5.4.4.3

Yoko, Fri, 06:45

Not agreeing with Roozbeh

Yoko, Fri, 07:52

Explains to Krisztian why it is needed

Osama, Fri, 16:00

Not convinced

Vishnu, Fri, 18:31

Commenting, not right solution

Krisztian, Fri, 21:05

Further comments

Ani, Sat, 04:35

Same as Osama

Roozbeh, Sat, 22:30

Wants clarification

Roozbeh, Sun, 01:19

I am not convinced if there is any needed text

Yoka, Mon, 07:37

Providing some wording

Ani, Tue, 04:44

Some proposals

Yoko, Tue, 08:24

Providing a rev

Ani, Tue, 19:52

Fine, co-sign

Ani, Tue, 20:05

Update cover sheet

Vishnua, Tue, 23:02

Can not agree this CR

Yoko, Wed, 02:31

Rev

Ani, Wed, 03:30

Defending the CR

Vishnu, Wed, 08:57

More clarification needed

Ani, Wed, 09:04

Is Vishnu OK

Vishnu, wed, 09:28

Not convinced, but will not object

Yoko, Wed, 10:30

New rev

Kaj, Wed, 11:23

New comment

Ani, Wed, 11:41

To Vishnu

Ani; wed, 12:29

Explaining to Kaj

**Decision:** The document was **agreed**.

**C1-202530 Discussion on S-NSSAI based congestion control**

*Type: discussion For: Agreement  
 Source: MediaTek Inc., Qualcomm Incoporated. / JJ*

**Discussion:**

Noted

Fei, Thu, 12.15

UE solution only, prefers UE-QC1, no need to impact the network

Ivo, Thu, 12:47

Preference for UE-QC1

Sung, Fri, 00:54

Prefers UE-QC1, keep current behavior

Yudai, Fri, 07:03

prefer UE-QC1 and UE-CQ2 solutions

Jj, Fri, 07:52

Explaining things to Yudai

Lin, Sat, 07:11

Prefer MTK-1

Rae, Mon, 05:58

We prefer UE-MTK1

Yudai, Wed, 09:15

UE-QC1 solution or UE-CQ2

Yanchao, Wed, 12:44

prefer the UE-MTK1

Krisztian, THu

prefer UE-MTK1

**Decision:** The document was **noted**.

**C1-202534 Discussion on support of QoS rules/QoS flow descriptions with the length of two octets**

*Type: discussion For: Agreement  
 Source: MediaTek Inc. / JJ*

**Discussion:**

Noted

Fei, Thu, 12:17

In general, we would support the idea that the indicator is sent when the UE is in the S1 mode. can also be sent in the Modify bearer response or the activate dedicated bearer context response message

Ivo, Thu, 12:48

Prefers alt-1 or alt-2, as alt-3 rquires additional message

Rae

Alt-2 is preferred since Alt-3 will cause additional signaling when UE moves to EPS.

Osama, Fri, 17:46

Alt-2

Sung, Fri, 18:32

Not convinced with the argument against Alt-1 in the Disc

JJ, Sat, 07:03

Answering Sung

Yanchao, Sat, 12:46

Question for clarification

Jj, Mon, 05:51

Explaining, MTK supports Alt-2

Vishnu, Tue, 08:46

Alt-2

STATUS

Alt#1 (1): Ericsson

Alt#2 (5): Ericsson, Oppo, Qualcomm, Huawei, MediaTek

Alt#3 (1): ZTE

**Decision:** The document was **noted**.

**C1-202535 Indicate support of ePCO length of two octets parameter when establishing the PDU session – Alt#2**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-2204 Cat: F (Rel-16)  
  
 Source: MediaTek Inc. / JJ*

**Decision:** The document was **agreed**.

**C1-202536 Indicate support of ePCO length of two octets parameter in the bearer resource modification procedure – Alt#3**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3371 Cat: F (Rel-16)  
  
 Source: MediaTek Inc. / JJ*

**Discussion:**

Withdrawn

Based on request from Author, wed, 07:34

**Decision:** The document was **withdrawn**.

**C1-202537 Unsupported 5QI values**

*Type: CR For: Agreement  
 27.007 v16.4.0 CR-0686 Cat: F (Rel-16)  
  
 Source: MediaTek Inc. / JJ*

**Decision:** The document was **revised to C1-202820**.

**C1-202820 Unsupported 5QI values**

*Type: CR For: Agreement  
 27.007 v16.4.0 CR-0686 rev 1 Cat: F (Rel-16)  
  
 Source: MediaTek Inc. / JJ*

(Replaces C1-202537)

**Discussion:**

Agreed

Revision of C1-202537

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Osama, Fri, 02:33

Why is there difference btw +CGEQOS and +C5GQOS

JJ, Fri, 05:12

Provides revision in INBOX

Atle, Fri, 07:54

Agrees with the rev in INBOX

Osama, Fri, 19:32

Rev looks good

**Decision:** The document was **agreed**.

**C1-202538 Addition of 5GSM cause #59**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-2205 Cat: F (Rel-16)  
  
 Source: MediaTek Inc. / JJ*

**Decision:** The document was **revised to C1-202821**.

**C1-202821 Addition of 5GSM cause #59**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-2205 rev 1 Cat: F (Rel-16)  
  
 Source: MediaTek Inc. / JJ*

(Replaces C1-202538)

**Discussion:**

Agreed

Revision of C1-202538

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Ivo, Thu, 12:49

Not convinced that #59 is really needed

Roozbeh, Fri, 04:24

questions for clarification

JJ, Fri, 14:27

Provides a rev

Ivo, Mon, 14:25

Not convinced

Jj, Tue, 09:31

Commenting

Sung, Wed, 04:05

UE behavriou needed

JJ, Wed, 12:37

New rev

Ivo, Wed, 13:39

Asking for a NOTE

Jj, Wed, 14:11

Can do the Note

Ivo, Wed, 19:10

Co-signs

**Decision:** The document was **agreed**.

**C1-202541 Correction to the URSP coding**

*Type: CR For: Agreement  
 24.526 v16.3.0 CR-0068 rev 2 Cat: F (Rel-16)  
  
 Source: MediaTek Inc., ZTE / JJ*

(Replaces C1-198970)

**Discussion:**

Postponed

Based on request from author, Wed, 12:51

Revision of C1-198970

Ivo, Thu 12:49

Long list of comments

Lena, Thu, 16:41

Some comments, some rewording

Roozbeh, Fri, 04:28

Capitization

JJ, Mon, 09:53

Providing rev

Lazaros, Mon, 13:28

Fine, but some changes needed

JJ, Mon, 13:37

Fine with Lazaros changes

Ivo, mon, 13.30

revision is non-backward compatible

**Decision:** The document was **postponed**.

**C1-202583 Security handling**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2211 Cat: F (Rel-16)  
  
 Source: Samsung/ Kyungjo Grace Suh*

**Decision:** The document was **withdrawn**.

**C1-202592 Service reject for emergency EPS fallback**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-2213 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon/Lin*

**Decision:** The document was **revised to C1-202805**.

**C1-202805 Service reject for emergency EPS fallback**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-2213 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon/Lin*

(Replaces C1-202592)

**Discussion:**

Postponed

Revision of C1-202592

Lena, Fri, 00:35

Cannot agree

Sung, Fri, 01:01

Has concerns

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Ivo, Thu, 12:51

Do not see this as mandatory AMF action, not convinced that this is really quicker

Sung, Fri, 20:39

Decision criteria not known in the network

Lena, Sun, 22:52

Not in favour of this change

Lin, Wed, 11:49

Providing a rev

Sung, Wed, 14:04

Asking questions

Lin, Thu, 05:20

answering

**Decision:** The document was **postponed**.

**C1-202593 Handling of mapped EPS bearer contexts**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-2214 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon/Lin*

**Decision:** The document was **revised to C1-202806**.

**C1-202806 Handling of mapped EPS bearer contexts**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-2214 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon/Lin*

(Replaces C1-202593)

**Decision:** The document was **agreed**.

**C1-202594 Integrity check interworking in 5GMM-CONNECTED mode**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-2215 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon/Lin*

**Decision:** The document was **revised to C1-202807**.

**C1-202807 Integrity check interworking in 5GMM-CONNECTED mode**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-2215 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon/Lin*

(Replaces C1-202594)

**Decision:** The document was **agreed**.

**C1-202595 Correction on LADN DNN based congestion control**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-2216 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon/Lin*

**Decision:** The document was **revised to C1-202808**.

**C1-202808 Correction on LADN DNN based congestion control**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-2216 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon/Lin*

(Replaces C1-202595)

**Decision:** The document was **agreed**.

##### 16.2.4.2 5GProtoc16-non3GPP

**C1-202279 Add handling for UE configured to use timer T3245 in 5GS for non-3GPP access**

*Type: CR For: Agreement  
 24.502 v16.3.0 CR-0121 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **agreed**.

**C1-202578 Extending congestion notification to capture ePDG overload**

*Type: CR For: (not specified)  
 24.302 v16.3.0 CR-0718 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell, Charter Communications*

**Decision:** The document was **revised to C1-202907**.

**C1-202907 Extending congestion notification to capture ePDG overload**

*Type: CR For: -  
 24.302 v16.3.0 CR-0718 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell, Charter Communications*

(Replaces C1-202578)

**Discussion:**

Agreed

Revision of C1-202578

Amer Fine

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Ivo, Thu, 12:52

Does not see a need for the CR

Amer, Thu, 20:32

Same as Ivo, not needed

Roozbeh, Sat, 00:13

CR is not needed

Lazaros, Thu, 11:55

NEW REV

**Decision:** The document was **agreed**.

**C1-202579 Extending congestion notification to capture N3IWF or TNGF overload**

*Type: CR For: (not specified)  
 24.502 v16.3.0 CR-0130 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell, Charter Communications*

**Decision:** The document was **revised to C1-202903**.

**C1-202903 Extending congestion notification to capture N3IWF or TNGF overload**

*Type: CR For: -  
 24.502 v16.3.0 CR-0130 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell, Charter Communications*

(Replaces C1-202579)

**Discussion:**

Agreed

Revision of C1-202579

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Joy, Thu, 12:02

not appropriate to use this private error type”CONGESTION” to reflect the congestion status in N3IWF itself.

Roozbeh, Fri, 23:20

Not sure about Joy’s comment, solution is simpler than the RFC

Roozbeh, Sat: 00:08

Taking back previous comment, CR is NOT needed

Lazaros, Tue, 22:57

Explaining

Roozbeh, Wed, 16:12

Not convinced this is needed

Lazaros, Wed, 17:12

Explaining

Roozbeh, Thu, 02:09

Explaining

Lazaros, Thu, 11:25

Discussing

Joy can live with it

**Decision:** The document was **agreed**.

**C1-202580 Enable N3IWF to initiate TCP connection establishment upon failure**

*Type: CR For: (not specified)  
 24.502 v16.3.0 CR-0131 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to C1-202901**.

**C1-202901 Enable N3IWF to initiate TCP connection establishment upon failure**

*Type: CR For: -  
 24.502 v16.3.0 CR-0131 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces C1-202580)

**Discussion:**

Agreed

Revision of C1-202580

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Ivo, Thu, 12:52

Is misleading

Roozbeh, Fri, 04:39

Proposes changes

Lazraros, Thu, 01:33

Rev

Roozbeh, Thu, 02:37

New suggestions

Ivo, Thu, 10:05

Commenting

Lazaros providing a rev

**Decision:** The document was **agreed**.

#### 16.2.5 ATSSS

**C1-202009 EPS interworking of MA PDU session of 5G-RG when N26 is not supported**

*Type: CR For: (not specified)  
 24.501 v16.4.0 CR-2027 Cat: B (Rel-16)  
  
 Source: Ericsson / Ivo*

**Decision:** The document was **agreed**.

**C1-202019 Performance management function protocol**

*Type: pCR For: (not specified)  
 24.193 v1.1.0  
 Source: Ericsson, InterDigital, Nokia, Nokia Shanghai Bell, Huawei, HiSilicon, ZTE, SHARP, NTT DOCOMO, China Mobile, vivo, Softil, Convida Wireless, SyncTechno Inc., China Telecom / Ivo*

(Replaces C1-200314)

**Decision:** The document was **revised to C1-202621**.

**C1-202621 Performance management function protocol**

*Type: pCR For: -  
 24.193 v1.1.0  
 Source: Ericsson, InterDigital, Nokia, Nokia Shanghai Bell, Huawei, HiSilicon, ZTE, SHARP, NTT DOCOMO, China Mobile, vivo, Softil, Convida Wireless, SyncTechno Inc., China Telecom / Ivo*

(Replaces C1-202019)

**Decision:** The document was **revised to C1-202679**.

**C1-202679 Performance management function protocol**

*Type: pCR For: -  
 24.193 v1.1.0  
 Source: Ericsson, InterDigital, Nokia, Nokia Shanghai Bell, Huawei, HiSilicon, ZTE, SHARP, NTT DOCOMO, China Mobile, vivo, Softil, Convida Wireless, SyncTechno Inc., China Telecom / Ivo*

(Replaces C1-202621)

**Decision:** The document was **agreed**.

**C1-202021 Comparison of solutions for performance measurement function (PMF) protocol**

*Type: discussion For: (not specified)  
 Source: Ericsson / Ivo*

(Replaces C1-200313)

**Decision:** The document was **revised to C1-202622**.

**C1-202622 Comparison of solutions for performance measurement function (PMF) protocol**

*Type: discussion For: -  
 Source: Ericsson / Ivo*

(Replaces C1-202021)

**Discussion:**

Noted

Revision of C1-202021

Revision of C1-200313

Roozbeh, Thu, 19:36

Long explanation on security aspects, Lenovo and Motorola Mobility will stay neutral in the selection of the protocol

Krisztian, Fri, 07:49

Does not agree

Lazaros, Fri, 11:55

Comments

Ivo, Fri, 16:46

Long explanation

**Decision:** The document was **noted**.

**C1-202031 EPS interworking of MA PDU session of 5G-RG when N26 is supported**

*Type: CR For: (not specified)  
 24.501 v16.4.0 CR-2029 Cat: B (Rel-16)  
  
 Source: Ericsson / Ivo*

**Decision:** The document was **revised to C1-202695**.

**C1-202695 EPS interworking of MA PDU session of 5G-RG when N26 is supported**

*Type: CR For: -  
 24.501 v16.4.0 CR-2029 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson / Ivo*

(Replaces C1-202031)

**Decision:** The document was **agreed**.

**C1-202120 Applicability of PS data off to MA PDU**

*Type: CR For: Approval  
 24.501 v16.4.1 CR-2042 Cat: F (Rel-16)  
  
 Source: OPPO / Rae*

**Decision:** The document was **revised to C1-202701**.

**C1-202701 Applicability of PS data off to MA PDU**

*Type: CR For: Approval  
 24.501 v16.4.1 CR-2042 rev 1 Cat: F (Rel-16)  
  
 Source: OPPO / Rae*

(Replaces C1-202120)

**Discussion:**

Agreed

Revision of C1-202120

Partially overlaps with C1-202289

Joy, Thu, 11:44

Newly introduced Note is not sufficient

Roozbeh, Thu, 20:30

Improve cover page, rewording needed for new text

Atle, Thu, 22:27

New and existing text are repetititve, can this be combined?

Mikael,Fri, 16:24

Same view as roozbeh, atle, sentences to be combined

Rae, Mon, 05:37

All comments on board, rev in Inbox

Atle, Mon, 08:39

Fine with the rev, not super happy with some words, can live with it

Rae, Wed, 03:41

New rev, many things taken out

Mikael, Wed, 08:33

good

**Decision:** The document was **agreed**.

**C1-202142 Correction on network steering functionalities information**

*Type: pCR For: Agreement  
 24.193 v1.1.0  
 Source: ZTE / Joy*

**Decision:** The document was **agreed**.

**C1-202143 Correction on EPS interworking**

*Type: pCR For: Agreement  
 24.193 v1.1.0  
 Source: ZTE / Joy*

**Decision:** The document was **revised to C1-202661**.

**C1-202661 Correction on EPS interworking**

*Type: pCR For: Agreement  
 24.193 v1.1.0  
 Source: ZTE / Joy*

(Replaces C1-202143)

**Discussion:**

Agreed

Revision of C1-202143

Roozbhe, Thu, 20:38

Needs rewording

Joy, Fri, 08:19

Explaining why this is needed

Roozbeh, Fri, 18:25

Further commenting

Joy, Sat, 09:15

Fine with Roozbeh proposal, rev in Inbox

Roozbeh, Sat, 18:11

CR is fine

**Decision:** The document was **agreed**.

**C1-202266 ATSSS Performance Measurement Function Protocols and Procedures**

*Type: pCR For: Approval  
 24.193 v1.1.0  
 Source: Apple, Deutsche Telekom, Charter Communications, Ruckus, Commscope*

(Replaces C1-200655)

**Abstract:**

This proposal is to define the protocol and procedures for Performance Measurement Function (PMF) over IP and Ethernet for ATSSS.

**Discussion:**

Not Pursued

Based on outcome of show of hands and confirmed in confcall and email from Krisztian

Revision of C1-200655

Ivo, Thu, 12:52

Prefers Ericsson solution

**Decision:** The document was **not pursued**.

**C1-202294 Discussion on handling of clause 5.2 in TS 24.193**

*Type: discussion For: Discussion  
 Source: ZTE / Joy*

**Discussion:**

Noted

Roozbeh, Thu, 20:54

Looking for related CR, some improval for 4.12

Atle, Thu, 22:54

Good paper, provides some proposals

Peter

See result from ConfCall#3

**Decision:** The document was **noted**.

**C1-202371 Clarification of UE behavior on receiving ATSSS support indicator**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2133 Cat: B (Rel-16)  
  
 Source: SHARP*

**Discussion:**

Postponed

Based on request from author, Wed, 08:58

Joy, Thu, 11:45

change in this CR is not needed. It has been specified in clause 5.2.5 of 24.193 already.

Atle, Thu, 23:01

Not needed

Mikael, Fri, 16:55

Not needed

**Decision:** The document was **postponed**.

**C1-202372 Clarification of SMF and UE behavior in 5GS to EPS mobility without N26 interface**

*Type: pCR For: Agreement  
 24.193 v1.1.0  
 Source: SHARP*

**Decision:** The document was **revised to C1-202642**.

**C1-202642 Clarification of SMF and UE behavior in 5GS to EPS mobility without N26 interface**

*Type: pCR For: Agreement  
 24.193 v1.1.0  
 Source: SHARP*

(Replaces C1-202372)

**Discussion:**

Agreed

Revision of C1-202372

Joy, Thu, 11:45

Some of new text is not needed, transfer procedure incorrect, rest ok

Roozbeh, Thu, 21:42

Not sure that the CR is needed

Yudai, Fri, 09:41

Provides a rev in response to Roozbeh

Mikael, Fri, 16:44

Is the added text needed in 24.193?

Roozbeh, Sat, 19:53

Rev is fine

Yudai, Tue, 06:55

Provides rev

Mikael, Tue, 13:38

works

**Decision:** The document was **agreed**.

**C1-202431 Editorial fix in 9.11.4**

*Type: CR For: Approval  
 24.501 v16.4.1 CR-2169 Cat: D (Rel-16)  
  
 Source: Apple*

**Decision:** The document was **revised to C1-202650**.

**C1-202650 Editorial fix in 9.11.4**

*Type: CR For: Approval  
 24.501 v16.4.1 CR-2169 rev 1 Cat: D (Rel-16)  
  
 Source: Apple*

(Replaces C1-202431)

**Decision:** The document was **agreed**.

**C1-202531 Handlings of MA PDU session when deregistration from an access**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-2203 Cat: B (Rel-16)  
  
 Source: MediaTek Inc. / JJ*

**Decision:** The document was **revised to C1-202816**.

**C1-202816 Handlings of MA PDU session when deregistration from an access**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-2203 rev 1 Cat: B (Rel-16)  
  
 Source: MediaTek Inc. / JJ*

(Replaces C1-202531)

**Discussion:**

Agreed

Revision of C1-202531

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Atle, Thu, 23:08

Asking for clarification

JJ, Fri, 11:31

Answering to Atle, is this sufficient?

Atle, Fri, 12:51

Fine with explanation, doc needs to be revised accordingly

JJ, Mon, 11:19

Providing the rev

Atle, Tue, 01:10

Fine with the rev

**Decision:** The document was **agreed**.

**C1-202532 Considering allowed NSSAI when requesting MA PDU session upgrade**

*Type: pCR For: Agreement  
 24.193 v1.1.0  
 Source: MediaTek Inc. / JJ*

**Decision:** The document was **revised to C1-202818**.

**C1-202818 Considering allowed NSSAI when requesting MA PDU session upgrade**

*Type: pCR For: Agreement  
 24.193 v1.1.0  
 Source: MediaTek Inc. / JJ*

(Replaces C1-202532)

**Discussion:**

Agreed

Revision of C1-202532

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Osama, Thu, 22:07

Update cover page, add a NOTE

Atle, Thu, 23:05

Not convinced that this is correct

JJ, Fri, 13:17

Providing rev

Roozbeh, Sat, 20:12

Rev looks fine

Atle, Mon, 08:42

Rev is fine

**Decision:** The document was **agreed**.

**C1-202533 Correction to the steering modes**

*Type: pCR For: Agreement  
 24.193 v1.1.0  
 Source: MediaTek Inc. / JJ*

**Decision:** The document was **agreed**.

**C1-202575 PMF protocol alternatives analysis**

*Type: discussion For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**C1-202576 Minor clarification for ATSSS-LL support**

*Type: CR For: (not specified)  
 24.501 v16.4.1 CR-2209 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **withdrawn**.

**C1-202577 Clarification on MAI**

*Type: pCR For: (not specified)  
 24.193 v1.1.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **withdrawn**.

**C1-202582 Service Request for Multiple access PDU session**

*Type: pCR For: Agreement  
 24.193 v1.1.0  
 Source: Samsung / Kyungjoo Grace Suh*

**Discussion:**

Postponed

Roozbeh, Thu, 22:35

Asks for rewording

Lena, Fri, 05:14

Where is the stage-2

Lazaros, Fri, 12:16

do not see the need for the CR

**Decision:** The document was **postponed**.

#### 16.2.6 eNS

**C1-202111 Clarification S-NSSAI status in AMF for NSSAA**

*Type: CR For: (not specified)  
 24.501 v16.4.1 CR-2038 Cat: F (Rel-16)  
  
 Source: China Telecom Corporation Ltd.*

**Abstract:**

This CR proposes the clarification on AMF behavior on updating NSSAI status of NSSAA, and will not execute a NSSAA for a UE at every Periodic Registration Update or Mobility Registration procedure or Registration on another access with the PLMN.

**Discussion:**

Overlaps with C1-202454

**Decision:** The document was **revised to C1-202774**.

**C1-202774 Clarification S-NSSAI status in AMF for NSSAA**

*Type: CR For: -  
 24.501 v16.4.1 CR-2038 rev 1 Cat: F (Rel-16)  
  
 Source: China Telecom Corporation Ltd.*

(Replaces C1-202111)

**Discussion:**

Agreed

Revision of C1-202111

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Overlaps with C1-202454

Lin, Mon, 08:57

CR is fine, some changes, wants to co-sign

Ricky, Mon, 13:09

Supports Lin

Lin, Mon, 16:28

Provides proposal for wording

Ricky, Mon, 16:49

Futher refining

Lin, Mon, 16:54

Likes the text from Ricky

Tsuyoshi, Mon, 16:54

Hints at some CT4 work

Kaj, Mon, 23:26

Clarifying that Tsuyohsi’s comment does not require CT1 work

Tsuyoshi, Tue, 00:56

Would be ok to have it in NAS spec, but needs to be aligned between WGs

Atle, Tue 03:04

Some wording discussion

Fei, Tue, 03:18

To Tsyuoshi, just use reference to CT4 spec

Shuzehn, Tue, 07:26

Rev

Kaj, Tue, 08:37

Is this the latest rev

Shezehn, Tue, 09:51

Yes this is latest rever

Ricky, Tue, 13:31

Some changes needed

Lin, Wed, 03:41

Some improvements

Shuzehn, Wed, 05:48

rev

**Decision:** The document was **agreed**.

**C1-202112 Update description on whether UE indicate supporting NSSAA**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2039 Cat: F (Rel-16)  
  
 Source: China Telecom Corporation Ltd.*

**Abstract:**

Update description about the AMF behavior on when UE indicate supporting or not supporting NSSAA.

**Decision:** The document was **revised to C1-202872**.

**C1-202792 Update description on whether UE indicate supporting NSSAA**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2039 rev 1 Cat: F (Rel-16)  
  
 Source: China Telecom Corporation Ltd.*

(Replaces C1-202112)

**Decision:** The document was **withdrawn**.

**C1-202872 Update description on whether UE indicate supporting NSSAA**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2039 rev 1 Cat: F (Rel-16)  
  
 Source: China Telecom Corporation Ltd.*

(Replaces C1-202112)

**Discussion:**

Agreed

Revision of C1-202792

2792 marked withdrawn, so it is a rev of 2112

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Revision of C1-202112

Fei, Wed, 12:13

Editorials

Ricky, Wed, 12:53

Coversheet, cat f, consequences if not approved

Ricky, Thu, 18:49

Long explanation, CR is not neccssary

Kaj, Fri, 11:00

CR is not needed

Amer, Fri, 20:11

Untick ME, tick CN

Shuzehn, thu, 08:24

New rev

**Decision:** The document was **agreed**.

**C1-202113 Pending NSSAI update for the configured NSSAI in the CUC message**

*Type: CR For: (not specified)  
 24.501 v16.4.1 CR-2040 Cat: F (Rel-16)  
  
 Source: China Telecom Corporation Ltd.*

**Abstract:**

During the CUC procedure, when the UE received the configured NSSAI in the CONFIGURATION UPDATE COMMAND message while network slice-specific authentication and authorization is ongoing, the UE should remove from the stored pending NSSAI, one or more S-NSS

**Decision:** The document was **revised to C1-202778**.

**C1-202778 Pending NSSAI update for the configured NSSAI in the CUC message**

*Type: CR For: -  
 24.501 v16.4.1 CR-2040 rev 1 Cat: F (Rel-16)  
  
 Source: China Telecom Corporation Ltd.*

(Replaces C1-202113)

**Discussion:**

Agreed

Revision of C1-202113

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Shuzhen, Sun, 03:00

Provides a rev, highlighting that Amer comment on 2114 is to be made again 2113

Amer, Wed, 07:47

Fine with the rev

**Decision:** The document was **agreed**.

**C1-202114 Adding the referenced subclause 4.6.2.2 for the UE stored Pending NSSAI.**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2041 Cat: D (Rel-16)  
  
 Source: China Telecom Corporation Ltd.*

**Abstract:**

Adding the referenced subclause 4.6.2.2 for the UE stored Pending NSSAI.

**Discussion:**

merged into C1-202473

Amer, Fri, 20:17

New bullete needs revision, should have been made against 2113, no open comment against 2114

Fei, Thu, 11:01

Asks that this is merged into 2473 and its revisions

Lin, Thu, agrees with Fei

**Decision:** The document was **merged**.

**C1-202121 Missing condition for inclusion of “NSSAA to be performed” indicator**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2043 Cat: F (Rel-16)  
  
 Source: Samsung Electronics Polska / Ricky*

**Decision:** The document was **revised to C1-202629**.

**C1-202629 Missing condition for inclusion of “NSSAA to be performed” indicator**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2043 rev 1 Cat: F (Rel-16)  
  
 Source: Samsung, Ericsson*

(Replaces C1-202121)

**Decision:** The document was **agreed**.

**C1-202122 AMF triggers PDU session release**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2044 Cat: F (Rel-16)  
  
 Source: Samsung Electronics Polska / Ricky*

**Decision:** The document was **revised to C1-202608**.

**C1-202608 AMF triggers PDU session release**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2044 rev 1 Cat: F (Rel-16)  
  
 Source: Samsung Electronics Polska / Ricky*

(Replaces C1-202122)

**Discussion:**

Agreed

Revision of C1-202122

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Kaj, Fri, 11:34

Fine with the CR needs rewording

Sunhee, Fri, 11:43

Fine in general, some rewording

Ricky, Fri, 12:51

Provides rev

Yanchao, Fri, 16:36

CT1 has agreed that the local release of PDU session is enough in last meeting, no need to initiate the PDU session release procedure.

Ricky, Fri, 17:14

Agrees with Yanchao, new rev

Sunhee, Mon, 10:20

Follows majority

Kaj, Tue, 08:25

Explicit NAS sig applies

Ricyk, Tue, 12:16

Not agreeing with kaj

Kaj, Tue, 12:27

Not agreeing with ricky

Ricky, Tue, 17:28

Different view, asking for other companies position

Roozbeh, Tue, 23:06

Not clear

Ricky, Wed, 11:47

Explaining to Roozbeh

Roozbeh, Wed ,16:14

No issue with this cr

**Decision:** The document was **agreed**.

**C1-202123 Allowed NSSAI was formed from contents of the requested NSSAI and all default S-NSSAI(s) require network slice-specific authentication and authorisation**

*Type: discussion For: Agreement  
 Source: Samsung Electronics Polska / Ricky*

**Discussion:**

EN#11 & Task #4

See also C1-202123, 2124,2243, 2252

**Decision:** The document was **noted**.

**C1-202124 All default S-NSSAI(s) require network slice-specific authentication and authorisation (solution 1)**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2045 Cat: F (Rel-16)  
  
 Source: Samsung Electronics Polska / Ricky*

**Discussion:**

Postponed

EN#11 & Task #4

See also C1-202123, 2124,2243, 2252

Sunhee, Fri, 10:25

Conflicts with 2253, prefers to wati for conclusion in the SA2 discusion

Yanchao, Fri, 16:41

prefer to use the Ericson’s solution in C1-202252

Kaj, Sun, 22:47

2252 is the way to go, depends a bit on SA2

Roozbeh, Mon, 19:19

Prefers 2252

**Decision:** The document was **postponed**.

**C1-202134 Stopping of T3346 after receiving the NSSA Command message**

*Type: CR For: (not specified)  
 24.501 v16.4.1 CR-2049 Cat: F (Rel-16)  
  
 Source: BEIJING SAMSUNG TELECOM R&D*

**Decision:** The document was **agreed**.

**C1-202150 Inclusion of Rejected NSSAI in Registration reject with cause #62**

*Type: CR For: Discussion  
 24.501 v16.4.1 CR-2052 Cat: F (Rel-16)  
  
 Source: Samsung/Anikethan*

**Discussion:**

Postponed

Fei, Fri, 04:57

Including rejected NSSAI is optional

Ani, Sat, 22:11

Defending his CR

Atle, Sun, 10:43

Wants to co-sign

Kaj, Sun, 23:10

Seems the CR is not needed

Ani, Mon, 06:15

Answering Fei, Kaj

Fei, Tue, 08:44

We made decision this is optional

Kaj, Tue, 08:47

Concerns

Ane, Tue, 11:52

Rev

Kaj, Tue, 12:18

Commenting it can be out of synch

Ani, Tue, 12:34

Asking back

**Decision:** The document was **postponed**.

**C1-202157 Clarification on the rejected S-NSSAI included in requested NSSAI in registration procedure.**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2053 Cat: F (Rel-16)  
  
 Source: China Telecom Corporation Ltd.*

**Abstract:**

update the reject S-NSSAI due to NSSAA failed or revoked can be included in the requested NSSAI during Registration based on policy, local in the UE;

**Discussion:**

Ricky, Thu, 12.26

Concept not correct, prefers the proposal as in C1-202247

Shuzhen, Sun, 03:48

Discussing with Ricky

Kaj, Sun, 11:09

CR not needed

Ricky, Sun, 18:22

With rev of 2247, this CR is not needed

Shuzhen, Mon, 08:44

Agrees C1-202157 is not needed

Lin, Mon, 08:43

Keep on discussing, proposing a NOTE

Ricky, Mon, 1228

updating the Note

Lin, Mon, 14:56

Leaving it to Shuzhen what to do

Ricky, Mon, 15:20

Leaving it to Shuzehn

**Decision:** The document was **revised to C1-202776**.

**C1-202776 Clarification on the rejected S-NSSAI included in requested NSSAI in registration procedure.**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2053 rev 1 Cat: F (Rel-16)  
  
 Source: China Telecom Corporation Ltd.*

(Replaces C1-202157)

**Discussion:**

Agreed

Revision of C1-202157

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Ricky, Thu, 12.26

Concept not correct, prefers the proposal as in C1-202247

Shuzhen, Sun, 03:48

Discussing with Ricky

Kaj, Sun, 11:09

CR not needed

Ricky, Sun, 18:22

With rev of 2247, this CR is not needed

Shuzhen, Mon, 08:44

Agrees C1-202157 is not needed

Lin, Mon, 08:43

Keep on discussing, proposing a NOTE

Ricky, Mon, 1228

updating the Note

Lin, Mon, 14:56

Leaving it to Shuzhen what to do

Ricky, Mon, 15:20

Leaving it to Shuzehn

Kaj, ute, 08:58

Comments/thoughts

**Decision:** The document was **agreed**.

**C1-202170 The handling of N1 SM information during re-authentication and re-authorization for an S-NSSAI**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-2057 Cat: C (Rel-16)  
  
 Source: China Mobile*

**Discussion:**

EN#10 & Task#1

See also C1-202170, 2345, 2351, 2352.

**Decision:** The document was **revised to C1-202702**.

**C1-202702 The handling of N1 SM information during re-authentication and re-authorization for an S-NSSAI**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-2057 rev 1 Cat: C (Rel-16)  
  
 Source: China Mobile*

(Replaces C1-202170)

**Discussion:**

Postponed

Revision of C1-202170

Sung, Fri, 06:25

OBJECTS

EN#10 & Task#1

See also C1-202170, 2345, 2351, 2352.

Kaj, Sun, 11:16

CR should not be agreed

Amer, Sun, 18:35

Q for clarification

Roozbeh, Mon, 20:46

comments

Xu, Tue, 10:10

Does not agree with Kaj

Kaj, Tue, 11:38

Commenting

Xu, Tue, 12:41

Answering Roozbeh

**Decision:** The document was **postponed**.

**C1-202171 Updating descriptions of NS for NSSAA**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-2058 Cat: F (Rel-16)  
  
 Source: China Mobile*

**Decision:** The document was **revised to C1-202603**.

**C1-202603 Updating descriptions of NS for NSSAA**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-2058 rev 1 Cat: F (Rel-16)  
  
 Source: China Mobile*

(Replaces C1-202171)

**Discussion:**

Postponed

Revision of C1-202171

Roozbeh, thu, 23:41

I cannot agree

Ricky, Thu, 14:51

do not believe that this CR is required

Xu, Fri, 07:34

Explains why it is needed, also announces a revision

Suhnee, Fri, 11:50

Some rewording

Ricky, Fri, 13:17

respectively I disagree with Xu

Xu, Fri, 16:14

Acks Sunhee comments

Xu, Fri, 16:01

Acks ricky, new reve

Ricky, Fri 17:31

Fine, more changes needed

Xu, Sun, 10:06

Checking with Roozbeh there might be clashes with 2282, acks Ricky

Kaj, Sun, 11:26

Incomplete CR, does not see this is needed

Xu, Sun, 12:37

Hinting at rev, explaining to Kaj

Roozeh, Mon, 16:50

Further comments

Roozbeh, Mon, 22:46

Further comments

Kaj, Tue, 09:19

comenting

Roozbeh, Tue, 23:15

Not clear what he proposes

Xu, Wed ,13:16

Commenting

Roozbeh, Wed, 18:53

New update

Ricky, Wed, 19:59

Not agreeing with roozbeh

Roozbeh, Wed, 21:03

answerign

**Decision:** The document was **postponed**.

**C1-202172 Discussion paper on the impact of non-standard S-NSSAI mapping to NSSAA and NSSAI storage**

*Type: discussion For: Discussion  
 24.501 v..  
 Source: China Mobile*

**Discussion:**

Noted

Ani, Sat, 23.25

Acks the use case, number of comments

Xu, Sun 17:45

Discussing

Fei, Mon, 05:35

Use cases are valid, two approaches

Ani, Tue, 04:34

Option-2

Xu, tue, 07:04

Asking whether to further study this and find a backward compatible solution

Ani, Tue, 07:45

Will provide comments n the CR in 2173 soon

Kaj, Tue, 08:02

Comments

Fei, Tue, 08:47

only address the rejected NSSAI for the failed NSSAA at this emeeting

Kaj, Tue, 09:37

More comments

Ani, Wed, 04:30

Too many changes

Xu, Wed, 17:29

Providing the rev

**Decision:** The document was **noted**.

**C1-202173 Updating requirements of NSSAA for roaming scenerios**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-2059 Cat: C (Rel-16)  
  
 Source: China Mobile*

**Decision:** The document was **revised to C1-202628**.

**C1-202628 Updating requirements of NSSAA for roaming scenerios**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-2059 rev 1 Cat: C (Rel-16)  
  
 Source: China Mobile*

(Replaces C1-202173)

**Discussion:**

Agreed

Revision of C1-202173

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Ani, thu, 05:56

Commenting, same as in the disc paper, just some parts are needed

Shuzhen, thu, 09:51

Agreeing with arni, new rev

New rev

Fei, minor comment, wants to co-sig

Ani FINE

**Decision:** The document was **agreed**.

**C1-202224 T3540 is not started if the Registration Accept includes a pending NSSAI**

*Type: CR For: (not specified)  
 24.501 v16.4.1 CR-2075 Cat: F (Rel-16)  
  
 Source: BEIJING SAMSUNG TELECOM R&D*

**Discussion:**

Agreed

Amer, Sun, 09:48

Q for clarification, seem to go against existing EN

Mahmoud, Mon, 05:35

Long email

Amer, Wed, 08:04

Some comments

Mahmoud, Wed, 17:05

Answering

Amer, Thu, 02:07

OK with the CR

**Decision:** The document was **agreed**.

**C1-202234 Clarify that NSSAA can occur during periodic registration or mobility updating for NB-N1 mode UEs**

*Type: CR For: (not specified)  
 24.501 v16.4.1 CR-2079 Cat: F (Rel-16)  
  
 Source: BEIJING SAMSUNG TELECOM R&D*

**Decision:** The document was **revised to C1-202678**.

**C1-202678 Clarify that NSSAA can occur during periodic registration or mobility updating for NB-N1 mode UEs**

*Type: CR For: -  
 24.501 v16.4.1 CR-2079 rev 1 Cat: F (Rel-16)  
  
 Source: BEIJING SAMSUNG TELECOM R&D*

(Replaces C1-202234)

**Discussion:**

Agreed

Revision of C1-202234

Kaj, Fri, 14:18

CR is not needed

Mahmoud, Fri, 16:33

Explaining the case

Kaj, Tue, 10:18

Further issues

Mahmoud, Tue, 20:23

Rev

Kaj, Wed, 09:15

Can this really happen??

Mahmoud, Wed, 15:36

Answering

Kaj, Thu, 00:41

Use case not valid

Mahmoud, Thu, 01:18

Not agreeing

Kaj, Thu, 01:38

Use case not valid

Mahmoud, Thu, 01:59

“Kaj is not answering the questin”

Fei, Thu, 04.22

Confirming the use case

Mahmoud, Thu,06:05

“Baseline of the spec support his view”

Kaj, Thu, 10:15

Fine with Fei, The issue I have is the understanding of what such by AMF changed allowed NSSAI may inlcude.

And that I have explained below and with that I don’t see the changes proposed are applicable based on that a S-NSSAI subject to re-NSSAA will still be in allowed NSSAAI and not be inlcuded in pending NSSAI.

Mahmoud, Thu, 10:49

Does not agree with Kaj

**Decision:** The document was **agreed**.

**C1-202241 Fixing typo related to eNS**

*Type: CR For: (not specified)  
 24.501 v16.4.1 CR-2080 Cat: F (Rel-16)  
  
 Source: BEIJING SAMSUNG TELECOM R&D*

**Decision:** The document was **agreed**.

**C1-202243 All default S-NSSAI(s) require network slice-specific authentication and authorisation (solution 2B)**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2081 Cat: F (Rel-16)  
  
 Source: Samsung Electronics Polska / Ricky*

**Discussion:**

Postponed

EN#11 & Task #4

See also C1-202123, 2124,2243, 2252

Kaj, Sun, 22:47

2252 is the way to go, depends a bit on SA2

Roozbeh, Mon, 21:15

Do not agree

**Decision:** The document was **postponed**.

**C1-202246 S-NSSAI in rejected NSSAI for the failed or revoked NSSAA not to be requested**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2083 Cat: F (Rel-16)  
  
 Source: Ericsson /kaj*

**Decision:** The document was **withdrawn**.

**C1-202247 S-NSSAI in rejected NSSAI for the failed or revoked NSSAA not to be requested**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-1734 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson /kaj*

(Replaces C1-198417)

**Decision:** The document was **revised to C1-202813**.

**C1-202813 S-NSSAI in rejected NSSAI for the failed or revoked NSSAA not to be requested**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-1734 rev 2 Cat: F (Rel-16)  
  
 Source: Ericsson /kaj*

(Replaces C1-202247)

**Discussion:**

Agreed

Revision of C1-202247

Revision of C1-198417

Ricky, Thu, 13:46

Agrees with the concept, some changes are missing in #62 in some subclauses, cover sheet needs improvement, wants to co-sign

Roozbeh, 20:34

Is this really needed?

Kaj, Wed, 15:46

New rev

Roozbeh is fine

**Decision:** The document was **agreed**.

**C1-202248 Alignment of UE actions of rejected NSSAI for the failed or revoked NSSAA**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2084 Cat: F (Rel-16)  
  
 Source: Ericsson /kaj*

**Decision:** The document was **revised to C1-202825**.

**C1-202825 Alignment of UE actions of rejected NSSAI for the failed or revoked NSSAA**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2084 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson /kaj*

(Replaces C1-202248)

**Discussion:**

Agreed

Revision of C1-202248

Lin, FINE

Lin, Mon, 10:02

Improves wording

Roozbeh, Mon, 21:20

Wording changes

Kaj, Wed, 16:45

Acks Roozbeh

**Decision:** The document was **agreed**.

**C1-202250 Request S-NSSAI pending the NW slice-specific authentication and authorization**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2004 rev 1 Cat: C (Rel-16)  
  
 Source: Ericsson /kaj*

(Replaces C1-200724)

**Discussion:**

Postponed

Revision of C1-200724

Task#3, See also C1-202250, 2472, 2473

Yanchao, Thu, 12:54

Issue with change in 4.6.2.4, editorial in 5.5.3.1.2

Mahmoud, Thu, 22:36

Detailed comments, prefers C1-202473 from Huawei as baseline, both CRs could be merged

Atle, Fri, 13:10

Fine in general, needs different approach

Kaj, Fri, 16:28

Answering the comments

Mahmoud, Fri, 17:33

Commenting

Kaj, Mon, 09:39

Answering Atle

Lin, Mon, 09:50

Could be merged with 2473, many comments

Kaj, Mon, 12:07

Commenting, seems he is willing to merge

Atle, Mon, 14:46

Answering Kaj, accepts to wait for other groups

Atle, Tue, 02:39

Asking if this is going to be merged to 2473

Atle, Wed, 00:34

Not happy to link discussion to a SA2 CR whith unknown status, focus on exsiting requirements

Lin, Wed, 04:27

Explaining to Kaj

**Decision:** The document was **postponed**.

**C1-202252 S-NSSAIs always selected from allowed NSSAI by AMF**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2086 Cat: F (Rel-16)  
  
 Source: Ericsson /kaj*

**Discussion:**

Postponed

EN#11 & Task #4

See also C1-202123, 2124,2243, 2252

Sunhee, Fri, 11:40

Conflicts with C1-202124, prefers to wait for SA2

Ricky, Fri, 13:52

Samsung cannot agree to CR C1-202252

Kaj, Mon, 09:51

I think we have to wait for the outcome from SA2 meeting before progressing

Ricky, Mon, 14:03

agree that we have to wait until SA2 progresses this issue

**Decision:** The document was **postponed**.

**C1-202257 Exception to initiate the service request procedure during NSSAA when there is no allowed NSSAI**

*Type: CR For: (not specified)  
 24.501 v16.4.1 CR-2089 Cat: F (Rel-16)  
  
 Source: BEIJING SAMSUNG TELECOM R&D*

**Decision:** The document was **revised to C1-202827**.

**C1-202827 Exception to initiate the service request procedure during NSSAA when there is no allowed NSSAI**

*Type: CR For: -  
 24.501 v16.4.1 CR-2089 rev 1 Cat: F (Rel-16)  
  
 Source: BEIJING SAMSUNG TELECOM R&D*

(Replaces C1-202257)

**Discussion:**

Agreed

Revision of C1-202257

Fei, Fri, 05:20

Update on condition needed for SMS

Mahmoud, Fri, 05:46

Clarifies for Fei

Fei, Fri, 08:46

Very confused by the condition

Mahmound, Fri, 20:30

Providing a rev, is that ok for Fei?

Amer, Sun 09:44

Q for clarification

Fei, Tue 08:52

Fine

Kaj, Tue, 10:40

SMS in ServiceRequest violates stage-2

Fei, Tue, 11:54

Hinting at decision from last meeting

Kaj, Tue, 14:17

Last time we sent an LS to SA2, should we now ask for their blessing

Mahmoud, Tue, 15:16

Is ok to send LS, but wants to know what is agreeabel

Mahmoud, Tue, 17:31

Answering Amer

Amer, Wed, 08:08

fine

**Decision:** The document was **agreed**.

**C1-202259 NSSAA for UEs that roam across 5GS VPLMNs**

*Type: CR For: (not specified)  
 24.501 v16.4.1 CR-2090 Cat: F (Rel-16)  
  
 Source: BEIJING SAMSUNG TELECOM R&D*

**Decision:** The document was **revised to C1-202669**.

**C1-202669 NSSAA for UEs that roam across 5GS VPLMNs**

*Type: CR For: -  
 24.501 v16.4.1 CR-2090 rev 1 Cat: F (Rel-16)  
  
 Source: BEIJING SAMSUNG TELECOM R&D*

(Replaces C1-202259)

**Discussion:**

Postponed

Revision of C1-202259

Amer, OK

Kaj, Thu, 11:41

NOT OK with the Cr

Mahmoud, Thu, 12:02

Not happy with this late comment, seems not correct to him

Kaj, Thu, 14:49

Can accept this CR, may come back

Karj, Friday, 11:24

Requests this to be postponed

Amer, Sun, 17:48

Some modification to the text

Mahmoud, Mon, 05.56

Asking for clarification from Amer

Kaj, Mon, 07:50

Change in 5.4.4.3 is and 5.5.1.3.4 not applicable.

Mahmoud, Mon, 15:29

Answering

Mahmour, Tue, 19:32

Providing rev

Amer, Wed, 08:18

New proposal

Mahmoud, Wed, 15:50

New proposal

Amer, Thu, 02:20

Fine with latest draft

**Decision:** The document was **postponed**.

**C1-202261 Missing condition at registration reject due to no available slices**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2091 Cat: F (Rel-16)  
  
 Source: Ericsson /kaj*

**Decision:** The document was **revised to C1-202784**.

**C1-202784 Missing condition at registration reject due to no available slices**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2091 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson /kaj*

(Replaces C1-202261)

**Discussion:**

Agreed

Revision of C1-202261

Lin, Thu, 09:04

Kaj, Agrees with Lin, new rev will come

Ricky, Thu, 12:05

Cover sheet, and wording improvement

Lin, Mon 07:28

Additional typo

Kaj, Mon ,10:18

Fine

Kaj, Wed, 11.33

New rev

Ricky, Wed, 13:00

Some minor comments

**Decision:** The document was **agreed**.

**C1-202282 Network-requested PDU session release due to failed or revoked NSSAA**

*Type: CR For: (not specified)  
 24.501 v16.4.1 CR-2099 Cat: F (Rel-16)  
  
 Source: Motorola Mobility, Lenovo*

**Decision:** The document was **revised to C1-202618**.

**C1-202618 Network-requested PDU session release due to failed or revoked NSSAA**

*Type: CR For: -  
 24.501 v16.4.1 CR-2099 rev 1 Cat: F (Rel-16)  
  
 Source: Motorola Mobility, Lenovo*

(Replaces C1-202282)

**Decision:** The document was **revised to C1-202918**.

**C1-202918 Network-requested PDU session release due to failed or revoked NSSAA**

*Type: CR For: -  
 24.501 v16.4.1 CR-2099 rev 2 Cat: F (Rel-16)  
  
 Source: Motorola Mobility, Lenovo*

(Replaces C1-202618)

**Discussion:**

Postponed

Revision of C1-202618

Xu, Fri, 12:03

Object the CR

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Revision of C1-202282

Shuzhen, Thu, 15:27

Does not agree with current wording

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Yanchao, Thu, 13:25

Changes in 5.4.4.3 are not needed

Ricky, Thu, 16:07

Additional changes to subclause 4.6.2.4 are needed

Sunhee, Fri, 11:55

Similar to 2430, there is an additional cause code needed

Roozbeh, Sun, 23.25

Discussing and providing a rev, is it OK?

Roozbeh, Sun, 23:57

Acks that this is similar to 2430, 2282 attempts to adjust existing text

Amer, Mon, 05:04

Comments

Lin, Mon, 09:06

last change given in sub 5.4.4.3 is not needed

Ricky, Mon, 11:58

Fine with theCR, but interaction with 2603 is to be solved

Roozbeh, Mon, 23:21

Provides a rev

Lin, Tue, 04:28

Fine with the rev

Xu, Wed, 11:43

Number of comments

Roozbeh, Wed, 21:03

Rev

Xu, Thu, 03:49

Rewording

Roozbeh, Thu, 06:43

New rev

**Decision:** The document was **postponed**.

**C1-202329 Updating Rejeted NSSAI IE for failed NSSAA case in roaming scenerios**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-2108 Cat: C (Rel-16)  
  
 Source: China Mobile*

**Decision:** The document was **revised to C1-202627**.

**C1-202627 Updating Rejeted NSSAI IE for failed NSSAA case in roaming scenerios**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-2108 rev 1 Cat: C (Rel-16)  
  
 Source: China Mobile*

(Replaces C1-202329)

**Discussion:**

Agreed

Revision of C1-202329

Kaj, thu, 11:54

Cover page, Note is needed

Kaj, Fr, 09:53

Fine with the CR

Amer, Sun, 18:06

New text to go to procedural subclauses

Xu, Tue, 05:19

Provides a rev

**Decision:** The document was **agreed**.

**C1-202330 Abnormal case about missing EAP result for NSSAA**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-2109 Cat: C (Rel-16)  
  
 Source: China Mobile*

**Decision:** The document was **withdrawn**.

**C1-202332 Work Plan for eNS in CT1**

*Type: Work Plan For: Information  
 Source: ZTE*

**Decision:** The document was **noted**.

**C1-202340 Deleting Editors note regarding indefinite wait at the UE for NSSAA completion**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-1912 rev 3 Cat: C (Rel-16)  
  
 Source: ZTE*

(Replaces C1-201051)

**Discussion:**

Request from author

Revision of C1-201051

EN#1 & Task #2

Kundan, Tue, 16:05

Wants this to be postponed

**Decision:** The document was **postponed**.

**C1-202345 Discussion on re-initiation of NSSAA**

*Type: discussion For: (not specified)  
 Source: BEIJING SAMSUNG TELECOM R&D*

**Discussion:**

Noted

EN#10 & Task#1

See also C1-202170, 2345, 2351, 2352

Kaj, Wed, 00:06

Describing a third option

Fei, Wed, 08:24

Option 3 seems to mean Do nothing in the spec

Kaj, Wed, 08:53

Yes

Mahmoud, Wed, 16:52

Do nothing not acceptable

Kaj, Thu, 00:04

arguing

**Decision:** The document was **noted**.

**C1-202346 EPS selection when the UE is deregistered due to NSSAA failure**

*Type: CR For: (not specified)  
 24.501 v16.4.1 CR-1950 rev 1 Cat: F (Rel-16)  
  
 Source: Samsung/Kundan*

(Replaces C1-200572)

**Discussion:**

Postponed

Revision of C1-200572

Yanchao, Thu, 13:37

Ok in principle, but more changes are needed

Kundan, Thu, 14:37

Ok with Yanchao’s comments

Fei, Fri, 08:28

as commented in the last meeting, the CR is not needed

Roozbeh, Mon, 21:43

Same as Fei

Kund, Tue, 09:27

Defending

**Decision:** The document was **postponed**.

**C1-202351 Re-initiation of NSSAA (solution #1)**

*Type: CR For: (not specified)  
 24.501 v16.4.1 CR-2124 Cat: F (Rel-16)  
  
 Source: BEIJING SAMSUNG TELECOM R&D*

**Discussion:**

Postponed

EN#10 & Task#1

See also C1-202170, 2345, 2351, 2352.

Mahmoud, Mon, 05:41

This is more efficient than #2

Kaj, Mon, 07:38

Current solution preferred, CR not needed

Vishnu, Mon, 10:22

support Solution #1. (i.e CR C1-202351)

Roozbeh, Man, 20:11

sending the pending NSSAI to the UE during the reNSSAA … not needed

Mahmoud, Mon, 20:23

Not clear with Roozbeh’s statement, seems not aligned with his previous input to the discussion

Sung, Tue, 05:58

Supports, but needs some rewording

Sunhee, Tue, 09:53

Comments

Roozbeh, Tue, 16:45

Asking for clarification from Mahmoud

Mahmoud, Tue, 17:43

Answering Roozbeh

Roozbeh, Tue, 18:26

Concept is fine, however, can it be “may”

**Decision:** The document was **postponed**.

**C1-202352 Re-initiation of NSSAA (solution #2)**

*Type: CR For: (not specified)  
 24.501 v16.4.1 CR-2125 Cat: F (Rel-16)  
  
 Source: BEIJING SAMSUNG TELECOM R&D*

**Discussion:**

Postponed

EN#10 & Task#1

See also C1-202170, 2345, 2351, 2352

Amer, Sun, 18:39

prefer this CR versus C1-202351

Kaj, Mon, 07:38

Current solution preferred, CR not needed

Roozbeh, Mon, 20:23

Not needed

Mahmound, Mon, 20:46

Answering to Roozbehm this is about new requests

Mahmoud, Mon, 20:47

Anserign Kaj,

Tsuyoshi, Tue, 01:42

Commenting Kaj, case is to be considered

**Decision:** The document was **postponed**.

**C1-202374 NSSAA in an SNPN**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2135 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to C1-202833**.

**C1-202833 NSSAA in an SNPN**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2135 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces C1-202374)

**Discussion:**

Agreed

Revision of C1-202374

Yanchao, Thu, 13:37

usage of ‘RSNPN’ and ’SNPN’ should be aligned

Lin, Mon, 08:51

With comment form Yanchao, could live with the CR, also not big issue to be solved

**Decision:** The document was **agreed**.

**C1-202383 Clarification to NSSAA procedure**

*Type: CR For: (not specified)  
 24.501 v16.4.1 CR-2143 Cat: F (Rel-16)  
  
 Source: Samsung/Kundan*

**Discussion:**

Postponed

Kaj, Fri, 10:41

don’t see that the proposed should be in the NAS specification.

Kundan, Fri, 12:08

Sees no issue with capturing this in CT1 spec

Kaj, Fri, 16:47

SA2 needs to do this first

Kundan, Mon, 11:45

Generic sub-clause 4.6.2.4 fits

Kaj, Mon, 14:20

This is a stage-2 group decision

Tsuyoshi, Tue, 01:59

SA2 first

**Decision:** The document was **postponed**.

**C1-202385 Handling of Pending S-NSSAI**

*Type: CR For: (not specified)  
 24.501 v16.4.1 CR-2144 Cat: F (Rel-16)  
  
 Source: Samsung/Kundan*

**Decision:** The document was **revised to C1-202881**.

**C1-202881 Handling of Pending S-NSSAI**

*Type: CR For: -  
 24.501 v16.4.1 CR-2144 rev 1 Cat: F (Rel-16)  
  
 Source: Samsung/Kundan*

(Replaces C1-202385)

**Discussion:**

Agreed

Revision of C1-202385

------------------------------------------------

Frederic, Thu, 09:08

Clauses affected missing

Vishnu, Sun, 15:15

Fine, some editorials

Vishnu, Sun, 16:17

Fine

Kundan, Thu, 07:29

New rev

Vishnu, thu, 08:19

Almost ok

KundanThu, 08:45

rev

**Decision:** The document was **agreed**.

**C1-202430 Release PDU sessions due to revocation from AAA server , re-auth failure**

*Type: CR For: (not specified)  
 24.501 v16.4.1 CR-2168 Cat: F (Rel-16)  
  
 Source: LG Electronics France*

**Discussion:**

Postponed

Yanchao, Thu, 13:42

PDU session release via explicit NAS signaling is not needed for this case

Fei, Fri, 08:30

Same as yanchao

Sunhee, Fri, 09:36

Explains that this is inline with SA2

Kaj, Fri, 11:22

not convinced that a new 5GSM cause value is needed

Ricky, Fri, 18:12

Same view as Yanchao and Fei

Fei, Sat, 07:59

Releasing without NAS sig is inline with stage-2

Sunhee, 12:11

Thinks that explicit NAS sig is needed, this goes to Ricky and Fei

Sunhee, Sun, 13:13

NAS sig is needed, to Kaj

Amer, Sun, 19:13

Wrong wording

Roozbeh, Mon, 01:07

CR is not needed

Lin, Mon, 09:08

same view as Yanchao, Fei and Ricky.

Sunhee, Mon ,09:40

Taking Amer comment on board, rev in Inbox

Sunhee, Mon, 12:05

will not insist my CR.

**Decision:** The document was **postponed**.

**C1-202454 Updating NSSAI status in AMF**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-1990 rev 1 Cat: F (Rel-16)  
  
 Source: NEC*

(Replaces C1-200691)

**Discussion:**

Postponed

Requested by the author

Revision of C1-200691

Overlaps with C1-202111

Kaj, Fri, 10:57

don’t see that NAS spec is the correct document to capture this

Lin, Mon, 08:54

Change is not aligned with the cover page

Tsuyoshi, Tue, 03:41

Want to see outcome of CT4 first before making any progress

Lin, Tue, 09:23

Ct1 and ct4 can do this separately

Kaj, Tue, 11:15

Let’s wait for CT4

Tsuyoshi, wed, 07:06

No need to wait for CT4, 2 questions

Lin, Wed ,10:06

Answering tsuysohsi

Tsuyoshi Thu, 03:54

Some questins from Lin

Lin, Thu, 10:55

What is the purpose of the CR?ß

**Decision:** The document was **postponed**.

**C1-202472 Discussion on including pending S-NSSAI(s) in the requested NSSAI**

*Type: discussion For: Decision  
 Source: Huawei, HiSilicon/Lin*

**Discussion:**

Task#3

See also C1-202250, 2472, 2473

related outgoing LS in 2474

**Decision:** The document was **noted**.

**C1-202473 Inclusion of pending S-NSSAI(s) in the requested NSSAI**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-2180 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon, China Telecom/Lin*

**Discussion:**

Task#3

See also C1-202250, 2472, 2473

related outgoing LS in 2474

**Decision:** The document was **revised to C1-202800**.

**C1-202800 Inclusion of pending S-NSSAI(s) in the requested NSSAI**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-2180 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon, China Telecom/Lin*

(Replaces C1-202473)

**Decision:** The document was **revised to C1-202871**.

**C1-202871 Clarification on handling of pending NSSAI**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-2180 rev 2 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon, China Telecom/Lin*

(Replaces C1-202800)

**Discussion:**

Agreed

Revision of C1-202800

Revision of C1-202473

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Task#3,

See also C1-202250, 2472, 2473

Mahmoud, Fri, 05:44

generally fine with the paper however it still requires some improvements, wants co-signing

Lin, Fri, 12:49

Provides a rev

Mahmoud, Fri, 17:16

Still has comments

Lin, Sat, 03:59

Answering Mahmoud

Fei, Sat 04:38

Providing his view ,

Lin, Sat, 08:17

Either “add-on” or “replace”, no mixure

Mahmoud, Sat, 21:54

Agrees with Lin,

Atle, Sun, 11:05

Ok with some changes, objecting to some others

Lin, Mon, 04:07

Not agreeing with Atle

Fei, Mon, 04:29

Agrees with Lin

Kaj, Mon, 07.33

1 ok, 2 partly, 3 comments

Lin, Mon, 09:43

Rev2, to Mahmound

Fei, Mon, 09:42

Access agnostic pending NSSAI, need to be areful

Lin, Mon, 09:58

Providing rev2, asking Kaj, whether 2250 can be merged into this

Tsuyoshi, Mon, 11:19

Question

Atle, Mon, 15:16

Commenting

Mahmoud, Mon, 15:43

Answering Atle

Tsuyoshi, Mon, 16:03

Q for clarification

Mahoumd, Mon, 16:36

answering

Tsuyoshi, Mon, 16:46

Fine with Mahmoud reply

Atle, Tue, 02:39

Not agreeing with Mahmoud

Mahmoud, Tue, 05:17

ongoing disc with Atle

Sung, Tue, 0813

Comments on rev2

Lin, Tue, 10:45

commenting

Lin, Tue, 10:59

Commenting

Kaj, Tue, 11:06

Concern, hinting at S2-2002850

Lin, Tue, 11:18

Providing a rev

Fei, Tue, 11:40

comments

Atel, Tue, 11:55

Comments

Atel, Tue, 12:21

Commenting

Atle, Wed, 00:51

this point in the release, I am not willing to agree stage-3 changes that break stage-2.

Wait for SA2

Kaj, Wed, 09:18

Ok with Lins latest explanation, merging with might be possible

Lin, Thu, 04:52

To atle, has taken all Task#3 things out, is it fine?

Lin, Thu, 08:53

New rev

Mahmoud, Thu, 09:06

OK

Atle, Thu, 10:17

Comments

Lin, new Rev

Atle FINE with REV3

**Decision:** The document was **agreed**.

**C1-202475 Term on rejected NSSAI for the failed or revoked NSSAA**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-2181 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon/Lin*

**Decision:** The document was **agreed**.

**C1-202543 Clarification to NW slice-specific re-authentication and re-authorization**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2206 Cat: F (Rel-16)  
  
 Source: Ericsson /kaj*

**Discussion:**

Postponed

Lin, Mon, 08:32

CR is not needed, covered in the spec

Kaj, mon, 10:33

Not convinced by the arguments

Roozbeh, Mon,22:16

Change does not make sense

Tsuyoshi, Tue, 01:26

Why is AMF description needed for this specific case

Lin, Tue, 09:41

Does not agree on all aspects

Kaj, Tue, 11:32

Ack Lin paritally

Kaj Tue, 11:58

Answering

Tsuyoshi, Wed, 06:36

Still has questions

Lin, Wed, 10:24

Comments

Kaj, Wed, 11:05

Unclear comments

Tsuyoshi, Thu, 05:44

Can not agree

Kaj, Thu, 10:00

Does not agree

Tsuyoshi, Thu, 10:46

Not agreeing

**Decision:** The document was **postponed**.

**C1-202587 Update Handing EAP Result for NSSAA**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-2212 Cat: F (Rel-16)  
  
 Source: China Mobile*

**Decision:** The document was **withdrawn**.

**C1-202589 eNS – way forward for indefinite wait for NSSAA**

*Type: discussion For: Discussion  
 Source: InterDigital / Atle*

**Discussion:**

EN#1 & Task #2

**Decision:** The document was **noted**.

#### 16.2.7 Vertical\_LAN

**C1-202350 TSN working domain terminology**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2123 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon / Cristina*

**Discussion:**

Lena, Thu, 17:59

Some rewording needed, overlaps with Nokia’s C1-202435

Cristina, Fri, 05:32

Will provide revision

Sung, Mon, 03:48

Changes in subclause 4.15.2.2 are incorrect

Cristina, Mon, 05.07

Explaining

Sung, Mon, 05:18

Does not agree

Sung, Mon, 05:54

disagree with changing subclause 4.15.2.2

Sung, Mon, 14:57

Some clarification in SA2 is needed

Lena, Tue, 05:37

ok to not have to changes in subclause 4.15.2.2

Cristina, Tue, 05:47

Wants to postponed and wait for SA2

Sung, Tue, 07:28

OK with postponing both C1-202350 and C1-202435, wants to go on with 2433

**Decision:** The document was **postponed**.

**C1-202353 TSN working domain terminology**

*Type: CR For: Agreement  
 24.535 v16.0.0 CR-0001 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon / Cristina*

**Discussion:**

Merged into C1-202433 and its revisions

Based on request from author

Ivo, Thu, 13:39

overlaps with C1-202433

Lena, Thus, 18:01

Some rewording overlaps with C1-202433

Sung, Mon, 03:23

Prefers 2433

Cristina, Tue, 05:47

Wants to postponed and wait for SA2

Sung,

OK with postponing both C1-202350 and C1-202435, wants to go on with 2433

Sung, Tue, 15:03

2353 to be merged into 2433

**Decision:** The document was **merged**.

**C1-202354 Trigger for Initial Registration procedure**

*Type: CR For: Approval  
 24.501 v16.4.1 CR-2126 Cat: F (Rel-16)  
  
 Source: Samsung/Kundan*

**Discussion:**

Postponed

Ivo, Thu, 12:54

Change seems unnecessary

Vishnu, Thu, 17:09

Can be useful, needs fixes

Lena, Thu, 23:07

Fine with the CR, editorial

Yanchao, Fri, 06:28

Changes seems unnecessary

Marko, Fri, 15:19

CR is not needed

Sung, Mon, 03:27

Support Ivo, Yanchao, Fei, and Marko, not needed

**Decision:** The document was **postponed**.

**C1-202355 Clarification to Manual CAG selection procedure**

*Type: CR For: Approval  
 23.122 v16.5.0 CR-0520 Cat: F (Rel-16)  
  
 Source: Samsung/Kundan*

**Discussion:**

Postponed

Frederic, Thu, 09:08

Clauses affected missing

Lena, Thu, 23:09

we cannot agree to this CR

Vishnu, Fri, 14:28

not OK with this CR

Kundan, Fri, 14:51

Answering to Lena, asking for some clarificaiotn

Sung, Tue, 01:24

Does not see the step 2) as described by Kundan

Kundan ongoing replies

**Decision:** The document was **postponed**.

**C1-202357 Discussion paper on RAN2 LS regarding Manual CAG and URC for PNI-NPN**

*Type: discussion For: (not specified)  
 Source: Samsung*

**Discussion:**

Noted

Ivo, Thu, 13:31

Does not agree with the answer to 1.3

**Decision:** The document was **noted**.

**C1-202362 Sending CAG information list**

*Type: CR For: (not specified)  
 24.501 v16.4.1 CR-2128 Cat: F (Rel-16)  
  
 Source: Samsung/Kundan*

**Discussion:**

Postponed

Frederic, Thu, 09:08

Clauses affected missing

Ivo, Thu, 13:34

Not ok with the solution, would be ok with sending LS to SA2 asking for a solution

Lena, Thu, 23:19

Not inline with stage-2, if this is needed, then stage-2 is to be changed first

Ban, Fri, 09:16

Does not agree with the CR

Kundan

Can accept to first send an LS to SA2

Ivo, Mon, 22:28

Sung, Mon, 23:40

With the LS, asks this to be postponed

**Decision:** The document was **postponed**.

**C1-202363 Sending CAG information list**

*Type: CR For: (not specified)  
 23.122 v16.5.0 CR-0522 Cat: F (Rel-16)  
  
 Source: Samsun/Kundan*

**Discussion:**

Postponed

Frederic, Thu, 09:08

Clauses affected missing

Ivo, Thu, 13:35

Not ok with the solution, would be ok with sending LS to SA2 asking for a solution

Lena, Thu, 23:19

Not inline with stage-2, if this is needed, then stage-2 is to be changed first

Ban, Fri, 09:16

Does not agree with the CR

Kundan, Sun, 17:21

Defending the scenarios

Ban, Mon, 14:40

Supports sending an LS

Sung, Mon, 23:40

With LS, Requesting the CR to be postponed

**Decision:** The document was **postponed**.

**C1-202364 Handling of a CAG UE at non supporting AMF**

*Type: CR For: Approval  
 24.501 v16.4.1 CR-1964 rev 1 Cat: F (Rel-16)  
  
 Source: Samsung/Kundan*

(Replaces C1-200589)

**Discussion:**

Postponed

Revision of C1-200589

Ivo, Thu, 13:35

Requires AMF not supporting CAG to be CAG specific. Comment how roaming is to be solved

Kundan, Thu, 14:45

Does not agree with Ivo

Lena, Thu, 23:23

Does not make sense, CR requires the AMF to do something that the AMF does not support CR needs to be rejected

Yanchao, Fri, 06:30

Same as Ivo and Lena

DoCoMo, Fri, 08:55

Use case is not correct

Ivo, Mon, 22:19

Does not work in all cases

Sung, Tue, 00:56

same view as Ban, Yanchao, Lena

Kundan, Tue, 07:44

Wants to send LS to SA2, this is a valid use cse,

**Decision:** The document was **postponed**.

**C1-202365 DISC Configuring UE to enable manual CAG selection procedure**

*Type: discussion For: (not specified)  
 Source: Samsung*

**Decision:** The document was **withdrawn**.

**C1-202368 Configuring UE to enable manual CAG selection procedure (24.501)**

*Type: CR For: (not specified)  
 24.501 v16.4.1 CR-2131 Cat: F (Rel-16)  
  
 Source: Samsung/Kundan*

**Discussion:**

Withdrawn

Ivo, Thu, 13:35

Solution has a problem with VPLMN

Lena, Thu, 23:26

proposal in the CR does not work as well as a SIB indicator

Kundan, Mon, 12.07

Answers Lena

Ban, Mon, 12:47

Negative

Sung, Tue, 00:04

Same as lena and Ivo

Lena, Tue, 06.06

Not aligned with stage-2

**Decision:** The document was **withdrawn**.

**C1-202370 Configuring UE to enable manual CAG selection procedure (23.122)**

*Type: CR For: (not specified)  
 23.122 v16.5.0 CR-0523 Cat: F (Rel-16)  
  
 Source: Samsung/Kundan*

**Discussion:**

Postponed

Frederic, Thu, 09:08

Clauses affected missing

Ivo, Thu, 13:35

Solution has a problem with VPLMN

Lena, Thu, 23:26

proposal in the CR does not work as well as a SIB indicator

Sung, Tue, 00:04

Same as lena and Ivo

**Decision:** The document was **postponed**.

**C1-202395 Work plan for Vertical\_LAN**

*Type: discussion For: Information  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**C1-202399 non-3GPP access not supported in SNPN**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2148 Cat: F (Rel-16)  
  
 Source: Intel /Thomas*

**Discussion:**

Postponed

Revision of C1-202399

Ivo, Thu, 13:00

Editorials

Lena, Thu, 23:29

Needs rewording, CR overlaps with SHARP’s C1-202366 and Huawei’s C1-202469.

Yudai, Fri, 07:39

Would like to merge his CR in 2366 into the Intel CR

Thomas, Fri, 10:26

Will update according to Lena, fine to merge with the sharp CR – draft in the INBOX

Ivo, Fri, 11:58

Not clear

Sung, Mon, 00:20

Prefers C1-202469

Lin, Mon, 10:13

Still things unclear, 2469 would solve it

Thomas, Mon, 15:42

Some clarification

Ivo, Mon, 20:52

Further comments

Lin, Tue, 05:38

Wording needs to improve

Thomas, Wed, 10:40

New rev

Thomas, Wed, 10:54

Wants to merge this into 2469

**Decision:** The document was **revised to C1-202606**.

**C1-202606 non-3GPP access not supported in SNPN**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2148 rev 1 Cat: F (Rel-16)  
  
 Source: Intel /Thomas*

(Replaces C1-202399)

**Discussion:**

merged into 2469

**Decision:** The document was **merged**.

**C1-202495 Correction to Manual CAG selection procedure**

*Type: CR For: (not specified)  
 23.122 v16.5.0 CR-0529 Cat: F (Rel-16)  
  
 Source: Samsung/Kundan*

**Decision:** The document was **agreed**.

##### 16.2.7.1 Stand-alone NPN

**C1-202013 Configured human readable name for SNPN in SNPN selection**

*Type: CR For: (not specified)  
 23.122 v16.5.0 CR-0505 Cat: C (Rel-16)  
  
 Source: Ericsson / Ivo*

**Decision:** The document was **revised to C1-202841**.

**C1-202841 Configured human readable name for SNPN in SNPN selection**

*Type: CR For: -  
 23.122 v16.5.0 CR-0505 rev 1 Cat: C (Rel-16)  
  
 Source: Ericsson / Ivo*

(Replaces C1-202013)

**Discussion:**

Merged into C1-202855

Revision of C1-202013

Lena, Thu, 23:33

Not inline with SA2, also the EN hinting at open aspects in RAN2 not correct

Ivo, Fri, 10:32

This is not ruled out in SA2, happy to address the En, has a revision

Vishnu, Fri, 14:58

We don’t support this CR as this is against the current SA2 requirement

Chen, Fri, 16:46

At very least has a dependency ot SA2 CR

Sung, mon, 01:51

We would like to postpone both C1-202013 and C1-202407, as there are papers to SA2

Ivo, Mon, 09:07

Provides a rev, with a dependency to SA2 CR

Sung, Mon, 17:36

Revising Ivo proposal

Ivo, Mon, 20:27

Split from Sung confusing, wants complete solution in this CR

Sung, Mon, 20:38

Wants to keep the not sa2 dependant parts in a separater CR

Ivo, Mon, 22:30

New rev

Vishnu, Tue, 23:14

Prefers Sug CR,

Ivo, Wed, 10:38

Some condition then can merge this to Sung’s Cr

Lena

FINE

**Decision:** The document was **merged**.

**C1-202020 Configured N3IWF identity for SNPN access via PLMN**

*Type: CR For: (not specified)  
 23.122 v16.5.0 CR-0507 Cat: C (Rel-16)  
  
 Source: Ericsson / Ivo*

**Decision:** The document was **withdrawn**.

**C1-202086 Management of forbidden SNPNs list upon receipt of a non-integrity protected reject message**

*Type: CR For: Agreement  
 23.122 v16.5.0 CR-0511 Cat: C (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Ivo Sedlacek (Ericsson) requested the following to be included in the report:

"Ericsson sees a danger in C1-202086 (and its revision) enabling an attacker to temporarily prevent the UE from getting services from the selected SNPN by attacker sending a single fake reject message."

**Decision:** The document was **revised to C1-202859**.

**C1-202859 Management of forbidden SNPNs list upon receipt of a non-integrity protected reject message**

*Type: CR For: Agreement  
 23.122 v16.5.0 CR-0511 rev 1 Cat: C (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces C1-202086)

**Discussion:**

Agreed

Revision of C1-202086

Ivo, Thu, 12:57

enables an attacker by sending just \*one\* fake reject message to temporarily prevent the UE from getting any service using the subscription information indicated in an entry of “list of subscriber data

Osama, Thu, 17:58

Can be done, but changes are not enough

Sung, Sun, 23:15

Discussing

Osama, Mon, 00:34

long email

Sung, Mon, 04:29

Providing a rev

Lin, Mon, 10:46

Comments on the rev

Osama, Mon, 16:30

Comments on the rev

Sung, Mon, 18:25

New rev

Osama, Mon, 20:40

Fine with the rev

Lin, Mon, 03:30

Fine with the rev

Ivo, Wed, 19:20

Wants a statement in the report,

Ericsson sees a danger in C1-202086 (and its revision) enabling an attacker to temporarily prevent the UE from getting services from the selected SNPN by attacker sending a single fake reject message.

Then he can accept the CR

**Decision:** The document was **agreed**.

**C1-202087 Correction in UE behavior upon receipt of 5GMM cause value #74 or #75 via a non-integrity protected NAS message**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2010 rev 2 Cat: C (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces C1-200970)

**Discussion:**

Agreed

Revision of C1-200970

Ivo, Thu, 12:57

Enables an attacker by sending just \*one\* fake reject message to temporarily prevent the UE from getting any service using the subscription information indicated in an entry of “list of subscriber data

Sung, Sun, 22:59

Requests this to be put on ConfCall

Lin, Mon, 10:53

Supports the CR

Sung, Wed, 01:04

Additional explanation

Ivo, Wed, 19:20

Wants a statement in the report,

Ericsson sees a danger in C1-202086 (and its revision) enabling an attacker to temporarily prevent the UE from getting services from the selected SNPN by attacker sending a single fake reject message.

Then he can accept the CR

**Decision:** The document was **agreed**.

**C1-202130 Correction of the handling of timer TG for SNPNs**

*Type: CR For: Approval  
 23.122 v16.5.0 CR-0514 Cat: F (Rel-16)  
  
 Source: Apple*

**Decision:** The document was **revised to C1-202896**.

**C1-202896 Correction of the handling of timer TG for SNPNs**

*Type: CR For: Approval  
 23.122 v16.5.0 CR-0514 rev 1 Cat: F (Rel-16)  
  
 Source: Apple*

(Replaces C1-202130)

**Discussion:**

Postponed

Revision of C1-202130

Lin, Thu, 14:32

Does not agree with new term “SNPN-specific N1 mode attempt counters”

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**Decision:** The document was **postponed**.

**C1-202131 Correction of the UE requirements for expiry of T3247**

*Type: CR For: Approval  
 24.501 v16.4.1 CR-2048 Cat: F (Rel-16)  
  
 Source: Apple*

**Discussion:**

Robert: C1-202131 is withdrawn. Instead Apple is going to support the revision of C1-202402.

**Decision:** The document was **withdrawn**.

**C1-202174 Definition of registered SNPN**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2060 Cat: F (Rel-16)  
  
 Source: Intel /Thomas*

**Decision:** The document was **revised to C1-202609**.

**C1-202609 Definition of registered SNPN**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2060 rev 1 Cat: F (Rel-16)  
  
 Source: Intel /Thomas*

(Replaces C1-202174)

**Decision:** The document was **agreed**.

**C1-202193 update of the counter for SNPN**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2064 Cat: F (Rel-16)  
  
 Source: vivo*

**Decision:** The document was **agreed**.

**C1-202194 temporarily and permanently forbidden SNPNs lists per access type**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2065 Cat: F (Rel-16)  
  
 Source: vivo*

**Decision:** The document was **agreed**.

**C1-202195 storage of counters for UE in SNPN**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2066 Cat: F (Rel-16)  
  
 Source: vivo*

**Decision:** The document was **revised to C1-202711**.

**C1-202711 storage of counters for UE in SNPN**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2066 rev 1 Cat: F (Rel-16)  
  
 Source: vivo*

(Replaces C1-202195)

**Decision:** The document was **revised to C1-202894,C1-202895**.

**C1-202894 storage of counters for UE in SNPN**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2066 rev 2 Cat: F (Rel-16)  
  
 Source: vivo*

(Replaces C1-202711)

**Decision:** The document was **withdrawn**.

**C1-202895 storage of counters for UE in SNPN**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2066 rev 2 Cat: F (Rel-16)  
  
 Source: vivo*

(Replaces C1-202711)

**Decision:** The document was **agreed**.

**C1-202196 5G GUTI of SNPN**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2067 Cat: F (Rel-16)  
  
 Source: vivo*

**Decision:** The document was **revised to C1-202710**.

**C1-202710 5G GUTI of SNPN**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2067 rev 1 Cat: F (Rel-16)  
  
 Source: vivo*

(Replaces C1-202196)

**Decision:** The document was **agreed**.

**C1-202197 5GMM cause value #74 in an SNPN with a globally-unique SNPN identity**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2068 Cat: F (Rel-16)  
  
 Source: vivo*

**Decision:** The document was **agreed**.

**C1-202198 5GMM cause value #13 not supporting roaming for SNPN**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2069 Cat: F (Rel-16)  
  
 Source: vivo*

**Decision:** The document was **revised to C1-202712**.

**C1-202712 5GMM cause value #13 not supporting roaming for SNPN**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2069 rev 1 Cat: F (Rel-16)  
  
 Source: vivo*

(Replaces C1-202198)

**Decision:** The document was **revised to C1-202869**.

**C1-202869 5GMM cause value #13 not supporting roaming for SNPN**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2069 rev 2 Cat: F (Rel-16)  
  
 Source: vivo*

(Replaces C1-202712)

**Discussion:**

Agreed

Revision of C1-202712

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Revision of C1-202198

Ivo, Thu, 12:59

- not aligned with 23.122 subclause 4.9.3.0 which expects usage of #13 in SNPN

- we do not object the change but would like to agree both CRs at the same time

Sung, Sun, 23:19

Now I am against erasing all the text regarding #13/SNPN

Yanchao, Mon, 05:37

Modifies the CR

Lin, Mon, 11:07

Seem fine with the revision

Sung, Mon, 17:38

Fine with the rev

Ivo, Mon, 20:45

Some rewording

Yanchao, Tue 10:07

Provides rev

Ivo, Tue, 13:36

More is needed

Lin, Wed, 04:02

Comments

Yanchao, Wed, 12:27

New rev

Sung, Wed, 13:52

Fine

Ivo, wed, 14:20

Ok

Lin

FINE

**Decision:** The document was **agreed**.

**C1-202366 Condition for access to SNPN**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2129 Cat: F (Rel-16)  
  
 Source: SHARP*

**Discussion:**

Merged in to C1-202399

Based on request form author

Frederic, Thu, 09:08

Clauses affected missing

Lena, Thu, 23:39

Rewording needed, overlaps with Intel’s C1-202399 and Huawei’s C1-202469

**Decision:** The document was **merged**.

**C1-202389 Clarification to SNPN to SNPN selection procedure**

*Type: CR For: (not specified)  
 24.501 v16.4.1 CR-2146 Cat: F (Rel-16)  
  
 Source: Samsung/Kundan*

**Decision:** The document was **withdrawn**.

**C1-202393 figures 1, 2a, 2b, 3 and table 2 not applicable in SNPN**

*Type: CR For: Agreement  
 23.122 v16.5.0 CR-0524 Cat: F (Rel-16)  
  
 Source: Intel /Thomas*

**Decision:** The document was **agreed**.

**C1-202396 Subscription update in case of SNPN**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2147 Cat: F (Rel-16)  
  
 Source: Intel /Thomas*

**Discussion:**

Ivo, Thu, 13:00

Unclear wording

Sung, Sun, 23:35

scope of the CR is a subset of C1-202412

Thomas, Mon, 14:9

2396 has changes which are not covered in C1-202412

Sung, Mon, 17:50

Agrees to Thomas that there is need for aligning

Thomas, Tue, 21:23

Offers that this is merged into revision of 2412

**Decision:** The document was **revised to C1-202620**.

**C1-202620 Subscription update in case of SNPN**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2147 rev 1 Cat: F (Rel-16)  
  
 Source: Intel /Thomas*

(Replaces C1-202396)

**Discussion:**

merged into C1-202412 and its revisions

**Decision:** The document was **merged**.

**C1-202401 NB-IoT not applicable for SNPN**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2149 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to C1-202853**.

**C1-202853 NB-IoT not applicable for SNPN**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2149 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces C1-202401)

**Decision:** The document was **agreed**.

**C1-202402 Introduction of SNPN-specific N1 mode attempt counters**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2011 rev 2 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces C1-201032)

**Decision:** The document was **revised to C1-202922**.

**C1-202922 Introduction of SNPN-specific N1 mode attempt counters**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2011 rev 3 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell, Apple*

(Replaces C1-202402)

**Discussion:**

Postponed

Revision of C1-202402

Lin, can not accept

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Revision of C1-201032

Lin, Mon, 11:00

Coments

Sung, mon, 15:32

Does not agree with Lin

Lin, Tue, 06:04

Defends his position

Sung, Tue, 06:36

Why to have same counter for different behaviour

Lin, Wed, 09:10

Commenting

Sung, Wed, 13:40

Commenting

Robert, Wed, 17:01

Commenting, both approaches would work,

Osama, Thu, 02:54

Some input

Sung, Thu, 03:13

Asking lin whether he can live with rev

Lin, thu, 10:37

No to 2 counters

Apple wants to co-sign

Lin DOES NOT AGREE

**Decision:** The document was **postponed**.

**C1-202406 Handling of a UE not allowed to access SNPN services via a PLMN by subscription with 5GMM cause value #72**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2151 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **agreed**.

**C1-202407 Human readable network name for SNPN**

*Type: CR For: Agreement  
 23.122 v16.5.0 CR-0527 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to C1-202855**.

**C1-202855 Human readable network name for SNPN**

*Type: CR For: Agreement  
 23.122 v16.5.0 CR-0527 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces C1-202407)

**Discussion:**

Agreed

Revision of C1-202407

Ivo, Thu, 13:01

given that roaming is not specified, HRNN can be configured in the UE without loosing any functionality and the precious broadcast resources can be saved. This needs to be enabled too. See C1-202013

Sung, mon, 01:51

We would like to postpone both C1-202013 and C1-202407, as there are papers to SA2

Sung, Mon, 17:37

New rev

Ivo, Tue, 22:36

Comments on the rev

Ivo, Wed, 10:38

Some condition then can merge 2013 into this Cr

Sung, Thu, 01:57

All comments on board

Ivo OK

**Decision:** The document was **agreed**.

**C1-202408 Miscellaneous clean-up for SNPN**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2152 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to C1-202923**.

**C1-202923 Miscellaneous clean-up for SNPN**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2152 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces C1-202408)

**Discussion:**

Agreed

Revision of C1-202408

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Lin, Mon, 04:30

Need to discuss the approach taken for documenting this, copying in or delta

Applies for C1-202409\_C1-202410\_C1-202411\_C1-202412

Sung, Mon, 05:23

Wants to know which clauses are not impacted

Lin, Mon, 05:48

…. Are functions for PLMN and naturally can be supported by SNPN

Sung, Mon, 05:56

Not clear what is requested from Lin

Lin, Tue, 06:15

Examples

Sung, Tue, 06:32

accepting

Lin, Wed, 09:50

Comments

Sung, Thu, 00:40

Rev

Lin, Thu, minor change needed

**Decision:** The document was **agreed**.

**C1-202409 Service area restrictions in an SNPN**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2153 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to C1-202664**.

**C1-202664 Service area restrictions in an SNPN**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2153 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell, Ericsson*

(Replaces C1-202409)

**Decision:** The document was **revised to C1-202920**.

**C1-202920 Service area restrictions in an SNPN**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2153 rev 2 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell, Ericsson*

(Replaces C1-202664)

**Decision:** The document was **agreed**.

**C1-202410 MICO in an SNPN**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2154 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to C1-202852**.

**C1-202852 MICO in an SNPN**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2154 rev 1 Cat: D (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces C1-202410)

**Discussion:**

Agreed

Revision of C1-202410

Has to be shifted to 5Gprotoc16

Lin can this be shifted into the cleanup CR?

Lin, Wed, 09:50

Not needed

Sung, Thu, 01:12

C1-202410 became a Cat. D CR on 5GProtoc16

**Decision:** The document was **agreed**.

**C1-202411 5GMM CC in an SNPN**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2155 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not pursued**.

**C1-202412 5GSM back-off mechanisms in an SNPN**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2156 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to C1-202915**.

**C1-202915 5GSM back-off mechanisms in an SNPN**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2156 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces C1-202412)

**Discussion:**

Agreed

Revision of C1-202412

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Ivo, Thu, 13:03

not clear in stage-2 whether LADN is in or out of scope for SNPN, EN is needed

Sung, Mon, 00:12

Provides rev

Ivo, Mon, 21:06

Fine, wants to co-sign

Lin, Wed, 09:50

Comments

Sung, Thu, 00:54

Rev

Lin, Thu, 10:40

comments

**Decision:** The document was **agreed**.

**C1-202413 UE in the 5GMM-REGISTERED.ATTEMPTING-REGISTRATION-UPDATE substate operating in SNPN access mode**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2157 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to C1-202854**.

**C1-202854 UE in the 5GMM-REGISTERED.ATTEMPTING-REGISTRATION-UPDATE substate operating in SNPN access mode**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2157 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces C1-202413)

**Discussion:**

Agreed

Revision of C1-202413

Ivo, Thu, 13:04

Not clear why bullet d) is changed

Sung, Mon, 02:25

Does not understand Ivo’s comment

Lin, Mon, 11:15

CR is fine, come typo

Ivo, Mon, 14:44

Explaiing

Sung, Mon, 18:10

Agrees and provides a rev

Ivo, Mon, 21.08

Fine, wants to co-sign

Lin, Tue, 06:18

Rev is fine

**Decision:** The document was **agreed**.

**C1-202414 Routing indicator update in an SNPN**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2158 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to C1-202856**.

**C1-202856 Routing indicator update in an SNPN**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2158 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces C1-202414)

**Discussion:**

Agreed

Revision of C1-202414

Ivo, Thu, 13:04

Why is the feature optional

Sung, Mon, 02:30

Provides a rev

Ivo, Mon, 21:12

Commenting

Sung, Wed, 13:49

New rev

Ivo, fine, cosign

**Decision:** The document was **agreed**.

**C1-202415 3GPP PS data off in an SNPN**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2159 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to C1-202857**.

**C1-202857 3GPP PS data off in an SNPN**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2159 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces C1-202415)

**Discussion:**

Agreed

Revision of C1-202415

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Ivo, Thu, 13:04

Info on severl SNPN not available in 31.102 not 24.368, at least an EN is needed

Lena, Thu, 23:41

31.102 and 24.368 CRs needed, does Nokia plan to bring them?

Sung, Mon, 02:38

Asking for more input form Lena and Ivo

Ivo, Mon, 21:19

Supports updating 24.368

Lena, Tue, 05:25

Agrees with Ivo, just update the MO and use if for both cases

Sung, Wed, 13:45

Only MO

Ivo, Wed, 15:16

Only 24.501 this meeting is fine

Sung, thu, 02:08

Rev

Lena, Thu, 06:18

Rev fine, mo change in next meeting is fine

Ivo FINE

**Decision:** The document was **agreed**.

**C1-202428 correction to network selection in case of multiple subscribed SNPNs**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2167 Cat: F (Rel-16)  
  
 Source: Intel /Thomas*

**Decision:** The document was **withdrawn**.

**C1-202432 correction to network selection in case of multiple subscribed SNPNs**

*Type: CR For: Agreement  
 23.122 v16.5.0 CR-0528 Cat: F (Rel-16)  
  
 Source: Intel /Thomas*

**Decision:** The document was **revised to C1-202625, C1-202777**.

**C1-202625 correction to network selection in case of multiple subscribed SNPNs**

*Type: CR For: Agreement  
 23.122 v16.5.0 CR-0528 rev 1 Cat: F (Rel-16)  
  
 Source: Intel /Thomas*

(Replaces C1-202432)

**Decision:** The document was **withdrawn**.

**C1-202777 correction to network selection in case of multiple subscribed SNPNs**

*Type: CR For: Agreement  
 23.122 v16.5.0 CR-0528 rev 2 Cat: F (Rel-16)  
  
 Source: Intel, Ericsson*

(Replaces C1-202432)

**Discussion:**

Agreed

Revision of C1-202432

Ivo, Thu, 13:05

CR seems not needed

Thomas, Thu, 14:50

Explaining his CR

Lena, Thu, 23:46

New NOTE not aligned with stage-2, current text seem sufficient. Provides rewording in case something is done in 23.122

Ivo, Fri, 13:15

Still has problems

Thomas, Fri, 14:51

Explaining to Ivo

Vishnu, Mon, 10:18

New NOTE not needed

Thomas, Mon, 16:16

Providing a draft

Ivo, Mon, 21:24

More changes

Lin, Tue, 09:14

Fine

Thomas, Tue, 10:10

Updated rev

Ivo, Tue, 13:40

Wants to co-sign

Lena, Thu, 02:41

fined

**Decision:** The document was **agreed**.

**C1-202469 Non-3GPP access for PLMN and SNPN**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-2177 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon/Lin*

**Decision:** The document was **revised to C1-202799**.

**C1-202799 Non-3GPP access for PLMN and SNPN**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-2177 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon/Lin*

(Replaces C1-202469)

**Discussion:**

Agreed

Revision of C1-202469

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Ivo, Thu, 13:05

Prefer C1-202399

Lena, Thu, 25:59

Not based on latest version of the spec

Lin, Fri, 11:20

Provides rev, wants to check with Thomas whether they can merge

Ivo, Fri, 12:07

Comments

Lin, Sat, 07:28

Provides a rev

Ivo, Mon, 21:28

Still not convinced

Lin, Tue, 10:31

New rev

Ivo, Tue, 13:44

Nearly ok, some more

Lin, Wed, 10:38

New rev

Lena, Wed, 02:01

Rewording needed

Lin, Thu, 04:14

Rev

Lena ok with latest rev

**Decision:** The document was **agreed**.

**C1-202506 5GS forbidden tracking areas for roaming for SNPN**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2188 Cat: F (Rel-16)  
  
 Source: MediaTek Inc. / Marko*

**Decision:** The document was **postponed**.

**C1-202522 Correct "theregistration"**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2196 Cat: D (Rel-16)  
  
 Source: MediaTek Inc. / Marko*

**Decision:** The document was **agreed**.

##### 16.2.7.2 Public network integrated NPN

**C1-202008 CAG-ID not provided to lower layers during NAS signalling connection establishment**

*Type: CR For: (not specified)  
 24.501 v16.4.0 CR-1880 rev 2 Cat: C (Rel-16)  
  
 Source: Ericsson, NTT DOCOMO, Huawei, HiSilicon, Qualcomm Incorporated / Ivo*

(Replaces C1-200937)

**Decision:** The document was **agreed**.

**C1-202014 Configured human readable name for CAG-ID in CAG selection**

*Type: CR For: (not specified)  
 23.122 v16.5.0 CR-0506 Cat: C (Rel-16)  
  
 Source: Ericsson / Ivo*

**Discussion:**

Merged in to C1-202845

Lena, Fri, 00:04

Not aligned with stage-2, EN not aligned with RAN2

Ban, Fri, 10:09

Not aligned with stage-2

Vishnu, Fri, 15:08

do not support this CR as this is not aligned with the current SA2 requirement

Chen, Fri, 16:46

At very least has a dependency ot SA2 CR

Kundan, Sat, 22:23

Not aligned with SA2, but Ivo has a point

Ivo, Mon, 09:34

LS to SA2 fine, not SA1, provides a rev

Kund, Mon, 15:26

Sounds fine

Sung, Mon, 21:15

No need to touch the EN

Ivo, Mon, 22:00

Agree both CRs in CT1 , and only one gets approved (2014, 2256).

Peter, Tue, 07:25

Agreeing both CRs is not good

Ivo, Tue, 10:34

Prefers to wait for next CT1 meeting

Lena, Tue, 06:21

Prefers to progress 2256

Ivo, Wed, 10:31

Ok to go with one tdoc, wants to see 2256

**Decision:** The document was **merged**.

**C1-202015 Providing configured human readable name for CAG-ID**

*Type: CR For: (not specified)  
 24.501 v16.4.0 CR-2009 rev 1 Cat: C (Rel-16)  
  
 Source: Ericsson / Ivo*

(Replaces C1-200733)

**Decision:** The document was **revised to C1-202840**.

**C1-202840 Providing configured human readable name for CAG-ID**

*Type: CR For: -  
 24.501 v16.4.0 CR-2009 rev 2 Cat: C (Rel-16)  
  
 Source: Ericsson / Ivo*

(Replaces C1-202015)

**Discussion:**

Agreed

Revision of C1-202015

Revision of C1-200733

Lena, Fri, 00:13

Not aligned with stage-2, EN not aligned with latest status in RAN2

Ban, Fri, 10:09

Not aligned with stage-2

Ivo, Mon, 09:44

Providing rev, with dependency on SA2 CR

**Decision:** The document was **agreed**.

**C1-202016 Manual CAG selection**

*Type: CR For: (not specified)  
 23.122 v16.5.0 CR-0501 rev 1 Cat: C (Rel-16)  
  
 Source: Ericsson / Ivo*

(Replaces C1-200732)

**Decision:** The document was **withdrawn**.

**C1-202091 CAG information list provided to lower layers after manual CAG selection**

*Type: CR For: (not specified)  
 23.122 v16.5.0 CR-0512 Cat: F (Rel-16)  
  
 Source: Ericsson / Ivo*

**Discussion:**

Withdrawn

DISCUSSION before Tue, 18:00 taken out, please see previous version of agenda

Lena, Yanchao, Vishnu, Robert, Chen against the proposal

Discussion ongoing, no conclusion

Robert, Tue, 21:40

Cr is not acceptable

Ivo, Tue, 21:51

Discussing with Robert

Robert, Wed, 10:24

Long email being against this

**Decision:** The document was **withdrawn**.

**C1-202102 Discussion on RAN2’s questions on CAG in LS R2-2002417**

*Type: discussion For: Decision  
 Source: Qualcomm Incorporated / Lena*

**Discussion:**

Noted

Ivo, Thu, 13:05

Proposed answer to Q 1.3 is not correct

**Decision:** The document was **noted**.

**C1-202179 Correction on no suitable cell**

*Type: CR For: Approval  
 23.122 v16.5.0 CR-0517 Cat: F (Rel-16)  
  
 Source: vivo*

**Decision:** The document was **revised to C1-202737**.

**C1-202737 Correction on no suitable cell**

*Type: CR For: Approval  
 23.122 v16.5.0 CR-0517 rev 1 Cat: F (Rel-16)  
  
 Source: vivo*

(Replaces C1-202179)

**Discussion:**

Agreed

Revision of C1-202179

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Ivo, Thu, 13:05

limited service state should apply also in situation when the user selects a PLMN and CAG-ID in manual selection and the UE happens to camp on a non-CAG cell of the PLMN

Yanchao, Mon, 11:00

Questions to Ivo

Ivo, Mon, 21:42

More changes

Yanchao, Tue, 15:11

Ivo’s proposal is unclear

Ivo, Wed, 14:47

Explaining

Yanchao, Wed, 16:44

Ok, rev

Ivo, Wed, 20:15

good

**Decision:** The document was **agreed**.

**C1-202199 Clarification of the cause of start of T3550**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2070 Cat: F (Rel-16)  
  
 Source: vivo*

**Decision:** The document was **agreed**.

**C1-202239 Discussion on reply LS to RAN2 manual CAG selection**

*Type: discussion For: Discussion  
 23.122 v..  
 Source: Huawei, HiSilicon/Vishnu*

**Discussion:**

Noted

Ivo, Thu, 13:07

1.1 should be answered, 1.2 partly ok, not OK with 1.3

Vishnu, Thu, 15:16

Answer to ivo

Ivo, Fir, 13:38

Commenting

Vishnu, Fri, 14:50

Answering to Ivo

**Decision:** The document was **noted**.

**C1-202242 Discussion on protecting CAG list against man in middle attack**

*Type: discussion For: Discussion  
 24.501 v..  
 Source: Huawei, HiSilicon/ Vishnu*

**Discussion:**

Noted

Ivo, Thu, 13:10

To be raised in SA2 first, has a simpler solution

Lena, Fri, 00:26

Seems to assume fake base station can connect to legit nw? seems there is no problem to be solved

Kundan, Sat, 19:37

Bullet e) to go to SA3, highlighting to SA3 TR33.809

Vishnu, Mon, 20:39

Long list of comments

Sung, Tue, 01:50

Should be discussed in SA2 as well

Vishnu, 13:49

Not agreeing with Sung

Kundan, wed, 17:46

Sa3 first

Vishnu, Wed, 17:53

Ongoing

Kundan, Wed, 19:07

Sung, Thu, 03:43

Ongoing with Vishnu

**Decision:** The document was **noted**.

**C1-202249 Protection of Allowed CAG list against man in middle attack**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2085 Cat: C (Rel-16)  
  
 Source: Huawei, HiSilicon / Vishnu*

**Discussion:**

Postponed

Ivo, Thu, 13:10

To be raised in SA2 first, has a simpler solution

Lena, Fri, 00:28

CR not needed see comment on 2242

Sung, Mon, 21:03

To be raised in SA2 first

**Decision:** The document was **postponed**.

**C1-202251 Discussion on including CAG Information list in reject messages**

*Type: discussion For: Discussion  
 24.501 v..  
 Source: Huawei, HiSilicon / Vishnu*

**Discussion:**

Noted

Lena, Fri, 00:59

There is ongoing discsussionin SA2, prefers to wait for the outcome

**Decision:** The document was **noted**.

**C1-202253 Provision of CAG information list in reject messages**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2087 Cat: C (Rel-16)  
  
 Source: Huawei, HiSilicon/ Vishnu*

**Decision:** The document was **revised to C1-202886**.

**C1-202886 Provision of CAG information list in reject messages**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2087 rev 1 Cat: C (Rel-16)  
  
 Source: Huawei, HiSilicon, InterDigital, Samsung, Ericsson*

(Replaces C1-202253)

**Discussion:**

Agreed

Revision of C1-202253

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Ivo, Thu, 13:28

Long explanation, prefers to wait until SA2 has concluded on S2-2002843.

Vishnu, Thu, 16:50

Explaining that sending CAG information list IE to the UE in the REJECT messages is the more optimized solution than using CUC procedure

Lena, Fri, 00:59

There is ongoing discsussionin SA2, prefers to wait for the outcome

Ivo, Fri, 13:41

Disagrees with Vishn

Kundan, sat, 19:53

Supports the contribution, ID and Samsung have same concept

Kunden, Sat, 20:25

Answering Ivo

Ivo, Mon, 21:51

Wait for S2

Ivo, Thu, 08:03

Sa2 allows this

Kund, Thu, 08:08

Same nfo

Lena, Thu, 08:31

Same infor

Ivo, Thu, 08:32

Comment on the ct1 CR

Vishnu Thu, 08:50

Modification

Vishnu, Thu, 09:02

New rev

Ivo is fine

**Decision:** The document was **agreed**.

**C1-202256 Handling of HRNN information in a CAG cell**

*Type: CR For: Agreement  
 23.122 v16.5.0 CR-0518 Cat: C (Rel-16)  
  
 Source: Huawei, HiSilicon / Vishnu*

**Decision:** The document was **revised to C1-202845**.

**C1-202845 Handling of HRNN information in a CAG cell**

*Type: CR For: Agreement  
 23.122 v16.5.0 CR-0518 rev 1 Cat: C (Rel-16)  
  
 Source: Huawei, HiSilicon / Vishnu*

(Replaces C1-202256)

**Discussion:**

Agreed

Revision of C1-202256

Ivo, Thu, 13:29

Prefers procedure as described in C1-202014

Lena, Fri, 01:02

Fine with the CR, correct editorials

Ban, Fri, 09:50

Fine with the CR

Kundan, Sat, 20:48

Fine with intent, but changes are needed

Vishnu, Tue, 09:29

Providing a rev

Ivo, Tue, 21:19

Wants something like in 2014 in this CR, has some proposed wording

Vishnu, Tue, 21:59

Offers a way forward with an EN

Ivo, Tue, 22:46

Highlighting technical concern

Vishnu, Tue, 21:59

Will take the concern on board

Provides rev at 14:19

Ivo, Wed, 14:55

NOTE0 and clauses affected

Ivo is OK

**Decision:** The document was **agreed**.

**C1-202258 Indication to user about allowed CAG IDs for manual CAG selection**

*Type: CR For: Agreement  
 23.122 v16.5.0 CR-0519 Cat: C (Rel-16)  
  
 Source: Huawei, HiSilicon / Vishnu*

**Discussion:**

Merged into merged to revision of C1-202398.

Based on request form author, tue, 08:59

Ivo, Thu, 13:30

Not happy with the condition in the second new sentence

Lena, Fri, 01:04

OK with the CR, hard to read, overlaps with Nokia’s C1-202398, preference for Nokia’s CR

Kundan, Sat, 21:04

Fine with intent, rewording

**Decision:** The document was **merged**.

**C1-202373 Non-integrity protected REGISTRATION REJECT message including 5GMM cause #31 or #76**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2134 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to C1-202836**.

**C1-202836 Non-integrity protected REGISTRATION REJECT message including 5GMM cause #31 or #76**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2134 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces C1-202373)

**Decision:** The document was **agreed**.

**C1-202397 Selected CAG-ID from the NAS layer to the AS layer**

*Type: CR For: Agreement  
 23.122 v16.5.0 CR-0525 Cat: C (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell, vivo, Qualcomm Incorporated, Samsung, Huawei, HiSilicon*

**Decision:** The document was **revised to C1-202912**.

**C1-202912 Selected CAG-ID from the NAS layer to the AS layer**

*Type: CR For: Agreement  
 23.122 v16.5.0 CR-0525 rev 1 Cat: C (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell, vivo, Qualcomm Incorporated, Samsung, Huawei, HiSilicon*

(Replaces C1-202397)

**Discussion:**

Agreed

Revision of C1-202397

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Ivo, Thu, 13:36

providing the manually selected CAG-ID using separate element has issues

Kundan, Sat, 21:15

Despite co-signing, some rewording needed

Sung, Tue, 02:13

To Ivo ,separate element v. allowed CAG list manipulation should be discussed in a separate thread, explaining some things to Ivo

Sung, Wed, 16:24

Providing rev

Ivo, Thu, 00:00

This goes in the right direction, modification

Sung, Thu, 03:59

Fine with Ivo’s proposal, new rev

Robert, Thu, 11:27

Slight rewording to the rev

Vishnu agrees with Robert

Ivo OK

**Decision:** The document was **agreed**.

**C1-202398 Manual CAG selection**

*Type: CR For: Agreement  
 23.122 v16.5.0 CR-0499 rev 5 Cat: C (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bel*

(Replaces C1-201052)

**Decision:** The document was **revised to C1-202862**.

**C1-202862 Manual CAG selection**

*Type: CR For: Agreement  
 23.122 v16.5.0 CR-0499 rev 6 Cat: C (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bel*

(Replaces C1-202398)

**Discussion:**

Agreed

Revision of C1-202398

Vishnu, no objectin, fix it in May

Kundan wants to tick RAN box, fix it in next meeting

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Revision of C1-201052

Ivo, Thu, 13:36

EN hard to read, bullet b) unclear

Lena, Fri, 01:13

Fine with the CR, requests some rewording

Yanchao, Fri, 06:35

Comments

Kundan, Sat, 21:39

Comments, need to discuss this on Monday

Sung, Mon, 21:44

Provides a rev

Ivo, Mon, 22:35

Fine

Vishnu, Tue, 09:03

One thing is missing in the rev

Robert, Tue, 11:22

Slight rewording

Ban, Tue, 12:50

Support Robert, wants to co-sign

Ivo, Tue, 12:51

Support Robert, wants to co-sign

Kundan, wed, 17:33

Provding the changes he wants to see

Sung, Thu, 02:15

Not agreeing with Kundan

Lena, thu, 02:46

Fine, minor editorial

Sung, Thu, 03:00

New rev

Vishnu, thu, 08:28

Almost ok

**Decision:** The document was **agreed**.

**C1-202405 CAG selection is optional in the manual network selection mode**

*Type: CR For: Agreement  
 23.122 v16.5.0 CR-0526 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to C1-202924**.

**C1-202924 CAG selection is optional in the manual network selection mode**

*Type: CR For: Agreement  
 23.122 v16.5.0 CR-0526 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces C1-202405)

**Discussion:**

Agreed

Revision of C1-202405

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Ivo, Thu, 13:37

First change not needed

Vishnu, Fri, 14:12

Some changes on the second change

Sung, Tue, 01:01

Discussing way forward

Ivo, wed, 20:18

Asks for a draft rev to see how this looks like

Sung, Thu, 03:52

Rev

Kundan, Thu, 04:30

Not ok

Sung, Thu, 04:35

New rev

Kundan, Thu, 04:41

Not agreeing

Sung, Thu, 04:53

Ongoing

Kundan, Thu, 05:43

Not agreeing with some parts

Ivo, Lena, Vishnu (co-sign)

Agree with Sung

**Decision:** The document was **agreed**.

**C1-202470 No CAG in non-3GPP access**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-2178 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon/Lin*

**Decision:** The document was **agreed**.

**C1-202471 Correction on 5GMM #27 for CAG**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-2179 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon/Lin*

**Decision:** The document was **agreed**.

**C1-202493 Discussion to RAN2 LS R2-2002417**

*Type: discussion For: (not specified)  
 Source: Ericsson / Ivo*

**Discussion:**

Withdrawn

Lena, Fri, 01:26

Fine with 1.1, 1.2, 2.1, 2.2, NOT ok with with 1.3

**Decision:** The document was **withdrawn**.

**C1-202499 Discussion paper – Considerations for CAG ID in Unified Access Control**

*Type: discussion For: Action  
 Source: Chengdu OPPO Mobile Com. corp.*

**Discussion:**

Noted

Ivo, Thu, 13:37

There is no stage-1 requirement, CT1 needs to wait for any stage-1 requirement

Lena, Fri, 01:28

Wait for SA1 before discussion in CT1

Chen, Fri, 11:34

Explaining why there is no need to wait for SA1

**Decision:** The document was **noted**.

**C1-202588 CAG Information in Registration Reject**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-1868 rev 2 Cat: F (Rel-16)  
  
 Source: InterDigital, Samsung / Atle*

(Replaces C1-200316)

**Discussion:**

Merged into C1-202253

Ivo, Thu, 13:39

Long explanation of his concerns, would like to wait with aany solution in CT1 until SA2 concludes on S2-2002843

Lena, Fri, 01:29

wait for the outcome of the SA2 discussion

Atle, Tue, 01:15

Fine to wait for the outcome of SA2

Kunden, Wed, 21:29

SA2 seems to have agreed with this

Sung, thu, 03:47

Discussing with Kundan

Kundan, Thu, 07:50

Not agreeing

Atle, Thu, 08:44

Merge this into 2253

**Decision:** The document was **merged**.

##### 16.2.7.3 Time sensitive communication

**C1-202191 Correction of the abnormal case in NW-TT-initiated Ethernet port management procedure**

*Type: CR For: Agreement  
 24.519 v16.0.0 CR-0001 Cat: F (Rel-16)  
  
 Source: vivo*

**Decision:** The document was **revised to C1-202714**.

**C1-202714 Correction of the abnormal case in NW-TT-initiated Ethernet port management procedure**

*Type: CR For: Agreement  
 24.519 v16.0.0 CR-0001 rev 1 Cat: F (Rel-16)  
  
 Source: vivo*

(Replaces C1-202191)

**Decision:** The document was **agreed**.

**C1-202192 Abbreviation correction**

*Type: CR For: Agreement  
 24.519 v16.0.0 CR-0002 Cat: D (Rel-16)  
  
 Source: vivo*

**Decision:** The document was **agreed**.

**C1-202429 IEEE Std 802.1Qbv-2016 rolled into IEEE Std 802.1Q-2018**

*Type: CR For: Agreement  
 24.519 v16.0.0 CR-0003 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **agreed**.

**C1-202433 TSN working domain**

*Type: CR For: Agreement  
 24.535 v16.0.0 CR-0002 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to C1-202860**.

**C1-202860 TSN working domain**

*Type: CR For: Agreement  
 24.535 v16.0.0 CR-0002 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces C1-202433)

**Decision:** The document was **agreed**.

**C1-202435 TSN working domain**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2170 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Postponed

Ivo, Thu, 13:39

C1-202350 is more complete

Lena, Fri, 01:33

CR is ok, overlaps with C1-202350,

- Additional changes to subclause 4.15.2.2 are missing (they are covered in Huawei’s C1-202350)

Sung, Mon, 03:49

Providing rationale

Cristina, Tue, 05:47

Wants to postponed and wait for SA2

OK with postponing both C1-202350 and C1-202435, wants to go on with 2433

**Decision:** The document was **postponed**.

#### 16.2.8 5G\_CIoT

**C1-202077 Indication of change in the use of enhanced coverage**

*Type: CR For: (not specified)  
 24.501 v16.4.1 CR-2030 Cat: F (Rel-16)  
  
 Source: Samsung, InterDigital, Huawei, HiSilicon*

**Decision:** The document was **revised to C1-202648**.

**C1-202648 Indication of change in the use of enhanced coverage**

*Type: CR For: -  
 24.501 v16.4.1 CR-2030 rev 1 Cat: F (Rel-16)  
  
 Source: Samsung, InterDigital, Huawei, HiSilicon*

(Replaces C1-202077)

**Decision:** The document was **revised to C1-202904**.

**C1-202904 Indication of change in the use of enhanced coverage**

*Type: CR For: -  
 24.501 v16.4.1 CR-2030 rev 2 Cat: F (Rel-16)  
  
 Source: Samsung, InterDigital, Huawei, HiSilicon*

(Replaces C1-202648)

**Discussion:**

Agreed

Revision of C1-202648

Amer FINE

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Revision of C1-202077

Mikael, Thu, 09:31

Some comments

Mahmoud, Thu, 09:35

Explains to mikael

Mikael, thu, 10:50

Fine, can revise in the future, if needed

Overlaps with C1-202230

Amer, Sat, 14:30

New text leaves some aspects undefined

Mahmoud, Sat, 21:38

Asking for wording

Amer, Sun, 00:02

Proposal

Mikael, Mon, 10:10

Comments, suggests to merge with 2230

Mahmoud, Mon, 22:10

Provides wording

Amer, Tue, 03:33

Text works, some more suggestion

Mahmoud, Tue, 05:46

Fine to merge some parts into 2230, wants to wait for Hua and ID

Behrouz, Tue, 05:56

Fine to merge, co-sign the other paper

Amer, Thu, 02:25

Suggestions

Mahmound, Thu, 06:51

fine

**Decision:** The document was **agreed**.

**C1-202078 Discussion on the mandatory Integrity protection maximum data rate field for UEs that support control plane only**

*Type: discussion For: (not specified)  
 Source: Samsung*

**Discussion:**

Noted

Amer, Fri, 03:36

If anything, then a NOTE related to AMF

Mahmoud, Fri, 04:16

Explaining to Amer

Amer, Fri, 17:31

Meant SMF not Amf

Mahmoud, Fri, 17:49

Commenting to Amer

Amer, Fri, 19:33

Commenting, could see a NOTE

Mahmoud, Fri, 19:47

Disc goes on

Mikael, Fri, 23:57

Comments and suggestions

Amer, Sat, 06:08

Reacting to Mikael, no need to impact Ue

Mikael, Sat, 10:45

Requires UE action

Amer, Sat, 14:17

Integrity protection maximum data rate IE Is a mandatory IE, Note in table,

Mahmoud, Sat, 22:41

discussing

Behourz, Sun, 01:18

Seconds Mahmoud

Amer, Sun, 08:46

CR is a solution looking for a problem, hard to justify it for Rel-16

Lin, Mon, 05:42

Supports the solution

Mikael, Mon, 07:55

Support the solution

Fei, Mon, 08:24

Support the solution

Amer, Mon, 20:36

Solution is not clean, if no one else has problems, will not object

**Decision:** The document was **noted**.

**C1-202079 Integrity protection data rate for UEs that don’t support N3 data transfer**

*Type: CR For: (not specified)  
 24.501 v16.4.1 CR-2031 Cat: F (Rel-16)  
  
 Source: Samsung*

**Decision:** The document was **agreed**.

**C1-202082 Addition of Control Plane Service Request in the abnormal cases for service request procedure**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2032 Cat: F (Rel-16)  
  
 Source: InterDigital Communications*

**Decision:** The document was **agreed**.

**C1-202084 DRX parameters for NB-IoT**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2034 Cat: F (Rel-16)  
  
 Source: InterDigital Communications*

**Decision:** The document was **revised to C1-202611**.

**C1-202611 DRX parameters for NB-IoT**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2034 rev 1 Cat: F (Rel-16)  
  
 Source: InterDigital Communications*

(Replaces C1-202084)

**Decision:** The document was **revised to C1-202619**.

**C1-202619 DRX parameters for NB-IoT**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2034 rev 2 Cat: F (Rel-16)  
  
 Source: InterDigital Communications*

(Replaces C1-202611)

**Decision:** The document was **revised to C1-202671**.

**C1-202671 DRX parameters for NB-IoT**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2034 rev 3 Cat: F (Rel-16)  
  
 Source: InterDigital Communications*

(Replaces C1-202619)

**Decision:** The document was **revised to C1-202865**.

**C1-202864 DRX parameters for NB-IoT**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2034 rev 4 Cat: F (Rel-16)  
  
 Source: InterDigital Communications*

(Replaces C1-202671)

**Decision:** The document was **withdrawn**.

**C1-202865 DRX parameters for NB-IoT**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2034 rev 4 Cat: F (Rel-16)  
  
 Source: InterDigital Communications*

(Replaces C1-202671)

**Decision:** The document was **revised to C1-202926**.

**C1-202926 DRX parameters for NB-IoT**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2034 rev 5 Cat: F (Rel-16)  
  
 Source: InterDigital Communications*

(Replaces C1-202865)

**Decision:** The document was **agreed**.

**C1-202085 Correcting a wrong reference**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2035 Cat: F (Rel-16)  
  
 Source: InterDigital Communications*

**Decision:** The document was **agreed**.

**C1-202169 Adding new abnormal cases on the network side for CPSR**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-2056 Cat: C (Rel-16)  
  
 Source: China Mobile, InterDigital*

**Decision:** The document was **revised to C1-202749**.

**C1-202616 Adding new abnormal cases on the network side for CPSR**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-2056 rev 1 Cat: C (Rel-16)  
  
 Source: China Mobile*

(Replaces C1-202169)

**Decision:** The document was **withdrawn**.

**C1-202749 Adding a new abnormal case on the network side for CPSR**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-2056 rev 2 Cat: C (Rel-16)  
  
 Source: China Mobile, InterDigital*

(Replaces C1-202169)

**Decision:** The document was **agreed**.

**C1-202176 Correction of SGC**

*Type: CR For: Approval  
 24.501 v16.4.1 CR-2062 Cat: F (Rel-16)  
  
 Source: vivo*

**Decision:** The document was **agreed**.

**C1-202177 Emergency PDU sesseion established after WUS negotiation**

*Type: CR For: Approval  
 24.501 v16.4.1 CR-2063 Cat: F (Rel-16)  
  
 Source: vivo*

**Decision:** The document was **revised to C1-202735**.

**C1-202735 Emergency PDU sesseion established after WUS negotiation**

*Type: CR For: Approval  
 24.501 v16.4.1 CR-2063 rev 1 Cat: F (Rel-16)  
  
 Source: vivo*

(Replaces C1-202177)

**Decision:** The document was **agreed**.

**C1-202202 subclause of Negotiated WUS assistance information**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2073 Cat: F (Rel-16)  
  
 Source: vivo*

**Discussion:**

Merged into C1-202465 and revisions

Based on request from Yanchao, mon, 05:19

Lin, Sat, 11:53

Agrees there is something to be done, asks whether this can be merged into C1-202465

**Decision:** The document was **merged**.

**C1-202230 Generic UE configuration update trigger for registration and EC Restriction change**

*Type: CR For: (not specified)  
 24.501 v16.4.1 CR-2077 Cat: C (Rel-16)  
  
 Source: Ericsson / Mikael*

**Decision:** The document was **revised to C1-202892**.

**C1-202892 Generic UE configuration update trigger for registration and EC Restriction change**

*Type: CR For: -  
 24.501 v16.4.1 CR-2077 rev 1 Cat: C (Rel-16)  
  
 Source: Ericsson / Mikael*

(Replaces C1-202230)

**Decision:** The document was **agreed**.

**C1-202245 CIoT user data container in CPSR message not forwarded**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-1743 rev 3 Cat: C (Rel-16)  
  
 Source: Ericsson /kaj*

(Replaces C1-200675)

**Discussion:**

Merged into C1-202779

Revision of C1-200675

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

C1-202169, C1-202337, C1-202461

Amer, Fri, 03:49

Prefers approach with Service Reject (like in 2169 and 2461)

Behrouz, Fri, 05:49

Comments

Kaj, Fri, 12:05

Answering Amer

Amer, Fri, 17:29

Highlights he switched a vs b,

Prefers approach with Service Accept (like in 2245 and 2237)

Amer, Fri, 17:29

Highlights he switched a vs b,

Prefers approach with Service Accept (like in 2245 and 2237)

Behrouz, Fri, 18:15

Support Ericsson

Lin, Sat, 10:35

Number of comments, routing failure to be treated as abnormal case

**Decision:** The document was **merged**.

**C1-202270 Correct handling of receiving EMM cause #31 in EPS**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3349 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to C1-202674**.

**C1-202674 Correct handling of receiving EMM cause #31 in EPS**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3349 rev 1 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

(Replaces C1-202270)

**Discussion:**

Agreed

Revision of C1-202270

Lin: FINE

Lin, Mon, 07:20

please check whether alternative in CR C1-198212 for 4G and C1-198211 for 5G could be a way forward

Osama, Mon, 19:59

comments

Lin, Tue, 04:08

Not convinced that new counter is needed in 4G

Sung, Tue, 06:53

Seems ok with a revision??

Lin, Wed, 05:29

Fine

**Decision:** The document was **agreed**.

**C1-202271 Correct UE behavior for receiving 5GMM cause #31 in 5GS**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2094 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to C1-202676**.

**C1-202676 Correct UE behavior for receiving 5GMM cause #31 in 5GS**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2094 rev 1 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

(Replaces C1-202271)

**Decision:** The document was **agreed**.

**C1-202326 Avoid repeated redirection for NB-IoT**

*Type: CR For: Approval  
 24.501 v16.4.1 CR-2106 Cat: F (Rel-16)  
  
 Source: OPPO / Rae*

**Decision:** The document was **revised to C1-202734**.

**C1-202734 Avoid repeated redirection for NB-IoT**

*Type: CR For: Approval  
 24.501 v16.4.1 CR-2106 rev 1 Cat: F (Rel-16)  
  
 Source: OPPO / Rae*

(Replaces C1-202326)

**Discussion:**

Postponed

Revision of C1-202326

Amer, Fri, 04:41

proposed text should be converted into a note.

Kaj, Fri, 09:54

Conflicts with existing statements

Ban, Fri, 12:43

Same as Kaj

Rae, 08:45

Proposing some text

Rae, Thu, 04:32

Providing a rev to address Amer comment

Marko, Thu, 09:05

Not a proper solution

Rae, thu, 10:20

New rev

Marko still don’t think this is right solution

**Decision:** The document was **postponed**.

**C1-202328 PDU session release due to CP only revocation**

*Type: CR For: Approval  
 24.501 v16.4.1 CR-2107 Cat: F (Rel-16)  
  
 Source: OPPO / Rae*

**Decision:** The document was **revised to C1-202707**.

**C1-202707 PDU session release due to CP only revocation**

*Type: CR For: Approval  
 24.501 v16.4.1 CR-2107 rev 1 Cat: F (Rel-16)  
  
 Source: OPPO / Rae*

(Replaces C1-202328)

**Decision:** The document was **revised to C1-202866**.

**C1-202866 PDU session release due to CP only revocation**

*Type: CR For: Approval  
 24.501 v16.4.1 CR-2107 rev 2 Cat: F (Rel-16)  
  
 Source: OPPO / Rae*

(Replaces C1-202707)

**Decision:** The document was **agreed**.

**C1-202335 Clarification on the UE behaviour when receiving T3448**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2112 Cat: F (Rel-16)  
  
 Source: ZTE*

**Decision:** The document was **revised to C1-202782**.

**C1-202782 Clarification on the UE behaviour when receiving T3448**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2112 rev 1 Cat: F (Rel-16)  
  
 Source: ZTE*

(Replaces C1-202335)

**Discussion:**

Agreed

Revision of C1-202335

Lin, Sat, 12:04

Some change needed, bullet c) not

Amer, Sat, 15:10

Not clear why timer is stopped, bullet c) is needed

Lin, Tue, 04:36

Commenting to Amer

Fei, Tue, 13:19

Providing rev

Fei, Wed, 03:49

New rev

Lin, Wed, 05:49

Fine for rev2

**Decision:** The document was **agreed**.

**C1-202336 Connection Resumption for Notification**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2113 Cat: F (Rel-16)  
  
 Source: ZTE, vivo*

**Decision:** The document was **revised to C1-202775**.

**C1-202775 Connection Resumption for Notification**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2113 rev 1 Cat: F (Rel-16)  
  
 Source: ZTE, vivo*

(Replaces C1-202336)

**Decision:** The document was **agreed**.

**C1-202337 CIoT user or small data container in CPSR message not forwarded**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2114 Cat: F (Rel-16)  
  
 Source: ZTE*

**Decision:** The document was **revised to C1-202779**.

**C1-202779 CIoT user or small data container in CPSR message not forwarded**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2114 rev 1 Cat: F (Rel-16)  
  
 Source: ZTE, InterDigital, Huawei, HiSilicon*

(Replaces C1-202337)

**Discussion:**

Agreed

Revision of C1-202337

Lin FINE

C1-202169, C1-202245, C1-202461

earlier disc of Amer, Behrouz, Kaj, Lin captured in previous agenda

Fei, Tue, 03.44

Lin, Wed, 06:16

Some more comments

Behrouz, Wed, 06:47

OK with the CR, curious why ID is a co-signer

Amer, Wed, 08:36

Looking for an anwer to his question

Fei, Wed, 08:58

Has already answered 03:27

Kaj; wed, 10:07

One Nate and then Ericsosn co-signs

Fei, Wed, 10:20

Ericsosn added in latest rev

Behrouz, Wed, 15:36

Note from Kaj ok

Amer, Wed, 16:17

Can not agree the CR in its current form

Fei, Wed, 17:24

Answering the third time to Amer

Amer, thu, 02:56

The CR looks good

**Decision:** The document was **agreed**.

**C1-202367 Correction on terminology for the Control plane CIoT 5GS optimization**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2130 Cat: F (Rel-16)  
  
 Source: SHARP*

**Decision:** The document was **agreed**.

**C1-202369 Handling of PDU session and PDN connection associated with Control plane only indication in case of N26 based interworking procedures**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2132 Cat: F (Rel-16)  
  
 Source: SHARP*

**Decision:** The document was **revised to C1-202699**.

**C1-202699 Handling of PDU session and PDN connection associated with Control plane only indication in case of N26 based interworking procedures**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2132 rev 1 Cat: F (Rel-16)  
  
 Source: SHARP*

(Replaces C1-202369)

**Decision:** The document was **agreed**.

**C1-202384 UE specific DRX for NB-S1 mode**

*Type: CR For: (not specified)  
 24.301 v16.4.0 CR-3353 Cat: B (Rel-16)  
  
 Source: Vodafone, Ericsson*

**Decision:** The document was **revised to C1-202662**.

**C1-202662 UE specific DRX for NB-S1 mode**

*Type: CR For: -  
 24.301 v16.4.0 CR-3353 rev 1 Cat: B (Rel-16)  
  
 Source: Vodafone, Ericsson, Huawei, HiSilicon*

(Replaces C1-202384)

**Discussion:**

Agreed

Revision of C1-202384

Amer, Tue, 17:24

OK

Lin, Wed, 08:22

good

Amer, Fri, 04:49

Fine in principle, some changes needed

Behrouz, Fri, 06:10

Type 1 IE, “K-“ cannot be used as IEI.

Yang, Fri, 07:18

Agrees with Behrouz, will revise

Yang, Fri, 07:22

Will take comments form Amer on board

Lin, Fri, 08:20

prefer to keep the full range value in the CT1 CR and then put an EN to indicate RAN2 dependency

Yang, Fri, 08:27

The EN is already there

Yang, Fri, 09:56

Provides a rev in the Inbox, once this is a new TDOC number, it will have TEI16, needs to be shifted to TEI16 agenda item

Amer, Fri, 17:43

Further comments, with revised text

Lin, Sat, 11:03

Does not prefer the new text from Amer

Amer, Mon, 05:14

RAN2 has not agreed on values, CT1 should not do either

Yang, Mon, 08:38 and 11:34

Provding a rev

Lin, Tue, 05:25

Fine with the rev

**Decision:** The document was **agreed**.

**C1-202387 Discussion on errors on QoS parameter operations in NB-IoT**

*Type: discussion For: (not specified)  
 Source: BEIJING SAMSUNG TELECOM R&D*

**Decision:** The document was **noted**.

**C1-202388 QoS error checks for UEs in NB-N1 mode**

*Type: CR For: (not specified)  
 24.501 v16.4.1 CR-2145 Cat: F (Rel-16)  
  
 Source: BEIJING SAMSUNG TELECOM R&D*

**Decision:** The document was **revised to C1-202614**.

**C1-202614 QoS error checks for UEs in NB-N1 mode**

*Type: CR For: -  
 24.501 v16.4.1 CR-2145 rev 1 Cat: F (Rel-16)  
  
 Source: BEIJING SAMSUNG TELECOM R&D*

(Replaces C1-202388)

**Discussion:**

Agreed

Revision of C1-202388

Ivo, Thu, 16:25

Issue with new bullet 5)

Mahmoud, Thu, 16:53

Explaining the logic, asking if Ivo is ok

Ivo, Fri, 11:20

Not yet OK, provides wording

Mahmoud, Fri, 15:58

Offers new wording

Ivo, Fri 16:13

Fine, wants to co-sign

**Decision:** The document was **agreed**.

**C1-202403 Discussion on integrity check failure on the Control Plane Service Request message for WB-N1 mode UEs**

*Type: discussion For: (not specified)  
 Source: BEIJING SAMSUNG TELECOM R&D*

**Decision:** The document was **noted**.

**C1-202404 Retransmission of a CPSR message after integrity check failure at the AMF**

*Type: CR For: (not specified)  
 24.501 v16.4.1 CR-2150 Cat: F (Rel-16)  
  
 Source: BEIJING SAMSUNG TELECOM R&D*

**Decision:** The document was **revised to C1-202626**.

**C1-202626 Retransmission of a CPSR message after integrity check failure at the AMF**

*Type: CR For: -  
 24.501 v16.4.1 CR-2150 rev 1 Cat: F (Rel-16)  
  
 Source: BEIJING SAMSUNG TELECOM R&D*

(Replaces C1-202404)

**Discussion:**

Agreed

Revision of C1-202404

Amer, Fri, 18:18

Commenting, provides new text

Mikael, Mon, 10:39

Supports Amer proposal

Mahmoud, Mon, 21:06

Provides rev

Amer, Tue, 03:01

Rev looks fine

Mikeal, Tue, 12:21

Looks good

**Decision:** The document was **agreed**.

**C1-202419 Corrections to CR#1907**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2162 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated / Amer*

**Decision:** The document was **agreed**.

**C1-202422 Initial APN rate control parameters**

*Type: CR For: Agreement  
 24.008 v16.4.0 CR-3216 Cat: B (Rel-16)  
  
 Source: Qualcomm Incorporated / Amer*

**Decision:** The document was **revised to C1-202878**.

**C1-202878 Initial APN rate control parameters**

*Type: CR For: Agreement  
 24.008 v16.4.0 CR-3216 rev 1 Cat: B (Rel-16)  
  
 Source: Qualcomm Incorporated / Amer*

(Replaces C1-202422)

**Decision:** The document was **agreed**.

**C1-202423 Signalling of EPS APN rate control parameters during PDU session establishment**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2164 Cat: B (Rel-16)  
  
 Source: Qualcomm Incorporated / Amer*

**Decision:** The document was **revised to C1-202880**.

**C1-202880 Signalling of EPS APN rate control parameters during PDU session establishment**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2164 rev 1 Cat: B (Rel-16)  
  
 Source: Qualcomm Incorporated / Amer*

(Replaces C1-202423)

**Decision:** The document was **agreed**.

**C1-202425 Ethernet header compression for CP CIoT – 5GMM aspects**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2165 Cat: B (Rel-16)  
  
 Source: Qualcomm Incorporated / Amer*

**Decision:** The document was **revised to C1-202882**.

**C1-202882 Ethernet header compression for CP CIoT – 5GMM aspects**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2165 rev 1 Cat: B (Rel-16)  
  
 Source: Qualcomm Incorporated / Amer*

(Replaces C1-202425)

**Decision:** The document was **agreed**.

**C1-202426 Ethernet header compression for CP CIoT – 5GSM aspects**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2166 Cat: B (Rel-16)  
  
 Source: Qualcomm Incorporated / Amer*

**Decision:** The document was **revised to C1-202888**.

**C1-202888 Ethernet header compression for CP CIoT – 5GSM aspects**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2166 rev 1 Cat: B (Rel-16)  
  
 Source: Qualcomm Incorporated / Amer*

(Replaces C1-202426)

**Decision:** The document was **postponed**.

**C1-202459 Enhancement on CPSR for CIoT CP data transport**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-1701 rev 4 Cat: C (Rel-16)  
  
 Source: Huawei, HiSilicon, Vodafone, ZTE, China Mobile, China Telecom, CATT/Lin*

(Replaces C1-200893)

**Decision:** The document was **revised to C1-202795**.

**C1-202795 Enhancement on CPSR for CIoT CP data transport**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-1701 rev 5 Cat: C (Rel-16)  
  
 Source: Huawei, HiSilicon, Vodafone, ZTE, China Mobile, China Telecom, CATT/Lin*

(Replaces C1-202459)

**Decision:** The document was **agreed**.

**C1-202460 Discussion on routing failure of CPSR**

*Type: discussion For: Decision  
 Source: Huawei, HiSilicon, China Mobile/Lin*

**Decision:** The document was **noted**.

**C1-202461 Routing failure handling of CPSR**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-2172 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon, China Mobile/Lin*

**Discussion:**

Merged into C1-202337

Based on request form author, Wed, 06:16

C1-202169, C1-202245, C1-202337

Amer, Fri, 03:49

Prefers approach with Service Reject (like in 2169 and 2461)

Kaj, Fri, 07:29

preference is to use SERVICE ACCEPT message and solution in C1-202245.

Lin, Fri, 10:58

Explaining the his solution

Amer, Fri, 17:29

Highlights he switched a vs b,

Prefers approach with Service Accept (like in 2245 and 2237)

**Decision:** The document was **merged**.

**C1-202462 Acknowledgement of truncated 5G-S-TMSI configuration**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-2173 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon/Lin*

**Decision:** The document was **agreed**.

**C1-202463 NAS-MAC calculation for RRC connection reestablishment for NB-IoT CP optimisation**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-2174 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon/Lin*

**Decision:** The document was **agreed**.

**C1-202464 Removal of Editor’s Note for CP congestion control**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-2175 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon/Lin*

**Decision:** The document was **agreed**.

**C1-202465 Correction on WUS assistance**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-2176 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon/Lin*

**Decision:** The document was **revised to C1-202796**.

**C1-202796 Correction on WUS assistance**

*Type: CR For: Agreement  
 24.501 v16.4.0 CR-2176 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon/Lin*

(Replaces C1-202465)

**Decision:** The document was **agreed**.

**C1-202521 Correction to handling of T3447 timer**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2195 Cat: F (Rel-16)  
  
 Source: MediaTek Inc. / Marko*

**Decision:** The document was **revised to C1-202692**.

**C1-202692 Correction to handling of T3447 timer**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2195 rev 1 Cat: F (Rel-16)  
  
 Source: MediaTek Inc. / Marko*

(Replaces C1-202521)

**Decision:** The document was **agreed**.

#### 16.2.9 5WWC

**C1-202018 Secondary authentication and W-AGF acting on behalf of N5GC**

*Type: CR For: (not specified)  
 24.501 v16.4.0 CR-2028 Cat: C (Rel-16)  
  
 Source: Ericsson / Ivo*

**Decision:** The document was **revised to C1-202694**.

**C1-202694 Secondary authentication and W-AGF acting on behalf of N5GC**

*Type: CR For: -  
 24.501 v16.4.0 CR-2028 rev 1 Cat: C (Rel-16)  
  
 Source: Ericsson / Ivo*

(Replaces C1-202018)

**Decision:** The document was **agreed**.

**C1-202168 ANDSP is not supported by 5G-RG and W-AGF**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2055 Cat: F (Rel-16)  
  
 Source: ZTE / Joy*

**Decision:** The document was **agreed**.

**C1-202207 Work plan for the CT1 part of 5WWC**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon /Christian*

**Discussion:**

Noted

Ivo, Thu, 13:42

Some things missing, some not needed

**Decision:** The document was **noted**.

**C1-202283 Inclusion of NSSAI in AN Parameters for non-3GPP access**

*Type: CR For: (not specified)  
 24.501 v16.4.1 CR-2100 Cat: C (Rel-16)  
  
 Source: Motorola Mobility, Lenovo*

**Decision:** The document was **revised to C1-202613**.

**C1-202613 Inclusion of NSSAI in AN Parameters for non-3GPP access**

*Type: CR For: -  
 24.501 v16.4.1 CR-2100 rev 1 Cat: C (Rel-16)  
  
 Source: Motorola Mobility, Lenovo*

(Replaces C1-202283)

**Discussion:**

Postponed

Revision of C1-202283

Ivo, Fri, 12:11

CR is NOT OK

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Ivo, Thu, 13:44

Wants to co-sign

Roozbeh, Sun, 19:32

Rev in Inbox

Ivo, Mon, 22:41

Looks fine

Roozbeh, Wed, 18:37

Some suggetions

Larzaros suggestion, taken on board by Roozbeh, Thu, 00:08

Ivo, Thu, 00:18

NOT OK

Roozbeh, Thu, 00:48

New rev

Lazaros, Thu, 01:09

Minor improvements

Roozbeh, thu, 02:56

drafting

**Decision:** The document was **postponed**.

**C1-202284 Inclusion of requested NSSAI in AN parameters**

*Type: CR For: (not specified)  
 24.502 v16.3.0 CR-0122 Cat: F (Rel-16)  
  
 Source: Motorola Mobility, Lenovo*

**Decision:** The document was **revised to C1-202612**.

**C1-202612 Inclusion of requested NSSAI in AN parameters**

*Type: CR For: -  
 24.502 v16.3.0 CR-0122 rev 1 Cat: F (Rel-16)  
  
 Source: Motorola Mobility, Lenovo*

(Replaces C1-202284)

**Decision:** The document was **agreed**.

**C1-202290 Removal of editor’s notes**

*Type: CR For: (not specified)  
 24.502 v16.3.0 CR-0123 Cat: F (Rel-16)  
  
 Source: Motorola Mobility, Lenovo*

**Decision:** The document was **revised to C1-202636**.

**C1-202636 Removal of editor’s notes**

*Type: CR For: -  
 24.502 v16.3.0 CR-0123 rev 1 Cat: F (Rel-16)  
  
 Source: Motorola Mobility, Lenovo*

(Replaces C1-202290)

**Decision:** The document was **agreed**.

**C1-202293 Error type on failure of reserving QoS resources over non-3GPP access**

*Type: CR For: Agreement  
 24.502 v16.3.0 CR-0126 Cat: B (Rel-16)  
  
 Source: ZTE / Joy*

**Decision:** The document was **revised to C1-202653**.

**C1-202653 Error type on failure of reserving QoS resources over non-3GPP access**

*Type: CR For: Agreement  
 24.502 v16.3.0 CR-0126 rev 1 Cat: B (Rel-16)  
  
 Source: ZTE / Joy*

(Replaces C1-202293)

**Discussion:**

Agreed

Revision of C1-202293

Frederic, Thu, 09:08

Clauses affected missing

Roozbeh, Thu, 20:49

Rewording and editorials

Joay, fri, 08:58

Acknowledging roozbeh comments

Roozbeh, Fri, 20:04

Found a new problem with the CR

Joy, Sat, 04:24

Providing answers to Roozbeh

Roozbeh, Sat, 05:06

Answers to Joy

Joy, Sat, 12:02

Provides rev

Roozbeh, Sat, 18:09

More proposals

Joy, Mon, 13:00

New rev

Roozbeh, Tue, 02:41

Fine, type editorial

Joy, Tue, 10:14

Will fix

**Decision:** The document was **agreed**.

**C1-202486 Discussion on 3GPP based access authentication for untrusted non-3GPP access to 5GCN**

*Type: discussion For: (not specified)  
 Source: Ericsson, BlackBerry UK Ltd., Motorola Mobility, Lenovo / Ivo*

**Discussion:**

Noted

Lena, Sun, 00:03

Not specific to 5WWC, rather 5Gprotoc16, not inline with SA3 decission, why would CT1 give a security requirement to SA3?

Andrew, Wed, 10:36

First in SA3

Ivo, Wed, 10:55

There is no Cr,

**Decision:** The document was **noted**.

**C1-202571 EAP details for N5GC**

*Type: CR For: (not specified)  
 24.501 v16.4.1 CR-2207 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **withdrawn**.

**C1-202572 Corrections on N5GC SUPI SUCI**

*Type: CR For: (not specified)  
 24.502 v16.3.0 CR-0128 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **withdrawn**.

**C1-202573 withdrawn**

*Type: CR For: (not specified)  
 24.501 v16.4.1 CR-2208 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **withdrawn**.

**C1-202574 withdrawn**

*Type: CR For: (not specified)  
 24.502 v16.3.0 CR-0129 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **withdrawn**.

#### 16.2.10 PARLOS

**C1-202125 Miscellaneous editorial corrections**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2046 Cat: D (Rel-16)  
  
 Source: Samsung Electronics Polska*

**Decision:** The document was **withdrawn**.

**C1-202126 Miscellaneous editorial corrections**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3340 Cat: D (Rel-16)  
  
 Source: Samsung Electronics Polska / Ricky*

**Decision:** The document was **revised to C1-202601**.

**C1-202601 Miscellaneous editorial corrections**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3340 rev 1 Cat: D (Rel-16)  
  
 Source: Samsung Electronics Polska / Ricky*

(Replaces C1-202126)

**Decision:** The document was **agreed**.

**C1-202147 Clarify UE behaviour for reject cause #9 and #10 received when attached for RLOS**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3342 Cat: F (Rel-16)  
  
 Source: Samsung/Anikethan*

**Decision:** The document was **revised to C1-202879**.

**C1-202879 Clarify UE behaviour for reject cause #9 and #10 received when attached for RLOS**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3342 rev 1 Cat: F (Rel-16)  
  
 Source: Samsung/Anikethan*

(Replaces C1-202147)

**Discussion:**

Agreed

Revision of C1-202147

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Lena, Friday, 01:52

1) The changes for TAU reject seem ok but the text does not read well. I suggest instead “Then if the UE is in the same selected PLMN where the last tracking area updating procedure was attempted, the tracking area updating procedure was rejected with an EMM cause value other than #9, #10 and #40, and timer T3346 is not running, the UE shall:”

2) For the service reject, changes for causes #10 and 40 seem ok but same wording comment applies. About cause #9, according to subclause 4.4.4.3, the network will reject a service request with cause #9 if the UE is not attached for access to RLOS:

“If a SERVICE REQUEST, EXTENDED SERVICE REQUEST or CONTROL PLANE SERVICE REQUEST message fails the integrity check and the UE has only PDN connections for non-emergency bearer services established and the PDN connections are not for RLOS, the MME shall send the SERVICE REJECT message with EMM cause #9 "UE identity cannot be derived by the network" and keep the EMM-context and EPS security context unchanged.”

So changes for cause #9 for the service reject case do not seem justified

Anikethan, Saturday, 19:51

1) -> I think the text proposed in the CR is more clear since it brings out the association between attempt and reject. A comma separated text would end up opening up an interpretation of both these conditions being separate (OR sort of condition). That is how we read many comma separated text formulations in the specification

2) -> I think the text proposed in the CR is more clear since it brings out the association between attempt and reject. A comma separated text would end up opening up an interpretation of both these conditions being separate (OR sort of condition). That is how we read many comma separated text formulations in the specification

Lena, Wednesday, 23:22

I can live with keeping handling of cause #9 for the service reject. But I cannot accept the current wording as it is hard to understand. I propose to use bulleted lists instead.

Anikethan, Thursday, 7:07

I am fine with the suggested changes, a draft revision is available.

Lena, Thursday, 7:24

I am OK with the draft revision.

**Decision:** The document was **agreed**.

**C1-202154 Condition to ensure that UE does not keep reattempting RLOS attach on a PLMN which has rejected the request**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3343 Cat: F (Rel-16)  
  
 Source: Samsung/Anikethan*

**Discussion:**

Postponed

Mariusz, Thursday, 14:10

In the 2nd change, (new dot + new line sign) are not needed.

Lena, Friday, 2:31

1) Currently the CR does not say for how long the UE shall not try on those PLMNs. Until a timer expires? Until switch-off? There needs to be a list that the UE maintains, with an associated timer upon expiration of which the list is cleared (similar to the list of PLMNs where E-UTRA capability was disabled as PLMNs where voice service was not possible in E-UTRAN and timer TD, or the “list of "PLMNs with E-UTRAN not allowed" and timer TE, specified in TS 23.122 subclause 3.1). This will require a CR to TS 23.122.

2) This should be limited to specific cause values for the TAU reject. Also it should be limited to the case when the Attach/TAU reject is integrity-protected, otherwise you open up the door for attacks based on non-integrity protected reject messages that would prevent the UE from having access to RLOS on a legit PLMN

Anikethan, Saturday, 13:20

About Lena’s comments:

1) -> All these should simply be up to implementation. It is better not to get into the specifics of these since there are multiple ways to implement this and there are already implementation specific handlings available for other similar use cases. Similar logic can be extended here to this use case as well. I shall add a clarification that this part will be upto implementation. Please let me know if you are fine with this approach.

2) -> No. My understanding is that it is not possible to limit it to specific values since by requirement RLOS is NOT supposed to be rejected. So the specific reject cause values do not really tell us as to why the network is rejecting the request. We simply need to go by the assumption, wherever possible, that it is because the network does not want the UE to register for RLOS. Additionally integrity check etc is not possible since RLOS registrations are also for unauthenticated UE’s. In fact going by the Stage 2 requirements, in most cases in most cases one cannot expect any security to be setup as part of RLOS

Anikethan, Saturday, 21:42

About Mariusz’s comments:

Thank you for pointing out the additional dot and new line characters. Have rectified it in a draft revision.

Lena, Monday, 20:45

Regarding whether I am ok with leaving this up to UE implementation: no, I am not fine with this approach. For other types of lists (PLMNs where E-UTRA capability was disabled, etc) we do have some text in TS 23.122 defining the list, an associated timer, and the conditions for clearing the list. The same is needed here, we can’t have a requirement on the UE to not select a PLMN, without specifying for how long. As commented before, this will require a CR to TS 23.122.

About your statement the “RLOS is NOT supposed to be rejected”, That is not correct. TS 24.301 actually does specify specific rejection cases for RLOS. Also, SA2 has clarified in reply LS C1-200248 that the network can reject the UE attached for RLOS with timer T3346.

About your statement that “Additionally integrity check etc is not possible since RLOS”, The network may or may not run authentication with UEs attaching for RLOS, it’s up to the network, And the UE attached for RLOS is supposed to apply the same protection mechanisms against DoS attacks based on non-integrity protected NAS messages as a normally attached UE.

Anikethan, Tuesday, 3:09

We are not in favour of introducing a new list and related timers/conditions in the specification for the RLOS use cases. So I shall not be pursuing this CR further.

Request chairman to mark this as noted/withdrawn.

Lena (as vice-chair), Tuesday, 20:06

since the document has been discussed, I am not sure we can mark it as “withdrawn”, and since it is a CR, I also don’t think it can be marked as “noted”. So I propose that we mark it as “postponed”. Would this be ok for you?

Anikethan, Wednesday, 2:31

Sure. ‘Postponed’ would be fine.

**Decision:** The document was **postponed**.

#### 16.2.11 5G\_eLCS (CT4)

**C1-202548 Adding Location Privacy Setting operation**

*Type: CR For: Approval  
 24.571 v16.0.1 CR-0001 Cat: B (Rel-16)  
  
 Source: CATT*

**Abstract:**

Support the capability of UE Location Privacy Setting

**Discussion:**

Agreed

Lena, 23:52

More changes needed, want to see a complete solution

Scott, Wed, 18:55

Sounds like this is withdrawn, unclear

Lena, Thu, 05:41

Thanks for the info. Given you intent to submit the CR to TS 24.080 at the CT4 May meeting, we are OK with C1-202548.

**Decision:** The document was **agreed**.

**C1-202549 Addition of new AT command for 5G Location Services testing**

*Type: CR For: Approval  
 27.007 v16.4.0 CR-0689 Cat: B (Rel-16)  
  
 Source: CATT*

**Abstract:**

Add a new AT Commands to suport the texting of UE Location Privacy Setting.

**Discussion:**

Postponed

Revision not provided in 3GU

Atle, Fri, 08:27

Many comments

Lena, Sun, 23:49

<plane> parameter should be removed

Scott, Wed, 20:11

Replying with draft

Lena, Thu, 07:14

Ok with the draft

Atle, Thu, 11.11

Comments

Atle Thue11:44

Fine with the rev

**Decision:** The document was **postponed**.

**C1-202562 Supplementary LCS Service Operations**

*Type: draftCR For: Approval  
 24.080 v16.0.0  
 Source: CATT*

**Abstract:**

Supplementary LCS Service Operations

**Decision:** The document was **withdrawn**.

#### 16.2.12 V2XAPP

**C1-202206 Work plan for the CT1 part of V2XAPP**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon /Christian*

**Decision:** The document was **noted**.

**C1-202208 Latest reference version of draft TS 24.486**

*Type: draft TS For: (not specified)  
 24.486 v1.0.0  
 Source: Huawei, HiSilicon /Christian*

**Decision:** The document was **noted**.

**C1-202212 Miscellaneous corrections**

*Type: pCR For: Agreement  
 24.486 v1.0.0  
 Source: Huawei, HiSilicon /Christian*

**Decision:** The document was **agreed**.

**C1-202213 V2X USD provisioning**

*Type: pCR For: Agreement  
 24.486 v1.0.0  
 Source: Huawei, HiSilicon /Christian*

**Decision:** The document was **revised to C1-202762**.

**C1-202762 V2X USD provisioning**

*Type: pCR For: Agreement  
 24.486 v1.0.0  
 Source: Huawei, HiSilicon /Christian*

(Replaces C1-202213)

**Discussion:**

Agreed

Revision of C1-202213

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Sapan, Friday, 15:33

1) In clause 7.2.3 – step a) – “the identity of theVAE-C” is used. As per my understanding – such identify is not defined. Which identify we are referring here?

2) Also for client to listen and accept HTTP connection – notification channel needs to be created.

Christian, Tuesday, 17:29

To answer your comment 2) on notification channel. I wrote my CR based on stage 2, i.e. TS 23.286. the VAE server sends a request to the VAE client (V2X USD announcement). As we know, HTTP is a stateless protocol with request-response mechanism, and therefore there is not notification channel for HTTP (polling?).

Christian, Wednesday, 10:42

I have produced a draft revision which addresses Sapan’s comment 1).

Sapan, Wednesday, 21:34

Thanks for addressing comment 1). About 2), – I do understand that the proposal in this CR is based on SA6 specification only. My comment was – for VAE server to send HTTP request to VAE client, VAE server should act as HTTP client to initiate the HTTP connection and VAE client should act as HTTP server to accept the connection. Is this understanding correct? If yes, we need to mention this in the specification (may be in different CR).

Christian, Thursday, 11:36

To accommodate comment 2), I have produced a new draft revision.

Sapan, Thursday, 12:01

I am OK with the draft revision.

**Decision:** The document was **agreed**.

**C1-202214 PC5 parameters provisioning**

*Type: pCR For: Agreement  
 24.486 v1.0.0  
 Source: Huawei, HiSilicon /Christian*

**Decision:** The document was **revised to C1-202763**.

**C1-202763 PC5 parameters provisioning**

*Type: pCR For: Agreement  
 24.486 v1.0.0  
 Source: Huawei, HiSilicon /Christian*

(Replaces C1-202214)

**Discussion:**

Agreed

Revision of C1-202214

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Sapan, Friday, 15:38

1) In clause 7.3.3 – step a) – “the identity of theVAE-C” is used. As per my understanding – such identify is not defined. Which identify we are referring here?

2) Also for client to listen and accept HTTP connection – notification channel needs to be created.

Christian, Tuesday, 17:24

To answer your comment 2 on notification channel. I wrote my CR based on stage 2, i.e. TS 23.286. the VAE server sends a request to the VAE client. As we know, HTTP is a stateless protocol with request-response mechanism, and therefore there is not notification channel for HTTP (polling?).

Christian, Wednesday, 10:42

I have produced a draft revision which addresses Sapan’s comment 1).

Sapan, Wednesday, 21:33

Thanks for addressing comment 1). About 2), – I do understand that the proposal in this CR is based on SA6 specification only. My comment was – for VAE server to send HTTP request to VAE client, VAE server should act as HTTP client to initiate the HTTP connection and VAE client should act as HTTP server to accept the connection. Is this understanding correct? If yes, we need to mention this in the specification (may be in different CR).

Christian, Thursday, 11:36

To accommodate comment 2), I have produced a new draft revision.

Sapan, Thursday, 11:48

I am OK with the draft revision.

**Decision:** The document was **agreed**.

**C1-202215 Structure and data semantics for V2X USD provisioning**

*Type: pCR For: Agreement  
 24.486 v1.0.0  
 Source: Huawei, HiSilicon /Christian*

**Decision:** The document was **revised to C1-202764**.

**C1-202764 Structure and data semantics for V2X USD provisioning**

*Type: pCR For: Agreement  
 24.486 v1.0.0  
 Source: Huawei, HiSilicon /Christian*

(Replaces C1-202215)

**Discussion:**

Agreed

Revision of C1-202215

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Sapan, Friday, 16:05

1) In clause 8.5 – multiple references are used but not added in clause 2.

2) In clause 8.5 – “<frequency> is n optional element encoded as specified in 3GPP TS 29.468 [r29468].” => should be “an”.

Christian, Tuesday, 15:36

A draft revision is available.

Sapan, Wednesday, 21:14

I am OK with the draft revision.

**Decision:** The document was **agreed**.

**C1-202216 Structure and data semantics for PC5 parameters provisioning**

*Type: pCR For: Agreement  
 24.486 v1.0.0  
 Source: Huawei, HiSilicon /Christian*

**Decision:** The document was **revised to C1-202765**.

**C1-202765 Structure and data semantics for PC5 parameters provisioning**

*Type: pCR For: Agreement  
 24.486 v1.0.0  
 Source: Huawei, HiSilicon /Christian*

(Replaces C1-202216)

**Discussion:**

Agreed

Revision of C1-202216

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Sapan, Friday, 4:55

1) In clause 8.3 multiple new elements are defined but their data semantics are not defined in clause 8.5 (for ex: <authorized-when-not-served-by-E-UTRAN>, <radio-parameters-content>, <geographical-identifier>, etc)

2) In clause 8.5 – new references are used. Need to add references in reference clause 2.

Christian, Tuesday, 15:55

A draft revision is available.

Sapan, Wednesday, 21:16

I am OK with the draft revision.

**Decision:** The document was **agreed**.

**C1-202235 V2X UE registration procedure corrections**

*Type: pCR For: (not specified)  
 24.486 v1.0.0  
 Source: Ericsson / Mikael*

**Decision:** The document was **revised to C1-202788**.

**C1-202788 V2X UE registration procedure corrections**

*Type: pCR For: -  
 24.486 v1.0.0  
 Source: Ericsson / Mikael*

(Replaces C1-202235)

**Discussion:**

Agreed

Revision of C1-202235

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Sapan, Friday, 16:41

Please revert correction related to MIME type as those corrections are already done in CR C1-202490 – which is proper.

Mikael, Monday, 10:57

The MIME type alignments were included as current spec included the more specific types. We do however fully support and prefer the proposal to be more generic as in C1-202490. I will update my CRs accordingly.

Mikael, Tuesday, 14:33

A draft revision is available.

Sapan, Wednesday, 7:39

I am fine with the draft revision.

Christian, Wednesday, 11:59

I am ok with the draft revision. I would like to co-sign it.

Mikael, Wednesday, 12:23

I will add Huawei and HiSilicon as co-signers.

**Decision:** The document was **agreed**.

**C1-202236 V2X UE de-registration procedure corrections**

*Type: pCR For: (not specified)  
 24.486 v1.0.0  
 Source: Ericsson / Mikael*

**Decision:** The document was **revised to C1-202789**.

**C1-202789 V2X UE de-registration procedure corrections**

*Type: pCR For: -  
 24.486 v1.0.0  
 Source: Ericsson / Mikael*

(Replaces C1-202236)

**Discussion:**

Agreed

Revision of C1-202236

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Sapan, Friday, 16:41

Please revert correction related to MIME type as those corrections are already done in CR C1-202490 – which is proper.

Mikael, Monday, 10:57

The MIME type alignments were included as current spec included the more specific types. We do however fully support and prefer the proposal to be more generic as in C1-202490. I will update my CRs accordingly.

Mikael, Tuesday, 14:33

A draft revision is available.

Sapan, Wednesday, 7:39

I am fine with the draft revision.

Christian, Wednesday, 11:59

I am ok with the draft revision. I would like to co-sign it.

Mikael, Wednesday, 12:23

I will add Huawei and HiSilicon as co-signers.

**Decision:** The document was **agreed**.

**C1-202237 V2X service discovery procedure corrections**

*Type: pCR For: (not specified)  
 24.486 v1.0.0  
 Source: Ericsson / Mikael*

**Decision:** The document was **revised to C1-202790**.

**C1-202790 V2X service discovery procedure corrections**

*Type: pCR For: -  
 24.486 v1.0.0  
 Source: Ericsson / Mikael*

(Replaces C1-202237)

**Discussion:**

Agreed

Revision of C1-202237

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Sapan, Friday, 16:41

Please revert correction related to MIME type as those corrections are already done in CR C1-202490 – which is proper.

In clause 6.6.2 – an element <service-discovery-data> is used but in clause 8.3 a <service-discovery-info> is defined. Please make is consistent.

Mikael, Monday, 10:57

The MIME type alignments were included as current spec included the more specific types. We do however fully support and prefer the proposal to be more generic as in C1-202490. I will update my CRs accordingly.

On elements in C1-202237, I do not fully understand your comment. In 6.6.2 both <service-discovery-info> and <service-discovery-data> are used. The <service-discovery-data> element may be included in a <service-discovery-info> element. This is reflected in 8.3:

The <service-discovery-info> element shall include a <result> element and may include a <service-discovery-data> element.

There is no definition of <service-discovery-data> in 8.3. Is that what you want to add?

Sapan, Monday, 13:09

Yes, I was referring definition of <service-discovery-data> element only.

Mikael, Tuesday, 14:33

A draft revision is available.

Sapan, Wednesday, 7:39

I am fine with the draft revision.

Christian, Wednesday, 11:59

I am ok with the draft revision. I would like to co-sign it.

Mikael, Wednesday, 12:23

I will add Huawei and HiSilicon as co-signers.

**Decision:** The document was **agreed**.

**C1-202238 V2X service continuity procedure corrections**

*Type: pCR For: (not specified)  
 24.486 v1.0.0  
 Source: Ericsson / Mikael*

**Decision:** The document was **revised to C1-202791**.

**C1-202791 V2X service continuity procedure corrections**

*Type: pCR For: -  
 24.486 v1.0.0  
 Source: Ericsson / Mikael*

(Replaces C1-202238)

**Discussion:**

Agreed

Revision of C1-202238

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Sapan, Friday, 16:41

Please revert correction related to MIME type as those corrections are already done in CR C1-202490 – which is proper.

Mikael, Monday, 10:57

The MIME type alignments were included as current spec included the more specific types. We do however fully support and prefer the proposal to be more generic as in C1-202490. I will update my CRs accordingly.

Mikael, Tuesday, 14:33

A draft revision is available.

Sapan, Wednesday, 7:39

I am fine with the draft revision.

Christian, Wednesday, 11:59

I am ok with the draft revision. I would like to co-sign it.

Mikael, Wednesday, 12:23

I will add Huawei and HiSilicon as co-signers.

**Decision:** The document was **agreed**.

**C1-202458 Application unique ID for the VAE layer**

*Type: pCR For: Agreement  
 24.486 v1.0.0  
 Source: Huawei, HiSilicon /Christian*

**Decision:** The document was **agreed**.

**C1-202489 void**

*Type: pCR For: Agreement  
 24.486 v1.0.0  
 Source: void*

**Decision:** The document was **withdrawn**.

**C1-202490 MIME types**

*Type: pCR For: Agreement  
 24.486 v1.0.0  
 Source: Huawei, HiSilicon /Christian*

**Decision:** The document was **revised to C1-202766**.

**C1-202766 MIME types**

*Type: pCR For: Agreement  
 24.486 v1.0.0  
 Source: Huawei, HiSilicon /Christian*

(Replaces C1-202490)

**Discussion:**

Agreed

Revision of C1-202490

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Sapan, Friday, 16:49

1) Clause 6.5.2.4 is defined twice – please correct the numbers.

2) In clause 6.2.1 - There is an extra ‘-‘ => VAE—info. Please remove it.

Mikael, Tuesday, 14:14

Clause 6.7 is not included in the pCR but would need corresponding changes. I have 6.7 included in my C1-202238 and could do the changes, but I think it would be better to include in your C1-202490 to have all related corrections in the same paper.

Christian, Tuesday, 15:08

I agree that it is better to keep the changes in C1-202490, so I’m revising the CR and add clause 6.7 to do the corresponding changes so all corrections are included in the same document. I will indicate when the revision is available on the 3GPP server.

Christian, Tuesday, 15:26

A draft revision addressing Sapan and Mikael’s comments is available.

Sapan, Wednesday, 9:42

I am fine with the draft revision.

Mikael, Wednesday, 10:36

Draft revision looks good.

**Decision:** The document was **agreed**.

**C1-202544 XML scheme declaration for V2XAPP**

*Type: pCR For: Agreement  
 24.486 v1.0.0  
 Source: Huawei, HiSilicon / Chen*

**Decision:** The document was **revised to C1-202728**.

**C1-202728 XML scheme declaration for V2XAPP**

*Type: pCR For: Agreement  
 24.486 v1.0.0  
 Source: Huawei, HiSilicon / Chen*

(Replaces C1-202544)

**Discussion:**

Agreed

Revision of C1-202544

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Sapan, Friday, 17:00

Editor’s note should not be removed as actual XML schema is not provided yet.

Chen, Saturday, 3:12

OK with me. The complete xml scheme will be provided next meeting. The draft revision with the editor’s note unremoved is now available.

Sapan, Sunday, 19:13

I am fine with the draft revision.

**Decision:** The document was **agreed**.

**C1-202545 V2X application resource management procedure**

*Type: pCR For: Agreement  
 24.486 v1.0.0  
 Source: Huawei, HiSilicon / Chen*

**Decision:** The document was **revised to C1-202729**.

**C1-202729 V2X application resource management procedure**

*Type: pCR For: Agreement  
 24.486 v1.0.0  
 Source: Huawei, HiSilicon / Chen*

(Replaces C1-202545)

**Discussion:**

Agreed

Revision of C1-202545

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Sapan, Friday, 17:07

1) Two references has same number: IETF RFC 4825 [12] (used in clause 6.8.1) and IETF RFC 2616 [12] (used in clause 6.8.2). Please correct it.

2) Also, RFC 4825 is for XCAP operations. Does VAE supports XCAP operations?

3) In clause 6.8.2- clear how server will authorize the sender? Please clarify.

Chen, Saturday, 10:54

1) -> OK

2) -> After some further thinking of the authorization, the step with the reference is removed to be aligned with other procedures

3) -> The VAE layer is over SEAL layer, and clause 5 and stage 2 of TS 23.286 clause 9.1 indicates that the VAE capabilities (VAE client and VAE server) utilizes identity management service procedures (e.g. authentication and authorization of UEs) of SEAL to support V2X services. Therefore, to be aligned with other procedures, the authorization steps were removed

A draft revision is available.

Sapan, Monday, 11:21

I am ok with the draft revision.

**Decision:** The document was **agreed**.

**C1-202546 Structure and data semantics for V2X application resource management procedure**

*Type: pCR For: Agreement  
 24.486 v1.0.0  
 Source: Huawei, HiSilicon / Chen*

**Decision:** The document was **agreed**.

#### 16.2.13 eV2XARC

**C1-202010 Additional transport over Uu for V2X messages of V2X services identified by V2X service identifiers**

*Type: CR For: (not specified)  
 24.386 v15.2.0 CR-0023 Cat: B (Rel-16)  
  
 Source: Ericsson / Ivo*

**Discussion:**

Christian, Monday, 8:41

(1) the cover sheet has some issue; the reason for change indicates, quote “\*\*A method\*\* for uplink and downlink transport of V2X messages over TCP and unicast downlink transport of V2X messages over UDP are specified”. The CR should not introduce any new \*\*method\*\* but should align with stage 2 requirements (TS 23.285). Hope you agree.

(2) we agree with the need of changes to TS 24.386 but again those have to be aligned with stage 2 which just add the support for TCP/IP packet to the existing UDP/IP. The reason for change indicates, quote “Furthermore, given that V2X communication over Uu in 5GS in TS 24.587 specified unicast downlink transport over UDP too, \*it is proposed to also enable unicast downlink transport over UDP in TS 24.386.\*". But TS 24.386 already states in clause 4.1 "can use unicast transport (in uplink, downlink or both of them)". I am confused. I also fail to see the mandatory distinction of UDP port for uplink and downlink in stage 2 spec (TS 23.285) being added in Rel-16. Additionally, implementations based on TS 24.386 already work well for UDP for uplink and downlink traffic. We do wonder whether you considered backwards compatibility when defining the new method for UDP port handling.

(3) Now, you would say that TS 24.587 the mandatory distinction exists. True, but this first of all this is for 5GS and not EPS but now more important, it seems not to be backed up in stage 2 (TS 23.287). We fail to find the requirement for the mandatory distinction of UDP ports for uplink or downlink so we might have gone too far in TS 24.587 with the \*\*method\*\* and this needs to be rethought.

(4) In short, initially, only the updates backed up by stage 2 (i.e., TS 23.285) are acceptable to us, i.e., support of TCP/IP packet.

Ivo, Tuesday, 0:40

(1) I can work on the cover page

(2) You raise several aspects above.

Regarding downlink V2X communication over Uu using UDP, transporting a V2X message of a V2X service identified by a V2X service identifier:

- In 24.386, the downlink V2X communication over Uu using UDP for such V2X messages is specified solely using MBMS bearer (see 24.386 subclause 6.2.4 last paragraph). I.e. there is no downlink V2X communication over Uu using UDP using unicast bearers for such V2X messages.

- In 24.587, there is no MBMS yet. Thus, we agreed that downlink V2X communication over Uu using UDP for such V2X messages can use unicast bearers. Else, we would only have uplink transport and no downlink transport, for such V2X messages.

- given that the UE can move between EPS and 5GS, the CR proposes to specify the downlink V2X communication over Uu using UDP using unicast bearers for such V2X messages also in 24.386, in the same way as specified in 24.587. As the same functionality would be defined both in EPS and 5GS, the same transport for such V2X messages would be used in EPS and 5GS.

In 24.386, the text you quoted above is true only for V2X message of a V2X service \*NOT\* identified by a V2X service identifier, where the application in the UE just uses regular IP routing.

The port is different in uplink and downlink V2X communication over Uu using UDP, transporting a V2X message of a V2X service identified by a V2X service identifier:

- to ensure backward compatibility with uplink V2X communication over Uu using UDP for such V2X messages, a specified in 24.386.

- to enable the V2X application server to distinguish uplink V2X messages from the UE and UE's requests for reception of downlink V2X messages, of such V2X service.

- to inform the UE whether the V2X application server supports the added downlink V2X communication over Uu using UDP using unicast bearers.

I indeed considered the backward compatibity - if the UE is NOT configured with the UDP port for downlink transport for a V2X service identified by a V2X service identifier, then the UE does not use the procedures for downlink V2X communication over Uu using UDP using unicast bearers for V2X messages of the V2X service identified by the V2X service identifier.

Does this address your comment?

(3) The port is different in uplink and downlink V2X communication over Uu using UDP, transporting a V2X message of a V2X service identified by a V2X service identifier, due to the reasons identified in the previous answer.

(4) Disadvantage of the above is that the UE will need to adjust its behaviour in Uu depending whether the UE is in EPS or in 5GS.

However, if you insist that you only want to focus on TCP, then this is of course possible.

Christian, Tuesday, 16:51

I fail to see justification in your comments for the proposed new method of introducing mandatory separation and support of UDP ports for downlink and uplink in V2X for EPS; can you please share the requirements at stage 2 level to back your proposal to TS 24.386 and 24.385 (in C1-202010 and 2011)?

As I already said in my initial e-mail, yes, they were added to TS 24.587 (V2X for 5GS) but again can you share the stage 2 requirements also for 5GS? I may miss something but I cannot find them. I believe that all this of mandatory separation of UDP ports for downlink and uplink needs to be re-considered actually. Again, in my view, a single UDP port can be used for both uplink and downlink. I still don’t understand why the 3GPP-based UE implementation has to be limited and be forced to have separate UDP ports. This actually has an impact on the upper layers.

Frankly, we seem to have gone too far about the Uu data transmission in TS 24.587 in specifying a number of details, for example, mandatory UDP ports for downlink and uplink as in our view, the need of defining all this should lie on upper layers which are out-of-scope of 3GPP (e.g., WAVE in North America, GeoNetworking protocol for the EU –ETSI-, DSMP protocol for China, whatever protocol used in India, etc). The 3GPP-based UE implementation should follow the way used by upper layers on how to configure the use of UDP and TCP port(s). CT1 should not introduce duplication or conflictive requirements actually.

Again, please your CRs should align with stage 2, i.e., support of TCP/IP packet. Nothing else.

Ivo, Tuesday, 19:53

A draft revision is available. Main changes:

- downlink transport of V2X messages over UDP was removed from the scope of the CR.

- related configuration parameters were also removed from the scope of the CR.

**Decision:** The document was **revised to C1-202838**.

**C1-202838 Additional transport over Uu for V2X messages of V2X services identified by V2X service identifiers**

*Type: CR For: -  
 24.386 v15.2.0 CR-0023 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson / Ivo*

(Replaces C1-202010)

**Discussion:**

Christian Herrero (Huawei): We have reviewed the revisions of the CRs in C1-202010 and C1-202011 (now C1-202838 and C1-203829).

We already expressed the comment that only things aligned with stage 2 are acceptable to us. The set of CRs are going to the right direction, thank you.

However, we have got the following comments to the latest version of the CRs:

(1) changes under clause 6.2.2 in C1-202838 go beyond as limits the UDP port for the uplink direction;

(2) new clause 7.x introduces the V2X envelope from TS 24.587 into TS 24.386 which requires further thoughts as 1st already TS 24.386 provides under clause 7.1 the V2X message family encoding, and 2nd we fail to see the need of introducing the V2X envelope in EPS in the way proposed. Such modification to the V2X communication over LTE-Uu using unicast might have impacts in the way the services and implementations using TS 24.386 work;

(3) first change under clause 6.2.5 in C1-202838, i.e., existing bullet item b “if the V2X service is identified by a V2X service identifier and V2X communication over LTE-Uu using MBMS is to be used”, reads odd to us and may not always be true. Similar comment to new bullet item c) condition;

(4) the change in clause 6.2.9 in C1-202939 makes the UDPPort leaf optional which seems not backwards compatible to legacy implementations which expects to have a UDP port always. We need to re-think this in the CR.

Having said that, we as rapporteurs of the work want to complete the eV2XARV work in time and this set of CRs are now going in the right direction so that TCP/IP packet is supported in V2X EPS (V2X communication over LTE Uu, TS 24.386 and 24.385). Hence, we can accept the latest version of the CRs for this meeting as a basis with the condition that our comments will be accommodated in revisions for our next meeting in May so that the solution is complete and feasible in all cases. We would like to the request the previous sentence to be part of the final report.

**Decision:** The document was **agreed**.

**C1-202011 Configuration parameters for additional transport over Uu for V2X messages of V2X services identified by V2X service identifiers**

*Type: CR For: (not specified)  
 24.385 v16.0.0 CR-0020 Cat: B (Rel-16)  
  
 Source: Ericsson / Ivo*

**Decision:** The document was **revised to C1-202839**.

**C1-202839 Configuration parameters for additional transport over Uu for V2X messages of V2X services identified by V2X service identifiers**

*Type: CR For: -  
 24.385 v16.0.0 CR-0020 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson / Ivo*

(Replaces C1-202011)

**Discussion:**

Agreed

Is Christian ok with C1-202839?

Christian is OK

The following statement to be included in the final report.

Having said that, we as rapporteurs of the work want to complete the eV2XARV work in time and this set of CRs are now going in the right direction so that TCP/IP packet is supported in V2X EPS (V2X communication over LTE Uu, TS 24.386 and 24.385). Hence, we can accept the latest version of the CRs for this meeting as a basis with the condition that our comments will be accommodated in revisions for our next meeting in May so that the solution is complete and feasible in all cases

Revision of C1-202011

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Christian, Monday, 8:41

(1) The CR should not introduce any new \*\*method\*\* but should align with stage 2 requirements (TS 23.285);

(2) we agree with the need of changes to TS 24.385 but again those have to be aligned with stage 2 which just add the support for TCP/IP packet to the existing UDP/IP;

(3) we do wonder whether you considered backwards compatibility when defining the new method for UDP port handling. Note that you take the existing MO leaf for the UDP port (UDPPort) and change the meaning of it;

(4) initially, only the updates backed up by TS 23.285 are acceptable to us, i.e., support of TCP/IP packet.

Ivo, Tuesday, 0:43

The comments above are similar to those raised against C1-202010. I have provided answers to them in the other mail threat.

Let's conclude on C1-202010 first.

I will update C1-202011 based on the conclusions of C1-202010.

Ivo, Tuesday, 19:53

A draft revision is available. Main changes:

- downlink transport of V2X messages over UDP was removed from the scope of the CR.

- related configuration parameters were also removed from the scope of the CR.

**Decision:** The document was **agreed**.

**C1-202022 Incorrect reference**

*Type: CR For: (not specified)  
 24.587 v16.0.0 CR-0001 Cat: F (Rel-16)  
  
 Source: Ericsson / Ivo*

**Decision:** The document was **agreed**.

**C1-202104 PC5 unicast link security establishment**

*Type: CR For: Agreement  
 24.587 v16.0.0 CR-0002 Cat: B (Rel-16)  
  
 Source: Qualcomm Incorporated / Lena*

**Decision:** The document was **revised to C1-202875**.

**C1-202875 PC5 unicast link security establishment**

*Type: CR For: Agreement  
 24.587 v16.0.0 CR-0002 rev 1 Cat: B (Rel-16)  
  
 Source: Qualcomm Incorporated / Lena*

(Replaces C1-202104)

**Discussion:**

Agreed

Revision of C1-202104

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Yanchao, Thursday, 15:55

1. In 6.1.2.6.3, “the initiating UE” should be “the target UE”

a) during a PC5 unicast link establishment procedure, the initiating UE shall pass an indication to the lower layers that the PC5 signalling message is for security establishment; and

b) during a PC5 unicast link re-keying procedure, the initiating UE shall pass an indication to the lower layers that the PC5 signalling message is protected.

2. In 6.1.2.6.5, “the initiating UE” should be “the target UE”

a) during a PC5 unicast link establishment procedure, the initiating UE shall pass an indication to the lower layers that the PC5 signalling message is for security establishment; and

b) during a PC5 unicast link re-keying procedure, the initiating UE shall pass an indication to the lower layers that the PC5 signalling message is protected

Sanpan, Thursday, 16:01

1) The terms (5G-EA and 5G-IA) defined in clause 3.1 doesn’t look like definitions. You can add them in clause 3.2 and the text after the abbreviation can be moved to clause 8.4.c as NOTE.

2) In clause 6.1.2.6.2 – in step a) 1) - For precondition related to DIRECT LINK ESTABLISHMENT REQUEST message seems not proper. – the precondition should be

“if KNRP ID is not included in the DIRECT LINK ESTABLISHMENT REQUEST message, the target UE does not have an existing KNRP for the KNRP ID included in DIRECT LINK ESTABLISHMENT REQUEST message or the target UE wishes to derive a new KNRP” (Same condition added in clause 6.1.2.2.3).

3) In clause 6.1.2.6.2 – in step b) - For precondition related to DIRECT LINK REKEYING REQUEST – ReAuth flag needs to be checked.

4) In clause 6.1.2.6.2 – “The target UE shall start timer T5aaa” -> it should be initiator UE.

5) In clause 6.1.2.6.5 – “ the initiating UE shall pass an indication to the lower layers” -> it should be target UE (2 instances)

6) In clause 6.1.2.6.5 – “The target UE shall abort the ongoing procedure” – I do not see abort procedure defined anywhere? What should be done to abort the procedure?

7) In clause 6.1.2.6.6.1 – Same comment as above for aborting procedure

8) In clause 6.1.2.7.1 – “The PC5 unicast link security mode control procedure is used to establish a security association between two UEs during …..” (Terminology used from clause 5.3.3.1.4.3 of TS 33.536)

9) In clause 6.1.2.7.3 – steps to “derive KNRP-sess from KNRP” and “derive NRPEK and NRPIK from KNRP-sess” should be move after step e) – as we need to derive keys only after checking whether message can be accepted or not.

10) In clause 6.1.2.7.5 – if DIRECT LINK SECURITY MODE COMMAND message is rejected due to cause specified in step d) of clause 6.1.2.7.3 OR step e) of clause 6.1.2.7.3 – then what will be values of PC5 signalling protocol cause IE value?

11) Table 8.4.1.1 and in Table 8.4.9.1– Why 9 bits are used?

Rae, Friday, 7:44

The indication from PC5-S to AS layer to indicate whether PC-S message is protected or not is not necessary, with the following reasons:

- RAN2 has determined the value of LCIDs corresponding to the different PC5-S message. I copy the table from the agreed RAN2 CR R2-2001969 as below.

- The new indication cannot be handled in the existing AS layer, which will impact AS layer e.g. a new layer such as SDAP should be added.

- Actually the same mechanism is also in ProSe without the proposed indication and there is no issue.

Fei, Friday, 10:45

The term 5G-EA and 5G-IA can be referred to 24.501.

In the subclause 8.4.g, the EEA/EIA should be changed to 5G-EA/IA;

I have a question, why the the Knrp ID is defined for 32 bits. I have not found clear statement that the Knrp id should be 32bits. And since the Knrp\_sess id is 16bits, whether 16 bits are sufficient for the Knrp id.

Lena, Monday, 3:08

To Yanchao:

I have uploaded a draft revision with the following changes (also incorporated comments from other companies):

- Referred to the definition of 5G-EA and 5G-IA in TS 24.501 rather than adding the same definition in TS 24.587, and removed the addition of the reference to TS 33.501 which as a result is no longer needed

- Replaced “initiating UE” by “target UE” in 2 places in 6.1.2.3

- Replaced initiating UE” by “target UE” in 2 places in 6.1.2.5

- In clause 6.1.2.6.2, for the preconditions related to the case when the authentication procedure is triggered by a direct link establishment procedure, added a condition that “the KNRP ID is not included in the DIRECT LINK ESTABLISHMENT REQUEST message or the initiating UE does not have an existing KNRP for the KNRP ID included in DIRECT LINK ESTABLISHMENT REQUEST message or the initiating UE wishes to derive a new KNRP, derive a new KNRP”

- In clause 6.1.2.6.2, for the preconditions related to the case when the authentication procedure is triggered by a direct link re-keying procedure, added a condition that the DIRECT LINK REKEYING REQUEST message includes a Re-authentication indication

- Replaced “target UE” by “initiating UE” in 6.1.2.6.2

- Changed “to establish a security association between two UEs" to “to establish security between two UEs” during In subclause 6.1.2.7.1

- In clause 6.1.2.7.5, clarified that if DIRECT LINK SECURITY MODE COMMAND message is rejected due to cause specified in step d) of clause 6.1.2.7.3 orstep e) of clause 6.1.2.7.3, the UE shall use PC5 signalling protocol cause #d "UE PC5 unicast signalling security policy mismatch" in the SECURITY MODE REJECT message

- Fixed the number of bits used from 9 to 8 in 8.4.1.1 and 8.4.9.1

- In subclause 8.4.g, changed EEA/EIA to 5G-EA/IA

Lena, Monday, 3:09

To Sapan:

1) -> They are actually defined in TS 24.501. Fei suggested just referring to the definitions in TS 24.501, which is what I have done in the draft revision

2) -> OK

3) -> OK

4) -> OK

5) -> OK

6) -> Aborting the procedure means no longer pursing it, no longer sending any related signalling and cleaning up all related timers. We have this terminology also in TS 24.008, TS 24.301 and TS 24.501, without any specific definition of what aborting the procedure means, and I see no need to start defining it now.

7) -> See 6)

8) -> OK

9) -> No because the first check to see whether the message can be accepted it to check the integrity protection of the message, which requires NRPIK

10) -> The UE shall use PC5 signalling protocol cause #d "UE PC5 unicast signalling security policy mismatch" in the SECURITY MODE REJECT message, I have clarified this in the revision

11) -> That was a mistake, thanks for pointing it out. I have fixed it in the draft revision

Lena, Monday, 3:12

To Fei: I agree with your suggestion to refer to TS 24.501, and I also agree with the comment about changing EEA/EIA to 5G-EA/IA. I have taken both comments onboard, as well as comments from Yanchao and Sapan in a draft revision available.

Regarding the length of KNRP ID, although TS 33.536 does not explicitly define the length of KNRP ID (probably an oversight), the rationale section of S3-200501 explains that the security for the PC5 unicast link “is based on the ProSe text [2] and the conclusion of the TR but includes at least the following changes: (…) Renaming the KD (…) to KNRP”. For ProSe, KD ID is 32 bits long, so I have used the same length. If some companies think this value is not appropriate, we can always send an LS to SA3 to ask them how long it should be.

Sapan, Monday, 8:17

Thanks for considering my comments and taking it on board. While reviewing the draft revision, I found few more issues and here are the comments:

1) In clause 6.1.2.6.3 – after step b), please mention about deriving KNRP as follows -

“Upon sending the DIRECT LINK AUTHENTICATION RESPONSE message, the target UE shall derive a new KNRP as specified in 3GPP TS 33.536 [yy]. “

2) In clause 6.1.2.6.4 – please add below text at end of the first paragraph.

“and derive a new KNRP as specified in 3GPP TS 33.536 [yy]”

3) In clause 6.1.2.7.3 – reference number for TS 33.536 is used as [x] => it should be [yy] as specified in reference clause 2.

I am fine with changes done for previous comments.

Lena, Monday, 23:44

To Sapan:

1) -> Adding this statement would not be correct, because it might take several authentication procedures (ie several authentication request/response exchanges) to derive the K\_NRP depending on the authentication method used, see TS 33.536 subclause 5.3.3.1.3.2.

Also, some authentication methods might require some info in the DIRECT SECURITY MODE COMMAND message to complete the K\_NPR derivation (see in TS 33.536 figure 5.3.3.1.3.2-1 that the Direct Security Mode Command message optionally includes a Key establishment info IE) . So we can have text saying the UE derives the new K\_NRP only in the security mode control procedure, not in the authentication procedure

2) -> Same as above

3) Thanks for pointing this out, I have fixed it in v2 of the draft revision

Lena, Tuesday, 7:28

To Rae:

I do think this indication from the V2X layer to the AS layer of whether a PC5 signalling message is unprotected, for security establishment, or protected, would be useful. We already have in the spec a lot of info passed from the V2X layer to the AS (destination layer-2ID, etc). Yes it can be handled in implementation, but having it in the spec makes the interactions between the layers easier to understanding in my view.

That said, if I am the only who think the indication is useful, I am ok to remove it. I would be interest to hear other companies’ view.

Sapan, Tuesday, 7:43

1) -> ok

2) -> I agree that there could be multiple authentication request/response exchanges occur but I would like to add clarification on exactly when a new KNRP has been derived by the initiating UE. So, my proposal is to add below text in clause 6.1.2.6.4: “Upon completion of final link authentication request/response exchange, the initiating UE shall derive KNRP as specified in 3GPP TS 33.536 [yy].”

3) -> Thanks

Fei, Tuesday, 13:34

Thanks for your clarification. I am fine with the length of Kd ID and the revision is Ok to me.

Christian, Tuesday, 16:18

We would like to proceed with the CR but we believe that some parts of the proposal are still under discussion at stage 2 level and we would like to propose some updates:

a. under clause 6.1.2.2.2, we would like to remove bullet item g) from now and replace it by an editor’s note, for example, whether the PC5 unicast signaling security policy is needed to be included is FFS waiting for SA3 conclusion;

b. also under clause 6.1.2.2.2, we do not see need of indication of inter-layer interaction about providing an indication to lower layers about the PC5 signalling message is unprotected. Firstly, it seems not settled whether the PC5 signalling would be sent unprotected for signalling in the end (wait for SA3 conclusion). Even if so, there is no need of this interaction defined in TS 24.334 (in ProSe) where your proposal seems to be based on;

c. under clause 6.1.2.7.1, the proposal removes both editor’s note given the impression that all is fixed by SA3 but this is not understanding as discussions are ongoing there;

d. under clause 6.1.2.7.2, we think that at this moment in time we should not add the text quote:

The initiating UE shall select security algorithms in accordance with its UE PC5 unicast signalling security policy and the target UE’s PC5 unicast signalling security policy. If the PC5 unicast link security mode control procedure was triggered during a PC5 unicast link establishment procedure, the initiating UE shall not select the null integrity protection algorithm if the initiating UE or the target UE’s PC5 unicast signalling integrity protection policy is set to "signalling integrity protection required".

in our understanding there are still SA3 discussion on this aspect. Editor’s note;

e. also under clause 6.1.2.7.2, similarly as above, we would like to remove the bullet item 7. Editor’s note instead, if necessary;

f. under clause 6.1.2.7.3, we would like to remove bullet items c and d, and add an editor’s notes instead;

g. under clause 6.1.2.7.5, 8.4.9, we would like not add yet the proposed new value “#d UE PC5 unicast signalling security policy mismatch“;

h. under clause 7.3.1.1, 7.3.d.1, 7.3.e.1, we would like not to add the UE PC5 unicast signalling security policy IE so new 8.4.d and 8.4.k are not acceptable to us yet;

Lena, Wednesday, 2:23

To Christian:

a. -> UE signalling security policy is in SA3 spec. ongoing discussions abou UE user plane security policy, ok to remove that one

b. -> ok

c. -> reverted deletion of EN on user plane security policy, kept removal of the other one

d. -> CR is aligned with SA3 spec

e. -> CR is aligned with SA3 spec

f. -> CR is aligned with SA3 spec

g. -> ok to moreve items related to user plane security policy

A draft revision is available.

Lena, Wednesday, 2:53

To Sapan:

Regarding “I would like to add clarification on exactly when a new KNRP has been derived by the initiating UE”, it is actually not possible to put a statement on exactly when the UE does this in the PC5 unicast link authentication procedure because it will depend on the authentication method in use: how many times the procedure itself is performed to derive a new K\_NRP depends on the authentication method in use. Also depending on the method in use, the derivation of K\_NRP might be performed in successive steps. So I would prefer to only list the fact that K\_NRP has been derived as pre-condition for the start of the security mode control procedure, without specifying exactly when the initiating UE has derived K\_NRP (since it can’t be pin-pointed).

A draft revision is available, addressing also comments from Christian and Rae.

Lena, Wednesday, 2:55

To Rae:

I have removed the iindication from UE to AS layer of whether a PC5-signalling message is unprotected, for security establishment or protected. A draft revision is available.

Sapan, Wednesday, 10:34

I completely agree with you on the fact that link authentication procedure may run multiple times depending on the authentication method used. But in TS 33.536 - clause 5.3.3.1.3.2 – it is clearly mentioned that KNRP shall be calculated after step#2 and before UE\_2 sends Direct Security Mode Command message. So here is my new proposal: If Qualcomm do not want to add normative text in clause 6.1.2.6.4, then Can you add NOTE in clause 6.1.2.6.4 to specify that initiating UE derives KNRP during link authentication procedure at any time depending on authentication method use?

Yanchao, Wednesday, 10:35

I have checked with my RAN2 colleague, our view on “whether the indication from UE to AS layer of whether a PC5-signalling message is unprotected is needed or not” is needed.

AS layer cannot tell whether the a PC5-signalling message is unprotected based on existing information, therefore an explicit indication is needed from upper layer by AS layer.

Lena, Wednesday, 22:27

To Yanchao: thanks for taking the time to checking on this and for your feedback. I agree that some indication is needed from the V2X layer to the AS. But since this is internal to the UE, it is true that strictly speaking this can be handled in UE implementation. Given that 2 companies (Huawei, OPPO) prefer to leave this up to implementation, in the interest of progress have removed this indication from the updated draft revision. I hope this is an acceptable way forward for you.

Lena, Wednesday, 22:48

An updated draft revision is available. I have added a NOTE in 6.1.6.2.4 as requested by Sapan, and I have removed all mentions of UE security policy and replaced them by Editor’s notes as requested by Christian.

Ivo, Wednesday, 22:56

In one place, there is "MSB" while other places use "MSBs". Is that intentional?

Lena, Wednesday, 23:07

No, it was not intentional, thanks for pointing it out. I have changed that one instance of “MSB” to “MSBs” in an updated draft revision.

Sapan, Wednesday, 23:07

I am OK with the proposed tex for the NOTE.

Christian, Thursday, 11:49

Thanks for considering our comments. The CR is fine by me.

**Decision:** The document was **agreed**.

**C1-202105 NR PC5 unicast security policy provisioning**

*Type: CR For: Agreement  
 24.587 v16.0.0 CR-0003 Cat: B (Rel-16)  
  
 Source: Qualcomm Incorporated / Lena*

**Discussion:**

Postponed

Christian, Monday, 8:41

(1) the term defined under 3.1 is “NR-PC5”. Can you replace “NR PC5” then?;

(2) the text of the new bullet item “vi)” seems to imply that there are several policies but each entry in the list should provide one security policy so what about “vi) one or more geographical areas where the security policy entry applies”?; and

(3) with those changes we would like to co-sign the CR as we support it.

Christian, Monday, 14:23

(1) we agree that SA3 CRs have been agreed adding that, quote of TS 33.536 under clause 5.3.3.1.4.2.1:

Security policy for PC5 link shall be provisioned for NR PC5 V2X communication as well.

However, there are two editor’s notes and a NOTE under clause 5.3.3.1.4.2.3 on “Security policy handling” which I have now paid attention since they are not shown on the cover sheet of the CT1 CRs, quote:

The list of V2X services, e.g. PSIDs or ITS-AIDs of the V2X applications, with Geographical Area(s) and their security policy which indicates the following:

• Signalling integrity protection: REQUIRED/PREFERRED/OFF

• Signalling confidentiality protection: REQUIRED/PREFERRED/OFF

• User plane integrity protection: REQUIRED/PREFERRED/OFF

• User plane confidentiality protection: REQUIRED/PREFERRED/OFF

NOTE 1: No integrity protection on signalling traffic enables services that do not require security, e.g. emergency services.

Editor’s note: Whether policy is OFF or NOT NEEDED is FFS

Editor’s note: The security policy handling related part needs to be clearly defined. It is FFS that how the initiating UE and the receiving UE deal with the security policy, e.g., whether to accept the communication or not with their security policy and local policy

(2) in our understanding, the security requirements regarding security policy provisioning and handling are not crystal clear yet. This is obvious looking at the stage 2 specification on security (TS 33.536) which version is v1.0.0 so not approved yet and discussions and CRs are still ongoing. Now, I have found p-CRs from several companies (including Huawei) proposing to modify those initially added requirements to the draft version of TS 33.536 for example, updating the security policies and how they are handling, challenging NOTE1, and resolving the editor’s notes in different ways. Furthermore, I see that there are also discussion about (at least one related CR) this week in SA2 (#138E) on the impacts to the architecture and procedures because of the draft version 1.0.0 of TS 33.536;

(3) since the situation in both SA3 and SA2 is not crystal clear yet, TS 33.536 is not stable enough and CT1 are meeting in May, I would like to postpone the two CRs in C1-202105 and 2106 till the dust settles in both SA3 and SA2 so we know exactly what we need to do at stage 3 level in CT1.

Andrew H, Monday, 15:09

Agree with Christian, It would probably be a good idea to postpone these CRs until it is clear what decisions have been taken by SA3.

Lena, Tuesday, 9:00

The good news is that SA3 has made some agreements on UE security policy last week, and my understanding is that this should enable us to make progress at this meeting without necessarily waiting for the May meeting. Specifically:

About (1)

- The Editor’s note stating “The security policy handling …” is no longer in the latest version of TS 33.536 (v0.3.0, available in S3-200528)

- The Editor’s note stating “Whether policy is OFF or NOT NEEDED is FFS” has been removed by S3-200690 agreed in SA3 last week (SA3 decided to change “OFF” to “NOT NEEDED”)

About (2)

- Several agreements in SA3 on UE security policy were made last week and our understanding is that C1-202105 and C1-202106 are inline with these agreement. We are not aware of any open items regarding the UE security policy parameters provisioning and their values. If there are any issues which are still unclear, it would be very beneficial if you could point at what these are. Then we could consider addressing them with Editor’s notes.

About (3)

- C1-202105 and C1-202106 are not about what the UE does with the UE security policy, but about what parameters are in the policy and how they are encoded. I believe the SA3 aspects for these are finalized (the last remaining open item was this “OFF” vs “NOT NEED” question which was settled last week as mentioned above). So I do not really what will change between now and the May meeting, and my preference would be to proceed with the CRs.

In light of the above, I have prepared the following draft revisions with the following changes:

- Updated reason for change with latest SA3 agreement

- Changed “NR PC5” to “NR-PC5”

- Changed “where the policies apply” to “where the NR-PC5 unicast security policy applies”

Christian, Wednesday, 14:57

Agree that progress was achieved but the thing is that I have checked TS 33.536 v1.0.0 (yes, which is v.0.3.0 sent for information) together with a number of p-CRs submitted and discussed last SA3 meeting (#98-bis-e) which challenge requirements under clause 5.3.3.1.4.2 on “Security policy” (e.g., S3-20072, S3-200790). The p-CR from us was noted so the discussions seem to be continued next meeting. There are further discussion this week at the SA2 meeting also on security policy and its impacts on architecture as you may be aware of. I am sorry but it seems that the requirements are not carved in stone on security policy yet. Furthermore, not only does security policy impact the UE but also the PCF, all this also might need to be checked with CT3 experts too.

I believe that it is sensible for us, stage 3 (CT1), to wait for stable requirements and the group will benefit on waiting for the next meeting.

Lena, Wednesday, 16:37

Thanks for your additional feedback. I checked again with my SA3 colleague and the p-CR from Huawei proposing to mandate security for the PC5 unicast link was noted in SA3 last week because there was no support for the proposal. There is no expectation that the discussion will continue in SA3 next meeting, and the requirements on security policy provisioning remain in TS 33.536. Hence C1-202105 & C1-202106 are fully aligned with the current SA3 requirements.

Based on the above, I don’t think anything will change between now and May. That said, since SA3 meets well ahead of CT1 (SA3#99e takes place May 11-15), I can reluctantly accept to postpone C1-202105 & C1-202106 to see if anything changes in SA3 during their May meeting.

To enable C1-202104 to progress, I will update the draft revision of C1-202104 to remove items related to UE signaling security policy and replace them by Editor’s notes.

**Decision:** The document was **postponed**.

**C1-202106 NR PC5 unicast security policy provisioning**

*Type: CR For: Agreement  
 24.588 v16.0.0 CR-0001 Cat: B (Rel-16)  
  
 Source: Qualcomm Incorporated / Lena*

**Discussion:**

Postponed

Ivo, Friday, 15:39

We need to specify how the UE treats the spare values

Christian, Monday, 8:50

(1) we support the CR as the related one in C1-202105 but as we add the “NR-PC5”, which is defined by TS 24.587, this has to be indicated under clause 3.1;

(2) with that change we would like to co-sign the CR so that the NR-PC5 unicast link security policies can be provisioned to the UE by means of TS 24.588 so that the stage 2 requirements on security are added to stage 3 by CT1.

Christian, Monday, 14:23

(4) we agree that SA3 CRs have been agreed adding that, quote of TS 33.536 under clause 5.3.3.1.4.2.1:

Security policy for PC5 link shall be provisioned for NR PC5 V2X communication as well.

However, there are two editor’s notes and a NOTE under clause 5.3.3.1.4.2.3 on “Security policy handling” which I have now paid attention since they are not shown on the cover sheet of the CT1 CRs, quote:

The list of V2X services, e.g. PSIDs or ITS-AIDs of the V2X applications, with Geographical Area(s) and their security policy which indicates the following:

• Signalling integrity protection: REQUIRED/PREFERRED/OFF

• Signalling confidentiality protection: REQUIRED/PREFERRED/OFF

• User plane integrity protection: REQUIRED/PREFERRED/OFF

• User plane confidentiality protection: REQUIRED/PREFERRED/OFF

NOTE 1: No integrity protection on signalling traffic enables services that do not require security, e.g. emergency services.

Editor’s note: Whether policy is OFF or NOT NEEDED is FFS

Editor’s note: The security policy handling related part needs to be clearly defined. It is FFS that how the initiating UE and the receiving UE deal with the security policy, e.g., whether to accept the communication or not with their security policy and local policy

(5) in our understanding, the security requirements regarding security policy provisioning and handling are not crystal clear yet. This is obvious looking at the stage 2 specification on security (TS 33.536) which version is v1.0.0 so not approved yet and discussions and CRs are still ongoing. Now, I have found p-CRs from several companies (including Huawei) proposing to modify those initially added requirements to the draft version of TS 33.536 for example, updating the security policies and how they are handling, challenging NOTE1, and resolving the editor’s notes in different ways. Furthermore, I see that there are also discussion about (at least one related CR) this week in SA2 (#138E) on the impacts to the architecture and procedures because of the draft version 1.0.0 of TS 33.536;

(6) since the situation in both SA3 and SA2 is not crystal clear yet, TS 33.536 is not stable enough and CT1 are meeting in May, I would like to postpone the two CRs in C1-202105 and 2106 till the dust settles in both SA3 and SA2 so we know exactly what we need to do at stage 3 level in CT1.

Lena, Tuesday, 9:00

The good news is that SA3 has made some agreements on UE security policy last week, and my understanding is that this should enable us to make progress at this meeting without necessarily waiting for the May meeting. Specifically:

About (1)

- The Editor’s note stating “The security policy handling …” is no longer in the latest version of TS 33.536 (v0.3.0, available in S3-200528)

- The Editor’s note stating “Whether policy is OFF or NOT NEEDED is FFS” has been removed by S3-200690 agreed in SA3 last week (SA3 decided to change “OFF” to “NOT NEEDED”)

About (2)

- Several agreements in SA3 on UE security policy were made last week and our understanding is that C1-202105 and C1-202106 are inline with these agreement. We are not aware of any open items regarding the UE security policy parameters provisioning and their values. If there are any issues which are still unclear, it would be very beneficial if you could point at what these are. Then we could consider addressing them with Editor’s notes.

About (3)

- C1-202105 and C1-202106 are not about what the UE does with the UE security policy, but about what parameters are in the policy and how they are encoded. I believe the SA3 aspects for these are finalized (the last remaining open item was this “OFF” vs “NOT NEED” question which was settled last week as mentioned above). So I do not really what will change between now and the May meeting, and my preference would be to proceed with the CRs.

In light of the above, I have prepared the following draft revisions with the following changes:

- Updated reason for change with latest SA3 agreement

- Added reference to definition of NR-PC5 in TS 24.587 in subclause 3.1

- Changed “NR PC5” to “NR-PC5”

- Changed “off” to “not required” for security policy code points

- Added a description of how the UE handle spare values

Lena, Tuesday, 9:02

I have taken onboard Ivo’s comments in a draft revision.

Christian, Wednesday, 14:57

Agree that progress was achieved but the thing is that I have checked TS 33.536 v1.0.0 (yes, which is v.0.3.0 sent for information) together with a number of p-CRs submitted and discussed last SA3 meeting (#98-bis-e) which challenge requirements under clause 5.3.3.1.4.2 on “Security policy” (e.g., S3-20072, S3-200790). The p-CR from us was noted so the discussions seem to be continued next meeting. There are further discussion this week at the SA2 meeting also on security policy and its impacts on architecture as you may be aware of. I am sorry but it seems that the requirements are not carved in stone on security policy yet. Furthermore, not only does security policy impact the UE but also the PCF, all this also might need to be checked with CT3 experts too.

I believe that it is sensible for us, stage 3 (CT1), to wait for stable requirements and the group will benefit on waiting for the next meeting.

Lena, Wednesday, 16:37

Thanks for your additional feedback. I checked again with my SA3 colleague and the p-CR from Huawei proposing to mandate security for the PC5 unicast link was noted in SA3 last week because there was no support for the proposal. There is no expectation that the discussion will continue in SA3 next meeting, and the requirements on security policy provisioning remain in TS 33.536. Hence C1-202105 & C1-202106 are fully aligned with the current SA3 requirements.

Based on the above, I don’t think anything will change between now and May. That said, since SA3 meets well ahead of CT1 (SA3#99e takes place May 11-15), I can reluctantly accept to postpone C1-202105 & C1-202106 to see if anything changes in SA3 during their May meeting.

To enable C1-202104 to progress, I will update the draft revision of C1-202104 to remove items related to UE signaling security policy and replace them by Editor’s notes.

**Decision:** The document was **postponed**.

**C1-202107 PC5 unicast link re-keying procedure**

*Type: CR For: Agreement  
 24.587 v16.0.0 CR-0004 Cat: B (Rel-16)  
  
 Source: Qualcomm Incorporated / Lena*

**Decision:** The document was **revised to C1-202876**.

**C1-202876 PC5 unicast link re-keying procedure**

*Type: CR For: Agreement  
 24.587 v16.0.0 CR-0004 rev 1 Cat: B (Rel-16)  
  
 Source: Qualcomm Incorporated / Lena*

(Replaces C1-202107)

**Discussion:**

Agreed

Revision of C1-202107

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Ivo, Thursday, 13:54

We need to specify how the UE treats the spare values.

Yanchao, Thursday, 15:58

Is it possible that the target UE does not accept the PC5 unicast link re-keying procedure?

Sapan, Thursday, 16:30

1) In clause 6.1.2.x.2 – Need to add below NOTE. (Similar NOTE added in C1-202104)

“In order to ensure successful PC5 unicast link re-keying, T5ccc should be set to a value larger than the sum of T5aaa and T5bbb”

2) Table 8.4.1.1 – 9 bits are used.

Fei, Friday, 11:00

My preference would be that the target UE sends the Rekey response using the existing security context before triggering the re-authentication procedure.

After sending the rekey response to the initial UE, the target UE will trigger the authentication procedure as in the CR 2104.

Ivo, Friday, 15:43

I withdraw my comment on this document, it was related to C1-202106.

Lena, Tuesday, 7:42

To Fei: the reason for having the Rekeying response is so that the initiating UE can consider the procedure complete. If you send it before authentication and security mod control are performed then you do not know whether the rekeying of the link will actually succeed. Hence we would prefer to keep the Rekeying response at the end of the procedure (as was done for ProSe in TS 24.334).

Lena, Tuesday, 7:43

To Yanchao: I do not think the target UE has the option of not accepting the PC5 unicast link re-keying procedure. Note that for ProSe in TS 24.334, there is also no way for the target UE to reject the rekeying request.

Lena, Tuesday, 7:51

To Sapan: I have taken your comments onboard in a draft revision.

Sapan, Tuesday, 8:13

I am fine with the draft revision.

Fei, Tuesday, 8:16

Thanks for your clarification. I am fine with the CR.

**Decision:** The document was **agreed**.

**C1-202108 Adding general subclause on security of PC5 signalling messages**

*Type: CR For: Agreement  
 24.587 v16.0.0 CR-0005 Cat: B (Rel-16)  
  
 Source: Qualcomm Incorporated / Lena*

**Decision:** The document was **revised to C1-202877**.

**C1-202877 Adding general subclause on security of PC5 signalling messages**

*Type: CR For: Agreement  
 24.587 v16.0.0 CR-0005 rev 1 Cat: B (Rel-16)  
  
 Source: Qualcomm Incorporated / Lena*

(Replaces C1-202108)

**Discussion:**

Agreed

Revision of C1-202108

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Ivo, Friday, 3:51

Please do not use "and/or"

Christian, Monday, 16:06

(3) we support the CR in order to have a general clause on PC5 unicast security into TS 24.587 in a similar way as TS 24.501 or TS 24.301 (i.e., a clause on “NAS security” exists);

(4) there are a number of aspects which seems not to be crystal clear at stage 2 as there are p-CRs tabled at the last meeting and the specification is not approved yet (TS 33.536). Hence, we would like to propose some updates and clarify some questions from my side:

a. I would like to remove the word “possible” in front of “integrity protection and ciphering of PC5 user-plane data” and add an editor’s note instead till this is settled in SA3;

b. I would like to remove the NOTE under clause 6.1.2.1a.1 at this moment in time and see how all this ends up in stage 2. Also, in my view, I find strange that at least integrity protection is not used by default;

c. I would like to know how many security contexts can exist in the UE, e.g., clause 6.1.2.1a.2 reads “[..] PC5 unicast security contextS” but the text under the clause is not clear to me. When checking the draft version of TS 33.536, I am unsure how many PC5 unicast security contexts you think of. I see that the initiating UE can establish different PC5 unicast security contexts for each peer UEs during the PC5 unicast link establishment procedure but that is not clear in your proposal and get further confused by the use of “current” later one. If needed, and editor’s note could be added; and

d. I fail to see the concept of “current” PC5 unicast security context at stage 2 level (draft TS 33.536). The introduction of the concept of “current” PC5 unicast security context seems to imply that there is also “non-current” one or? Though existing in EPS and 5GS for NAS security in TS 24.301 and 24.501, I fail to see those two concepts at stage 2 level at this moment in time. Editor’s notes or clarification?

Lena, Wednesday, 5:22

Due to comments from Christian, the NOTE with this “and/or” is gone. I have also made the following additional changes based on his comments:

- Removed “possible” in front of “integrity protection and ciphering of PC5 user-plane data” and added an Editor’s note instead

- Updated wording to remove the use of “current” to avoid giving the impression that the UE maintains multiple security contexts a given PC5 unicast link (there is only one, except for a short time during the re-keying procedure)

A draft revision is available.

Lena, Wednesday, 5:32

A draft revision addressing Christian’s comments is available.

Christian, Thursday, 11:55

I am OK with the draft revision.

**Decision:** The document was **agreed**.

**C1-202109 Introducing new messages for the Link Identifier Update procedure**

*Type: CR For: Agreement  
 24.587 v16.0.0 CR-0006 Cat: F (Rel-16)  
  
 Source: InterDigital Communications*

**Discussion:**

Merged into C1-202186 and its revisions

Tdoc was not available on time

Lena, Friday, 2:34

1) Subclauses to describe when optional IEs are included are missing in clause 7

2) The corresponding procedure in subclause 6.1.2.5 needs to be updated to align with the actual message contents. For instance, subclause 6.1.2.5.2 says the UE shall include “the new security information” in the DIRECT LINK IDENTIFIER UPDATE REQUEST message. It should be replaced with “the MSB of KNRP-sess ID”

3) The LSB of KNRP-sess ID in the DIRECT LINK IDENTIFIER UPDATE ACCEPT message should not be optional, according to TS 33.536 subclause 5.3.3.2.2, the target UE shall include them.

4) The LSB of KNRP-sess ID in the DIRECT LINK IDENTIFIER UPDATE ACK message should not be optional, according to TS 33.536 subclause 5.3.3.2.2, the initiating UE shall include them

5) The definition of the DIRECT LINK IDENTIFIER UPDATE REJECT message is missing

6) Subclause 8.4.1 also needs to be modified

7) Overlaps with vivo’s C1-202186

8) Overlaps with CATT’s C1-202547

Behrouz, Friday, 3:01

Answers to Lena’s comments in red:

1) Subclauses to describe when optional IEs are included are missing in clause 7 [BA: I left them out on purpose as w are awaiting agreements in SA2]

2) The corresponding procedure in subclause 6.1.2.5 needs to be updated to align with the actual message contents. For instance, subclause 6.1.2.5.2 says the UE shall include “the new security information” in the DIRECT LINK IDENTIFIER UPDATE REQUEST message. It should be replaced with “the MSB of KNRP-sess ID” [BA: I know, but those are all defined in my other CR, 2596]

3) The LSB of KNRP-sess ID in the DIRECT LINK IDENTIFIER UPDATE ACCEPT message should not be optional, according to TS 33.536 subclause 5.3.3.2.2, the target UE shall include them. [BA: In fact, I wanted to make it Mandatory, but the ongoing discussions in SA2 seem to make it optional!]

4) The LSB of KNRP-sess ID in the DIRECT LINK IDENTIFIER UPDATE ACK message should not be optional, according to TS 33.536 subclause 5.3.3.2.2, the initiating UE shall include them [BA: Same comment as above]

5) The definition of the DIRECT LINK IDENTIFIER UPDATE REJECT message is missing [BA: See below]

6) Subclause 8.4.1 also needs to be modified [BA: CATT’s CR has it so we can import that from there]

7) Overlaps with vivo’s C1-202186 [BA: Yes, and it seems that Yanchao has defined the Reject message, so we will probably merge at some point. However, there are issues with other messages in her CR. Therefore, I prefer to just incorporate the Reject message from her CR into my revision]

8) Overlaps with CATT’s C1-202547 [BA: Yes, but I have spotted several issues with CATT’s CR and will soon send out my comments!]

Yanchao, Saturday, 10:58

1) The encoding of layer-2 ID is missing

2) The definition of the DIRECT LINK IDENTIFIER UPDATE REJECT message is missing

3) The PC5 signalling message types for the Link Identifier Update procedure are missing in clause 8.4.1

4) What is the reason for adding the following IEs in the link identifier update accept message

 New Source Layer 2 ID

 New Source user info

 New Source Link local IPv6 address

And this paper conflicts with C1-202186 from vivo, which captures more aspects.

Behrouz, Saturday, 21:00

Some of Yanchao’s comments are covered by my answers to Lena. The reject message from Yanchao’s CR can be incorporated in my CR.

Behrouz, Tuesday, 2:48

I am ok to merge this CR into C1-202186 and co-sign the revision.

**Decision:** The document was **merged**.

**C1-202115 Add the missing figure for UE-requested V2X policy provisioning procedure**

*Type: CR For: Approval  
 24.587 v16.0.0 CR-0007 Cat: D (Rel-16)  
  
 Source: OPPO / Rae*

**Decision:** The document was **revised to C1-202639**.

**C1-202639 Add the missing figure for UE-requested V2X policy provisioning procedure**

*Type: CR For: Approval  
 24.587 v16.0.0 CR-0007 rev 1 Cat: D (Rel-16)  
  
 Source: OPPO / Rae*

(Replaces C1-202115)

**Discussion:**

Agreed

Revision of C1-202115

Ivo, Tuesday, 13:52

I am ok with C1-202639. If you revise it again, could you please add Ericsson as co-signer?

Lena, Wednesday, 23:25

I am OK with C1-202639.

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Ivo, Thursday, 13:54

The figure needs to be referenced from the text - e.g. "(see example in figure xxxxx)"

Lena, Friday, 2:36

The changes in the CR are ok but the CR should be Cat F, not Cat D.

Rae, Monday, 5:21

I have taken comments from both Ivo and Lena on board in a draft revision.

Ivo, Monday, 22:53

I suggest to add the reference to the figure in "In order to initiate the UE-requested V2X policy provisioning procedure, the UE shall create a UE POLICY PROVISIONING REQUEST message (see example in figure 5.3.2.2.1)." rather than to the bullet d). Reason: this sentence is start of the procedure.

Chen, Tuesday, 3:51

In the Summary of change of the cover page, “In” -> “in”

Rae, Tuesday, 4:26

I will reflect all the comments in a revision of this CR.

**Decision:** The document was **agreed**.

**C1-202116 L2 ID of target UE used in the direct link establishment request**

*Type: CR For: Approval  
 24.587 v16.0.0 CR-0008 Cat: F (Rel-16)  
  
 Source: OPPO / Rae*

**Discussion:**

Postponed

Ivo, Thursday, 13:54

- "follwoing"

- 6.1.2.2.2 - linkage between bullet 2) and bullets i) and ii) is not clear.

Yanchao, Thursday, 16:09

What is the difference between C-2) and “known via prior V2X communication” in C-1?

Lena, Friday, 2:39

1) Typo in 6.1.2.2.2: “follwoing"

2) In 6.1.2.2.2, I don’t understand the combination of the condition “if the application layer provides the target UE's application layer ID and the link layer identifier for the target UE is valid” followed by bullet i) and ii). This needs to be clarified.

3) In 6.1.2.2.2, “does not expire” should probably be “has not expired”

4) The stage 2 requirement “When unicast Layer-2 ID is used, the Target User Info shall be included in the Direct Communication Request message” quoted in the CR coversheet is not covered in the changes

5) I don’t think the text added in 6.1.2.2.4 adds any value. If the purpose is to mention that the pair of L2 ID for the link can be changed, I suggest just adding “until the pair of layer-2 IDs is changed during a PC5 unicast link identifier update procedure as specified in subclause 6.1.2.5” after “This pair of layer-2 IDs shall be associated with a PC5 unicast link context”.

Rae, Monday, 5:24

I took all comments on board in a draft revision.

Ivo, Monday, 23:00

my comment:

- 6.1.2.2.2 - linkage between bullet 2) and bullets i) and ii) is not clear.

is still not fully addressed.

The revision now refers to "valid" without it being used anywhere.

2) the link layer identifier for the target UE is available to the initiating UE (e.g. via prior V2X communication, or obtained from the application layer). The link layer identifier for the target UE is considered as valid:

i) if the link layer identifier for the target UE is also provided from the upper layers; or

ii) if the validity timer of the link layer identifier for the target UE has not expired;

is the intention to state the following?

2) a valid link layer identifier for the target UE is available to the initiating UE (e.g. via prior V2X communication, or obtained from the application layer). The link layer identifier for the target UE is considered as valid:

i) if the link layer identifier for the target UE is also provided from the upper layers; or

ii) if the validity timer of the link layer identifier for the target UE has not expired;

and use "valid" also in later text?

After the DIRECT LINK ESTABLISHMENT REQUEST message is generated, the initiating UE shall pass this message to the lower layers for transmission along with the initiating UE's Layer 2 ID for unicast communication and either the destination layer 2 ID used for unicast initial signaling or the valid target UE's destination layer 2 ID, and start timer T5000. The UE shall not send a new DIRECT LINK ESTABLISHMENT REQUEST message to the same target UE identified by the same application layer ID while timer T5000 is running.

Chen, Tuesday, 4:31

- There is no need to add a valid timer for the destination layer 2 ID. If the destination layer 2 ID is not valid, the direct communication would not be established and it is difficult to get the validity timer of the link layer identifier for the UE. And it conflicts the clause 6.1.2.5 PC5 unicast link identifier update procedure, the Layer 2 ID can be changed at any time based on the application layer.

- There are confusions between c)1) and c)2):

The current specification statement “the link layer identifier for the unicast initial signaling (i.e. destination layer 2 ID used for unicast initial signaling) is available to the initiating UE (e.g. pre-configured, obtained as specified in clause 5.2.3 or known via prior V2X communication)”

has included what the bullet c)2) states “the link layer identifier for the target UE is available to the initiating UE (e.g. via prior V2X communication, or obtained from the application layer)”.

And in my understanding, “available” means the link layer identifier is already valid at least the initiating UE supposed.

- There is no need to add the words in this bullet c) : may include the target user info set to the target UE’s application layer ID if received from upper layers or shall include the the target user info set to the target UE’s application layer ID if received from upper layers and the link layer identifier for the target UE is used; please see C1-202316

- About the last changes, I do share the same view with Lena that I don’t think the text added in 6.1.2.2.4 adds any value even if adding the words Lena suggested, which should not appear in the link establishment procedure.

Rae, Tuesday, 5:16

About Chen’s comments:

- I think checking the L2 ID is valid or not by the initiating UE is useful under the case that “the link layer identifier for the target UE is available to the initiating UE (e.g. via prior V2X communication”.

In the case, it is possible that the stored L2 ID has been abandoned or not valid in the perspective of the target UE while the initiating UE has no idea. If the initiating UE still uses the invalid L2 ID, the link establishment will fail. In my understanding, this also align with the intention of designing the PC5 unicast link identifier update procedure. And maybe the timer of updating L2 ID can be reused here. In addition, checking the L2 ID does not conflict with the PC5 unicast link identifier update procedure because this checking happens when UE wants to establish a new PC5 link with the same target UE.

- in my understanding, “available” just means the L2 ID is stored in the initiating UE while “valid” means the L2 ID can be used

- OK to not touch this bullet.

- for this change, I do not have a strong position. I just think the existing “onward” will give a view that L2 ID will not change. But if people think the change is not needed. I can live with not touching this subclause.

Rae, Tuesday, 5:30

I will take Ivo’s suggestions on board.

Chen, Tuesday, 6:04

- It is very difficult to get the validity timer of the layer 2 ID for the UE due to the privacy policy, and there is even no validity timer of the Layer-2 ID, according to clause 6.1.2.5.2.the upper layer can change the layer 2 ID at any time, quote:

- There is not this validity timer in TS 23.287.

- More comments inline.

Rae, Tuesday, 8:55

I agree that if the L2 ID for target UE is not valid, the initiating UE will delete this L2 ID. But I think the issue is still there if the storage of the L2 ID on peer UEs does not match, which results the initiating UE cannot receive the response from the target UE and the establishment will be delayed. So I propose an FFS:

Editor's note: how long the initiating UE stores the link layer identifier for target UE obtained via prior V2X communication is FFS.

In my understanding, the existing L2 ID is associated with the unicast initial signaling and may associated with V2X service(s), but not with a specific UE. For the green highlighted part, the cases that the initiating UE gets the L2 ID for target UE is different from the cases for the existing LS ID. So the green highlighted is needed. If you still think it is confused, some suggested wording is very welcomed.

Chen, Tuesday, 9:19

- The Main problem is, adding the validity timer will destroy the privacy of the target UE, since stage 2 states the Layer 2 ID shall be changed over time so that the UE cannot be tracked. And there is no requirement for the validity timer in Stage 2.

- destination layer 2 ID used for unicast initial signaling has included the link layer identifier for the target UE.

Rae, Tuesday, 9:52

- For getting the L2 ID via prior communication, please note not for the existing communication, it is useful to specify how long the initiating UE stores the L2 ID. It does not destroy the privacy of the target UE and not impact the link identifier update procedure. Every time the initiating UE gets the new L2 ID, the timer will be reset. After the link is released and a new link is to be established, the target UE following the privacy may have deleted the L2 ID. In this case, the initiating UE cannot find the target UE when it still uses the stored L2 ID.

- It depends on how to understand “destination layer 2 ID used for unicast initial signaling”. I think there is no harm to make things (i.e. two kinds of L2 IDs) clear. This also aligns with stage 2.

Chen, Tuesday, 10:05

- Initiating UE can find the target UE during the valid time even if the unicast link is not needed. And the validity timer should not be added because there is no requirement in stage 2.

- TS 23.287 states explicitly on the destination layer 2 ID used for unicast initial signaling, quote clause 5.6.1.4:

The initial signalling for the establishment of the PC5 unicast link may use the known Layer-2 ID of the communication peer, or a default destination Layer-2 ID associated with the V2X service type (e.g. PSID/ITS-AID) configured for PC5 unicast link establishment, as specified in clause 5.1.2.1

Lena, Wednesday, 23:37

The draft revision you provided addressed my comments, but I have the same concerns as Chen about the introduction of this link layer identifier validity timer. I would be ok with an Editor’s note instead.

Chen, Thursday, 3:12

I would NOT be OK even if with an editor’s note.

Rae, Thursday, 3:48

I think Xiaoguang also thinks that there is no need touching the existing “destination layer 2 ID used for unicast initial signaling” since it already covers the case using the L2 ID of target UE.

If people also think same, I will postpone this CR.

**Decision:** The document was **postponed**.

**C1-202117 Non-standadized QoS characteristics over PC5-S**

*Type: CR For: Approval  
 24.587 v16.0.0 CR-0009 Cat: F (Rel-16)  
  
 Source: OPPO / Rae*

**Decision:** The document was **revised to C1-202704**.

**C1-202704 Non-standadized QoS characteristics over PC5-S**

*Type: CR For: Approval  
 24.587 v16.0.0 CR-0009 rev 1 Cat: F (Rel-16)  
  
 Source: OPPO / Rae*

(Replaces C1-202117)

**Discussion:**

Agreed

Revision of C1-202117

Lena, Thursday, 1:08

I am OK with C1-202704.

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SangMin, Friday, 5:27

Intent of the CR is okay, but Default averaging window (0DH, newly added) and Averaging window (06H, existing) seem redundant, so default averaging window seems not needed to be added.

I also think that some spare values would be beneficial.

Also what is the reason for removing the following text?

The network shall consider all other values not explicitly defined in this version of the protocol as unsupported.

Lena, Sunday, 20:05

For the Resource type and Default priority level, it would be beneficial to make some of the unused code points spare, instead of making them all reserved (just in case new Resource types or Default priority levels are defined in future releases).

Rae, Monday, 4:07

@Lena

I will change “Reserved” to “Spare” except the value "00000000”.

@Sangmin

I will remove the “Default averaging window”.

For the removed sentence, since the parameters are transmitted over PC5-S, then there is no “network”.

After a second thinking, how about changing “network” to “UE”?

Chen, Tuesday, 4:49

In principle, it aligns with the PC5 QoS characteristics defined by TS 23.287 so it is needed. But I do not understand the removal of "The network shall consider all other values not explicitly defined in this version of the protocol as unsupported".

Rae, Tuesday, 4:53

For the removed sentence, since the parameters are transmitted over PC5-S, then there is no “network”.

After a second thinking, how about changing “network” to “UE”?

Rae, Wednesday, 4:10

A draft revision is available. Changes:

- Change “Reserved” to “Spare” except the value "00000000”

- Remove default averaging window;

- "The network UE shall consider all other values not explicitly defined in this version of the protocol as unsupported".

- Change the value of new parameters to align with the revision of C1-202118 where some values are removed.

SangMin, Wednesday, 5:24

This revision addresses my previous comment on averaging window. And also not I understand the reason for removing texts, and I agree to replace “network” to “UE”. SO I’m okay with this draft revision.

**Decision:** The document was **agreed**.

**C1-202118 Remove FFS on GFBR and MFBR for UL and DL**

*Type: CR For: Approval  
 24.587 v16.0.0 CR-0010 Cat: F (Rel-16)  
  
 Source: OPPO / Rae*

**Decision:** The document was **revised to C1-202703**.

**C1-202703 Remove FFS on GFBR and MFBR for UL and DL**

*Type: CR For: Approval  
 24.587 v16.0.0 CR-0010 rev 1 Cat: F (Rel-16)  
  
 Source: OPPO / Rae*

(Replaces C1-202118)

**Decision:** The document was **revised to C1-202867**.

**C1-202867 Remove FFS on GFBR and MFBR for UL and DL**

*Type: CR For: Approval  
 24.587 v16.0.0 CR-0010 rev 2 Cat: F (Rel-16)  
  
 Source: OPPO / Rae*

(Replaces C1-202703)

**Discussion:**

Agreed

Revision of C1-202703

Rae: change in revision consists of changing the NOTE to “The GFBR and MFBR apply to both directions of the PC5 unicast link”.

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Revision of C1-202118

Lena, Wednesday, 23:43

In the NOTE, “The GFBR and MFBR apply to both uplink and downlink” does not make sense because there is no uplink or downlink for PC5. I suggest instead “The GFBR and MFBR apply to both directions of the PC5 link”.

Rae, Thursday, 3:32

Thanks for the suggested wording.

I propose to change it a little to “The GFBR and MFBR apply to both directions of the PC5 unicast link”. Whether it is OK for you?

Lena, Thursday, 4:44

Yes, it is OK for me.

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Ivo, Thursday, 13:54

Sending the same value twice is waste of radio resources.

Lena, Friday, 2:43

We don’t think it makes sense to keep two values ie one value for UL and one value for DL, given that this is PC5 (no UL/DL, only SL). One singe value is sufficient.

Rae, Monday, 5:26

I have no strong view on whether use GFBR and MFBR for UL and DL separately. If the majority agree to use one value for both UL and DL, I am also OK. A draft revision is available.

Ivo, Monday, 23:03

Nearly OK: the reason for change needs to be aligned with the changes. Please add Ericsson as co-signer.

Chen, Tuesday, 4:54

Cover sheet not good enough as the reason for change fails to quote the stage 2 requirements which are in fact crystal clear, quote "For PC5 communication, the same GFBR and MFBR are used for both directions.". Then, the removal of the editor's notes only is not sufficient. Either we have only one code point for GFBR and another one for MFBR or we keep two for each (uplink and downlink) BUT it has to be specified that the value of uplink and downlink shall be the same in this version of the protocol.

Rae, Tuesday, 5:26

A draft revision addressing Chen’s comments is available. I will also update the change.

Chen, Thursday, 5:30

I’m OK with adding the stage 2 requirements in the coversheet in next revision.

**Decision:** The document was **agreed**.

**C1-202119 Group size and menber ID from application layer for groupcast**

*Type: CR For: Approval  
 24.587 v16.0.0 CR-0011 Cat: F (Rel-16)  
  
 Source: OPPO / Rae*

**Decision:** The document was **revised to C1-202708**.

**C1-202708 Group size and menber ID from application layer for groupcast**

*Type: CR For: Approval  
 24.587 v16.0.0 CR-0011 rev 1 Cat: F (Rel-16)  
  
 Source: OPPO / Rae*

(Replaces C1-202119)

**Discussion:**

Agreed

Revision of C1-202119

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Ivo, Thursday, 16:39

- "optianl" -> "optional"

- "optianlly" -> "optionally "

- "whichi" -> "which"

Lena, Friday, 2:47

1) Stage 2 says “NOTE: The mechanism for converting the V2X application layer provided group identifier to the destination Layer-2 ID is defined in Stage 3” but subclause 6.1.4.2.1.2 does not address that. It says “if group identifier information is provided and there is no context for the group identifier information, then UE shall use the destination layer-2 ID as specified in clause 6.1.4.2.1” but there is not text in subclause 6.1.4.2.1 (subclause 6.1.4.2.1 is just a header for subclauses 6.1.4.2.1.1 and 6.2.4.2.1.2). How does the UE determine the destination layer 2 ID if there is no context for the group identifier information?

2) Typo in 6.1.4.2.1.1: “optianlly”

3) Typo in 6.1.4.2.1.2: “optianl”

4) Overlaps with vivo’s C1-202190

Chen, Friday, 9:55

“the request from the upper layers may include” overlaps with “which is optionally provided in the request from upper layers” in the sub-bullet;

Rae, Monday, 5:33

I took all comments on board in a draft revision. For the first comment from Lena, for the case “if group identifier information is provided and there is no context for the group identifier information”,

I think the v2x service identifier with L2 ID mapping rule should be used.

Lena, Wednesday, 23:55

I have the following issue with the draft revision:

the UE just uses the destination layer-2 ID corresponding to the V2X service identifier, even if group identifier info is provided, which does not seem right. It is also not aligned with stage 2 which says: “OTE: The mechanism for converting the V2X application layer provided group identifier to the destination Layer-2 ID is defined in Stage 3”. So the expectation is that in stage 3, we will define some way for the UE to derive a destination layer-2 ID based on the group identifier information. This is current missing from stage 3. To resolve this, I propose to delete bullet 3) and replace it by the following Editor’s note: “Editor’s note: If group identifier information is provided and there is no context for the group identifier information, how the UE determines the destination layer-2 ID based on the group identifier information is FFS.”

Rae, Thursday, 3:25

For the case in bullet 3), for now, I think UE has no choice but to use the L2 ID associated with a v2x service if there is no group identifier related context.

But I am fine to remove this bullet and add the EN if people are also OK, as touching bullet 3) is not the intention of this CR. This CR aims to add the missing Group size and member ID.

Another option is that we leave the bullet 3) as it is and the interested companies send a CR to the next meeting.

Lena, Thursday, 4:44

My preference is to remove bullet 3) and add the EN.

Rae, Thursday 11:12

In the uploaded version of the revision, I have added the EN.

**Decision:** The document was **agreed**.

**C1-202159 Introducing NR PC5 functionality for EPC**

*Type: discussion For: (not specified)  
 Source: LG Electronics / SangMin*

**Decision:** The document was **noted**.

**C1-202160 Introducing V2X communications over NR PC5 in EPC**

*Type: CR For: (not specified)  
 24.386 v15.2.0 CR-0024 Cat: B (Rel-16)  
  
 Source: LG Electronics / SangMin*

**Decision:** The document was **revised to C1-202748**.

**C1-202748 Introducing V2X communications over NR PC5 in EPC**

*Type: CR For: -  
 24.386 v15.2.0 CR-0024 rev 1 Cat: B (Rel-16)  
  
 Source: LG Electronics / SangMin*

(Replaces C1-202160)

**Discussion:**

Agreed

Revision of C1-202160

Vishnu, Thursday, 13:29

We are fine with C1-202748. If possible Huawei, HiSilicon would like to co-sign it.

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Lena, Friday, 2:49

1) About the terminology, TS 24.587 defined “NR-PC5” but also uses “NR based PC5”, while TS 23.287 uses “NR PC5”. To be consistent it would be good to use what is defined in TS 24.587 ie “NR-PC5”

2) Typo in clause 1: “speicifies”

3) In clause 1, rather than adding a paragraph below the bulleted list, why not just modify the existing bullet on PC5, as in “for V2X communication among the UEs (over the LTE PC5 interface and over the NR PC5 interface)”?

4) In 5.2.4, “and” the end of bullet j) should be deleted and the “.” at the end of bullet h) should be replaced by a “;”

5) In 5.2.4 bullet l), “for a V2X communication” should be “for V2X communication”

SangMin, Monday, 10:00

1) -> OK

2) -> OK

3) -> OK

4) -> the last comment seems to be on bullet k). Anyhow, I fixed all the editorial errors on bullets in 5.2.4.

5) -> OK

A draft revision is available.

SangMin, Wednesday, 10:33

Updated draft revision is available. Changes:

- Proposed to use the terminology "NR-PC5" for the consistency

- In clause 1, modified existing bullets for specifying the scope of NR-PC5 instead of adding new paragraph.

- Bullet 7) in clause 5.2.4 is aligned with the change proposed in CR0012 against TS 24.587.

- Fixed vaious editorial errors

Lena, Wednesday, 23:58

I am OK with the draft revision.

**Decision:** The document was **agreed**.

**C1-202161 V2X MO update for V2X over NR PC5**

*Type: CR For: (not specified)  
 24.385 v16.0.0 CR-0021 Cat: B (Rel-16)  
  
 Source: LG Electronics / SangMin*

**Decision:** The document was **revised to C1-202756**.

**C1-202756 V2X MO update for V2X over NR PC5**

*Type: CR For: -  
 24.385 v16.0.0 CR-0021 rev 1 Cat: B (Rel-16)  
  
 Source: LG Electronics / SangMin*

(Replaces C1-202161)

**Discussion:**

Agreed

Revision of C1-202161

Vishnu, Thursday, 13:21

Could you add Huawei, HiSilicon as co-signers?

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Lena, Friday, 2:50

1) The DDF needs to be updated.

2) About the terminology, TS 24.587 defined “NR-PC5” but also uses “NR based PC5”, while TS 23.287 uses “NR PC5”. To be consistent it would be good to use what is defined in TS 24.587 ie “NR-PC5”

Rae, Friday, 7:59

I Suggest changing “UnicastDestinationLayer2ID”->“UnicastInitialSignallingDestinationLayer2ID”to avoid misunderstanding

SangMin, Friday, 11:26

To Lena: regarding the DDF, the ddfclient tool didn’t work so I could not finish the xml coding in time. If if it is okay, I would like to submit the ddf update in the next meeting, based on the agreements of each nodes in this meeting. At least it should be clear on each parameters, nodes and their hierarchy in order to avoid re-writing the code. 

Regarding the wording issue, I think “NR-PC5” seems to be a good way forward. So I’ll update all related papers with the terminology “NR-PC5” in the revisions (I’ll provide the draft after gathering some more comments).

SangMin, Friday, 11:28

To Rae: changing the name of the node is okay for us. I’ll update it in the revision

Lena, Saturday, 0:24

SangMin’s proposal to address my comments is ok.

SangMin, Monday, 10:32

A draft revision is available taking all comments from Rae and lena onboard.

**Decision:** The document was **agreed**.

**C1-202162 Indicating support of V2X over NR-PC5**

*Type: CR For: (not specified)  
 24.301 v16.4.0 CR-3344 Cat: B (Rel-16)  
  
 Source: LG Electronics / SangMin*

**Decision:** The document was **revised to C1-202757**.

**C1-202757 Indicating support of V2X over NR-PC5**

*Type: CR For: -  
 24.301 v16.4.0 CR-3344 rev 1 Cat: B (Rel-16)  
  
 Source: LG Electronics / SangMin*

(Replaces C1-202162)

**Discussion:**

Agreed

Revision of C1-202162

Vishnu, Thursday, 13:30

As Chen indicated we are fine with the CR. If possible Huawei, HiSilicon would like to co-sign it.

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Lena, Friday, 2:51

About the terminology, TS 24.587 defined “NR-PC5” but also uses “NR based PC5”, while TS 23.287 uses “NR PC5”. To be consistent it would be good to use what is defined in TS 24.587 ie “NR-PC5”.

SangMin, Monday, 10:38

I’m fine with using “NR-PC5” for consistency. A draft revision is available.

Chen, Tuesday, 8:45

There seems to be confusion between the new added V2X NR-PC5 and the current V2X PC5. In my understanding, V2X PC5 is general and includes E-UTRAN PC5 and NR PC5.

SangMin, Tuesday, 8:58

Changing an existing terminology “V2X PC5” to “E-UTRAN PC5” or “LTE PC5” would bring more confusion since it has been there since Rel-13.

How about adding a definition for “V2X PC5” saying such as “V2X PC5 in this specification only refers V2X communication over LTE-PC5 interface,” or similar things?

SangMin, Wednesday, 10:27

A draft revision is available. Change:

- cleaned up the use of “NR-PC5” terminology.

- clarified the condition of indicating “V2X PC5 bit” by adding “E-UTRA-“ to the condition and the descriptions of values. As I said changing the name of the bit is not desirable so the name of the bit is still “V2X PC5 bit”.

Lena, Thursday, 0:01

I am OK with the draft revision.

Chen, Thursday, 5:04

I am OK with the draft revision.

**Decision:** The document was **agreed**.

**C1-202163 Clarifications on configuration parameters for the PC5 QoS profile**

*Type: CR For: (not specified)  
 24.587 v16.0.0 CR-0012 Cat: F (Rel-16)  
  
 Source: LG Electronics / SangMin*

**Decision:** The document was **revised to C1-202758**.

**C1-202758 Clarifications on configuration parameters for the PC5 QoS profile**

*Type: CR For: -  
 24.587 v16.0.0 CR-0012 rev 1 Cat: F (Rel-16)  
  
 Source: LG Electronics / SangMin*

(Replaces C1-202163)

**Discussion:**

Agreed

Revision of C1-202163

Vishnu, Thursday, 13:31

We are fine with C1-202758. If possible Huawei, HiSilicon would like to co-sign it.

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Yanchao, Thursday, 16:12

The following change is strange, should the default value be used as last?

v) the PC5 QoS profile can contain the priority level, the averaging window, and/or the maximum data burst volume if the default value for the corresponding parameter is not used

Ivo, Thursday, 18:05

Bullet 7) - NOT OK to add "e.g." in "an AS configuration, e.g. a list of SLRB mapping rules" - adding "e.g." is OK for stage-2 but 24.587 is a stage-3 specification and we need to be precise what the AS configuration consists of.

Lena, Friday, 2:55

The text in bullet v) of 5.2.3 seems ok as it is, the change is not needed.

SangMin, Tuesday, 8:05

I’m not sure if I understand Yanchao’s concerns correctly. You are right that the default value should be used at last but it depends on the NW policy. If the NW decided to use the default value, these parameter values will not be included in this PC5 QoS profile. If the NW decided not to use them, then the values will be included. So the condition “if the default value for the corresponding parameter is not used” indicates when the NW should include these values. I hope this answers to your concerns.

SangMin, Tuesday, 8:07

Ivo are you okay if I update the change bullet 7 using “including” instead of “e.g.”?

7) an AS configuration, including a list of SLRB mapping rules applicable when the UE is not served by E-UTRA and is not served by NR. Each SLRB mapping rule contains a PC5 QoS profile and an SLRB. The PC5 QoS profile contains the following parameters:

SangMin, Tuesday, 8:17

To Lena:

1) about the first and second changes in the reason for change (regarding PC5 Link Aggregated Bit Rates and Range), there is no limitation described in TS 24.587 that these parameters should be only used in specific communication mode. Clause 5.2.3 is the only place where range and PC5 Link Aggregated Bit Rates is mentioned. So if we don’t describe any limitation in stage 3, the readers will assume that these parameters can be used regardless of the communication mode.

2) about the third change, as I responded to Yanchao, this is a condition to include these parameters in PC5 QoS profile by the network, so without this, stage 3 will be incomplete.

3) currently the AS configuration only has “SLRB mapping rules”, so the change might not be needed as is. However, SA2 updated the terminology for future use, so I guess using more generic name where other AS parameter than SLRB rule can be added in the future would be more beneficial and futureproof

Ivo, Tuesday, 8:57

Yes, this would address my comments.

Christian, Tuesday, 17:11

Can you please consider converting the new text you propose to add, quote “, which is only used for unicast mode communications over PC5” to a NOTE?

Lena, Tuesday, 22:45

I only commented on the last change in the CR (to bullet v)). I have no problem with the other changes in the CR.

About the change to bullet v), I basically see no difference between the existing text, and what you are proposing, plus I think the existing text is clearer. It already says that if the PC5 QoS profile does not contain a value for certain parameters, the default value is used. What more is needed?

SangMin, Wednesday, 8:55

To Christian: OK to convert the quoted text into a NOTE, i.e.

NOTE: PC5 Link Aggregated Bit Rate is only used for unicast mode communications over PC5

SangMin, Wednesday, 9:09

To Lena: I still believe that current text is not clear. However since you (and also Yanchao) are not so happy about the proposed change in bullet v), I can live without the change. So I will remove the change. A draft revision is available.

**Decision:** The document was **agreed**.

**C1-202164 Clarifications on the V2X policies regarding QoS**

*Type: CR For: (not specified)  
 24.588 v16.0.0 CR-0002 Cat: F (Rel-16)  
  
 Source: LG Electronics / SangMin*

**Decision:** The document was **revised to C1-202760**.

**C1-202760 Clarifications on the V2X policies regarding QoS**

*Type: CR For: -  
 24.588 v16.0.0 CR-0002 rev 1 Cat: F (Rel-16)  
  
 Source: LG Electronics / SangMin*

(Replaces C1-202164)

**Discussion:**

Agreed

Revision of C1-202164

Vishnu, Thursday, 13:32

We are fine with C1-202760. If possible Huawei, HiSilicon would like to co-sign it.

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Ivo, Thursday, 18:05

Not aligned with C1-202163 which still refers to "SLRB mapping rules". Either keep "SLRB mapping rules" here or align C1-202163 to refer to "AS configuration mapping rules"

SangMin, Tuesday, 8:21

To Ivo: if C1-202163 cannot survive, then I have to revert the “SLRB” related changes and only an editorial fix will remain. But anyhow I’ll align the terminologies in two CRs in the revision.

Sang Min, Wednesday, 9:35

I found the reason for the inconsistency in terminology. I see 2 options: 1) reverting changes on “SLRB mapping rule” from this CR and leaving it as is, or 2) changing the structure of SLRB mapping rules to be nested in new intermediate clause for “AS configuration”. Which one is preferred?

Ivo, Wednesday, 23:52

Technically, both of the below is possible. The 2nd option is better aligned with the last revision of C1-202164.

SangMin, Thursday, 8:10

A draft revision is available. I reverted original changes, and added new “AS configuration” parameter instead of SLRB mapping rules in the config. parameter for PC5. SLRB mapping rules parameter is nested in AS configuration. Also I updated octet number accordingly.

Also the CR in C1-202756 (was C1-202161) on NAS MO will be updated aligning with this CR.

Ivo, Thursday, 10:16

I am OK with the draft revision and Ericsson would like to co-sign.

**Decision:** The document was **agreed**.

**C1-202165 Update to the V2X policies regarding RAN parameters**

*Type: CR For: (not specified)  
 24.588 v16.0.0 CR-0003 Cat: B (Rel-16)  
  
 Source: LG Electronics / SangMin*

**Decision:** The document was **agreed**.

**C1-202181 Handling of link establishment accept**

*Type: CR For: Approval  
 24.587 v16.0.0 CR-0013 Cat: F (Rel-16)  
  
 Source: vivo*

**Decision:** The document was **revised to C1-202738**.

**C1-202738 Handling of link establishment accept**

*Type: CR For: Approval  
 24.587 v16.0.0 CR-0013 rev 1 Cat: F (Rel-16)  
  
 Source: vivo*

(Replaces C1-202181)

**Decision:** The document was **revised to C1-202908**.

**C1-202908 Handling of link establishment accept**

*Type: CR For: Approval  
 24.587 v16.0.0 CR-0013 rev 2 Cat: F (Rel-16)  
  
 Source: vivo*

(Replaces C1-202738)

**Discussion:**

Agreed

Revision of C1-202738

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Revision of C1-202181

Ivo, Wednesday, 20:34

C1-202738 look ok. If you happen to make a revision, can you please indicate Ericsson as cosigner?

Lena, Thursday, 1:26

I am OK with C1-202738.

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Ivo, Thursday, 18:05

- 6.1.2.2.3 - storage of this assigned layer-2 ID and the source layer 2 ID used in the transport of this message provided by the lower layers in the PC5 unicast link context, should be normative.

- 6.1.2.2.4 - the source layer-2 ID and the destination Layer-2 ID used in the transport of this message provided by the lower layers, should be normative.

Lena, Friday, 2:54

1) Some overlap with the changes in C1-202140 in subclause 6.1.2.2.3

2) The changes to 6.1.2.2.3 in the CR miss mentioning that the UE passes the DIRECT LINK ESTABSLISHMENT ACCEPT message to the lower layers for transmission (which is covered in C1-202140, see “After the DIRECT LINK ESTABLISHMENT ACCEPT message is generated, the initiating UE shall pass this message to the lower layers for transmission along with the initiating UE's layer 2 ID for unicast communication, the target UE's layer 2 ID for unicast communication and an indication that the PC5 signalling message is protected”)

3) The changes in 6.1.2.2.3 have the UE pass the source and destination L2 ID to the lower layers “after sending the DIRECT LINK ESTABSLISHMENT ACCEPT message”. This is not ok, the lower layers need this info along with the message itself, to be able to send it

4) In 6.1.2.2.4, “After receiving the DIRECT LINK ESTABLISHMENT ACCEPT message, the target UE” should be “After receiving the DIRECT LINK ESTABLISHMENT ACCEPT message, the initiating UE”

5) Bullet c) in 6.1.2.2.4 is not needed, the source and destination layer 2 ID pair is already known to the lower layers from the time the initiating UE send the DIRECT LINK AUTHENICATION RESPONSE message or the DIRECT LINK SECURITY MODE COMPLETE message.

Behrouz, Friday, 3:44

Please see my comments below. The Green text is from your CR and the Blue is my comment.

6.1.2.2.3 PC5 unicast link establishment procedure accepted by the target UE

Upon receipt of a DIRECT LINK ESTABLISHMENT REQUEST message, if the target UE accepts this request, it [Change to “the target UE”] shall uniquely assign a PC5 unicast link identifier, create a PC5 unicast link context [What are these two?] and assign a layer-2 ID for this PC5 unicast link. Then the target UE stores this assigned layer-2 ID and the source layer 2 ID used in the transport of this message provided by the lower layers in the PC5 unicast link context. This pair of layer-2 IDs is associated with a PC5 unicast link context.

Yanchao, Tuesday, 4:58

I have changed “the UE does xx” to “the UE shall do” based on Ivo’s comments. A draft revision is available.

Yanchao, Tuesday, 5:03

I have taken onboard Lena’s comments. A draft revision is available.

Chen, Tuesday, 5:19

- The CR should be Cat B, not F.

- In the Summary of change, wording "accpets" -> "accepts";

- In clause 6.1.2.2.3, the title has indicated the target UE accepts this request, therefore there is no need to add the sentence "if the target UE accepts this request";

- As clause 6.1.2.5 described the unicast link identifier for unicast, which conceptually conflicts with the unicast link identifier proposed by the CR;

- The current specification has already the indication in clause 6.1.2.2.4 "with a PC5 unicast link context";

- In TS23.287 clause 6.3.3.1 bullet 5, there are no PQFI(s) and its corresponding PC5 QoS parameters from the V2X layer to the AS layer in the PC5 unicast link establishment procedure, quote:

The V2X layer of the UE that established PC5 unicast link passes the PC5 Link Identifier assigned for the unicast link and the PC5 unicast link related information down to the AS layer. The PC5 unicast link related information includes Layer-2 ID information (i.e. source Layer-2 ID and destination Layer-2 ID). This enables the AS layer to maintain the PC5 Link Identifier together with the PC5 unicast link related information.

- It seems to conflict with existing requirements under thePC5 unicast link identifier update procedure (i.e., .PC5 unicast link identifier update procedure (6.1.2.5.4) where is stated, quote

Yanchao, Tuesday, 15:25

A draft revision with the following changes is available:

- it is changed to “the target UE”,done;

- “PC5 unicast link context” is changed to “PC5 link context”

Yanchao, Tuesday, 15:35

To Chen: a draft revision is available. I did not take onboard the following comments:

- I don’t agree CR should be Cat B, this CR just propose correction to existing procedure, not add a new feature

- About “no need to add the sentence "if the target UE accepts this request";”, that is the common for stage 3 specification. If you check TS24.587 and TS24.501, you will find dozens of instances in the accept subclause, which specifies”if the UE/NW accepts…… , the UE/NW shall do

- About “no PQFI(s) and its corresponding PC5 QoS parameters from the V2X layer to the AS layer in the PC5 unicast link establishment procedure”, see requirements in 23.287

- About “conflict with existing requirements under thePC5 unicast link identifier update procedure”, there is no conflict, the paper propose changes to the PC5 unicast link establishment procedure, not the PC5 unicast link establishment [should be identifier update instead?] procedure

Behrouz, Tuesday, 15:42

The revision looks ok and InterDigital would like to co-sign.

**Decision:** The document was **agreed**.

**C1-202182 Handling of link modification accept**

*Type: CR For: Approval  
 24.587 v16.0.0 CR-0014 Cat: F (Rel-16)  
  
 Source: vivo*

**Decision:** The document was **revised to C1-202739**.

**C1-202739 Handling of link modification accept**

*Type: CR For: Approval  
 24.587 v16.0.0 CR-0014 rev 1 Cat: F (Rel-16)  
  
 Source: vivo*

(Replaces C1-202182)

**Discussion:**

Agreed

Revision of C1-202182

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Chen, Tuesday, 8:31

It is true that NAS needs to pass some information to AS when sending messages but I fail to understand why new paragraphs are added under clause 6.1.2.3.3. A new sentence needs to be added to the existing paragraph saying "The target UE shall provide the <xx> to lower layers". Having said that, I do not understand why the PC5 unicast link identifier(s) needs to be provided during PC5 unicast link modification procedure to lower layers as there is procedure for it defined, i.e., PC5 unicast link identifier update procedure. Also, note that in that procedure already are requirements of passing information to AS.

Yanchao, Tuesday, 15:48

I can’t understand Chen’s comment. The paper is for PC5 link modification accept procedure, what he refers to is a different procedure. The PC5 QoS parameters are changed via the PC5 link modification accept procedure, shouldn’t the UE provide the added or modified PQFI(s) and corresponding PC5 QoS parameters to the lower layer. Please note that it is the PQFI(s) and corresponding PC5 QoS parameters provided to the lower layer, “provide xx along with PC5 link identifier” is just to identify which PC5 link that xx is related to.

Chen, Wednesday, 4:25

I suggest to be aligned with TS 23.287, using “PC5 Link Identifier” with the first letter capitalized.

Yanchao, Wednesday, 5:54

I check TS24.587, “PC5 link identifier” is used in subclause 6.1.2.9 without the first letter capitalized. Also please check Huawei’s paper C1-202453, wherein it changes “Layer-2 ID” to “layer-2 ID”.

Chen, Wednesday, 6:06

OK with me. Please make sure these words aligned in all your related contributions, e.g., C1-202181, C1-202188, and etc.

**Decision:** The document was **agreed**.

**C1-202183 ENs resolving in modification pocedure**

*Type: CR For: Approval  
 24.587 v16.0.0 CR-0015 Cat: F (Rel-16)  
  
 Source: vivo*

**Decision:** The document was **revised to C1-202740**.

**C1-202740 ENs resolving in modification pocedure**

*Type: CR For: Approval  
 24.587 v16.0.0 CR-0015 rev 1 Cat: F (Rel-16)  
  
 Source: vivo*

(Replaces C1-202183)

**Decision:** The document was **revised to C1-202898,C1-202909**.

**C1-202898 ENs resolving in modification pocedure**

*Type: CR For: Approval  
 24.587 v16.0.0 CR-0015 rev 2 Cat: F (Rel-16)  
  
 Source: vivo*

(Replaces C1-202740)

**Decision:** The document was **withdrawn**.

**C1-202909 ENs resolving in modification pocedure**

*Type: CR For: Approval  
 24.587 v16.0.0 CR-0015 rev 3 Cat: F (Rel-16)  
  
 Source: vivo*

(Replaces C1-202740)

**Decision:** The document was **revised to C1-202913**.

**C1-202913 ENs resolving in modification pocedure**

*Type: CR For: Approval  
 24.587 v16.0.0 CR-0015 rev 4 Cat: F (Rel-16)  
  
 Source: vivo*

(Replaces C1-202909)

**Decision:** The document was **agreed**.

**C1-202184 Updates to link release procedure**

*Type: CR For: Approval  
 24.587 v16.0.0 CR-0016 Cat: F (Rel-16)  
  
 Source: vivo*

**Decision:** The document was **revised to C1-202741**.

**C1-202741 Updates to link release procedure**

*Type: CR For: Approval  
 24.587 v16.0.0 CR-0016 rev 1 Cat: F (Rel-16)  
  
 Source: vivo*

(Replaces C1-202184)

**Decision:** The document was **agreed**.

**C1-202185 Correction of the timers of link identifier update procedure**

*Type: CR For: Approval  
 24.587 v16.0.0 CR-0017 Cat: F (Rel-16)  
  
 Source: vivo*

**Decision:** The document was **revised to C1-202742**.

**C1-202742 Correction of the timers of link identifier update procedure**

*Type: CR For: Approval  
 24.587 v16.0.0 CR-0017 rev 1 Cat: F (Rel-16)  
  
 Source: vivo*

(Replaces C1-202185)

**Decision:** The document was **agreed**.

**C1-202186 Encoding of link identifier update messages and parameters**

*Type: CR For: Approval  
 24.587 v16.0.0 CR-0018 Cat: F (Rel-16)  
  
 Source: vivo*

**Decision:** The document was **revised to C1-202743**.

**C1-202743 Encoding of link identifier update messages and parameters**

*Type: CR For: Approval  
 24.587 v16.0.0 CR-0018 rev 1 Cat: F (Rel-16)  
  
 Source: vivo*

(Replaces C1-202186)

**Decision:** The document was **agreed**.

**C1-202187 Handling of link identifier update not accept**

*Type: CR For: Approval  
 24.587 v16.0.0 CR-0019 Cat: F (Rel-16)  
  
 Source: vivo*

**Decision:** The document was **revised to C1-202744**.

**C1-202744 Handling of link identifier update not accept**

*Type: CR For: Approval  
 24.587 v16.0.0 CR-0019 rev 1 Cat: F (Rel-16)  
  
 Source: vivo*

(Replaces C1-202187)

**Decision:** The document was **agreed**.

**C1-202188 Handling of PC5 unicast QoS flow match and establishment**

*Type: CR For: Approval  
 24.587 v16.0.0 CR-0020 Cat: F (Rel-16)  
  
 Source: vivo*

**Decision:** The document was **revised to C1-202745**.

**C1-202745 Handling of PC5 unicast QoS flow match and establishment**

*Type: CR For: Approval  
 24.587 v16.0.0 CR-0020 rev 1 Cat: F (Rel-16)  
  
 Source: vivo*

(Replaces C1-202188)

**Decision:** The document was **agreed**.

**C1-202189 Handling of PC5 broadcast QoS flow match and establishment**

*Type: CR For: Approval  
 24.587 v16.0.0 CR-0021 Cat: F (Rel-16)  
  
 Source: vivo*

**Decision:** The document was **revised to C1-202746**.

**C1-202746 Handling of PC5 broadcast QoS flow match and establishment**

*Type: CR For: Approval  
 24.587 v16.0.0 CR-0021 rev 1 Cat: F (Rel-16)  
  
 Source: vivo*

(Replaces C1-202189)

**Decision:** The document was **revised to C1-202910**.

**C1-202899 Handling of PC5 broadcast QoS flow match and establishment**

*Type: CR For: Approval  
 24.587 v16.0.0 CR-0021 rev 2 Cat: F (Rel-16)  
  
 Source: vivo*

(Replaces C1-202746)

**Decision:** The document was **withdrawn**.

**C1-202900 Handling of PC5 broadcast QoS flow match and establishment**

*Type: CR For: Approval  
 24.587 v16.0.0 CR-0021 rev 3 Cat: F (Rel-16)  
  
 Source: vivo*

(Replaces C1-202746)

**Decision:** The document was **withdrawn**.

**C1-202910 Handling of PC5 broadcast QoS flow match and establishment**

*Type: CR For: Approval  
 24.587 v16.0.0 CR-0021 rev 4 Cat: F (Rel-16)  
  
 Source: vivo*

(Replaces C1-202746)

**Decision:** The document was **revised to C1-202914**.

**C1-202914 Handling of PC5 broadcast QoS flow match and establishment**

*Type: CR For: Approval  
 24.587 v16.0.0 CR-0021 rev 5 Cat: F (Rel-16)  
  
 Source: vivo*

(Replaces C1-202910)

**Decision:** The document was **agreed**.

**C1-202190 Requirements for groupcast over PC5**

*Type: CR For: Approval  
 24.587 v16.0.0 CR-0022 Cat: F (Rel-16)  
  
 Source: vivo*

**Discussion:**

Merged into C1-202119 and its revision

Ivo, Thursday, 18:06

It would be more logical to have each parameter on a separate bullet, i.e. split bullet 2 to two bullets

Lena, Friday, 3:08

This CR overlaps with OPPO’s C1-202119.

Yanchao, Monday, 5:43

We are fine to merge C1-202190 into C1-202119.

**Decision:** The document was **merged**.

**C1-202205 Work plan for the CT1 part of eV2XARC**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon /Christian*

**Decision:** The document was **noted**.

**C1-202225 Timer values for timers of PC5 unicast link management procedures**

*Type: CR For: Agreement  
 24.587 v16.0.0 CR-0023 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon /Christian*

**Decision:** The document was **revised to C1-202598**.

**C1-202226 Correction to the privacy timer**

*Type: CR For: Agreement  
 24.587 v16.0.0 CR-0024 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon /Christian*

**Decision:** The document was **revised to C1-202767**.

**C1-202767 Correction to the privacy timer**

*Type: CR For: Agreement  
 24.587 v16.0.0 CR-0024 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon /Christian*

(Replaces C1-202226)

**Decision:** The document was **agreed**.

**C1-202316 Corection for the target user info in the DIRECT LINK ESTABLISHMENT REQUEST message**

*Type: CR For: Agreement  
 24.587 v16.0.0 CR-0025 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon / Chen*

**Decision:** The document was **revised to C1-202730**.

**C1-202730 Corection for the target user info in the DIRECT LINK ESTABLISHMENT REQUEST message**

*Type: CR For: Agreement  
 24.587 v16.0.0 CR-0025 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon / Chen*

(Replaces C1-202316)

**Decision:** The document was **agreed**.

**C1-202317 Correction for the IP address configuration IE in the DIRECT LINK ESTABLISHMENT ACCEPT message**

*Type: CR For: Agreement  
 24.587 v16.0.0 CR-0026 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon / Chen*

**Decision:** The document was **revised to C1-202731**.

**C1-202731 Correction for the IP address configuration IE in the DIRECT LINK ESTABLISHMENT ACCEPT message**

*Type: CR For: Agreement  
 24.587 v16.0.0 CR-0026 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon / Chen*

(Replaces C1-202317)

**Decision:** The document was **agreed**.

**C1-202318 Correction for the link local IPv6 address IE in the DIRECT LINK ESTABLISHMENT ACCEPT message**

*Type: CR For: Agreement  
 24.587 v16.0.0 CR-0027 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon / Chen*

**Decision:** The document was **revised to C1-202732**.

**C1-202732 Correction for the link local IPv6 address IE in the DIRECT LINK ESTABLISHMENT ACCEPT message**

*Type: CR For: Agreement  
 24.587 v16.0.0 CR-0027 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon / Chen*

(Replaces C1-202318)

**Decision:** The document was **agreed**.

**C1-202327 Defining new parameters needed for the Link Identifier Update procedure**

*Type: CR For: Agreement  
 24.587 v16.0.0 CR-0028 Cat: F (Rel-16)  
  
 Source: InterDigital Communications*

**Decision:** The document was **revised to C1-202596**.

**C1-202333 T3540 for service request for V2X communications**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2111 Cat: F (Rel-16)  
  
 Source: ZTE*

**Decision:** The document was **revised to C1-202780**.

**C1-202780 T3540 for service request for V2X communications**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2111 rev 1 Cat: F (Rel-16)  
  
 Source: ZTE*

(Replaces C1-202333)

**Discussion:**

Agreed

Revision of C1-202333

Lena, Wednesday, 23:14

I am OK with C1-202780.

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Rae, Friday, 9:08

Service type “signaling” seems more appropriate under the case that UE only wants to get resources for PC5 from RAN without pending UL data.

Fei, Friday, 11:14

I am fine to change the service type to "signalling" for this case.

Fei, Saturday, 9:11

A draft revision is available. The changes are:

1) service type is changed from data to signalling.

2) the summary of change is also updated.

Lena, Sunday, 20:08

Having the service request type set to “signalling” rather than “data” makes more sense since no DBR will be set up.

**Decision:** The document was **agreed**.

**C1-202416 Discussion on maximum nbr of PC5 unicast links**

*Type: discussion For: Discussion  
 24.587 v..  
 Source: Huawei, HiSilicon / Vishnu*

**Decision:** The document was **noted**.

**C1-202427 Maximum number of NR PC5 unicast links for a UE**

*Type: CR For: Agreement  
 24.587 v16.0.0 CR-0029 Cat: C (Rel-16)  
  
 Source: Huawei, HiSilicon / Vishnu*

**Decision:** The document was **revised to C1-202848**.

**C1-202848 Maximum number of NR PC5 unicast links for a UE**

*Type: CR For: Agreement  
 24.587 v16.0.0 CR-0029 rev 1 Cat: C (Rel-16)  
  
 Source: Huawei, HiSilicon / Vishnu*

(Replaces C1-202427)

**Decision:** The document was **revised to C1-202919**.

**C1-202919 Maximum number of NR PC5 unicast links for a UE**

*Type: CR For: Agreement  
 24.587 v16.0.0 CR-0029 rev 2 Cat: C (Rel-16)  
  
 Source: Huawei, HiSilicon / Vishnu*

(Replaces C1-202848)

**Discussion:**

Agreed

Revision of C1-202848

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Revision of C1-202427

SangMin, Thursday, 12:19

I can live with C1-202848.

Ivo, Thursday, 12:39

I am OK with this version. Could you please add Ericsson as co-signer?

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Ivo, Thursday, 13:55

6.1.2.2.5 - superfluous "or" and inconsistent usage of "due to ".

Rae, Friday, 7:37

Based on the discussion paper related to this CR, the reason why V2X layer limits the number of unicast links is to follow the limitation over Uu interface.

However, PC5 is different because:

1) For PC5, the number of DRB is per PC5 link, not shared by all the links of one UE;

2) In RAN2, it is determined that the 5-bits link identifier is included in the RRC signaling for UE requesting PC5 resources to RAN. This is already a limitation actually. Whether it is necessary to do the limitation duplicated in V2X layer and AS layer.

Vishnu, Sunday, 11:49

To Ivo: I will fix it.

To Rae: the main reason is not to follow the limitation in Uu interface. Main reason is that we need hardware storage for ( Eg: storing the security keys) which is limited in the UE. Why we quoted comparison to Uu interface is as an example. E.g we have limited the number of QoS rules in the UE before because of storage limitation of storing packet filters. So in CT1, we have taken care of such situations where the resources in the UE is limited.

Rae, Monday, 11:16

I still want to have response to the following comment: In RAN2, it is determined that the 5-bits link identifier is included in the RRC signaling for UE requesting PC5 resources to RAN. This is already a limitation actually. Whether it is necessary to do the limitation duplicated in V2X layer and AS layer.

Vishnu, Monday, 15:17

When we define the bit size of IDs it will always be a higher number due to backward compatibility issues. It will be very difficult to change it in the future otherwise. What we are trying to define here on NAS level considering the storage aspect of the security keys and also packet filters. In reality most of the V2X communication will be done by group cast and broad cast, only 2-3 unicast links will be there at a time. So 8 is a reasonable number. It can also be changed in NAS spec without backward compatibility issues. So we hope you can support this.

Rae, Tuesday, 9:57

Thanks for the clarification. It is OK for me.

Vishnu, Tuesday, 10:34

A draft revision is available.

Lena, Tuesday, 23:07

This limitation to 8 simultaneous link seems arbitrary. Our view is that the maximum number of links supported by a UE should be left to UE implementation. If a UE has reached its maximum number of supported links, it can always reject new requests for direct link establishment from other UEs.

Ivo, Wednesday, 20:42

The draft revision addresses my comments. Could you add Ericsson as co-signer?

SangMin, Thursday, 9:24

We also have same view as expressed by Lena that the maximum number of links should be left to UE implementation. So this CR is not needed.

Vishnu, Thursday, 9:57

The reason why we want to specify an upper limit is that unlike other scenarios where we set the max limit as implementation specific (eg PDU session , packet filter etc), there is an ID defined in NAS specification ( eg: 4 bits ) and so there is already an implicit Max number and then we have a UE defined implementation specific max number. But for PC5 unicast link we don’t have that yet kind of ‘id defined’ in NAS specifications. So we think its good to have a recommended upper limit.

So we will change the normative text to implementation specific number as you proposed and add a Note, with recommended maximum number as 8. Will that be acceptable for you ?

Lena, Thursday, 10:01

Yes, that would be acceptable.

Vishnu, Thursday, 10:16

A draft revision is available.

Lena, Thursday, 10:20

Would it be possible to change the text in the NOTE to the following?

NOTE: The recommended maximum number of established NR PC5 unicasts link is 8.

Vishnu, Thursday, 10:24

A draft revision with the NOTE updated as requested is available.

Lena, Thursday, 10:31

I am OK with the draft revision.

Vishnu, Thursday, 12:12

Can SangMin also confirm he is ok with the draft revision?

**Decision:** The document was **agreed**.

**C1-202434 PC5 QoS flow establishment during the PC5 unicast link establishment procedure**

*Type: CR For: Agreement  
 24.587 v16.0.0 CR-0030 Cat: C (Rel-16)  
  
 Source: Huawei, HiSIlicon / Vishnu*

**Discussion:**

Merged into C1-202745 and its revisions

Ivo, Thursday, 18:07

- 6.1.2.2.4 - bullet c) iv contains full stop (instead of semicolon) before "and"

- why is creation of the PC5 QoS flow(s) optional? Shouldn't it be mandatory on a condition as in the 1st quote in the reason for change?

Lena, Friday, 4:30

This CR overlaps with vivo’s C1-202188 which puts the text in a different subclause. I prefer vivo’s version as it does not mix matching of QoS flows with the signalling procedure between the UEs.

Yanchao, Saturday, 11:10

Same opinion as Lena. The change here is the general description for creating PC5 QoS flows which can be applied after the completion of many other procedures, such as link establishment and modification. It would be better to use a separate subclause.

Also please see the following detailed comments:

1) clause 6.1.2.2.4, for the bullet d), the PC5 unicast link ID as one of parameters to lower layers is missing

2) clause 6.1.2.2.4, for the bullet d), PQFI->PQFI(s)

Vishnu, Tuesday, 10:39

We agree in principle (about PC5 QoS flow establishment) to this CR but we have some concerns.

We understand that we have such a common sub clause in 23.287 for the QoS flow establishment, but when we come to stage 3, we need to define each procedure and the PCQ QoS flow establishment is not the same for each. So we don’t think a common sub clause can be used.

Eg: As proposed in our CR, for the link establishment procedure, the QoS flow establishment is part of the link establishment. Target UE and destination UE exchange the QoS parameters and then establish the QoS flow when they are successful. For the Link modification procedure , if the service data or request don’t have a matching PQFI, then the Flow is created. So in the new sub clause you added, when we say “if service data or request” it is more applicable for the link modification procedure and cannot be directly referred to in the link establishment procedure.

Another reason is that in the new sub clause it says: “If there is no PC5 QoS rules for the existing PC5 QoS flow(s) matching the service data or request, the UE derives PC5 QoS parameters based on the V2X application requirements provided by the upper layers (if available) and the V2X service type (e.g. PSID or ITS-AID) according to the PC5 QoS mapping rules defined in clause 5.2.3 and perform the following:”

This is not correct, because if there is no unicast link existing, then the UE needs to establish a unicast link first and then PC5 QoS flow. So we believe that we will have to change this sub clause for each link procedure.

Considering this , we like to keep C1-202434 to clarify PC5 QoS flow establishment during direct link establishment procedure.

Yanchao, Tuesday, 17:09

To Vishnu: we believe the matching of QoS flows and the PC5 signalling procedure should be specified separately, which will construct a TS with clear logic and structure.

Secondly, I don’t agree with what you said “when we say “if service data or request” it is more applicable for the link modification procedure and cannot be directly referred to in the link establishment procedure.” It doesn’t make sense. It is a general scenario describing there is service data or request from upper layer.

3rd, the UE can create a PC5 QoS flow via either the PC5 link modification procedure or the PC5 link establishment procedure, which procedure to choose depends on where the PC5 link that the UE needs exists or not.

4th, the following statement is not correct, and you have an misunderstanding here. “If there is no PC5 QoS rules for the existing PC5 QoS flow(s)”, the UE may choose to establish a new PC5 unicast link, or the UE may choose to create an PC5 QoS flow in the existing PC5 unicast link. That is exactly the reason why the match of QoS flows should be specified as a generic subclause.

There we think C1-202434 is not needed.

Vishnu, Tuesday, 17:40

To Yanchao: we are not against you CR, but with the current wordings in the subclause it will be difficult to refer it from various procedures.

As a way forward, we like to propose to you: You update the new subclause as suggested below, then QoS flow match (if needed) can be done in the respective procedures. Then we can use this subclause in our CR.

6.1.2.X PC5 QoS flow match and establishment over PC5 unicast link

When service data or request from the upper layers is received, the UE determines if there is any existing PC5 QoS flow(s) matching the service data or request, i.e. based on the PC5 QoS rules for the existing PC5 QoS flow(s).

If there is no PC5 QoS rules for the existing PC5 QoS flow(s) matching the service data or request, the UE derives PC5 QoS parameters based on the V2X application requirements provided by the upper layers (if available) and the V2X service type (e.g. PSID or ITS-AID) according to the PC5 QoS mapping rules defined in clause 5.2.3 and perform the following:

Yanchao, Wednesday, 11:25

1. The change only describes the initiating UE’s behavior. The target UE could also use the established PC5 link and PC5 QoS flows to transmit V2X service data. (By the way, this is another reason why a generic subclause is more approapirate)

2. Bullet a) and bullet b) is about constructing a PC5 unicast link context, which has already been cover by our paper in C1-202181(2181 covers both the initiating UE and the target UE);

3. Bullet c) is about setting up a PC5 QoS rule, which has been covered about our paper in C1-202188 in bullet a-3)

4. Bullet d) is about passing parameters to lower layer, however :

a) the “source layer-2 ID and the destination layer-2 ID” has already been covered by Lena’s paper in C1-202104, see “After the DIRECT LINK ESTABLISHMENT ACCEPT message is generated, the initiating UE shall pass this message to the lower layers for transmission along with the initiating UE's layer 2 ID for unicast communication, the target UE's layer 2 ID for unicast communication and an indication that the PC5 signalling message is protected”

b) the PQFI and the PC5 QoS parameters is has already been covered by our paper in C1-202181 (2181 covers both the initiating UE and the target UE)

Therefore I think C1-202434 can be merged into C1-202181/ C1-202104.

Vishnu, Wednesday, 12:46

To Yanchao: we are fine to merge our CR into yours. What about my comments on editing the text in your CR?

Yanchao, Wednesday, 13:21

I am a little confused about Vishnu’s comment.

The last paragraph of the change in C1-202188 described the UE behavior when UE found a match between the existing PC5 QoS flow and the service data or request. So I don’t understand why you propose to delete the text?

Vishnu, Wednesday, 14:49

Looks like you have a misunderstanding about what our CR is doing.

Our CR intends to clarify that the QoS Flows can be established as part of the Unicast link establishment procedure without doing a QoS flow match based on incoming request/data one more time.

So in the new subclause the QoS flow matching is not needed. Otherwise it gives a feeling that after the unicast link is established , the QoS flow is established with additional request/data from upper layer. This is not the intention of our CR.

If you cannot agree to this, I am afraid, we cannot agree to your CR and to the merging.

Yanchao, Wednesday, 14:59

How about this:

I split the change in my CR into two subclause:

One subclause is “PC5 QoS flow match”

One subclause is “PC5 QoS flow establishment over PC5 unicast link”

Vishnu, Wednesday, 15:12

That is fine with us and use the subclause “PC5 QoS flow establishment over PC5 unicast link” for our changes.

**Decision:** The document was **merged**.

**C1-202438 Resolution of editor's note under 5.2.3**

*Type: CR For: Agreement  
 24.587 v16.0.0 CR-0031 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon /Christian*

**Decision:** The document was **agreed**.

**C1-202439 Resolution of editor's note under 6.1.2.5.2**

*Type: CR For: Agreement  
 24.587 v16.0.0 CR-0032 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon /Christian*

**Decision:** The document was **agreed**.

**C1-202453 Miscellaneous corrections**

*Type: CR For: Agreement  
 24.587 v16.0.0 CR-0033 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon /Christian*

**Decision:** The document was **agreed**.

**C1-202455 Resolution of editor's note under 6.1.2.3.6**

*Type: CR For: Agreement  
 24.587 v16.0.0 CR-0034 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon /Christian*

**Decision:** The document was **revised to C1-202768**.

**C1-202768 Resolution of editor's note under 6.1.2.3.6**

*Type: CR For: Agreement  
 24.587 v16.0.0 CR-0034 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon /Christian*

(Replaces C1-202455)

**Discussion:**

Agreed

Is Ivo OK with C1-202768?

Ivo is OK

Revision of C1-202455

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Ivo, Thursday, 13:55

For good interoperability, the handling should not be implementation specific.

Lena, Friday, 4:32

1) typo (“initiaing”)

2) “during the initiating UE-requested PC5 unicast link modification procedure” should be “during the PC5 unicast link modification procedure” (there is no “UE-requested PC5 unicast link modification procedure”)

Christian, Tuesday, 10:40

A draft revision is available. About Ivo’s comment, I believe that there is some misunderstanding about what the proposal actually is. Please, note that this is a very rare abnormal case (race condition) and the proposal is in fact not left to implementation but it is solved, i.e. “the initiating UE shall abort the PC5 unicast link modification procedure”. What we propose to leave to implementation is “the following handling” and we provide an example of what the UE could do but all depends on the current situation in the UE after the procedure is aborted

Ivo, Wednesday, 20:47

If I understand the CR correctly, the added case is for situation when both UEs initiate DIRECT LINK MODIFICATION REQUEST at the same time. In such case, both UEs abort the procedure and are supposed to perform implementation dependent handling, e.g. wait for implementation dependent time. What will happen when both UEs select the same implementation dependent time? Wouldn't the problem occur again?

it would be more logical if one of the UE waits longer time than the other.

Christian, Thursday, 11:41

I am not sure what the problem is actually or what behaviour you would like to have instead.

The implementation dependent time is random as any implementation can choose a different one, if they finally the very same procedure is (re-)started. Furthermore, different initiating UE can decide to do differently than (re-)start the procedure as that would depend on the current situation in the UE after the abortion of the procedure. Additionally, the very same description exists for other NAS protocols and I have not heard of resulting in problems.

**Decision:** The document was **agreed**.

**C1-202456 Resolution of the editor's note under 6.1.2.5.7.2**

*Type: CR For: Agreement  
 24.587 v16.0.0 CR-0035 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon /Christian*

**Decision:** The document was **revised to C1-202769**.

**C1-202769 Resolution of the editor's note under 6.1.2.5.7.2**

*Type: CR For: Agreement  
 24.587 v16.0.0 CR-0035 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon /Christian*

(Replaces C1-202456)

**Discussion:**

Agreed

Is Ivo OK with C1-202769?

IVO is OK

Revision of C1-202456

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Ivo, Thursday, 13:55

For good interoperability, the handling should not be implementation specific.

Lena, Friday, 4:33

1) Coversheet needs update as it refers to link modification procedure but the abnormal case handling is added for the link identifier update procedure

2) “procedure procedure” in 6.1.2.5.7.1

3) “initiaing” in 6.1.2.5.7.1

4) “a new PC5 unicast link update procedure” should be “a new PC5 unicast link identifier update procedure”

Christian, Tuesday, 14:22

A draft revision is available. About Ivo’s comments, I believe that there is some misunderstanding about what the proposal actually is. Please, note that this is a very rare abnormal case (race condition) and the proposal is in fact not left to implementation but it is solved, i.e. “the initiating UE shall abort the PC5 unicast link identifier update procedure”. What we propose to leave to implementation is “the following handling” and we provide an example of what the initiating UE could do but all depends on the current situation in the initiating UE after the procedure is aborted.

Ivo, Wednesday, 20:48

If I understand the CR correctly, the added case is for situation when both UEs initiate DIRECT LINK IDENTIFIER UPDATE REQUEST at the same time. In such case, both UEs abort the procedure and are supposed to perform implementation dependent handling, e.g. wait for implementation dependent time. What will happen when both UEs select the same implementation dependent time? Wouldn't the problem occur again?

it would be more logical if one of the UE waits longer time than the other.

Lena, Thursday, 0:55

I am OK with the draft revision.

Christian, Thursday, 11:43

I am not sure what the problem is actually or what behaviour you would like to have instead.

The implementation dependent time is random as any implementation can choose a different one, if they finally the very same procedure is (re-)started. Furthermore, different initiating UE can decide to do differently than (re-)start the procedure as that would depend on the current situation in the UE after the abortion of the procedure. Additionally, the very same description exists for other NAS protocols and I have not heard of resulting in problems.

**Decision:** The document was **agreed**.

**C1-202457 Correction on conditions to initiate a PC5 unciast link establishment procedure**

*Type: CR For: Agreement  
 24.587 v16.0.0 CR-0036 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon / Vishnu*

**Decision:** The document was **revised to C1-202842**.

**C1-202842 Correction on conditions to initiate a PC5 unciast link establishment procedure**

*Type: CR For: Agreement  
 24.587 v16.0.0 CR-0036 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon / Vishnu*

(Replaces C1-202457)

**Discussion:**

Agreed

Revision of C1-202457

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Ivo, Thursday, 13:55

The sentence does not seem to be an English sentence. Not clear what "are" in "are not identical" relates to.

Vishnu, Sunday, 12:09

Agree that the ‘are’ does not make sense. How about the following modification:

"e) there is no existing PC5 unicast link for the pair of peer application layer IDs, or there is an existing PC5 unicast link for the pair of peer application layer IDs and the network layer protocol of the existing PC5 unicast link is not identical to the network layer protocol required by the upper layer in the initiating UE for this V2X service."

Ivo, Monday, 23:14

Proposed text seems OK.

Vishnu, Tuesday, 10:47

A draft revision is available.

Frederic, Tuesday, 12:42

Could you please restore the styles in your revision? Everything is in “normal”.

Vishnu, Tuesday, 14:37

An updated draft revision fixing the styles is available.

Ivo, Wednesday, 20:49

I am OK with the draft revision. Please add Ericsson as co-signer.

**Decision:** The document was **agreed**.

**C1-202485 Packet filter for PC5 QoS flows**

*Type: CR For: Agreement  
 24.587 v16.0.0 CR-0037 Cat: C (Rel-16)  
  
 Source: Huawei, HiSilicon / Vishnu*

**Decision:** The document was **revised to C1-202844**.

**C1-202844 Packet filter for PC5 QoS flows**

*Type: CR For: Agreement  
 24.587 v16.0.0 CR-0037 rev 1 Cat: C (Rel-16)  
  
 Source: Huawei, HiSilicon / Vishnu*

(Replaces C1-202485)

**Discussion:**

Agreed

Revision of C1-202485

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Ivo, Thursday, 18:07

"The IP packet filter set is defined in TS 23.501 [X] clause 5.7.6.2." - it would be more appropriate to refer to stage-3 specification.

Vishnu, Sunday, 13:01

IP packet filter set is defined in 23.501 5.7.6.2. Not sure the contents of IP packet filter set is in the scope of stage-3. If you know any stage-3 specification with this definition, kindly let us know.

Lena, Monday, 0:54

Regarding the proposal on the contents of the V2X packet filter:

We are ok with all proposed components except the TC field of GeoNetworking Common header: filtering based on this field would require deep inspection of the packet at the UE since the UE would first need to determine that this is the GeoNeworking format in the non-IP header, and then the UE would need to read into the GeoNetworking headers – which may still have a few variants in realization.

Also, there is no stable implementable specification for the GeoNetworking yet. So we would prefer not to have this component in Rel-16.

Ivo, Monday, 23:18

24.501 Figure 9.11.4.13.4 Packet filter contents field specifies packet filter in a QoS rule.

Vishnu, Tuesday, 11:04

To Lena: we have a different view on the Geonetworking TC field.

1. The protocol format of the non-IP header is fixed when the UE can locate itself (e.g. GeoNetWorking in Europe, WAVE in USA and DSMP in China), and the request from upper layer to transfer a packet also indicates to UE’s 3GPP layer in which protocol format this packet is, thus no specific procedure to determine the protocol format.

2. It is specified in SA2 that if V2X Application Requirements is provided by the V2X application layer, the UE determines the QoS parameters for the V2X services based on the V2X Application Requirements and the V2X service type (e.g. PSID or ITS-AID). When GeoNetworking is used, TC field is where the application layer provides the V2X Application Requirements, thus it is a must-do for UE to read into the GeoNetworking headers to get the TC field, and then the UE can determine the QoS parameters for the packet or V2X services. If the UE cannot or does not read into the GeoNetworking headers, then the UE will fail to meet the application layer’s requirements and SA2’s design.

Also in our understanding, the GeoNetworking is the most stable Non-IP type specification for V2X, if GeoNetworking

Vishnu, Tuesday, 11:10

To Ivo: 24.501 Figure 9.11.4.13.4 specifies a QoS rule and packet filter set is only a parameter in it. It could be confusing to use it as a reference to IP packet filter set. But if you insist, we can change the reference to the stage-3 QoS rule figure.

Vishnu Wednesday, 17:25

A draft revision addressing Ivo’s comment is available.

@Lena, will you be ok with the Geonetworking TC field based on below explanation?

Ivo, Wednesday, 20:59

Can we state: “The IP packet filter set is defined as content of the packet filter contents field specified in 3GPP TS 24.501 [6] figure 9.11.4.13.4 and table 9.11.4.13.1.”?

Vishnu, Wednesday, 22:29

A draft revision addressing Ivo’s comment is available.

Ivo, Wednesday, 22:36

Nearly OK. There should be hard spaces after "figure" and after "table".

With those changes, Ericsson would like to cosign.

Lena, Thursday, 1:44

Regarding your point that when GeoNetworking is used, TC field is where the application layer provides the V2X Application Requirements, so the UE must read that field, that is not necessarily true: implementations where the modem passes this field to the application layer and gets back the QoS parameters from the application are possible. However by including this field in the V2X filter components, you force the modem to read that field and we are not ok with that. So we can’t agree with the CR if it contains the GeoNetworking TC field as a mandatory filter component that the UE has to support.

Vishnu, Thursday, 9:12

A draft revision is available. Changes:

a) Reference changed as proposed by Ivo.

b) Removed Geonetworking field from PF.

Lena, Thursday, 9:39

I have the following comments on the draft revision:

- The mention of the Geo networking TC field needs to be removed from the Reason for change in the coversheet

- The reference to ETSI EN 302 636-4-1 v1.4.1 is no longer needed

Vishnu, Thursday, 10:00

A draft revision addressing Lena’s comments is available.

Lena, Thursday, 10:02

I am OK with the draft revision.

Ivo, Thursday, 10:52

Draft revision is OK and Ericsson would like to co-sign.

**Decision:** The document was **agreed**.

**C1-202547 Direct link identifier update procedure messages definition and IEs coding**

*Type: CR For: Approval  
 24.587 v16.0.0 CR-0038 Cat: F (Rel-16)  
  
 Source: CATT*

**Abstract:**

Supplement the message functional definition and contends for direct link identifier update procedure and corresponding IEs coding in TS 24.587.

**Discussion:**

Merged into C1-202186 and its revisions.

Ivo, Thuesday, 18:07

"SL-DestinationIdentity

clause 6.3.5 of 3GPP TS 38.331 [11]" - IMO, SL-DestinationIdentity defined in clause 6.3.5 of 3GPP TS 38.331 [11] is not a IE according to 24.007. IMO, it would be better to define a type-3 IE with V format in 24.587, with value containing SL-DestinationIdentity according to clause 6.3.5 of 3GPP TS 38.331 [11]. it would be clearer definition from 24.007 point of view.

Lena, Friday, 4:35

1) Overlaps with InterDigital’s C1-202109 and vivo’s C1-202

2) Is missing subclauses describing when optional IEs are included in clause 7

3) The security information should not be TBD, SA3 has already agreed that the initiating UE sends the new MSB of KNRP-sess ID in the DIRECT LINK IDENTIFIER UPDATE REQUEST message, that the target UE sends back the MSB of KNRP-sess ID and the LSB of KNRP-sess ID in the DIRECT LINK IDENTIFIER UPDATE ACCEPT message, and that the initiating UE sends the LSB of KNRP-sess ID in the DIRECT LINK IDENTIFIER ACK message, see TS 33.536 subclause 5.3.3.2.2

4) except when referring to the new IE, “Layer-2 ID” should be “layer-2 ID” to be consistent with the changes proposed in Huawei’s C1-202453

Behrouz, Friday, 4:58

1) High level comment: This CR should be merged with vivo’s 2186 and our 2109

2) For the Request message

a. The names of several IEs are wrong; also Security info should be LSB as defined in SA3

b. For the New Layer-2 ID, you cannot refer to 38.331 in the Type/Reference column

3) For the Accept message

a. Several IEs are missing

b. The new target security info should be the MSB

c. The word “UE” in New Target UE info should be “user”

d. Same comment as above for Type/Reference column

4) For the ACK message

a. The word “Acknowledgment” should change to “ack” in 7.3.Z

b. All IEs after the Sequence Number should be “Optional” (awaiting ongoing SA2 discussions and decisions)

c. Security Info should be LSB

d. Address/Prefix should be removed from the last IE

Yanchao, Saturday, 11:03

1) in table 7.3.x.1.1, I prefer to define our own NAS IE for Layer 2 ID, not just refer to RAN specs for a NAS IE coding .

2) in Table 7.3.x.1.1, the presence of New initiating UE info should be O

3) in Table 7.3.y.1.1, the presence of New target UE Layer 2 ID and New target UE security information should be O

4) in Table 7.3.z.1.1, the presence of New target UE Layer 2 ID and New target UE security information should be O

5) no definition of the DIRECT LINK IDENTIFIER UPDATE REJECT message

**Decision:** The document was **merged**.

**C1-202596 Defining new parameters needed for the Link Identifier Update procedure**

*Type: CR For: Agreement  
 24.587 v16.0.0 CR-0028 rev 1 Cat: F (Rel-16)  
  
 Source: InterDigital Communications*

(Replaces C1-202327)

**Decision:** The document was **revised to C1-202870**.

**C1-202870 Defining new parameters needed for the Link Identifier Update procedure**

*Type: CR For: Agreement  
 24.587 v16.0.0 CR-0028 rev 2 Cat: F (Rel-16)  
  
 Source: InterDigital Communications*

(Replaces C1-202596)

**Decision:** The document was **revised to C1-202930**.

**C1-202930 Defining new parameters needed for the Link Identifier Update procedure**

*Type: CR For: Agreement  
 24.587 v16.0.0 CR-0028 rev 3 Cat: F (Rel-16)  
  
 Source: InterDigital Communications*

(Replaces C1-202870)

**Discussion:**

Behrouz, Thursday, 15:40

C1-202870 was revised to C1-202930 changing MSB to MSBs and LSB to LSBs. However, I would like to point out that I noted inconsistency in the comments received vs actions done as well as the fact that we have now created inconsistency between SA3 spec and our spec. I only did this to make progress as my personal opinion is that we are making a mistake here going against definitions that have been there, and used, in our own spec as well as SA3’s spec!!

Christian, Thursday, 15:57

In my view, everyone has brought up a number of valid points.However, I personally believe that we should keep the way we have specified in CT1 till now and which is actually aligned with the SA3 specification.Note that we are dealing with the understanding of how implementers need to encode the bits. Hence, we have to be careful in order not to allow different interpretations.I am afraid that if not, first of all implementers will ask what the difference is or changing now from MSB to the plural form and the misalignment with security in stage 3. As rapporteur of TS 24.587, I would like to keep consistency if possible. Secondly, implementers can get different understandings which can lead to different implementations. This would lead to undesirable effects in interoperability and testing.

Overall, as us, CT1 delegates and writers of the standard seem to have not the very same understanding.

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Revision of C1-202596

Ivo, Thursday, 11:00

C1-202870 still contains "MSB" and "LSB". However, values of those IEs contains more than 1 bit. Thus, IMO, it would be more appropriate to use "MSBs" and "LSBs". I understand that the intention is to align with EPS ProSE, but eV2XARC is being documented separately.

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Revision of C1-202327

Ivo, Thursday, 18:07

"MSB" and "LSB" indicate a single bit. Is it intentional?

Behrouz, Thursday, 19:59

SA3 has defined both of them as “bytes” and not bits.

Ivo, Friday, 11:07

I cannot find such statement in 33.536 - there is no "byte" in 33.536. 33.526 refers to 21.905 for abbreviations and 21.905 defines MSB and LSB as follows:

LSB Least Significant Bit

MSB Most Significant Bit

Or do I miss anything?

Furthermore, at least in CT1, we normally use "octet" rather than "byte" so if SA3 really meant most/least significant byte, "most/least significant octet" would be more appropriate in CT1.

Behrouz, Friday, 19:41

I was trying to mimic the same terminology as used in 24.334 (ProSe spec). Here is what I “actually” meant:

From 24.334

an MSB of KD-sess ID IE set to the most significant 8 bits of the KD-sess ID; and

the LSB of KD-sess ID IE set to indicate the least significant 8-bits of KD-sess ID

Yanchao, Saturday, 10:53

1) In clause 6.1.2.5.3, deleting ‘UE decides to change its identifier’ is not aligned with TS 23.287. The first change also means target UE needs to check whether the privacy configuration requires privacy protection

2) Clause 6.1.2.5.3, for the bullet f), why add the source UE’s new layer 2 ID in the link identifier update accept message?

3) Clause 6.1.2.5.3, same question as above, for the bullet g) why add the source UE’s new application layer ID in the link identifier update accept message?

4) Clause 6.1.2.5.3, the added bullet h) is coverd by the existing bullet c)

5) Clause 6.1.2.5.4，the existing “shall” is correct.

Ivo, Monday, 23:22

If the field is meant to keep 8 bits then the field should be called "MSBs of KD-sess ID" / "LSBs of KD-sess ID".

If it just kept singular, it is very confusing.

Behrouz, Tuesday, 0:48

We could add the “s” but just for me to understand; how come it was not deemed “confusing” when it was defined in 24.334 for ProSe? All we need to do is defining the LSB and MSB as the “8 bits…” in the beginning of the spec.

Ivo, Tuesday, 9:03

I do not know why it was not confusing in 24.334 for ProSe. Likely, it was not detected.

Behrouz, Tuesday, 16:28

Do you plan on changing the Prose spec as well? May I remind you that 24.334 was specified in Rel-12 and up to now nobody has shown any issues whatsoever with these definitions that have been used in that spec. These two MSB/LSB were defined in the body of 24.334 and will also be defined the same way in 24.587, so why is this a major problem now?

Ivo, Wednesday, 21:00

We start with a new spec and we should be consistent on the terminology.

Behrouz, Wednesday, 21:53

That’s exactly my point. There is no need to get stuck with a definition in 21.905, which has nothing to do with this spec. As I suggested earlier, all we need to do is that we will define LSB and MSB in 24.587 “exactly as it was done in 24.334” and there has not been any confusion. As far as I know, the implementers will follow the Stage 3 spec and definitions there (and not a Stage 1 spec).

Behrouz, Thursday, 1:31

To Yanchao:

1) -> this text is being modified in SA2

2) ->Please check TS 33.536

3) ->UE identifiers as received in request needs ->to be sent back in accept

4) ->Ok

5) ->Already addressed in C1-202596

**Decision:** The document was **agreed**.

**C1-202598 Timer values for timers of the PC5 unicast link management procedures**

*Type: CR For: Agreement  
 24.587 v16.0.0 CR-0023 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon /Christian*

(Replaces C1-202225)

**Decision:** The document was **revised to C1-202773**.

**C1-202773 Timer values for timers of the PC5 unicast link management procedures**

*Type: CR For: Agreement  
 24.587 v16.0.0 CR-0023 rev 2 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon /Christian*

(Replaces C1-202598)

**Discussion:**

Agreed

Revision of C1-202598

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Revision of C1-202225

Lena, Monday, 0:49

We are ok with setting the timer values to 5 sec for timers other than T5005.

Regarding T5005, 2 hrs as default (which is the same as the default TCP keep-alive timer) seems too long for a dynamic environment such as V2X. Would it be possible to set it to something in the order of minutes, for instance 10 min?

Christian, Wednesday, 10:42

We agree that T5005 should be set in the order of minutes for V2X. A draft revision is available.

Lena, Thursday, 0:58

I am OK with the draft revision.

**Decision:** The document was **agreed**.

#### 16.2.14 RACS (CT4 lead)

**C1-202233 RACS parameters in generic UE configuration procedure**

*Type: CR For: (not specified)  
 24.501 v16.4.1 CR-2078 Cat: F (Rel-16)  
  
 Source: Ericsson / Mikael*

**Decision:** The document was **revised to C1-202693**.

**C1-202693 RACS parameters in generic UE configuration procedure**

*Type: CR For: -  
 24.501 v16.4.1 CR-2078 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson / Mikael*

(Replaces C1-202233)

**Decision:** The document was **agreed**.

#### 16.2.15 5G\_SRVCC (CT4 lead)

**C1-202094 Introduce support for 5G SRVCC support indication when registering with EPS**

*Type: CR For: Agreement  
 24.008 v16.4.0 CR-3213 Cat: F (Rel-16)  
  
 Source: BlackBerry Uk Ltd.*

**Discussion:**

Withdrawn

Following ConfCall

Alternative to C1-202133

Ivo, Thu 13:43

No need for this CR, impact on EPS to be avoided

Lena, Fri, 05:21

prefer E solution with no UE impact, C1-202133.

**Decision:** The document was **withdrawn**.

**C1-202095 Introduce support for 5G SRVCC support indication when registering with EPS**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3290 rev 1 Cat: F (Rel-16)  
  
 Source: BlackBerry Uk Ltd.*

(Replaces C1-198012)

**Discussion:**

Withdrawn

Following ConfCall

Revision of C1-198012

Alternative to C1-202133

Ivo, Thu 13:43

No need for this CR, impact on EPS to be avoided

Lena, Fri, 05:21

prefer E solution with no UE impact, C1-202133

**Decision:** The document was **withdrawn**.

**C1-202338 Initial Registration after 5G-SRVCC**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2115 Cat: F (Rel-16)  
  
 Source: ZTE*

**Decision:** The document was **revised to C1-202529**.

**C1-202529 Initial Registration after 5G-SRVCC**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2115 rev 1 Cat: F (Rel-16)  
  
 Source: ZTE, China Unicom*

(Replaces C1-202338)

**Decision:** The document was **revised to C1-202638**.

**C1-202638 Initial Registration after 5G-SRVCC**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2115 rev 2 Cat: F (Rel-16)  
  
 Source: ZTE, China Unicom*

(Replaces C1-202529)

**Decision:** The document was **agreed**.

#### 16.2.16 xBDT (CT3 lead)

#### 16.2.17 IAB-CT (CT4 lead)

#### 16.2.18 5GS\_OTAF (CT4 lead)

**C1-202607 OTAF renamed to SP-AF**

*Type: CR For: Agreement  
 23.122 v16.5.0 CR-0510 rev 1 Cat: F (Rel-16)  
  
 Source: Orange, Ericsson*

(Replaces C1-202070)

**Decision:** The document was **agreed**.

#### 16.2.19 5G\_URLLC (CT4 lead)

#### 16.2.20 SEAL

**C1-202137 Updates to User Authentication Client (SIM-C) procedure**

*Type: CR For: Agreement  
 24.547 v16.0.0 CR-0001 Cat: F (Rel-16)  
  
 Source: Intel / Vivek*

**Decision:** The document was **agreed**.

**C1-202138 Updates to User Authentication Server (SIM-S) procedure**

*Type: CR For: Agreement  
 24.547 v16.0.0 CR-0002 Cat: F (Rel-16)  
  
 Source: Intel / Vivek*

**Decision:** The document was **agreed**.

**C1-202139 Updates to Token Exchange Client (SIM-C) procedure**

*Type: CR For: Agreement  
 24.547 v16.0.0 CR-0003 Cat: F (Rel-16)  
  
 Source: Intel / Vivek*

**Decision:** The document was **revised to C1-202828**.

**C1-202828 Updates to Token Exchange Client (SIM-C) procedure**

*Type: CR For: Agreement  
 24.547 v16.0.0 CR-0003 rev 1 Cat: F (Rel-16)  
  
 Source: Intel / Vivek*

(Replaces C1-202139)

**Decision:** The document was **agreed**.

**C1-202140 Updates to Token Exchange Server (SIM-S) procedure**

*Type: CR For: Agreement  
 24.547 v16.0.0 CR-0004 Cat: F (Rel-16)  
  
 Source: Intel / Vivek*

**Decision:** The document was **revised to C1-202829**.

**C1-202829 Updates to Token Exchange Server (SIM-S) procedure**

*Type: CR For: Agreement  
 24.547 v16.0.0 CR-0004 rev 1 Cat: F (Rel-16)  
  
 Source: Intel / Vivek*

(Replaces C1-202140)

**Decision:** The document was **agreed**.

**C1-202209 Latest reference version of draft TS 24.548**

*Type: draft TS For: (not specified)  
 24.548 v1.0.0  
 Source: Huawei, HiSilicon /Christian*

**Decision:** The document was **noted**.

**C1-202210 Wrong implementation of agreed p-CR C1-200881**

*Type: pCR For: Agreement  
 24.548 v1.0.0  
 Source: Huawei, HiSilicon /Christian*

**Decision:** The document was **revised to C1-202770**.

**C1-202770 Wrong implementation of agreed p-CR C1-200881**

*Type: pCR For: Agreement  
 24.548 v1.0.0  
 Source: Huawei, HiSilicon /Christian*

(Replaces C1-202210)

**Discussion:**

Agreed

Revision of C1-202210

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Sapan, Thursday, 21:02

I am fine with the contribution but some clarifications are required. Also, I have some minor comments to improve clarity for the procedures.

1) In clause 6.2.3.3.2.1, Server may add <monitoring-state> element in announcement message to client. How client will interpret this element? What is the meaning of "monitoring" value for client and also meaning of "not-monitoring" value for client – when it receives announcement message including <monitoring-state> element?

2) In clause 6.2.3.3.2.1, Server may add <unicast-status> element in announcement message to client. How client will interpret value in this element?

3) Rename clause 6.2.3.3.2.1 to “Generate announcement message”

4) In clause 6.2.3.3.2.1.1 – Need to add reference to clause 6.2.3.3.2.1 to construct application/vnd.3gpp.seal-mbms-usage-info +xml MIME body.

5) In clause 6.2.3.3.2.1.2 – Need to add reference to clause 6.2.3.3.2.1 to construct application/vnd.3gpp.seal-mbms-usage-info +xml MIME body.

Chen, Saturday, 2:54

1) -> As TS 23.434 states, the monitoring state is used to control if the client is actively monitoring the MBMS bearer quality or not. Therefore, the “monitoring” means the client start to monitor the MBMS bearer quality, and “not-monitoring” means the client stops monitoring the MBMS bearer quality. The further description is added in the client procedure. And this will be further detailed in the revision of C1-202302 “Structure and data semantics for MBMS bearer announcement over MBMS bearer procedure”.

2) -> If the <unicast-status> element is present, the client shall include the <unicast-listening-status> element in the MBMS listening status report message.

The further description is added in the client procedure. And this will be further detailed in the revision of C1-202302 “Structure and data semantics for MBMS bearer announcement over MBMS bearer procedure”.

3) -> OK

4) -> OK, add the words ”according to clause 6.2.3.3.2.1”.

5) -> OK, add the words ”according to clause 6.2.3.3.2.1”.

A corresponding draft revision is available.

Sapan, Sunday, 19:03

I am fine with provided changes – make sure to use hardspace while referencing clause 6.2.3.3.2.1.

Also, regarding comment 1) and 2), I will check your revision C1-202302 and let you know if I have any comment or not.

**Decision:** The document was **agreed**.

**C1-202211 Wrong implementation of agreed p-CR C1-200882**

*Type: pCR For: Agreement  
 24.548 v1.0.0  
 Source: Huawei, HiSilicon /Christian*

**Decision:** The document was **revised to C1-202772**.

**C1-202772 Wrong implementation of agreed p-CR C1-200882**

*Type: pCR For: Agreement  
 24.548 v1.0.0  
 Source: Huawei, HiSilicon /Christian*

(Replaces C1-202211)

**Discussion:**

Agreed

Revision of C1-202211

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Sapan, Thursday, 21:09

1) On cover sheet, Specification number and Agenda item is wrong.

2) In clause 6.2.3.4.1.1 and in clause 6.2.3.4.1.2- Need to add reference to clause 6.2.3.4.1 to construct application/vnd.3gpp.seal-mbms-usage-info +xml MIME body

Chen, Saturday, 2:54

Ok with both comments. A draft revision is available.

Sapan, Sunday, 18:58

I am fine with the draft revision.

**Decision:** The document was **agreed**.

**C1-202296 Updates to request for unicast resource at VAL service communication establishment procedure**

*Type: pCR For: Agreement  
 24.548 v1.0.0  
 Source: Huawei, HiSilicon / Chen*

**Decision:** The document was **revised to C1-202715**.

**C1-202715 Updates to request for unicast resource at VAL service communication establishment procedure**

*Type: pCR For: Agreement  
 24.548 v1.0.0  
 Source: Huawei, HiSilicon / Chen*

(Replaces C1-202296)

**Discussion:**

Agreed

Revision of C1-202296

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Sapan, Thursday, 21:32

The only concern with me for this CR is that – server is sending HTTP 200 OK, only after receiving SIP 200 OK. I believe server should not wait till SIP based procedures are completed.

Server can send HTTP 200 OK if HTTP POST request from VAL server is authorized. And once resources are reserved (i.e. SIP 200 OK is received) – server can send another HTTP message to notify about the success.

Chen, Friday, 5:33

I understand Sapan’s concern, but it needs SA6’s requirement. This p-CR just followed the procedure description of TS 23.434 clause 14.3.3.2.1.2.

Sapan, Friday, 8:45

I do understand that the contribution is based on SA6 specification. The problem here is that the SIP procedure can take longer time to respond (at times more than 32 seconds) and I do not think HTTP client can wait for such long time.

My proposal is: - On receiving HTTP POST request, the server will sends HTTP 202 Accepted as intermediate response and once SIP procedure is completed, the server will send actual response in form of new HTTP message (for this client should have opened notification channel);

Chen, Saturday, 9:47

Thanks for your explanation. In my understanding,

1) It is the VAL server not the client that requests for unicast resources;

2) It is only the 3GPP system that provides the unicast resources and the VAL server needs the unicast resources ASAP. If HTTP 202 response message is sent, the connection between the VAL server and the SNRM-S might be dropped;

3) HTTP is a stateless protocol with request-response mechanism. If HTTP 202 response message is sent, the VAL server should do polling (long polling or periodic polling?). In my point of view, the 32s is not long for the persistent connection, which could ensure the VAL server can get the resources ASAP.

With the above consideration, it’s better to keep the current status and align with TS 23.434.

Sapan, Monday, 10:04

I understand that Huawei do not want to send HTTP 202 Accepted response to VAL server due to reasons mentioned in your below email, but I will atleast prefer to add clarification in VAL serve side procedure about terminating the connection.

I propose to add following NOTE as compromise solution in VAL server side procedure:

NOTE 1: Before terminating connection due to no response from SRM-S, the VAL server allows sufficient time for SRN-S to reserve resources and respond. It is up to implementation to decide how long the VAL server waits for receiving response.

I hope you can agree to add above NOTE.

Chen, Monday, 11:12

The NOTE is OK with me. The draft revision with the NOTE and wording fixed is now available.

Sapan, Monday, 13:33

I am OK with the draft revision.

**Decision:** The document was **agreed**.

**C1-202297 Updates to structure and data semantics for request for unicast resource at VAL service communication establishment procedure**

*Type: pCR For: Agreement  
 24.548 v1.0.0  
 Source: Huawei, HiSilicon / Chen*

**Decision:** The document was **agreed**.

**C1-202298 Request for modification of unicast resources procedure**

*Type: pCR For: Agreement  
 24.548 v1.0.0  
 Source: Huawei, HiSilicon / Chen*

**Decision:** The document was **revised to C1-202716**.

**C1-202716 Request for modification of unicast resources procedure**

*Type: pCR For: Agreement  
 24.548 v1.0.0  
 Source: Huawei, HiSilicon / Chen*

(Replaces C1-202298)

**Discussion:**

Agreed

Revision of C1-202298

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Sapan, Friday, 9:00

1) In clause 6.2.2.3.1, step b) – How server determines whether bearer modification is required or not?

2) In clause 6.2.2.3.1, step b) 3) i) – the value “failure” is not giving enough information to VAL server. The <modification-result> element can also be used to provide reason for the failure. My suggestion is to change the value to “Modification not required” – to indicate VAL server about the actual result.

3) Same concern as described in previous CR - HTTP 200 OK is sent after receiving SIP 200 OK.

Chen, Saturday, 11:28

1) -> In my understanding, the decision mechanism is NRM-S implementation specific

2) -> The p-CR just followed the requirement of stage 2 of TS 23.434, clause 14.3.2.9

3) -> Please see my replies on C1-202296

Sapan, Monday, 13:43

I am fine with reply for comment 1) and 2).

For comment 3) – can you add similar NOTE as we decided to add in C1-202296.

Chen, Tuesday, 11:07

I’m OK with the NOTE added and the draft revision is available.

Frederic, Tuesday, 12:46

The pCR introduces two subclauses 6.2.2.3.1. While this can be fixed at the implementation, it would be better to have it corrected now.

Chen, Wednesday, 3:39

Thanks Frederic, it is fixed now and I have also fixed clauses affected.

Sapan, Wednesday, 7:34

I am fine with the NOTE added in draft revision.

**Decision:** The document was **agreed**.

**C1-202299 Structure and data semantics for request for modification of unicast resources procedure**

*Type: pCR For: Agreement  
 24.548 v1.0.0  
 Source: Huawei, HiSilicon / Chen*

**Discussion:**

Agreed

Sapan, Friday, 10:31

- New elements defined in this pCR i.e. <modification> and <modification-result> elements, are exactly same as elements defined in another pCR C1-202297 (<request> and <request-result> elements)

- I do not see need to define new elements in this pCR. We can reuse elements defined in C1-202297 by adding request type within <request> element.

Chen. Saturday, 11:13

This p-CR just followed the requirements of stage 2 of TS 23.434 clause 14.3.2.6, clause 14.3.2.7, clause 14.3.2.8 and clause 14.3.2.9. And as described in TS 23.434 clause 14.3.3.2, there are differences between the request for unicast resources procedure and the request for modification of unicast procedure.

Sapan, Monday, 11:27

Thanks for the clarification, I am ok with the changes.

**Decision:** The document was **agreed**.

**C1-202300 Network resource adaptation procedure**

*Type: pCR For: Agreement  
 24.548 v1.0.0  
 Source: Huawei, HiSilicon / Chen*

**Decision:** The document was **revised to C1-202717**.

**C1-202717 Network resource adaptation procedure**

*Type: pCR For: Agreement  
 24.548 v1.0.0  
 Source: Huawei, HiSilicon / Chen*

(Replaces C1-202300)

**Discussion:**

Agreed

Revision of C1-202300

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Sapan, Friday, 9:45

1) In clause 6.2.2.4.1 – “In order to request request unicast resources or modify already……” – The word “request” is written twice.

2) In clause 6.2.2.4.1 – At end of Step d) 1) ii) A) – it should be “or” instead of “and”.

3) In clause 6.2.2.4.2 – same concern as previous CRs – HTTP 200 OK is sent after SIP 200 OK.

Chen, Friday, 10:44

1) -> OK

2) -> OK

3) -> In the adaptation procedure, the NRM server interacts with 3GPP system using HTTP as described in TS 29.514/TS 29.214. The HTTP 200 OK is sent after HTTP 200 OK. Let me know your thinking.

Sapan, Friday, 11:17

For 3), Ok. I am fine with explanation as it is HTTP based procedure.

Chen, Saturday, 9:53

Thanks for your feedback, a draft revision is available.

Sapan, Monday, 11:03

I am ok with the draft revision.

**Decision:** The document was **agreed**.

**C1-202301 Structure and data semantics for network resource adaptation procedure**

*Type: pCR For: Agreement  
 24.548 v1.0.0  
 Source: Huawei, HiSilicon / Chen*

**Decision:** The document was **agreed**.

**C1-202302 Structure and data semantics for MBMS bearer announcement over MBMS bearer procedure**

*Type: pCR For: Agreement  
 24.548 v1.0.0  
 Source: Huawei, HiSilicon / Chen*

**Decision:** The document was **revised to C1-202718**.

**C1-202718 Structure and data semantics for MBMS bearer announcement over MBMS bearer procedure**

*Type: pCR For: Agreement  
 24.548 v1.0.0  
 Source: Huawei, HiSilicon / Chen*

(Replaces C1-202302)

**Discussion:**

Agreed

Revision of C1-202302

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Sapan, Friday, 11:54

All 5 pCRs (C1-202302, C1-202304, C1-202306, C1-202309, C1-202311) defines new clause 7.3.3 “MBMSInfo document” (for data structure) and 7.5.3 “MBMSInfo document” (for data semantics). Also, each pCRs define <mbms-info> as root element in the document with different child elements.

It is difficult to understand how all pCRs will be implemented in the specification. I request to merge all pCRs and define both clauses 7.3.3 and 7.5.3 only once with all required child elements in it – this will help us to understand exactly how clause 7.3.3 and clause 7.5.3 will be implemented in specification.

a. I do not understand <monitoring-state> element. Can you please clarify its usage? What is the meaning of value “monitoring” for the client when it receives this from server?

b. In clause 7.5.3 - Step h) mentions about element <mcptt-mbms-rohc> - It should be < announcement-acknowlegement> element.

c. Change possible values for <unicast-status> element to “required” and “not-required”.

d. In clause 7.5.3 – Step a) – all references are used with soft space – change it to hard space

Chen, Saturday, 8:57

Acturally, the new clause 7.3.3 and clause 7.5.3 has only one “header” repectively. Every pCR is corresponding to the related procedures as we did before in other SEAL Ts. Therefore, I merged these overlapped headers into revised C1-202302 and keep only child elements in other pCRs. I will coordinate with the rapporteur Christian to implement these pCRs according to the sequence of procedures (i.e. the apearance sequence of the elements).

a. -> As replied to C1-202210, the monitoring state is used to control if the client is actively monitoring the MBMS bearer quality or not. Therefore, the “monitoring” means the client start to monitor the MBMS bearer quality, and “not-monitoring” means the client stops monitoring the MBMS bearer quality. And this is updated in the draft revision

b. -> OK

c. -> As replied to C1-202210, if the <unicast-status> element is present, the client shall include the <unicast-listening-status> element in the MBMS listening status report message. And this is updated in the draft revision

d. -> ok

A draft revision is available.

Sapan, Monday, 9:40

Although you have merged all headers in to revised C1-202302 but new clauses are still defined in other pCRs. I will prefer to have everything merged to have single description of new clauses. But with your proposed approach, the clarity is improved to some extent and I understand your intention to break into different pCRs due to separate procedures and so as a compromise I am fine with your proposed approach.

To align with your description, I request you to remove “ing” from the value as shown below.

- The value “monitoring” indicates that the SNRM-C shall monitor the MBMS bearer quality; and

- The value “not-monitoring” indicates that the SNRM-C shall not monitor the MBMS bearer quality;

Also:

1) Kindly change the values of <monitoring-state> as specified in above comment – “monitor” and “not-monitor”.

2) Can you add possible values for <unicast-status> to “required” and “not-required”

3) In step j) – element <mcptt-mbms-rohc> is used – it should be <seal-mbms-rohc>.

Chen, Monday, 11:02

I am ok with Sapan’s additional comments except the following: about adding possible values for <unicast-status> to “required” and “not-required”, there is a little difference between the <monitoring-state> and the <unicast-status>. <monitoring-state> is to control the client to monitor or not to monitor no matter what is the client doing. But <unicast-status> is to report a unicast listening status that already exists. Therefore, from my side, the presence of the <unicast-status> is enough to indicate the listening status of the unicast bearer is requested and aligned with the TS 23.434.

A draft revision is available.

Sapan, Monday, 13:04

I am OK with the draft revision.

**Decision:** The document was **agreed**.

**C1-202303 Updates to MBMS bearer quality detection procedure**

*Type: pCR For: Agreement  
 24.548 v1.0.0  
 Source: Huawei, HiSilicon / Chen*

**Decision:** The document was **revised to C1-202719**.

**C1-202719 Updates to MBMS bearer quality detection procedure**

*Type: pCR For: Agreement  
 24.548 v1.0.0  
 Source: Huawei, HiSilicon / Chen*

(Replaces C1-202303)

**Discussion:**

Agreed

Revision of C1-202303

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Sapan, Friday, 12:47

1) In clause 6.2.3.4.1 – NOTEs are not in proper style.

2) Need to add condition in step a) 5) –

if MBMS announcement message contained <unicast-status> with value “required”, shall may include an <unicast-listening-status> element set to "listening" or "not-listening" indicating the unicast listening status.

Chen, Saturday, 3:35

Both comments are OK with me. The second point I revised in the following:

If the <unicast-status> element is present in the MBMS announcement message, shall…

The draft revision is available.

Sapan, Sunday, 19:18

I am fine with the draft revision.

**Decision:** The document was **agreed**.

**C1-202304 Structure and data semantics for MBMS bearer quality detection procedure**

*Type: pCR For: Agreement  
 24.548 v1.0.0  
 Source: Huawei, HiSilicon / Chen*

**Decision:** The document was **revised to C1-202720**.

**C1-202720 Structure and data semantics for MBMS bearer quality detection procedure**

*Type: pCR For: Agreement  
 24.548 v1.0.0  
 Source: Huawei, HiSilicon / Chen*

(Replaces C1-202304)

**Discussion:**

Agreed

Revision of C1-202304

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Sapan, Friday, 11:54

All 5 pCRs (C1-202302, C1-202304, C1-202306, C1-202309, C1-202311) defines new clause 7.3.3 “MBMSInfo document” (for data structure) and 7.5.3 “MBMSInfo document” (for data semantics). Also, each pCRs define <mbms-info> as root element in the document with different child elements.

It is difficult to understand how all pCRs will be implemented in the specification. I request to merge all pCRs and define both clauses 7.3.3 and 7.5.3 only once with all required child elements in it – this will help us to understand exactly how clause 7.3.3 and clause 7.5.3 will be implemented in specification.

In clause 7.5.3 – Step b) – all references are used with soft space – change it to hard space

Chen, Saturday, 8:57

Acturally, the new clause 7.3.3 and clause 7.5.3 has only one “header” repectively. Every pCR is corresponding to the related procedures as we did before in other SEAL Ts. Therefore, I merged these overlapped headers into revised C1-202302 and keep only child elements in other pCRs. I will coordinate with the rapporteur Christian to implement these pCRs according to the sequence of procedures (i.e. the apearance sequence of the elements).

Ok for the comment on clause 7.5.3. A draft revision is available.

Sapan, Monday, 9:40

Although you have merged all headers in to revised C1-202302 but new clauses are still defined in other pCRs. I will prefer to have everything merged to have single description of new clauses. But with your proposed approach, the clarity is improved to some extent and I understand your intention to break into different pCRs due to separate procedures and so as a compromise I am fine with your proposed approach.

I am ok with the draft revision.

**Decision:** The document was **agreed**.

**C1-202305 Use of pre-established MBMS bearers procedure**

*Type: pCR For: Agreement  
 24.548 v1.0.0  
 Source: Huawei, HiSilicon / Chen*

**Decision:** The document was **agreed**.

**C1-202306 Structure and data semantics for use of pre-established MBMS bearers procedure**

*Type: pCR For: Agreement  
 24.548 v1.0.0  
 Source: Huawei, HiSilicon / Chen*

**Decision:** The document was **revised to C1-202721**.

**C1-202721 Structure and data semantics for use of pre-established MBMS bearers procedure**

*Type: pCR For: Agreement  
 24.548 v1.0.0  
 Source: Huawei, HiSilicon / Chen*

(Replaces C1-202306)

**Discussion:**

Agreed

Revision of C1-202306

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Sapan, Friday, 11:54

All 5 pCRs (C1-202302, C1-202304, C1-202306, C1-202309, C1-202311) defines new clause 7.3.3 “MBMSInfo document” (for data structure) and 7.5.3 “MBMSInfo document” (for data semantics). Also, each pCRs define <mbms-info> as root element in the document with different child elements.

It is difficult to understand how all pCRs will be implemented in the specification. I request to merge all pCRs and define both clauses 7.3.3 and 7.5.3 only once with all required child elements in it – this will help us to understand exactly how clause 7.3.3 and clause 7.5.3 will be implemented in specification.

In clause 7.5.3 – Under <mbms-bearers> element – In Step b) – all references are used with soft space – change it to hard space.

Chen, Saturday, 8:57

Acturally, the new clause 7.3.3 and clause 7.5.3 has only one “header” repectively. Every pCR is corresponding to the related procedures as we did before in other SEAL Ts. Therefore, I merged these overlapped headers into revised C1-202302 and keep only child elements in other pCRs. I will coordinate with the rapporteur Christian to implement these pCRs according to the sequence of procedures (i.e. the apearance sequence of the elements).

Ok for the comment on clause 7.5.3. A draft revision is available.

Sapan, Monday, 9:40

Although you have merged all headers in to revised C1-202302 but new clauses are still defined in other pCRs. I will prefer to have everything merged to have single description of new clauses. But with your proposed approach, the clarity is improved to some extent and I understand your intention to break into different pCRs due to separate procedures and so as a compromise I am fine with your proposed approach.

I am ok with the draft revision.

**Decision:** The document was **agreed**.

**C1-202307 Use of dynamic MBMS bearers procedure**

*Type: pCR For: Agreement  
 24.548 v1.0.0  
 Source: Huawei, HiSilicon / Chen*

**Decision:** The document was **revised to C1-202722**.

**C1-202722 Use of dynamic MBMS bearers procedure**

*Type: pCR For: Agreement  
 24.548 v1.0.0  
 Source: Huawei, HiSilicon / Chen*

(Replaces C1-202307)

**Decision:** The document was **agreed**.

**C1-202308 Service continuity in MBMS scenarios procedure**

*Type: pCR For: Agreement  
 24.548 v1.0.0  
 Source: Huawei, HiSilicon / Chen*

**Decision:** The document was **revised to C1-202723**.

**C1-202723 Service continuity in MBMS scenarios procedure**

*Type: pCR For: Agreement  
 24.548 v1.0.0  
 Source: Huawei, HiSilicon / Chen*

(Replaces C1-202308)

**Decision:** The document was **agreed**.

**C1-202309 Structure and data semantics for service continuity in MBMS scenarios procedure**

*Type: pCR For: Agreement  
 24.548 v1.0.0  
 Source: Huawei, HiSilicon / Chen*

**Decision:** The document was **revised to C1-202724**.

**C1-202724 Structure and data semantics for service continuity in MBMS scenarios procedure**

*Type: pCR For: Agreement  
 24.548 v1.0.0  
 Source: Huawei, HiSilicon / Chen*

(Replaces C1-202309)

**Decision:** The document was **agreed**.

**C1-202310 MBMS suspension notification procedure**

*Type: pCR For: Agreement  
 24.548 v1.0.0  
 Source: Huawei, HiSilicon / Chen*

**Decision:** The document was **revised to C1-202725**.

**C1-202725 MBMS suspension notification procedure**

*Type: pCR For: Agreement  
 24.548 v1.0.0  
 Source: Huawei, HiSilicon / Chen*

(Replaces C1-202310)

**Decision:** The document was **agreed**.

**C1-202311 Structure and data semantics for MBMS suspension notification procedure**

*Type: pCR For: Agreement  
 24.548 v1.0.0  
 Source: Huawei, HiSilicon / Chen*

**Decision:** The document was **revised to C1-202726**.

**C1-202726 Structure and data semantics for MBMS suspension notification procedure**

*Type: pCR For: Agreement  
 24.548 v1.0.0  
 Source: Huawei, HiSilicon / Chen*

(Replaces C1-202311)

**Decision:** The document was **agreed**.

**C1-202312 MBMS bearer event notification procedure**

*Type: pCR For: Agreement  
 24.548 v1.0.0  
 Source: Huawei, HiSilicon / Chen*

**Decision:** The document was **agreed**.

**C1-202313 Switching between MBMS bearer bearer and unicast bearer procedure**

*Type: pCR For: Agreement  
 24.548 v1.0.0  
 Source: Huawei, HiSilicon / Chen*

**Decision:** The document was **agreed**.

**C1-202314 Resolution of editor's note on application unique ID**

*Type: pCR For: Agreement  
 24.548 v1.0.0  
 Source: Huawei, HiSilicon / Chen*

**Decision:** The document was **agreed**.

**C1-202315 XML scheme declaration for SEAL network resource management**

*Type: pCR For: Agreement  
 24.548 v1.0.0  
 Source: Huawei, HiSilicon / Chen*

**Decision:** The document was **revised to C1-202727**.

**C1-202727 XML scheme declaration for SEAL network resource management**

*Type: pCR For: Agreement  
 24.548 v1.0.0  
 Source: Huawei, HiSilicon / Chen*

(Replaces C1-202315)

**Decision:** The document was **agreed**.

**C1-202319 IANA registration template of SEAL location management**

*Type: CR For: Agreement  
 24.545 v16.0.0 CR-0001 Cat: B (Rel-16)  
  
 Source: Huawei, HiSilicon / Chen*

**Decision:** The document was **agreed**.

**C1-202320 Removal of editor’s note on MIME types**

*Type: CR For: Agreement  
 24.545 v16.0.0 CR-0002 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon / Chen*

**Decision:** The document was **agreed**.

**C1-202321 Resolution of editor's note on application unique ID**

*Type: CR For: Agreement  
 24.545 v16.0.0 CR-0003 Cat: B (Rel-16)  
  
 Source: Huawei, HiSilicon / Chen*

**Decision:** The document was **agreed**.

**C1-202322 Structure and data semantics for query list of users based on location procedure**

*Type: CR For: Agreement  
 24.545 v16.0.0 CR-0004 Cat: B (Rel-16)  
  
 Source: Huawei, HiSilicon / Chen*

**Decision:** The document was **agreed**.

**C1-202323 XML scheme declaration for SEAL location management**

*Type: CR For: Agreement  
 24.545 v16.0.0 CR-0005 Cat: B (Rel-16)  
  
 Source: Huawei, HiSilicon / Chen*

**Decision:** The document was **revised to C1-202733**.

**C1-202733 XML scheme declaration for SEAL location management**

*Type: CR For: Agreement  
 24.545 v16.0.0 CR-0005 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei, HiSilicon / Chen*

(Replaces C1-202323)

**Decision:** The document was **agreed**.

**C1-202440 Create SIP based subscription for SLM**

*Type: CR For: Agreement  
 24.545 v16.0.0 CR-0006 Cat: B (Rel-16)  
  
 Source: Samsung, Huawei, HiSilicon / Sapan*

**Discussion:**

Postponed

Sapan, Wednesday, 19:55

All SIP based subscription procedures proposed in CRs (C1-202440, C1-202441, C1-202442, C1-202443, C1-202444, C1-202445, C1-202446) are postponed.

**Decision:** The document was **postponed**.

**C1-202441 Modify SIP based subscription for SLM**

*Type: CR For: Agreement  
 24.545 v16.0.0 CR-0007 Cat: B (Rel-16)  
  
 Source: Samsung / Sapan*

**Discussion:**

Postponed

Frederic, Thursday, 12:54

Incorrect clauses affected: 6.2.6.1.1.1 (NEW) should be 6.2.6.1.1.2 (NEW)

Sapan, Monday, 14:04

A draft revision is available.

Sapan, Wednesday, 19:55

All SIP based subscription procedures proposed in CRs (C1-202440, C1-202441, C1-202442, C1-202443, C1-202444, C1-202445, C1-202446) are postponed.

**Decision:** The document was **postponed**.

**C1-202442 Delete SIP based subscription for SLM**

*Type: CR For: Agreement  
 24.545 v16.0.0 CR-0008 Cat: B (Rel-16)  
  
 Source: Samsung / Sapan*

**Discussion:**

Postponed

Sapan, Wednesday, 19:55

All SIP based subscription procedures proposed in CRs (C1-202440, C1-202441, C1-202442, C1-202443, C1-202444, C1-202445, C1-202446) are postponed.

**Decision:** The document was **postponed**.

**C1-202443 Handling of abnormal cases for SIP based subscription in SLM**

*Type: CR For: Agreement  
 24.545 v16.0.0 CR-0009 Cat: B (Rel-16)  
  
 Source: Samsung / Sapan*

**Discussion:**

Postponed

Sapan, Wednesday, 19:55

All SIP based subscription procedures proposed in CRs (C1-202440, C1-202441, C1-202442, C1-202443, C1-202444, C1-202445, C1-202446) are postponed.

**Decision:** The document was **postponed**.

**C1-202444 Message Formats for location management subscription**

*Type: CR For: Agreement  
 24.545 v16.0.0 CR-0010 Cat: B (Rel-16)  
  
 Source: Samsung / Sapan*

**Discussion:**

Postponed

Sapan, Wednesday, 19:55

All SIP based subscription procedures proposed in CRs (C1-202440, C1-202441, C1-202442, C1-202443, C1-202444, C1-202445, C1-202446) are postponed.

**Decision:** The document was **postponed**.

**C1-202445 Timers used in location management**

*Type: CR For: Agreement  
 24.545 v16.0.0 CR-0011 Cat: B (Rel-16)  
  
 Source: Samsung / Sapan*

**Discussion:**

: Postponed

Sapan, Wednesday, 19:55

All SIP based subscription procedures proposed in CRs (C1-202440, C1-202441, C1-202442, C1-202443, C1-202444, C1-202445, C1-202446) are postponed.

**Decision:** The document was **postponed**.

**C1-202446 Annex for registering ICSI and MIME for SLM**

*Type: CR For: Agreement  
 24.545 v16.0.0 CR-0012 Cat: B (Rel-16)  
  
 Source: Samsung / Sapan*

**Discussion:**

Postponed

Sapan, Wednesday, 19:55

All SIP based subscription procedures proposed in CRs (C1-202440, C1-202441, C1-202442, C1-202443, C1-202444, C1-202445, C1-202446) are postponed.

**Decision:** The document was **postponed**.

**C1-202447 SIP based subscribe/notify procedures for SEAL group management**

*Type: CR For: Agreement  
 24.544 v16.0.0 CR-0001 Cat: B (Rel-16)  
  
 Source: Samsung / Sapan*

**Decision:** The document was **agreed**.

**C1-202448 Removal of Editor’s notes**

*Type: CR For: Agreement  
 24.544 v16.0.0 CR-0002 Cat: F (Rel-16)  
  
 Source: Samsung / Sapan*

**Decision:** The document was **revised to C1-202809**.

**C1-202809 Removal of Editor’s notes**

*Type: CR For: Agreement  
 24.544 v16.0.0 CR-0002 rev 1 Cat: F (Rel-16)  
  
 Source: Samsung / Sapan*

(Replaces C1-202448)

**Discussion:**

Agreed

Revision of C1-202448

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Chen, Friday, 9:40

In the Reason of change, TS 33.434 states that access tokens shall be communicated from the SIM-C to VAL resource servers, not SGM-C/SCM-C. Therefore, the reason of change needs to be enhanced

Sapan, Monday, 16:32

Although the annex describes about SIM-C, the general description of SEAL service authorization (in clause 6.2.2) and authorization framework (in clause 6.2.5) clearly mention that each SEAL client shall present access-token to SEAL server for authorization. I will update the reason for change accordingly. A draft revision is available.

Chen, Tuesday, 11:00

I’m fine with the revision. As we discussed before, the header will be changed in SEAL location management in next meeting too.

**Decision:** The document was **agreed**.

**C1-202449 Indication from SGM-S to SGM-C about group join required**

*Type: CR For: Agreement  
 24.544 v16.0.0 CR-0003 Cat: F (Rel-16)  
  
 Source: Samsung / Sapan*

**Decision:** The document was **agreed**.

**C1-202450 SIP based subscribe/notify procedures for configuration management**

*Type: CR For: Agreement  
 24.546 v16.0.0 CR-0001 Cat: B (Rel-16)  
  
 Source: Samsung / Sapan*

**Decision:** The document was **agreed**.

**C1-202451 Removal of Editor’s notes.**

*Type: CR For: Agreement  
 24.546 v16.0.0 CR-0002 Cat: F (Rel-16)  
  
 Source: Samsung / Sapan*

**Decision:** The document was **revised to C1-202810**.

**C1-202810 Removal of Editor’s notes.**

*Type: CR For: Agreement  
 24.546 v16.0.0 CR-0002 rev 1 Cat: F (Rel-16)  
  
 Source: Samsung / Sapan*

(Replaces C1-202451)

**Discussion:**

Agreed

Revision of C1-202451

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Chen, Friday, 9:40

In the Reason of change, TS 33.434 states that access tokens shall be communicated from the SIM-C to VAL resource servers, not SGM-C/SCM-C. Therefore, the reason of change needs to be enhanced

Sapan, Monday, 16:32

Although the annex describes about SIM-C, the general description of SEAL service authorization (in clause 6.2.2) and authorization framework (in clause 6.2.5) clearly mention that each SEAL client shall present access-token to SEAL server for authorization. I will update the reason for change accordingly. A draft revision is available.

Chen, Tuesday, 11:00

I’m fine with the revision. As we discussed before, the header will be changed in SEAL location management in next meeting too.

**Decision:** The document was **agreed**.

#### 16.2.21 Other Rel-16 non-IMS topics

**C1-202083 Correction of certain erroneous Information Element Identifiers**

*Type: CR For: Agreement  
 24.501 v16.4.1 CR-2033 Cat: F (Rel-16)  
  
 Source: InterDigital Communications*

**Discussion:**

Agreed

Ivo, Thu, 13:44

Change in Table 8.2.6.1.1 seems unnecessary

Behrouz, Thu, 19:46

Explains why he wants to keep Type 1 IE

Ivo, Fri, 11:35

We may run out of Type 1, could use Type 2 where possible

Behrouz, Sat, 02:27

Not keen on using Type 2, none was used in 301

Amer, Sat, 04:30

Not convinced by Behrouz argument on Type 2

Behrouz, Sat, 06:25

Commenting

Amer, Sat, 13:57

Commenting to Behrouz

Behrouz, Sat, 20:47

Discussing how to continue type 2 IE

Ivo, Mon, 23:41

Explaining why type 2 IE would be beneficial

Behrouz, Tue, 06:49

ongoing

Ivo, Tue, 09:32

Ongoing

Chrsitian, Wed, 17:32

We are in favour of C1-202083 as it stands.

Ivo, Thu, 11:05

Nobody else has a problem, withdraws his comment

Amer, Friday

OK

**Decision:** The document was **agreed**.

**C1-202088 Clarification for the use of enhanced coverage in EPS**

*Type: CR For: (not specified)  
 24.301 v16.4.0 CR-3339 Cat: F (Rel-16)  
  
 Source: Samsung, Huawei, HiSilicon, InterDigital*

**Decision:** The document was **revised to C1-202644**.

**C1-202644 Clarification for the use of enhanced coverage in EPS**

*Type: CR For: -  
 24.301 v16.4.0 CR-3339 rev 1 Cat: F (Rel-16)  
  
 Source: Samsung, Huawei, HiSilicon, InterDigital*

(Replaces C1-202088)

**Decision:** The document was **withdrawn**.

**C1-202645 Clarification for the use of enhanced coverage in EPS**

*Type: CR For: -  
 24.301 v16.4.0 CR-3339 rev 2 Cat: F (Rel-16)  
  
 Source: Samsung, Huawei, HiSilicon, InterDigital*

(Replaces C1-202088)

**Decision:** The document was **revised to C1-202906**.

**C1-202906 Clarification for the use of enhanced coverage in EPS**

*Type: CR For: -  
 24.301 v16.4.0 CR-3339 rev 3 Cat: F (Rel-16)  
  
 Source: Samsung, Huawei, HiSilicon, InterDigital*

(Replaces C1-202645)

**Decision:** The document was **agreed**.

**C1-202148 SMS timer extension for the MS using CP CIoT 5GS optimization**

*Type: CR For: (not specified)  
 24.011 v15.3.0 CR-0066 Cat: F (Rel-16)  
  
 Source: NTT DOCOMO*

**Decision:** The document was **agreed**.

**C1-202178 Emergency PDN connection established after WUS negotiation**

*Type: CR For: Approval  
 24.301 v16.4.0 CR-3345 Cat: F (Rel-16)  
  
 Source: vivo*

**Decision:** The document was **revised to C1-202736**.

**C1-202736 Emergency PDN connection established after WUS negotiation**

*Type: CR For: Approval  
 24.301 v16.4.0 CR-3345 rev 1 Cat: F (Rel-16)  
  
 Source: vivo*

(Replaces C1-202178)

**Decision:** The document was **agreed**.

**C1-202217 RPDU transfer for 5GS using Control Plane CIoT Optimization**

*Type: CR For: (not specified)  
 24.011 v15.3.0 CR-0067 Cat: F (Rel-16)  
  
 Source: NTT DOCOMO INC.*

**Decision:** The document was **revised to C1-202700**.

**C1-202700 RPDU transfer for 5GS using Control Plane CIoT Optimization**

*Type: CR For: -  
 24.011 v15.3.0 CR-0067 rev 1 Cat: F (Rel-16)  
  
 Source: NTT DOCOMO INC.*

(Replaces C1-202217)

**Decision:** The document was **agreed**.

**C1-202263 TA change during Authentication procedure in EMM-CONNECTED mode**

*Type: CR For: Approval  
 24.301 v16.4.0 CR-3347 Cat: F (Rel-16)  
  
 Source: Apple*

**Abstract:**

During Authentication procedure in EMM-CONNECTED mode, if UE camps on a tracking area that does not belong to the registered tracking area list then UE does not send Authentication Response of the Authentication Request received in the previous tracking a

**Decision:** The document was **revised to C1-202850**.

**C1-202850 TA change during Authentication procedure in EMM-CONNECTED mode**

*Type: CR For: Approval  
 24.301 v16.4.0 CR-3347 rev 1 Cat: F (Rel-16)  
  
 Source: Apple*

(Replaces C1-202263)

**Discussion:**

Postponed

Revision of C1-202263

Osama, Fri,07:58

should be POSTPONED

Lin Postponed

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Lin, Fri, 07:18

Challenging the scenario

Osam<>Krisztian disc only shown on previous agenda

Lin, Tue, 03:46

CR not needed, covered

Osama, Tue, 03:51

I won’t object if you change the CRs to be NW only impacting CRs

Krisztian, Wed, 01:52

Explaining to Lin

Krisztian, Wed, 02:01

To Osama, this is serious concern, rev

sama, Wed, 02:39

Not convinced, should be discussed in SA3, LS to SA3 could be a way forward

Lin, Wed, 05:06

Not agreeing with Krisztian

Krisztian, Wed, 08:27

Ongoing

Krisztian, Wed, 08:33

To Osama, SA3 not needed

Osama, Wed, 20:22

Has issues

Krisztian, Thu, 07:09

Not agreeing with Osama

Lin, Thu, 09:29

Comments, if that are taken on board, he can live with it, 2850 requires rev

**Decision:** The document was **postponed**.

**C1-202264 TA change during Authentication procedure in 5GMM-CONNECTED mode**

*Type: CR For: Approval  
 24.501 v16.4.1 CR-2092 Cat: F (Rel-16)  
  
 Source: Apple*

**Abstract:**

During Authentication procedure in 5GMM-CONNECTED mode, if UE camps on a tracking area that does not belong to the registered tracking area list then UE does not send Authentication Response of the Authentication Request received in the previous tracking

**Decision:** The document was **revised to C1-202851**.

**C1-202851 TA change during Authentication procedure in 5GMM-CONNECTED mode**

*Type: CR For: Approval  
 24.501 v16.4.1 CR-2092 rev 1 Cat: F (Rel-16)  
  
 Source: Apple*

(Replaces C1-202264)

**Discussion:**

Postponed

Revision of C1-202264

Osama, Fri,07:58

should be POSTPONED

Lin, Postponed

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Lin, Fri, 07:18

Challenging the scenario

Osam<>Krisztian disc only shown on previous agenda

Lin, Tue, 03:46

CR not needed, covered

Osama, Tue, 03:51

I won’t object if you change the CRs to be NW only impacting CRs

Krisztian, Wed, 01:52

Explaining to Lin

Krisztian, Wed, 02:01

To Osama, this is serious concern, rev

sama, Wed, 02:39

Not convinced, should be discussed in SA3, LS to SA3 could be a way forward

Lin, Wed, 05:06

Not agreeing with Krisztian

Krisztian, Wed, 08:27

Ongoing

Krisztian, Wed, 08:33

To Osama, SA3 not needed

Osama, Wed, 20:22

Has issues

Krisztian, Thu, 07:09

Not agreeing with Osama

Lin, Thu, 09:29

Comments, if that are taken on board, he can live with it

Lin, Thu, 09:29

Comments, if that are taken on board, he can live with it, 2851 requires rev

**Decision:** The document was **postponed**.

**C1-202265 Considerations for AML over SMS in roaming scenarios**

*Type: discussion For: Decision  
 Source: Apple*

(Replaces C1-200606)

**Abstract:**

This contribution highlights that AML over SMS is one the preferred and actively being deployed mechanisms in commercial networks and discusses potential solution of having a NAS signalling based solution to indicate to the UE about the SMS-C address for

**Discussion:**

Noted

Revision of C1-200606

Osama, Thu, 21:14

First we need SA1 requirements

**Decision:** The document was **noted**.

**C1-202267 Add handling for parameter set to “value is not used” in EPS**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3348 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to C1-202633**.

**C1-202633 Add handling for parameter set to “value is not used” in EPS**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3348 rev 1 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

(Replaces C1-202267)

**Discussion:**

Postponed

Revision of C1-202267

Postponed due to open discussion on the wording

Lin, Thu, 03:22

Some change seems unacceptable

Osama, Thu, 04:43

Does not agree

Lin, Thu, 10:56

suggests a NOTE

Ivo, Thu, 13:44

semantic of “release/version” is not clear, want to use solely “version”

Osama, Tue, 03:01

Goes with releases, provides rev

Ivo, OK co-sign

**Decision:** The document was **postponed**.

**C1-202269 Allow lower layer to change RRC establishment cause during voice EPS fallback**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3316 rev 1 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated, Ericsson*

(Replaces C1ah-200048)

**Decision:** The document was **revised to C1-202830**.

**C1-202830 Allow lower layer to change RRC establishment cause during voice EPS fallback**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3316 rev 2 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated, Ericsson*

(Replaces C1-202269)

**Discussion:**

Postponed

Lin, Fri, 10:03

Asking this to be postponed

Revision of C1-202269

Sung, Wed, 20:52

Fine

Lin, Thu, 09:52

Reduc the content

Osama, thu, discussing

Revision of C1ah-200048

Lin, Fri, 07:14

Has a problem with the Note

Osama, Fri, 07:24

Explaining when the use cas ein the note happens

Marko, Fri, 11:04

Seconds Lin

Osama, Fri, 17:14

Explaining

Lin, Tue, 03:58

commenting

Osama, Tue, 07:20

Asking whether he should beef up cover sheet

Osama, Tue,21:11

Looks for progress, needs preference on which way to go

Sung, Tue, 22:09

Prefers first option

Osama, Wed, 01:51

Rev

Lin, Wed, 05:23

Commenting

Osama, Wed, 07:01

Explaiing

Marko, Thu, 06:30

Perhaps a Note

Osama, Thu, 06:54

Not happy with late comment

**Decision:** The document was **postponed**.

**C1-202273 Remove invalid cases in error handling for TFT operation**

*Type: CR For: Agreement  
 24.008 v16.4.0 CR-3214 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **agreed**.

**C1-202274 Remove invalid cases in error handling for TFT operation in EPS**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3350 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **agreed**.

**C1-202334 Clarification on the UE behaviour when receiving T3448**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3351 Cat: F (Rel-16)  
  
 Source: ZTE*

**Decision:** The document was **revised to C1-202781**.

**C1-202781 Clarification on the UE behaviour when receiving T3448**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3351 rev 1 Cat: F (Rel-16)  
  
 Source: ZTE*

(Replaces C1-202334)

**Decision:** The document was **agreed**.

**C1-202421 Definition of current PLMN and serving PLMN**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3354 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated / Amer*

**Discussion:**

Postponed

Frederic, Thu, 09:08

Clauses affected missing

Ivo, Thu, 13:45

Issues wih term “current PLMN”, requrests clarification

Sung, Tue, 22:16

comments

**Decision:** The document was **postponed**.

**C1-202466 WUS assistance for emergency**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3355 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon/Lin*

**Decision:** The document was **revised to C1-202797**.

**C1-202797 WUS assistance for emergency**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3355 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon/Lin*

(Replaces C1-202466)

**Decision:** The document was **agreed**.

**C1-202467 WUS assistance for TAU**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3356 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon/Lin*

**Decision:** The document was **agreed**.

**C1-202468 Retry restriction for NB-IoT UEs due to out of tariff package**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3357 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon/Lin*

**Decision:** The document was **revised to C1-202798**.

**C1-202798 Retry restriction for NB-IoT UEs due to out of tariff package**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3357 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon/Lin*

(Replaces C1-202468)

**Decision:** The document was **agreed**.

**C1-202484 Correction on retry restriction for ESM#66**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3363 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon/Lin*

**Decision:** The document was **revised to C1-202804**.

**C1-202804 Correction on retry restriction for ESM#66**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3363 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon/Lin*

(Replaces C1-202484)

**Decision:** The document was **agreed**.

**C1-202502 NAS Message Container 2 for LPP/LCS messages**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3308 rev 2 Cat: B (Rel-16)  
  
 Source: MediaTek Inc., Qualcomm Incorporated / Marko*

(Replaces C1-198902)

**Decision:** The document was **revised to C1-202681**.

**C1-202681 NAS Message Container 2 for LPP/LCS messages**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3308 rev 3 Cat: B (Rel-16)  
  
 Source: MediaTek Inc., Qualcomm Incorporated / Marko*

(Replaces C1-202502)

**Discussion:**

Kaj, Thu, 14:11

Not in favour to add this for EPS

Lin, Fri, 04:47

in principle, we also do not support to have it in legacy EPS

Marko, Tue, 09:44

There is a requirement in stage-2

Lin, Wed, 10:14

Comments

Marko, Wed, 16:40

Fine with lin comment

Kaj, Wed, 17:42

NOT ok

Lin, Thu, 10:58

Should not do this

**Decision:** The document was **postponed**.

**C1-202511 Reset of PLMN-specific attempt counter**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3364 Cat: F (Rel-16)  
  
 Source: MediaTek Inc. / Marko*

**Decision:** The document was **revised to C1-202685**.

**C1-202685 Reset of PLMN-specific attempt counter**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3364 rev 1 Cat: F (Rel-16)  
  
 Source: MediaTek Inc. / Marko*

(Replaces C1-202511)

**Discussion:**

Agreed

Revision of C1-202511

Ivo, Wed, 12:39

Reason for change incorret

Ivo, Fr, 10:54

To Marko, JJ

If you confirm there is a problem and it will fixed in May meeting, then I am OK to agree the CR.

If you explain that I am wrong, then I am happy to agree the CR.

If there is no answer, the comment would imply postponing of the CR.

Marko, Fr, 11:00

Acks the problem, will bring a CR to May meeting

Ivo, Thu, 11:58

Reasons for change has issue, resetting counters seem strange

Osama, Thu, 19:26

On Counter reset during power OFF -> against established principles in LTE, ok to do something when USIM is removed

Sung, Thu, 21:56

Aligned with Osama, provides text

Lin, Fri, 04:59

Modifies the text from Sung

**Decision:** The document was **agreed**.

**C1-202512 Correction to Handling of T3321 timer**

*Type: CR For: Agreement  
 24.008 v16.4.0 CR-3217 Cat: F (Rel-16)  
  
 Source: MediaTek Inc. / Marko*

**Decision:** The document was **agreed**.

**C1-202513 Correction to Handling of T3421 timer**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3365 Cat: F (Rel-16)  
  
 Source: MediaTek Inc. / Marko*

**Decision:** The document was **revised to C1-202686**.

**C1-202686 Correction to Handling of T3421 timer**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3365 rev 1 Cat: F (Rel-16)  
  
 Source: MediaTek Inc. / Marko*

(Replaces C1-202513)

**Discussion:**

Agreed

Revision of C1-202513

Frederic, Thu, 09:08

Clauses affected missing

Osama, Thu, 19:36

Something wrong with case i)

**Decision:** The document was **agreed**.

**C1-202520 Correction to handling of T3447 timer**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3370 Cat: F (Rel-16)  
  
 Source: MediaTek Inc. / Marko*

**Decision:** The document was **revised to C1-202691**.

**C1-202691 Correction to handling of T3447 timer**

*Type: CR For: Agreement  
 24.301 v16.4.0 CR-3370 rev 1 Cat: F (Rel-16)  
  
 Source: MediaTek Inc. / Marko*

(Replaces C1-202520)

**Discussion:**

Agreed

Revision of C1-202520

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Frederic, Thu, 09:08

Clauses affected missing

Kaj, Thu, 13:57

1st change, we prefer to keep it on a NAS level

Lin, Fri, 05:08

Don’t touch bullet 1, not force MME to look into RRC cause in a NAS procedure

Sung, Tue, 22:01

Prefers wording from Lin

Marko, Wed, 13:04

Ok to change wording

Kaj, Wed, 16:07

Questions

Marko, wed, 16:34

Not convinced by last kaj proposal

Lin, thu 11:02

Prefers simpler one

**Decision:** The document was **agreed**.

**C1-202539 New AT command for linking packet filters +CGLNKPF**

*Type: CR For: Agreement  
 27.007 v16.4.0 CR-0687 Cat: F (Rel-16)  
  
 Source: MediaTek Inc. / JJ*

**Decision:** The document was **revised to C1-202822**.

**C1-202822 New AT command for linking packet filters +CGLNKPF**

*Type: CR For: Agreement  
 27.007 v16.4.0 CR-0687 rev 1 Cat: F (Rel-16)  
  
 Source: MediaTek Inc. / JJ*

(Replaces C1-202539)

**Discussion:**

Agreed

Revision of C1-202539

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Frederic, Thu, 13:02

Incorrect tdoc template, wrong tdoc number on the cover page

JJ, Fri, 15:04

Acks the cover sheet problem

Atle, Mon, 13:40

Comments

JJ, Mon, 14:13

Providing a rev

JJ, Mon, 17:17

New rev

Atle, Tue, 00:32

fine

**Decision:** The document was **agreed**.

**C1-202540 New AT command for deleting packet filters +CGDELPF**

*Type: CR For: Agreement  
 27.007 v16.4.0 CR-0688 Cat: F (Rel-16)  
  
 Source: MediaTek Inc. / JJ*

**Decision:** The document was **revised to C1-202823**.

**C1-202823 New AT command for deleting packet filters +CGDELPF**

*Type: CR For: Agreement  
 27.007 v16.4.0 CR-0688 rev 1 Cat: F (Rel-16)  
  
 Source: MediaTek Inc. / JJ*

(Replaces C1-202540)

**Decision:** The document was **agreed**.

**C1-202814 handling of ePWS message**

*Type: CR For: Approval  
 23.041 v16.3.0 CR-0217 rev 1 Cat: F (Rel-16)  
  
 Source: Samsung/ Kyungjoo Grace Suh*

(Replaces C1-202563)

**Decision:** The document was **agreed**.

### 16.3 WIs for IMS

#### 16.3.1 MCCI3

**C1-202286 Editorial corrections**

*Type: CR For: Agreement  
 29.582 v16.0.0 CR-0001 Cat: D (Rel-16)  
  
 Source: Sepura Ltd, Hytera Communications Corp*

**Abstract:**

Editorial corrections & typo fixes

**Decision:** The document was **revised to C1-202610**.

**C1-202610 Editorial corrections**

*Type: CR For: Agreement  
 29.582 v16.0.0 CR-0001 rev 1 Cat: D (Rel-16)  
  
 Source: Sepura Ltd, Hytera Communications Corp*

(Replaces C1-202286)

**Decision:** The document was **agreed**.

#### 16.3.2 MCProtoc16

**C1-202220 Check regroup ID**

*Type: CR For: Agreement  
 24.379 v16.4.0 CR-0553 Cat: F (Rel-16)  
  
 Source: FirstNet / Mike*

**Decision:** The document was **revised to C1-202630**.

**C1-202630 Check regroup ID**

*Type: CR For: Agreement  
 24.379 v16.4.0 CR-0553 rev 1 Cat: F (Rel-16)  
  
 Source: FirstNet / Mike*

(Replaces C1-202220)

**Decision:** The document was **agreed**.

**C1-202221 Clarification of 11.1.6.2.1.2**

*Type: CR For: Agreement  
 24.379 v16.4.0 CR-0554 Cat: F (Rel-16)  
  
 Source: FirstNet / Mike*

**Decision:** The document was **revised to C1-202631**.

**C1-202631 Clarification of 11.1.6.2.1.2**

*Type: CR For: Agreement  
 24.379 v16.4.0 CR-0554 rev 1 Cat: F (Rel-16)  
  
 Source: FirstNet / Mike*

(Replaces C1-202221)

**Decision:** The document was **agreed**.

**C1-202222 Update affiliation definition to support preconfigured regroups**

*Type: CR For: Agreement  
 24.379 v16.4.0 CR-0555 Cat: F (Rel-16)  
  
 Source: FirstNet / Mike*

**Decision:** The document was **revised to C1-202632**.

**C1-202632 Update affiliation definition to support preconfigured regroups**

*Type: CR For: Agreement  
 24.379 v16.4.0 CR-0555 rev 1 Cat: F (Rel-16)  
  
 Source: FirstNet / Mike*

(Replaces C1-202222)

**Discussion:**

Agreed

Revision of C1-202222

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Jörgen (Thu 21:03): Unclear definition.

Mike (Thu 23:12), Francois (Fri 12:00), Mike (Fri 15:54), Francois (Fri 17:10), Kiran (Fri (17:40):

Discussion on affiliation definition.

Mike (Fri 19:08)

Jörgen (Sat 18:44)

Conclusion seems to be that simplified definition is to be provided by Mike.

Francois (Tue 12:16): Fine with the revision

**Decision:** The document was **agreed**.

**C1-202223 Floor Request to Regrouped Group**

*Type: CR For: Agreement  
 24.380 v16.4.0 CR-0229 Cat: F (Rel-16)  
  
 Source: FirstNet / Mike*

**Discussion:**

Withdrawn

Jörgen (Thu 21:02):

Why define procedures for a state machine that is deleted at the same time?

Mike (Thu 21:19, Fri 15:59), Francois (Fri 12:10, Fri 17:11):

Discussion of the use case and how to best solve it.

Mike (Fri 18:29): State machine needed, should go to Start-Stop.

Jörgen (Sun 11:43): R: Merge takes the state machine to Start-Stop, so maybe it is already there?

Kiran: (Mon 15:53): Should reason for ending the call go to all participants. Keep a note on urgency of the ongoing calls before ending.

**Decision:** The document was **withdrawn**.

**C1-202551 Authorisation validation for first-to-answer call origination requesting user using pre-established session**

*Type: CR For: Agreement  
 24.379 v16.4.0 CR-0556 Cat: B (Rel-16)  
  
 Source: Samsung*

**Decision:** The document was **revised to C1-202655**.

**C1-202655 Authorisation validation for first-to-answer call origination requesting user using pre-established session**

*Type: CR For: Agreement  
 24.379 v16.4.0 CR-0556 rev 1 Cat: B (Rel-16)  
  
 Source: Samsung*

(Replaces C1-202551)

**Decision:** The document was **revised to C1-202834**.

**C1-202834 Authorisation validation for first-to-answer call origination requesting user using pre-established session**

*Type: CR For: Agreement  
 24.379 v16.4.0 CR-0556 rev 2 Cat: B (Rel-16)  
  
 Source: Samsung*

(Replaces C1-202655)

**Decision:** The document was **agreed**.

**C1-202552 Check for MCPTT ID bindng and validity period of existing binding**

*Type: CR For: Agreement  
 24.379 v16.4.0 CR-0557 Cat: C (Rel-16)  
  
 Source: Samsung*

**Decision:** The document was **revised to C1-202656**.

**C1-202656 Check for MCPTT ID bindng and validity period of existing binding**

*Type: CR For: Agreement  
 24.379 v16.4.0 CR-0557 rev 1 Cat: C (Rel-16)  
  
 Source: Samsung*

(Replaces C1-202552)

**Discussion:**

Agreed

Revision of C1-202552

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Francois (Fri 12:44): Some missing steps

Kiran (Fri 13:47): Acknowledges.

Kiran (Tue 09:23), Francois (Tue 12:22): revision in drafts folder, Francois agree.

**Decision:** The document was **agreed**.

**C1-202553 Corrections to location sharing during call setup**

*Type: CR For: Agreement  
 24.379 v16.4.0 CR-0558 Cat: F (Rel-16)  
  
 Source: Samsung*

**Decision:** The document was **revised to C1-202657**.

**C1-202657 Corrections to location sharing during call setup**

*Type: CR For: Agreement  
 24.379 v16.4.0 CR-0558 rev 1 Cat: F (Rel-16)  
  
 Source: Samsung*

(Replaces C1-202553)

**Discussion:**

Agreed

Revision of C1-202553

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Jörgen (Thu 21:12):

Some editorials and styles guidelines.

Kiran (Fri 10:55): Checking understanding.

Jörgen (Sun 15:43), Kiran (Mon 11:15), Mike (Mon: 15:07), Kiran (Mon 15:18), Jörgen (Mon 17:10): Seems to have converged on the wording.

Kiran (Tue 09:23): revision in drafts folder

**Decision:** The document was **agreed**.

**C1-202554 Corrections to current talker location in ambient call**

*Type: CR For: Agreement  
 24.379 v16.4.0 CR-0559 Cat: F (Rel-16)  
  
 Source: Samsung*

**Decision:** The document was **revised to C1-202658**.

**C1-202658 Corrections to current talker location in ambient call**

*Type: CR For: Agreement  
 24.379 v16.4.0 CR-0559 rev 1 Cat: F (Rel-16)  
  
 Source: Samsung*

(Replaces C1-202554)

**Decision:** The document was **agreed**.

**C1-202555 Corrections to step reference in terminating controlling function**

*Type: CR For: Agreement  
 24.379 v16.4.0 CR-0560 Cat: F (Rel-16)  
  
 Source: Samsung*

**Decision:** The document was **agreed**.

**C1-202556 Corrections to step reference in create a group regroup using preconfigured group**

*Type: CR For: Agreement  
 24.379 v16.4.0 CR-0561 Cat: F (Rel-16)  
  
 Source: Samsung*

**Decision:** The document was **agreed**.

**C1-202557 Corrected the client origination procedure subclause text of 11.1.6.2.1.1**

*Type: CR For: Agreement  
 24.379 v16.4.0 CR-0562 Cat: F (Rel-16)  
  
 Source: Samsung*

**Decision:** The document was **agreed**.

**C1-202558 Allow an emergency and immenit peril calls during max simultaneous sessions**

*Type: CR For: Agreement  
 24.379 v16.4.0 CR-0563 Cat: F (Rel-16)  
  
 Source: Samsung*

**Decision:** The document was **agreed**.

**C1-202559 Authentication of the MIKEY-SAKKE I\_Message validation in pre-established session**

*Type: CR For: Agreement  
 24.380 v16.4.0 CR-0230 Cat: F (Rel-16)  
  
 Source: Samsung*

**Decision:** The document was **revised to C1-202659**.

**C1-202659 Authentication of the MIKEY-SAKKE I\_Message validation in pre-established session**

*Type: CR For: Agreement  
 24.380 v16.4.0 CR-0230 rev 1 Cat: F (Rel-16)  
  
 Source: Samsung*

(Replaces C1-202559)

**Discussion:**

Postponed

Revision of C1-202559

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Jörgen (Thu 21:19): Should Reason Code field be updated instead?

Kiran (Fri 11:41): Prefer Warning text.

Jörgen (Sun 16:11): Not convinced, not clear which text to insert.

Kiran (Mon 13:21): Text messages and the mechanism exist.

Mike (Mon 15:37): Text is likely of minor value, but should continue to use it unless good reason.

Kiran (Tue 09:35): revision in drafts folder.

Jörgen (Tue 17:04), Still not convinced, should be Cat B, which code to provide is no specific enough.

Francois (Tue 17:24): Agree to not use text from 24.379. Prefer reason code. Why warning added to Disconnect message, it is not used.

**Decision:** The document was **postponed**.

**C1-202560 Talker location sharing in remote ambient call**

*Type: CR For: Agreement  
 24.380 v16.4.0 CR-0231 Cat: F (Rel-16)  
  
 Source: Samsung*

**Decision:** The document was **revised to C1-202660**.

**C1-202660 Talker location sharing in remote ambient call**

*Type: CR For: Agreement  
 24.380 v16.4.0 CR-0231 rev 1 Cat: F (Rel-16)  
  
 Source: Samsung*

(Replaces C1-202560)

**Discussion:**

Agreed

Revision of C1-202560

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Jörgen (Thu 21:21): Some clarifications needed.

Kiran (Fri 12:36): Checking understanding.

Jörgen (Sun 16:37), Kiran (Mon 13:53):

Seems converging, await further comments before revising.

Kiran (Tue 09:40): revision in drafts folder.

Jörgen (Tue 18:15), remaining editorial

Kiran (Wed 09:30) Ack, will be fixed.

Seems to have converged.

**Decision:** The document was **agreed**.

#### 16.3.3 MuD

**C1-202494 Text for empty headings**

*Type: CR For: (not specified)  
 24.174 v16.0.0 CR-0001 Cat: F (Rel-16)  
  
 Source: Ericsson /Jörgen*

**Decision:** The document was **agreed**.

**C1-202586 Reference update for PASSporT Extension for Diverted Calls**

*Type: CR For: Agreement  
 24.174 v16.0.0 CR-0002 Cat: F (Rel-16)  
  
 Source: Orange / Mariusz*

**Decision:** The document was **agreed**.

#### 16.3.4 IMSProtoc16

**C1-202167 Adding the definition and criteria for availability of IMS Data Services**

*Type: CR For: Agreement  
 24.229 v16.5.0 CR-6415 Cat: B (Rel-16)  
  
 Source: MediaTek Inc., Apple*

**Abstract:**

During CT#121 meeting in Reno, the discussion paper “C1-198436” was presented to highlight the reason and need for adding a separate indication in “EPS network feature support “ IE so that network can inform its ability to support for IMS Data Services (

**Discussion:**

Postponed

Based on authors request, friday

Frederic (Thursday 13:13):

Styles corrupted, mark which clauses are new, remove and in bullet 1) and 2) of B.3.1.2B and U.3.1.2B.

Simon (Thu 18:03):

Not needed. References previous discussions. See the mail.

Jörgen (Thu 21:33):

Indicate dependency to NAS contribution.

Data off might need stage 1, some other details.

Rohit (Fri 06:17, 07:38):

Useful for RCS, data should be separated from voice.

Will indicate dependency and fix issues in update. Can stage 1 be added later?

Takayuki (Fri 09:22):

Is IMS data services defined somewhere?

Bill (Sat 8:53): See no need.

Rohit (Mon 03:12): Further motivations why this is necessary.

Simon (Mon 19:00), Rohit (Tue 11:30):

Further discussion and no conclusion yet.

Simon (Wed 05:40), Rohit (Wed 11:33), Yoshihiro (Wed 12:49): No convergence between Simon and Rohit. Yoshir asking about stage1/stage2 requirements.

**Decision:** The document was **postponed**.

#### 16.3.5 MCSMI\_CT

#### 16.3.6 eMCData2

**C1-202023 Deposit an object**

*Type: CR For: Agreement  
 24.282 v16.3.0 CR-0118 Cat: B (Rel-16)  
  
 Source: AT&T, Samsung*

**Decision:** The document was **revised to C1-202637**.

**C1-202637 Deposit an object**

*Type: CR For: Agreement  
 24.282 v16.3.0 CR-0118 rev 1 Cat: B (Rel-16)  
  
 Source: AT&T, Samsung*

(Replaces C1-202023)

**Discussion:**

Agreed

Revision of C1-202023

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Frederic (Thu 14:23):

Cover sheet issues:

- Wrong rev counter: should have been ‘-‘. This also applies to several CRs of this set: C1-202024, 2026, 2027, 2028, 2029, 2030

Jörgen (Fri 15:43): Some editorials, question on configuration.

Shahram (Fri 16:48, Fri 17:34): Responses

Shahram (Sat 05:35): Typo in previous mail

Jörgen (Sun 16:53): Any MO in 24.483?

Shahram (Mon 09:22): This is the server that is configured. Should MO clauses reference RCC.14?

Jörgen (Mon 19:01): Clarification of previous comments.

Shahram (Tue 09:26):

[draft] C1-202637 was C1-202023.docx is now available in inbox/drafts.

**Decision:** The document was **agreed**.

**C1-202024 Create a subscription to notifications**

*Type: CR For: Agreement  
 24.282 v16.3.0 CR-0119 Cat: B (Rel-16)  
  
 Source: AT&T*

**Decision:** The document was **revised to C1-202640**.

**C1-202640 Create a subscription to notifications**

*Type: CR For: Agreement  
 24.282 v16.3.0 CR-0119 rev 1 Cat: B (Rel-16)  
  
 Source: AT&T*

(Replaces C1-202024)

**Decision:** The document was **agreed**.

**C1-202025 Delete a subscription to notifications**

*Type: CR For: Agreement  
 24.282 v16.3.0 CR-0120 Cat: B (Rel-16)  
  
 Source: AT&T, Samsung*

**Decision:** The document was **revised to C1-202641**.

**C1-202641 Delete a subscription to notifications**

*Type: CR For: Agreement  
 24.282 v16.3.0 CR-0120 rev 1 Cat: B (Rel-16)  
  
 Source: AT&T, Samsung*

(Replaces C1-202025)

**Decision:** The document was **agreed**.

**C1-202026 Update a subscription to notifications**

*Type: CR For: Agreement  
 24.282 v16.3.0 CR-0121 Cat: B (Rel-16)  
  
 Source: AT&T, Samsung*

**Decision:** The document was **revised to C1-202643**.

**C1-202643 Update a subscription to notifications**

*Type: CR For: Agreement  
 24.282 v16.3.0 CR-0121 rev 1 Cat: B (Rel-16)  
  
 Source: AT&T, Samsung*

(Replaces C1-202026)

**Decision:** The document was **agreed**.

**C1-202027 Synchronization notification**

*Type: CR For: Agreement  
 24.282 v16.3.0 CR-0122 Cat: B (Rel-16)  
  
 Source: AT&T*

**Decision:** The document was **revised to C1-202646**.

**C1-202646 Synchronization notification**

*Type: CR For: Agreement  
 24.282 v16.3.0 CR-0122 rev 1 Cat: B (Rel-16)  
  
 Source: AT&T*

(Replaces C1-202027)

**Decision:** The document was **agreed**.

**C1-202028 Search-based Synchronization**

*Type: CR For: Agreement  
 24.282 v16.3.0 CR-0123 Cat: B (Rel-16)  
  
 Source: AT&T*

**Decision:** The document was **revised to C1-202647**.

**C1-202647 Search-based Synchronization**

*Type: CR For: Agreement  
 24.282 v16.3.0 CR-0123 rev 1 Cat: B (Rel-16)  
  
 Source: AT&T*

(Replaces C1-202028)

**Decision:** The document was **agreed**.

**C1-202029 List folder**

*Type: CR For: Agreement  
 24.282 v16.3.0 CR-0124 Cat: B (Rel-16)  
  
 Source: AT&T, Samsung*

**Decision:** The document was **revised to C1-202649**.

**C1-202649 List folder**

*Type: CR For: Agreement  
 24.282 v16.3.0 CR-0124 rev 1 Cat: B (Rel-16)  
  
 Source: AT&T, Samsung*

(Replaces C1-202029)

**Decision:** The document was **agreed**.

**C1-202030 Typo fixes**

*Type: CR For: Agreement  
 24.282 v16.3.0 CR-0125 Cat: D (Rel-16)  
  
 Source: AT&T*

**Decision:** The document was **revised to C1-202677**.

**C1-202677 Typo fixes**

*Type: CR For: Agreement  
 24.282 v16.3.0 CR-0125 rev 1 Cat: D (Rel-16)  
  
 Source: AT&T*

(Replaces C1-202030)

**Decision:** The document was **agreed**.

**C1-202260 Support for MCData emergency alert and communications**

*Type: CR For: Approval  
 24.282 v16.3.0 CR-0126 Cat: B (Rel-16)  
  
 Source: AT&T / Val*

**Decision:** The document was **revised to C1-202771**.

**C1-202771 Support for MCData emergency alert and communications**

*Type: CR For: Approval  
 24.282 v16.3.0 CR-0126 rev 1 Cat: B (Rel-16)  
  
 Source: AT&T / Val*

(Replaces C1-202260)

**Discussion:**

Agreed

Revision of C1-202260

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Kiran (Thu 12:27):

Some thoughts on this CR, and mostly apply to similar CRs:

We should cover for the emergency alert functionalities as of today as we have other supporting CRs for the emergency alert functionalities. The subclause related to communication shall be added once we include the emergency flows for the MCData sub functionalities such as SDS and FD. As both the sub-services has session and non-session based flows and requires careful considerations.

Val (Sun 04:28, Sun 22:15): Response to Kirans comment, draft uploaded in drafts folder.

Jörgen (Mon 13:24): Align affiliation with Mike's 2222, schema not BW compatible.

Mike (Mon 18:28), Val (Tue 09:10), KiranTue (13:58, 15:32): Common understanding of definition and adding Editor's Notes.

Abhishek (Tue 18:58): Define MCData emergency alert and MCData emergency communication.

**Decision:** The document was **agreed**.

**C1-202262 Emergency Alerts for MCData – client procedures**

*Type: CR For: Approval  
 24.282 v16.3.0 CR-0127 Cat: B (Rel-16)  
  
 Source: AT&T / Val*

**Decision:** The document was **revised to C1-202761**.

**C1-202761 Emergency Alerts for MCData – client procedures**

*Type: CR For: Approval  
 24.282 v16.3.0 CR-0127 rev 1 Cat: B (Rel-16)  
  
 Source: AT&T / Val*

(Replaces C1-202262)

**Discussion:**

Agreed

Revision of C1-202262

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Kiran (Thu 12:44):

1) The 'emergency-ind' and 'MCData emergency group communication state' handling procedures may be added later once we bring the communication related procedures.

2) The steps 2) c), 3) and 4) in subclause 16.2.1.3, shall not be included as there are no relevant procedures are available. As per the CR, we should cover only for the emergency alert functionalities.

3) In subclause 6.2.1.1, the indication 'emergency-ind' shall be removed from the description.

Val (Sun 04:40, Mon (06:12): Response to Kiran's points. Will use editor's notes. Uploaded draft\_rev1\_C1-202262\_24282CR127\_EmrgAlrt\_MCData\_client.doc in the drafts folder

Val (Tue 09:33), Kiran (Tue 14:07, Tue 15:32):

Rev 2 of draft, Kiran OK with way forward and rev 2. Draft: draft\_rev2\_Obsoletes\_rev1\_C1-202262\_24282CR127\_EmrgAlrt\_MCData\_client.doc

**Decision:** The document was **agreed**.

**C1-202281 Handling of MCData Emergency Alerts at the MCData participating servers**

*Type: CR For: Approval  
 24.282 v16.3.0 CR-0128 Cat: B (Rel-16)  
  
 Source: AT&T / Val*

**Decision:** The document was **revised to C1-202755**.

**C1-202755 Handling of MCData Emergency Alerts at the MCData participating servers**

*Type: CR For: Approval  
 24.282 v16.3.0 CR-0128 rev 1 Cat: B (Rel-16)  
  
 Source: AT&T / Val*

(Replaces C1-202281)

**Discussion:**

Agreed

Revision of C1-202281

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Kiran (Thu 12:45):

The 'emergency-ind' handling procedures may be added later once we bring the communication related procedures.

In subclause 16.2.2.2, The step 1) which covers the indication 'emergency-ind' shall be removed. We should cover only for the emergency alert functionalities as per the CR.

Francois (Fri 15:04, 17:21), Mike (16:15): Further discussion on applicability of the note.

Val (Sun 02:38, Sun 06:20, Mon 06:46):

Some responses, and draft\_rev1\_C1-202281\_24282CR128\_EmrgAlrt\_MCData\_participSrvr.doc uploaded in the drafts folder.

Francois Tue (12:24), Kiran (14:08, 15:45): Fine with the revision

**Decision:** The document was **agreed**.

**C1-202287 Handling of MCData Emergency Alerts at the MCData controlling server**

*Type: CR For: Approval  
 24.282 v16.3.0 CR-0129 Cat: B (Rel-16)  
  
 Source: AT&T / Val*

**Decision:** The document was **revised to C1-202754**.

**C1-202754 Handling of MCData Emergency Alerts at the MCData controlling server**

*Type: CR For: Approval  
 24.282 v16.3.0 CR-0129 rev 1 Cat: B (Rel-16)  
  
 Source: AT&T / Val*

(Replaces C1-202287)

**Discussion:**

Agreed

Revision of C1-202287

Kiran (Thu 12:45):

The 'emergency-ind' handling procedures may be added later once we bring the communication related procedures.

- In subclause 16.2.3.2, Which covers the indication 'emergency-ind' shall be removed. We should cover only for the emergency alert functionalities as per the CR.

Val (Sun 06:25, Mon 07:55): Prefer keeping the functions, will add editor's notes, uploaded draft\_rev1\_C1-202287\_24282CR129\_EmrgAlrt\_MCData\_cntrlingSrvr.doc to drafts folder.

Kiran (Tue 15:42): Fine with revision.

**Decision:** The document was **agreed**.

**C1-202288 Auxiliary procedures in support of Emergency Alerts for MCData**

*Type: CR For: Approval  
 24.282 v16.3.0 CR-0130 Cat: B (Rel-16)  
  
 Source: AT&T / Val*

**Decision:** The document was **revised to C1-202751**.

**C1-202751 Auxiliary procedures in support of Emergency Alerts for MCData**

*Type: CR For: Approval  
 24.282 v16.3.0 CR-0130 rev 1 Cat: B (Rel-16)  
  
 Source: AT&T / Val*

(Replaces C1-202288)

**Discussion:**

Agreed

Revision of C1-202288

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Kiran (Thu 12:25):

The subclause 6.3.7.1.1 shall be added once we include the emergency flows for the MCData sub functionalities such as SDS and FD. As both the sub-services has session and non-session based flows and requires careful considerations.

Val (Sun 06:36, Mon 08:42): Editor's note added, draft\_rev1\_C1-202288\_24282CR130\_AuxProcEmrgAlrt\_MCData.doc in draft folder.

Kiran (Tue 15:33): Fine with revision.

**Decision:** The document was **agreed**.

**C1-202386 Configuration of resource priority for MCData emergency**

*Type: CR For: Approval  
 24.484 v16.5.0 CR-0137 Cat: B (Rel-16)  
  
 Source: AT&T / Val*

**Decision:** The document was **revised to C1-202750**.

**C1-202750 Configuration of resource priority for MCData emergency**

*Type: CR For: Approval  
 24.484 v16.5.0 CR-0137 rev 1 Cat: B (Rel-16)  
  
 Source: AT&T / Val*

(Replaces C1-202386)

**Decision:** The document was **agreed**.

**C1-202452 Fix minor issues in MCData pre-etsblished session**

*Type: CR For: Agreement  
 24.282 v16.3.0 CR-0131 Cat: F (Rel-16)  
  
 Source: Samsung / Sapan*

**Decision:** The document was **revised to C1-202794**.

**C1-202794 Fix minor issues in MCData pre-etsblished session**

*Type: CR For: Agreement  
 24.282 v16.3.0 CR-0131 rev 1 Cat: F (Rel-16)  
  
 Source: Samsung / Sapan*

(Replaces C1-202452)

**Decision:** The document was **agreed**.

**C1-202550 Corrections to file upload-download procedure as per stage 2 architecture changes**

*Type: CR For: Agreement  
 24.282 v16.3.0 CR-0133 Cat: F (Rel-16)  
  
 Source: Samsung*

**Decision:** The document was **revised to C1-202654**.

**C1-202654 Corrections to file upload-download procedure as per stage 2 architecture changes**

*Type: CR For: Agreement  
 24.282 v16.3.0 CR-0133 rev 1 Cat: F (Rel-16)  
  
 Source: Samsung*

(Replaces C1-202550)

**Decision:** The document was **revised to C1-202835**.

**C1-202835 Corrections to file upload-download procedure as per stage 2 architecture changes**

*Type: CR For: Agreement  
 24.282 v16.3.0 CR-0133 rev 2 Cat: F (Rel-16)  
  
 Source: Samsung*

(Replaces C1-202654)

**Decision:** The document was **agreed**.

#### 16.3.7 E2E\_DELAY (CT4)

#### 16.3.8 VBCLTE (CT3 lead)

#### 16.3.9 ISAT-MO-WITHDRAW

#### 16.3.10 MONASTERY2

**C1-202496 IPConnectivity extension to include IP Information**

*Type: CR For: Agreement  
 24.483 v16.3.0 CR-0067 Cat: C (Rel-16)  
  
 Source: Kontron Transportation France*

**Decision:** The document was **revised to C1-202883**.

**C1-202883 IPConnectivity extension to include IP Information**

*Type: CR For: Agreement  
 24.483 v16.3.0 CR-0067 rev 1 Cat: C (Rel-16)  
  
 Source: Kontron Transportation France*

(Replaces C1-202496)

**Decision:** The document was **agreed**.

**C1-202497 IPConnectivity extension to include IP Information**

*Type: CR For: Agreement  
 24.484 v16.5.0 CR-0138 Cat: C (Rel-16)  
  
 Source: Kontron Transportation France*

**Decision:** The document was **revised to C1-202884**.

**C1-202884 IPConnectivity extension to include IP Information**

*Type: CR For: Agreement  
 24.484 v16.5.0 CR-0138 rev 1 Cat: C (Rel-16)  
  
 Source: Kontron Transportation France*

(Replaces C1-202497)

**Decision:** The document was **agreed**.

**C1-202498 IPConnectivity extension to include IP Information**

*Type: CR For: Agreement  
 24.282 v16.3.0 CR-0132 Cat: C (Rel-16)  
  
 Source: Kontron Transportation France*

**Decision:** The document was **revised to C1-202885**.

**C1-202885 IPConnectivity extension to include IP Information**

*Type: CR For: Agreement  
 24.282 v16.3.0 CR-0132 rev 1 Cat: C (Rel-16)  
  
 Source: Kontron Transportation France*

(Replaces C1-202498)

**Decision:** The document was **agreed**.

**C1-202566 Work plan for the CT1 part of MONASTERY2**

*Type: discussion For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**C1-202567 Sub/Notify FA resolution analysis**

*Type: discussion For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Francois (Fri 16:40):

Disagrees with comments on cons with SUBSCRIBE/NOTIFY.

**Decision:** The document was **noted**.

**C1-202568 Resolution of called functional alias in first-to-answer calls**

*Type: CR For: (not specified)  
 24.379 v16.4.0 CR-0564 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to C1-202905**.

**C1-202905 Resolution of called functional alias in first-to-answer calls**

*Type: CR For: -  
 24.379 v16.4.0 CR-0564 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces C1-202568)

**Discussion:**

Francois: reservation

Dom: reservation

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Kiran (Thursday 11:09):

- In subclause 11.1.1.4.2, step 12) a) can be reworded from "by generating a SIP INVITE request as specified in subclause 9A.2.2.2.x;" to "by performing actions as specified in subclause 9A.2.2.2.x;".

- In subclause 9A.2.2.2.x, There is no end quote for 'Upon receipt of a "'.

- In subclause 9A.2.2.2.x, the heading can be reworded from "Functional alias resolution from MCPTT server owning functional alias procedure" to either "Sending functional alias resolution request towards MCPTT server owning the functional alias procedure" or "Receiving functional alias resolution request from MCPTT client procedure".

- In subclause 9A.2.2.3.x, the heading can be reworded from "Functional alias resolution procedure" to "Receiving functional alias resolution request procedure".

- In subclause 9A.2.2.2.x, the new INVITE request has been generated and sent to the MCPTT server owning the Functional alias, on receiving the response there is no procedure defined to respond back to the request which is received.

- In subclause 11.1.1.4.2, step 12) b) can be reworded based on above point and shouldn't refer to 9A.2.2.3.x. Shall refer to same entity handling request and response

- In subclause 9A.2.2.3.x, step 2) a) and b) of the response will have duplicate copy of data. We need to somehow manage to have one copy of data.

Francois (Fri 16:53):

Security issues with MCPTT ID, <mcptt-request-uri> element does not support a list.

**Decision:** The document was **postponed**.

**C1-202569 Update service configuration to support limiting the number of authorized clients per MCPTT user**

*Type: CR For: (not specified)  
 24.484 v16.5.0 CR-0139 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Postponed

Kirin (Thursday 11:09):

Harmonize the wordings from stage 2 to avoid the confusion. For e.g 'if the number of simultaneous service authorizations for that MCPTT user "

Francois (Fri 17:00):

Should be user profile?

Lazaros (Tue 13:22), Francois (13:50), Kiran (16:27), Lazaros (17:26), Francois (17:54):

Kiran fine with handling of his comments. Francois wants LS to SA1 (ccSA6) to ask if a parameter is in service configuration or user profile.

LS proposed to be sent to SA1, cc SA6.

**Decision:** The document was **postponed**.

**C1-202570 Updated WID MONASTERY2**

*Type: WID revised For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **agreed**.

#### 16.3.11 eIMS5G\_SBA

**C1-202066 No impact from SBA on main body**

*Type: CR For: Agreement  
 24.229 v16.5.0 CR-6408 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell, Ericsson*

(Replaces C1-200353)

**Decision:** The document was **agreed**.

**C1-202099 Support scenario where the SCC AS sends a request to the HSS to retrieve the SRVCC data for the UE**

*Type: CR For: Agreement  
 24.237 v16.3.0 CR-1299 Cat: B (Rel-16)  
  
 Source: BlackBerry UK Ltd.*

**Discussion:**

Ivo (Thursday 13:47):- the 5G SRVCC should be indicated using "ue5GSrvccCapability".

- UDM is unaware of UE's capability for SRVCC from E-UTRAN to GERAN/UTRAN as the UE only indicates this capability in EPS.

John-Luc (Thursday 17:45): Whether or not the UDM knows this capability is not relevant in this CR.

Please note that Nhss\_imsSubscriberDataManagement Service API is between the SCC AS and HSS, per subclause 4.1 of 29.562.

TS 29.526 actually specifies an attribute by the name “ueSrvccCapabilities”, which is an array of capabilities

Ivo (Friday 14:44):

the comments still stand:

- UDM is unaware of UE's capability for SRVCC from E-UTRAN to GERAN/UTRAN as the UE only indicates this capability in EPS.

John-Luc (Friday 14:47):

How does the comment apply to the CR?

The behavior specified in the CR is based on informati0on received from the HSS, not from the UDM.

Ivo (Tue 01:10, 11:15), John-Luc (Tue 02:03, 16:16): Continued discussion. After todays conf call now discussion on merging.

**Decision:** The document was **revised to C1-202675**.

**C1-202675 Support scenario where the SCC AS sends a request to the HSS to retrieve the SRVCC data for the UE**

*Type: CR For: Agreement  
 24.237 v16.3.0 CR-1299 rev 1 Cat: B (Rel-16)  
  
 Source: BlackBerry UK Ltd.*

(Replaces C1-202099)

**Discussion:**

merged into 2133 and its revisions

**Decision:** The document was **merged**.

#### 16.3.12 enh2MCPTT-CT

#### 16.3.13 eIMSVideo

**C1-202155 Use preconditions for CAT when originating UE supports precondition**

*Type: CR For: Approval  
 24.182 v16.2.0 CR-0119 Cat: B (Rel-16)  
  
 Source: Huawei,China Telecom,China Unicom,HiSilicon /Hongxia*

**Decision:** The document was **revised to C1-202604**.

**C1-202604 Use preconditions for CAT when originating UE supports precondition**

*Type: CR For: Approval  
 24.182 v16.2.0 CR-0119 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei,China Telecom,China Unicom,HiSilicon /Hongxia*

(Replaces C1-202155)

**Decision:** The document was **revised to C1-202891**.

**C1-202891 Use preconditions for CAT when originating UE supports precondition**

*Type: CR For: Approval  
 24.182 v16.2.0 CR-0119 rev 2 Cat: B (Rel-16)  
  
 Source: Huawei,China Telecom,China Unicom,HiSilicon /Hongxia*

(Replaces C1-202604)

**Decision:** The document was **agreed**.

**C1-202156 Use preconditions for CRS when terminating UE supports precondition**

*Type: CR For: Approval  
 24.183 v16.3.0 CR-0063 Cat: B (Rel-16)  
  
 Source: Huawei,China Telecom,China Unicom,HiSilicon /Hongxia*

**Decision:** The document was **revised to C1-202605**.

**C1-202605 Use preconditions for CRS when terminating UE supports precondition**

*Type: CR For: Approval  
 24.183 v16.3.0 CR-0063 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei,China Telecom,China Unicom,HiSilicon /Hongxia*

(Replaces C1-202156)

**Decision:** The document was **revised to C1-202863**.

**C1-202863 Use preconditions for CRS when terminating UE supports precondition**

*Type: CR For: Approval  
 24.183 v16.3.0 CR-0063 rev 2 Cat: B (Rel-16)  
  
 Source: Huawei,China Telecom,China Unicom,HiSilicon /Hongxia*

(Replaces C1-202605)

**Discussion:**

Agreed

Revision of C1-202605

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Revision of C1-202156

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Simon (Thu 18:32):

Statement that UE indicates Support for precondition in 18x without receiving support indication in INVITE breaks 24.229.

Jörgen (Thu 21:56):

Agree on the 18x issue, somewhat problematic to offer new media in UPDATE as the user cannot indicate consent and resources most likely not available.

Helen (Fri 11:51):

Don't want to add precondition in INVITE. Can AS use precondition anyway based on local policy?

Simon (Sat 00:36) Not possible according to 24.229.

Helen (Sat 11:38), Jörgen (Sun 23:05), Simon (Mon 05:13), Helen (Mon 05:17): Some further description on principles. Seems to start converging.

Simon (Mon 20:17), Jörgen (Mon23:13), Helen (Tue 04:25): Some comments on precondition to term side, new draft uploaded:

draft 2605

Jörgen (Tue 15:04): Answers to questions

**Decision:** The document was **agreed**.

**C1-202356 Restrictions of providing video announcement**

*Type: CR For: Approval  
 24.628 v16.1.0 CR-0076 Cat: C (Rel-16)  
  
 Source: China Telecom,Huawei,China Unicom,HiSilicon / Michelle*

**Decision:** The document was **revised to C1-202817**.

**C1-202817 Restrictions of providing video announcement**

*Type: CR For: Approval  
 24.628 v16.1.0 CR-0076 rev 1 Cat: C (Rel-16)  
  
 Source: China Telecom,Huawei,China Unicom,HiSilicon / Michelle*

(Replaces C1-202356)

**Decision:** The document was **agreed**.

#### 16.3.14 Other Rel-16 IMS & MC issues

**C1-202072 Correction in CRS interactions with CDIV**

*Type: CR For: Agreement  
 24.183 v16.3.0 CR-0062 Cat: F (Rel-16)  
  
 Source: Orange / Mariusz*

**Decision:** The document was **agreed**.

**C1-202080 UE must not render local tones in case of call is being forwarded or call is queued**

*Type: CR For: Agreement  
 24.628 v16.1.0 CR-0075 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **agreed**.

**C1-202081 NG eCall support over NR connected to the 5GC**

*Type: CR For: Agreement  
 24.229 v16.5.0 CR-6414 Cat: C (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **agreed**.

**C1-202090 Correction in IMS\_Registration\_handling policy about how UE should deregister**

*Type: CR For: Agreement  
 24.229 v16.5.0 CR-6404 rev 6 Cat: F (Rel-16)  
  
 Source: MediaTek Inc.*

(Replaces C1-199028)

**Decision:** The document was **revised to C1-202590**.

**C1-202132 Discussion on SRVCC from E-UTRAN to GERAN/UTRAN when IMS voice call is initiated in 5GS**

*Type: discussion For: (not specified)  
 Source: Ericsson / Ivo*

(Replaces C1-200940)

**Decision:** The document was **noted**.

**C1-202133 SRVCC from E-UTRAN to GERAN/UTRAN when IMS voice call is initiated in 5GS**

*Type: CR For: (not specified)  
 24.237 v16.3.0 CR-1298 rev 2 Cat: F (Rel-16)  
  
 Source: Ericsson, Qualcomm Incorporated / Ivo*

(Replaces C1-200941)

**Decision:** The document was **revised to C1-202837**.

**C1-202837 SRVCC from E-UTRAN to GERAN/UTRAN when IMS voice call is initiated in 5GS**

*Type: CR For: -  
 24.237 v16.3.0 CR-1298 rev 3 Cat: F (Rel-16)  
  
 Source: Ericsson, Qualcomm Incorporated / Ivo*

(Replaces C1-202133)

**Decision:** The document was **agreed**.

**C1-202488 Clean-up**

*Type: CR For: (not specified)  
 24.183 v16.3.0 CR-0064 Cat: F (Rel-16)  
  
 Source: Ericsson /Jörgen*

**Decision:** The document was **revised to C1-202785**.

**C1-202785 Clean-up**

*Type: CR For: -  
 24.183 v16.3.0 CR-0064 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson /Jörgen*

(Replaces C1-202488)

**Decision:** The document was **revised to C1-202917**.

**C1-202917 Clean-up**

*Type: CR For: -  
 24.183 v16.3.0 CR-0064 rev 2 Cat: F (Rel-16)  
  
 Source: Ericsson /Jörgen*

(Replaces C1-202785)

**Decision:** The document was **agreed**.

**C1-202500 Correction on rendering local tones**

*Type: CR For: (not specified)  
 24.628 v16.1.0 CR-0077 Cat: F (Rel-16)  
  
 Source: Ericsson, Deutsche Telekom /Jörgen*

**Decision:** The document was **revised to C1-202887**.

**C1-202887 Correction on rendering local tones**

*Type: CR For: -  
 24.628 v16.1.0 CR-0077 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson, Deutsche Telekom /Jörgen*

(Replaces C1-202500)

**Decision:** The document was **postponed**.

**C1-202590 Correction in IMS\_Registration\_handling policy about how UE should deregister**

*Type: CR For: Agreement  
 24.229 v16.5.0 CR-6404 rev 7 Cat: F (Rel-16)  
  
 Source: MediaTek Inc.*

(Replaces C1-202090)

**Decision:** The document was **revised to C1-202759**.

**C1-202759 Correction in IMS\_Registration\_handling policy about how UE should deregister**

*Type: CR For: Agreement  
 24.229 v16.5.0 CR-6404 rev 8 Cat: F (Rel-16)  
  
 Source: MediaTek Inc.*

(Replaces C1-202590)

**Discussion:**

Agreed

C1-202090 was proived on time and has been reviewed. C1-202590 was revised before submission and not provided. This document is considered a revision of C1-202090.

Revision of C1-202590

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Not provided on time

Revision of C1-202090

Revision of C1-199028

**Decision:** The document was **agreed**.

## 17 void

## 18 Output liaison statements

**C1-202012 Reply LS on Manual CAG ID selection and granularity of UAC parameters for PNI-NPNs**

*Type: LS out For: (not specified)  
 to RAN2, cc SA1, SA2, RAN3  
 Source: Ericsson / Ivo*

**Decision:** The document was **withdrawn**.

**C1-202067 Reply LS on 5G Steering of Roaming**

*Type: LS out For: Approval  
 to CT4  
 Source: Orange / Mariusz*

**Decision:** The document was **revised to C1-202668**.

**C1-202668 Reply LS on 5G Steering of Roaming**

*Type: LS out For: Approval  
 to CT4  
 Source: Orange / Mariusz*

(Replaces C1-202067)

**Decision:** The document was **approved**.

**C1-202103 Reply LS on Manual CAG ID selection and granularity of UAC parameters for PNI-NPNs**

*Type: LS out For: Approval  
 to RAN2, cc SA1, SA2, RAN3  
 Source: Qualcomm Incorporated / Lena*

**Discussion:**

Merged into C1-202240

Chairman, based on confcall#1

Reply to incoming LS in C1-202045

Ivo, Thu, 13:49

Answer to Q 1.3 not OK

**Decision:** The document was **merged**.

**C1-202151 LS on subscribe/notify for 5G Steering of Roaming**

*Type: LS out For: Decision  
 to CT4, SA2  
 Source: DOCOMO Communications Lab.*

**Discussion:**

Merged into C1-202067

Chairman, based on conf call

Reply to incoming LS in C1-202041

Ivo, Thu, 13:51

Prefers mechanism as in C1-202069, hence, prefers LS in C1-202067

Ivo, Mon, 12:37

commenting

**Decision:** The document was **merged**.

**C1-202180 [draft] Reply LS on Manual CAG ID selection and granularity of UAC parameters for PNI-NPNs**

*Type: LS out For: Approval  
 to RAN2, cc SA2, SA1, RAN3  
 Source: vivo*

**Discussion:**

Merged into C1-202240

Chairman, based on confcall#1

Reply to incoming LS in C1-202045

Ivo, Thu, 13:52

1.1 to be provided by SA2, 1.2 inonsitent, 1.3 not OK

Lena, Mon, 00:27

1.1 outside CT1, disagrees wih 1.2, 1.3 and 2.2 OK

Yanchao, Mon, 11:58

Asking for info from Lena

**Decision:** The document was **merged**.

**C1-202204 LS on PWS Test Flag**

*Type: LS out For: Approval  
 to RAN3  
 Source: one2many B.V.*

**Decision:** The document was **postponed**.

**C1-202232 LS on Concurrent Broadcasting for CMAS**

*Type: LS out For: (not specified)  
 to RAN3  
 Source: Ericsson / Mikael*

**Decision:** The document was **revised to C1-202916**.

**C1-202916 LS on Concurrent Broadcasting for CMAS**

*Type: LS out For: -  
 to RAN3  
 Source: Ericsson / Mikael*

(Replaces C1-202232)

**Decision:** The document was **approved**.

**C1-202240 Reply LS on Manual CAG ID selection and granularity of UAC parameters for PNI-NPNs**

*Type: LS out For: Approval  
 to RAN2, cc RAN3, SA1, SA2  
 Source: Huawei, HiSilicon / Vishnu*

**Decision:** The document was **revised to C1-202846**.

**C1-202846 Reply LS on Manual CAG ID selection and granularity of UAC parameters for PNI-NPNs**

*Type: LS out For: Approval  
 to RAN2, cc RAN3, SA1, SA2  
 Source: Huawei, HiSilicon / Vishnu*

(Replaces C1-202240)

**Decision:** The document was **approved**.

**C1-202359 LS Response on Manual CAG ID selection and granularity of UAC parameters for PNI-NPNs**

*Type: LS out For: (not specified)  
 to SA1, SA2, RAN2, cc RAN3  
 Source: Samsung/Kundan*

**Discussion:**

Merged into C1-202240

Chairman, based on confcall#1

Shifted from 16.2.7.1

Reply to incoming LS in C1-202045

Ivo, Thu, 13:32

Does not agree with answer to 1.3

**Decision:** The document was **merged**.

**C1-202400 LS on manual CAG selection**

*Type: LS out For: Approval  
 to RAN2, cc SA1, SA2  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces C1-201053)

**Decision:** The document was **revised to C1-202927**.

**C1-202927 LS on manual CAG selection**

*Type: LS out For: Approval  
 to RAN2, cc SA1, SA2  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces C1-202400)

**Decision:** The document was **approved**.

**C1-202474 LS on handling pending NSSAI during ongoing NSSAA**

*Type: LS out For: Approval  
 to SA2, cc CT4  
 Source: Huawei, HiSilicon/Lin*

**Discussion:**

Postponed

Lin wanted this to be postponed in ConfCall#3

Related to C1-202472 (discussion paper) and C1-202473 (CR).

Roozbeh, Mon, 22.07

Not convinced it is needed, would not object

Atle, Tue, 02:39

Do not agree to send the LS at least not in its current form

Sung, Tue, 07:31

Asking from atle info on SA2 docs

Atle, Tue, 10:04

Gives a tdoc number

Kaj, Tue, 13:53

If sa2 gets agreed, then no need to send the LS

Atle, Tue, 14:14

Sa2 conclucion to be seen

Atle, Wed, 00:15

Does not agree to this LS

Lin, Wed, 04:53

If SA2 cr gets agreed, then LS is not needed

Atle, Wed, 07:46

Against sending the LS

**Decision:** The document was **postponed**.

**C1-202487 LS on 3GPP based access authentication for untrusted non-3GPP access to 5GCN**

*Type: LS out For: (not specified)  
 to SA3, cc SA2  
 Source: Ericsson / Ivo*

**Decision:** The document was **revised to C1-202911**.

**C1-202911 LS on 3GPP based access authentication for untrusted non-3GPP access to 5GCN**

*Type: LS out For: -  
 to SA3, cc SA2  
 Source: Ericsson / Ivo*

(Replaces C1-202487)

**Decision:** The document was **postponed**.

**C1-202564 Reply LS on concurrent Broadcasting for CMAS**

*Type: LS out For: Approval  
 to RAN3  
 Source: Samsung/ Kyungjoo Grace Suh*

**Discussion:**

Merged into C1-202232 and its revisions

Chairman, based onconfcall#1

Reply to incoming LS in C1-202046/C1-202597

Lena, Mon, 00:30

Prefers the LS out in 2232

**Decision:** The document was **merged**.

**C1-202617 LS on manipulation of CAG Information element by a VPLMN**

*Type: LS out For: Approval  
 to SA2, cc SA3  
 Source: Samsung R&D Institute India*

**Decision:** The document was **approved**.

**C1-202624 Reply LS on Non-UE N2 Message Services Operations**

*Type: LS out For: Approval  
 to SA2, cc CT4  
 Source: one2many B.V.*

**Decision:** The document was **revised to C1-202663**.

**C1-202663 Reply LS on Non-UE N2 Message Services Operations**

*Type: LS out For: Approval  
 to SA2, cc CT4  
 Source: one2many B.V.*

(Replaces C1-202624)

**Decision:** The document was **approved**.

**C1-202665 LS on the requirement that non-3GPP access node selection information includes an "any PLMN" entry**

*Type: LS out For: Approval  
 to SA2, cc SA3-LI  
 Source: BlackBerry UK Limited*

**Decision:** The document was **revised to C1-202847**.

**C1-202847 LS on the requirement that non-3GPP access node selection information includes an "any PLMN" entry**

*Type: LS out For: Approval  
 to SA2, cc SA3-LI  
 Source: BlackBerry UK Limited*

(Replaces C1-202665)

**Decision:** The document was **revised to C1-202925**.

**C1-202925 LS on the requirement that non-3GPP access node selection information includes an "any PLMN" entry**

*Type: LS out For: Approval  
 to SA2, cc SA3-LI  
 Source: BlackBerry UK Limited*

(Replaces C1-202847)

**Decision:** The document was **postponed**.

**C1-202666 LS on security context for 5GC to EPC mobility**

*Type: LS out For: Approval  
 to SA3, cc SA2  
 Source: Huawei, HiSilicon/Lin*

**Decision:** The document was **approved**.

**C1-202667 PAP/CHAP and other point-to-point protocols usage in 5GS**

*Type: LS out For: Approval  
 to SA2, cc SA3, CT3  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to C1-202933**.

**C1-202933 PAP/CHAP and other point-to-point protocols usage in 5GS**

*Type: LS out For: Approval  
 to SA2, cc SA3, CT3, CT4  
 Source: Qualcomm Incorporated*

(Replaces C1-202667)

**Decision:** The document was **approved**.

**C1-202753 LS on handling registration procedure for CAG only UE at non supporting AMF**

*Type: LS out For: Approval  
 to SA2  
 Source: Samsung R&D Institute India*

**Decision:** The document was **withdrawn**.

**C1-202819 LS on limiting the number of simultaneous logins of an MCX user**

*Type: LS out For: Approval  
 to SA1, cc SA6  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **approved**.

**C1-202826 LS on selected EPS NAS algorithms for unauthenticated emergency sessions in 5GS**

*Type: LS out For: Approval  
 to SA3  
 Source: BEIJING SAMSUNG TELECOM R&D*

**Decision:** The document was **approved**.

**C1-202849 LS on PDU session release for UE in RRC INACTIVE state with NG-RAN paging failure**

*Type: LS out For: Approval  
 to CT4, cc RAN3  
 Source: Nokia Shanghai Bell*

**Decision:** The document was **postponed**.

## 19 Late and misplaced documents

**C1-202135 Discussion on SRVCC and 5G-SRVCC NAS capabilities vs. IMS based solution**

*Type: discussion For: Information  
 Source: BlackBerry UK Limited*

**Decision:** The document was **withdrawn**.

## 20 AOB

## 21 Closing

Report prepared by: V2

## Annex A: List of contribution documents

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Decision | Replaces | Replaced by |
| * C1-202000 | * 3GPP TSG CT1#123-e – agenda for Tdoc allocation | * CT1 chairman | * revised |  | * C1-202048 |
| * C1-202001 | * 3GPP TSG CT1#123-e – agenda after Tdoc allocation deadline | * CT1 chairman | * noted |  |  |
| * C1-202002 | * 3GPP TSG CT1#123-e – agenda with proposed LS-actions | * CT1 chairman | * noted |  |  |
| * C1-202003 | * 3GPP TSG CT1#123-e – agenda at start of meeting | * CT1 chairman | * noted |  |  |
| * C1-202004 | * 3GPP TSG CT1#123-e – agenda Thursday (23rd April) evening | * CT1 chairman | * noted |  |  |
| * C1-202005 | * 3GPP TSG CT1#123-e – agenda at end of meeting | * CT1 chairman | * noted |  |  |
| * C1-202006 | * draft C1-122e report | * MCC | * approved |  |  |
| * C1-202007 | * CT1#123-e Electronic Meeting – Process and Scope | * CT1 chairman | * noted |  |  |
| * C1-202008 | * CAG-ID not provided to lower layers during NAS signalling connection establishment | * Ericsson, NTT DOCOMO, Huawei, HiSilicon, Qualcomm Incorporated / Ivo | * agreed | * C1-200937 |  |
| * C1-202009 | * EPS interworking of MA PDU session of 5G-RG when N26 is not supported | * Ericsson / Ivo | * agreed |  |  |
| * C1-202010 | * Additional transport over Uu for V2X messages of V2X services identified by V2X service identifiers | * Ericsson / Ivo | * revised |  | * C1-202838 |
| * C1-202011 | * Configuration parameters for additional transport over Uu for V2X messages of V2X services identified by V2X service identifiers | * Ericsson / Ivo | * revised |  | * C1-202839 |
| * C1-202012 | * Reply LS on Manual CAG ID selection and granularity of UAC parameters for PNI-NPNs | * Ericsson / Ivo | * withdrawn |  |  |
| * C1-202013 | * Configured human readable name for SNPN in SNPN selection | * Ericsson / Ivo | * revised |  | * C1-202841 |
| * C1-202014 | * Configured human readable name for CAG-ID in CAG selection | * Ericsson / Ivo | * merged |  |  |
| * C1-202015 | * Providing configured human readable name for CAG-ID | * Ericsson / Ivo | * revised | * C1-200733 | * C1-202840 |
| * C1-202016 | * Manual CAG selection | * Ericsson / Ivo | * withdrawn | * C1-200732 |  |
| * C1-202017 | * Correction for SoR-AF | * Ericsson / Ivo | * agreed | * C1-200064 |  |
| * C1-202018 | * Secondary authentication and W-AGF acting on behalf of N5GC | * Ericsson / Ivo | * revised |  | * C1-202694 |
| * C1-202019 | * Performance management function protocol | * Ericsson, InterDigital, Nokia, Nokia Shanghai Bell, Huawei, HiSilicon, ZTE, SHARP, NTT DOCOMO, China Mobile, vivo, Softil, Convida Wireless, SyncTechno Inc., China Telecom / Ivo | * revised | * C1-200314 | * C1-202621 |
| * C1-202020 | * Configured N3IWF identity for SNPN access via PLMN | * Ericsson / Ivo | * withdrawn |  |  |
| * C1-202021 | * Comparison of solutions for performance measurement function (PMF) protocol | * Ericsson / Ivo | * revised | * C1-200313 | * C1-202622 |
| * C1-202022 | * Incorrect reference | * Ericsson / Ivo | * agreed |  |  |
| * C1-202023 | * Deposit an object | * AT&T, Samsung | * revised |  | * C1-202637 |
| * C1-202024 | * Create a subscription to notifications | * AT&T | * revised |  | * C1-202640 |
| * C1-202025 | * Delete a subscription to notifications | * AT&T, Samsung | * revised |  | * C1-202641 |
| * C1-202026 | * Update a subscription to notifications | * AT&T, Samsung | * revised |  | * C1-202643 |
| * C1-202027 | * Synchronization notification | * AT&T | * revised |  | * C1-202646 |
| * C1-202028 | * Search-based Synchronization | * AT&T | * revised |  | * C1-202647 |
| * C1-202029 | * List folder | * AT&T, Samsung | * revised |  | * C1-202649 |
| * C1-202030 | * Typo fixes | * AT&T | * revised |  | * C1-202677 |
| * C1-202031 | * EPS interworking of MA PDU session of 5G-RG when N26 is supported | * Ericsson / Ivo | * revised |  | * C1-202695 |
| * C1-202032 | * Remove the duplicated cause value for announce request procedure not accepted by the ProSe Function | * CATT | * postponed |  |  |
| * C1-202033 | * Specification of NAS COUNT for 5G (FSAG Doc 78\_002) | * GSMA FSAG | * noted |  |  |
| * C1-202034 | * Mandatory User Plane Integrity for 5G (FSAG Doc 79\_002) | * GSMA FSAG | * noted |  |  |
| * C1-202035 | * LS Reply on QoS mapping procedure for FLUS (C3-201460) | * CT3 | * noted |  |  |
| * C1-202036 | * LS on Proposal to transfer the study on service-based support for SMS in 5GC to CT WGs (CP-193301) | * TSG CT | * postponed |  |  |
| * C1-202037 | * LS on MO exception data (C4-201003) | * CT4 | * noted |  |  |
| * C1-202038 | * SMS and UDM (C4-201045) | * CT4 | * noted |  |  |
| * C1-202039 | * LS on the Usage of Version ID (C4-2011218) | * CT4 | * noted |  |  |
| * C1-202040 | * Reply LS on Further clarifications on GLI/GCI and Line ID/ HFC\_Identifier (C4-201220) | * CT4 | * noted |  |  |
| * C1-202041 | * LS on subscribe/notify for 5G Steering of Roaming (C4-201221) | * CT4 | * noted |  |  |
| * C1-202042 | * Clarification on encryption requirements for AGF interfaces (N1, N2, N3) [WWC] (LIAISE-382) | * Broadband Forum | * noted |  |  |
| * C1-202043 | * LS on RRC establishment cause value in EPS voice fallback from NR to E-UTRAN (R2-1916530) | * RAN2 | * noted |  |  |
| * C1-202044 | * Reply LS on Rel-16 NB-IoT enhancements (R2-2001815) | * RAN2 | * noted |  |  |
| * C1-202045 | * LS on Manual CAG ID selection and granularity of UAC parameters for PNI-NPNs (R2-2002417) | * RAN2 | * noted |  |  |
| * C1-202046 | * LS on Concurrent Broadcasting for CMAS (R3-197749) | * RAN3 | * revised |  | * C1-202597 |
| * C1-202047 | * Reply LS on assistance indication for WUS (R3-201397) | * RAN3 | * noted |  |  |
| * C1-202048 | * 3GPP TSG CT1#123-e – agenda for Tdoc allocation | * CT1 chairman | * noted | * C1-202000 |  |
| * C1-202049 | * Reply LS on Rel-16 NB-IoT enhancements (R3-201417) | * RAN3 | * noted |  |  |
| * C1-202050 | * LS on Questions on onboarding requirements (S1-201087) | * SA1 | * postponed |  |  |
| * C1-202051 | * work plan | * MCC | * noted |  |  |
| * C1-202052 | * LS on PLMN selection solutions for satellite access (S2-1912551) | * SA2 | * postponed |  |  |
| * C1-202053 | * Reply LS on clarification on the requirement for steering of roaming (S2-1912764) | * SA2 | * noted |  |  |
| * C1-202054 | * Reply LS on Dual-registration requirements for EHPLMNs (S2-2001130) | * SA2 | * noted |  |  |
| * C1-202055 | * Decision making during CT1#123e – electronic show of hands | * CT1 chairman | * noted |  |  |
| * C1-202056 | * LS on GSMA NG.116 Attribute Area of service and impact on PLMN selection (S2-2001726) | * SA2 | * postponed |  |  |
| * C1-202057 | * Questions on onboarding requirements (S2-2001729) | * SA2 | * postponed |  |  |
| * C1-202058 | * Reply LS on assistance indication for WUS (S2-2001732) | * SA2 | * noted |  |  |
| * C1-202059 | * Reply LS on IANA assigned values for mission critical (S3-194603) | * SA3 | * postponed |  |  |
| * C1-202060 | * Reply LS to LS on native 5G NAS security context activation (S3-200529) | * SA3 | * noted |  |  |
| * C1-202061 | * Reply on QoE Measurement Collection (S4-200241) | * SA4 | * postponed |  |  |
| * C1-202062 | * LS on RTP/RTCP Verification (S4-200340) | * SA4 | * postponed |  |  |
| * C1-202063 | * Reply LS to Transfer the study on service-based support for SMS in 5GC to CT WGs (SP-191362) | * TSG SA | * postponed |  |  |
| * C1-202064 | * Reply LS on support for eCall over NR (SP-200287) | * TSG SA | * noted |  |  |
| * C1-202065 | * LS reply to SA2 on PLMN Selection (5GJA12\_115r3) | * GSMA 5G Joint-Activity (5GJA) | * postponed |  |  |
| * C1-202066 | * No impact from SBA on main body | * Nokia, Nokia Shanghai Bell, Ericsson | * agreed | * C1-200353 |  |
| * C1-202067 | * Reply LS on 5G Steering of Roaming | * Orange / Mariusz | * revised |  | * C1-202668 |
| * C1-202068 | * SoR in HPLMN after registration | * Orange, Ericsson / Mariusz | * agreed |  |  |
| * C1-202069 | * Modification of exchanges between SOR-AF and UDM | * Orange, Ericsson / Mariusz | * revised |  | * C1-202793 |
| * C1-202070 | * OTAF renamed to SP-AF | * Orange / Mariusz | * revised |  | * C1-202607 |
| * C1-202071 | * Reference correction in URSP encoding | * Orange / Mariusz | * agreed |  |  |
| * C1-202072 | * Correction in CRS interactions with CDIV | * Orange / Mariusz | * agreed |  |  |
| * C1-202073 | * Removal of Duplicate Service Operation Details | * one2many | * revised | * C1-200308 | * C1-202623 |
| * C1-202074 | * Correction to figure | * one2many B.V. | * agreed |  |  |
| * C1-202075 | * Corrections to references | * one2many B.V. | * agreed |  |  |
| * C1-202076 | * Subscription management in PWS-IWF | * one2many B.V. | * revised |  | * C1-202599 |
| * C1-202077 | * Indication of change in the use of enhanced coverage | * Samsung, InterDigital, Huawei, HiSilicon | * revised |  | * C1-202648 |
| * C1-202078 | * Discussion on the mandatory Integrity protection maximum data rate field for UEs that support control plane only | * Samsung | * noted |  |  |
| * C1-202079 | * Integrity protection data rate for UEs that don’t support N3 data transfer | * Samsung | * agreed |  |  |
| * C1-202080 | * UE must not render local tones in case of call is being forwarded or call is queued | * Qualcomm Incorporated | * agreed |  |  |
| * C1-202081 | * NG eCall support over NR connected to the 5GC | * Qualcomm Incorporated | * agreed |  |  |
| * C1-202082 | * Addition of Control Plane Service Request in the abnormal cases for service request procedure | * InterDigital Communications | * agreed |  |  |
| * C1-202083 | * Correction of certain erroneous Information Element Identifiers | * InterDigital Communications | * agreed |  |  |
| * C1-202084 | * DRX parameters for NB-IoT | * InterDigital Communications | * revised |  | * C1-202611 |
| * C1-202085 | * Correcting a wrong reference | * InterDigital Communications | * agreed |  |  |
| * C1-202086 | * Management of forbidden SNPNs list upon receipt of a non-integrity protected reject message | * Nokia, Nokia Shanghai Bell | * revised |  | * C1-202859 |
| * C1-202087 | * Correction in UE behavior upon receipt of 5GMM cause value #74 or #75 via a non-integrity protected NAS message | * Nokia, Nokia Shanghai Bell | * agreed | * C1-200970 |  |
| * C1-202088 | * Clarification for the use of enhanced coverage in EPS | * Samsung, Huawei, HiSilicon, InterDigital | * revised |  | * C1-202644 |
| * C1-202089 | * Clarification of NAS COUNT handling in 5G | * Vodafone GmbH, Deutsche Telekom | * agreed |  |  |
| * C1-202090 | * Correction in IMS\_Registration\_handling policy about how UE should deregister | * MediaTek Inc. | * revised | * C1-199028 | * C1-202590 |
| * C1-202091 | * CAG information list provided to lower layers after manual CAG selection | * Ericsson / Ivo | * withdrawn |  |  |
| * C1-202092 | * Correct N3AN node selection due to LI | * BlackBerry Uk Ltd. | * revised |  | * C1-202672 |
| * C1-202093 | * Correct N3AN node selection due to LI | * BlackBerry Uk Ltd. | * revised |  | * C1-202673 |
| * C1-202094 | * Introduce support for 5G SRVCC support indication when registering with EPS | * BlackBerry Uk Ltd. | * withdrawn |  |  |
| * C1-202095 | * Introduce support for 5G SRVCC support indication when registering with EPS | * BlackBerry Uk Ltd. | * withdrawn | * C1-198012 |  |
| * C1-202096 | * Correct EPS SRVCC support indication when registering with 5GS | * BlackBerry Uk Ltd. | * withdrawn | * C1-198013 |  |
| * C1-202097 | * Correct EPS SRVCC support indication when registering with 5GS | * BlackBerry Uk Ltd. | * withdrawn | * C1-198014 |  |
| * C1-202098 | * Correcting order in which connections/sessions are transferred if there is an emergency call | * BlackBerry Uk Ltd. | * revised | * C1-200115 | * C1-202670 |
| * C1-202099 | * Support scenario where the SCC AS sends a request to the HSS to retrieve the SRVCC data for the UE | * BlackBerry UK Ltd. | * revised |  | * C1-202675 |
| * C1-202100 | * Clarification on use of operator-defined access categories | * Qualcomm Incorporated, Ericsson, Nokia, Nokia Shanghai Bell / Lena | * revised | * C1ah-200149 | * C1-202873 |
| * C1-202101 | * Clarification on DL only match-all packet filter | * Qualcomm Incorporated / Lena | * agreed |  |  |
| * C1-202102 | * Discussion on RAN2’s questions on CAG in LS R2-2002417 | * Qualcomm Incorporated / Lena | * noted |  |  |
| * C1-202103 | * Reply LS on Manual CAG ID selection and granularity of UAC parameters for PNI-NPNs | * Qualcomm Incorporated / Lena | * merged |  |  |
| * C1-202104 | * PC5 unicast link security establishment | * Qualcomm Incorporated / Lena | * revised |  | * C1-202875 |
| * C1-202105 | * NR PC5 unicast security policy provisioning | * Qualcomm Incorporated / Lena | * postponed |  |  |
| * C1-202106 | * NR PC5 unicast security policy provisioning | * Qualcomm Incorporated / Lena | * postponed |  |  |
| * C1-202107 | * PC5 unicast link re-keying procedure | * Qualcomm Incorporated / Lena | * revised |  | * C1-202876 |
| * C1-202108 | * Adding general subclause on security of PC5 signalling messages | * Qualcomm Incorporated / Lena | * revised |  | * C1-202877 |
| * C1-202109 | * Introducing new messages for the Link Identifier Update procedure | * InterDigital Communications | * merged |  |  |
| * C1-202110 | * Adding Unstructured type(non-IP) to encoding of UE policy part type URSP | * China Telecom Corporation Ltd. | * postponed |  |  |
| * C1-202111 | * Clarification S-NSSAI status in AMF for NSSAA | * China Telecom Corporation Ltd. | * revised |  | * C1-202774 |
| * C1-202112 | * Update description on whether UE indicate supporting NSSAA | * China Telecom Corporation Ltd. | * revised |  | * C1-202872 |
| * C1-202113 | * Pending NSSAI update for the configured NSSAI in the CUC message | * China Telecom Corporation Ltd. | * revised |  | * C1-202778 |
| * C1-202114 | * Adding the referenced subclause 4.6.2.2 for the UE stored Pending NSSAI. | * China Telecom Corporation Ltd. | * merged |  |  |
| * C1-202115 | * Add the missing figure for UE-requested V2X policy provisioning procedure | * OPPO / Rae | * revised |  | * C1-202639 |
| * C1-202116 | * L2 ID of target UE used in the direct link establishment request | * OPPO / Rae | * postponed |  |  |
| * C1-202117 | * Non-standadized QoS characteristics over PC5-S | * OPPO / Rae | * revised |  | * C1-202704 |
| * C1-202118 | * Remove FFS on GFBR and MFBR for UL and DL | * OPPO / Rae | * revised |  | * C1-202703 |
| * C1-202119 | * Group size and menber ID from application layer for groupcast | * OPPO / Rae | * revised |  | * C1-202708 |
| * C1-202120 | * Applicability of PS data off to MA PDU | * OPPO / Rae | * revised |  | * C1-202701 |
| * C1-202121 | * Missing condition for inclusion of “NSSAA to be performed” indicator | * Samsung Electronics Polska / Ricky | * revised |  | * C1-202629 |
| * C1-202122 | * AMF triggers PDU session release | * Samsung Electronics Polska / Ricky | * revised |  | * C1-202608 |
| * C1-202123 | * Allowed NSSAI was formed from contents of the requested NSSAI and all default S-NSSAI(s) require network slice-specific authentication and authorisation | * Samsung Electronics Polska / Ricky | * noted |  |  |
| * C1-202124 | * All default S-NSSAI(s) require network slice-specific authentication and authorisation (solution 1) | * Samsung Electronics Polska / Ricky | * postponed |  |  |
| * C1-202125 | * Miscellaneous editorial corrections | * Samsung Electronics Polska | * withdrawn |  |  |
| * C1-202126 | * Miscellaneous editorial corrections | * Samsung Electronics Polska / Ricky | * revised |  | * C1-202601 |
| * C1-202127 | * Consistent usage of "tracking area updating procedure" | * Samsung Electronics Polska / Ricky | * agreed |  |  |
| * C1-202128 | * Correction of the handling of timer TG | * Apple, Qualcomm Incorporated, T-Mobile USA | * agreed |  |  |
| * C1-202129 | * Correction of the handling of 5GMM cause #27 | * Apple, Qualcomm Incorporated, T-Mobile USA | * agreed |  |  |
| * C1-202130 | * Correction of the handling of timer TG for SNPNs | * Apple | * revised |  | * C1-202896 |
| * C1-202131 | * Correction of the UE requirements for expiry of T3247 | * Apple | * withdrawn |  |  |
| * C1-202132 | * Discussion on SRVCC from E-UTRAN to GERAN/UTRAN when IMS voice call is initiated in 5GS | * Ericsson / Ivo | * noted | * C1-200940 |  |
| * C1-202133 | * SRVCC from E-UTRAN to GERAN/UTRAN when IMS voice call is initiated in 5GS | * Ericsson, Qualcomm Incorporated / Ivo | * revised | * C1-200941 | * C1-202837 |
| * C1-202134 | * Stopping of T3346 after receiving the NSSA Command message | * BEIJING SAMSUNG TELECOM R&D | * agreed |  |  |
| * C1-202135 | * Discussion on SRVCC and 5G-SRVCC NAS capabilities vs. IMS based solution | * BlackBerry UK Limited | * withdrawn |  |  |
| * C1-202136 | * Dual-registration requirements for EHPLMNs | * Intel, Qualcomm Incorporated / Vivek | * agreed | * C1-200620 |  |
| * C1-202137 | * Updates to User Authentication Client (SIM-C) procedure | * Intel / Vivek | * agreed |  |  |
| * C1-202138 | * Updates to User Authentication Server (SIM-S) procedure | * Intel / Vivek | * agreed |  |  |
| * C1-202139 | * Updates to Token Exchange Client (SIM-C) procedure | * Intel / Vivek | * revised |  | * C1-202828 |
| * C1-202140 | * Updates to Token Exchange Server (SIM-S) procedure | * Intel / Vivek | * revised |  | * C1-202829 |
| * C1-202141 | * Additional condition to start T3540 | * Samsung/Anikethan | * revised |  | * C1-202811 |
| * C1-202142 | * Correction on network steering functionalities information | * ZTE / Joy | * agreed |  |  |
| * C1-202143 | * Correction on EPS interworking | * ZTE / Joy | * revised |  | * C1-202661 |
| * C1-202144 | * Clarification on URSP in EPS | * ZTE / Joy | * revised |  | * C1-202652 |
| * C1-202145 | * Specify UE behaviour for NOTIFICATION message for additional state/sub-states | * Samsung/Anikethan | * revised |  | * C1-202815 |
| * C1-202146 | * Additional abnormal case handling for NOTIFICATION message | * Samsung/Anikethan | * postponed | * C1ah-200199 |  |
| * C1-202147 | * Clarify UE behaviour for reject cause #9 and #10 received when attached for RLOS | * Samsung/Anikethan | * revised |  | * C1-202879 |
| * C1-202148 | * SMS timer extension for the MS using CP CIoT 5GS optimization | * NTT DOCOMO | * agreed |  |  |
| * C1-202149 | * Restricting handling of cause #9 to the access on which it was received | * Samsung/Anikethan | * revised | * C1ah-200031 | * C1-202812 |
| * C1-202150 | * Inclusion of Rejected NSSAI in Registration reject with cause #62 | * Samsung/Anikethan | * postponed |  |  |
| * C1-202151 | * LS on subscribe/notify for 5G Steering of Roaming | * DOCOMO Communications Lab. | * merged |  |  |
| * C1-202152 | * Correcting the parameter "RAT type" for SOR-AF | * DOCOMO Communications Lab. | * revised |  | * C1-202902 |
| * C1-202153 | * Correcting the case when the AMF does not need to provide SOR-info to the UE | * DOCOMO Communications Lab. | * postponed |  |  |
| * C1-202154 | * Condition to ensure that UE does not keep reattempting RLOS attach on a PLMN which has rejected the request | * Samsung/Anikethan | * postponed |  |  |
| * C1-202155 | * Use preconditions for CAT when originating UE supports precondition | * Huawei,China Telecom,China Unicom,HiSilicon /Hongxia | * revised |  | * C1-202604 |
| * C1-202156 | * Use preconditions for CRS when terminating UE supports precondition | * Huawei,China Telecom,China Unicom,HiSilicon /Hongxia | * revised |  | * C1-202605 |
| * C1-202157 | * Clarification on the rejected S-NSSAI included in requested NSSAI in registration procedure. | * China Telecom Corporation Ltd. | * revised |  | * C1-202776 |
| * C1-202158 | * Adding new IMSDoPS indication bits in “EPS network feature support” IE for network to indicate support for “IMS Data over PS” services | * MediaTek Inc., Apple | * postponed |  |  |
| * C1-202159 | * Introducing NR PC5 functionality for EPC | * LG Electronics / SangMin | * noted |  |  |
| * C1-202160 | * Introducing V2X communications over NR PC5 in EPC | * LG Electronics / SangMin | * revised |  | * C1-202748 |
| * C1-202161 | * V2X MO update for V2X over NR PC5 | * LG Electronics / SangMin | * revised |  | * C1-202756 |
| * C1-202162 | * Indicating support of V2X over NR-PC5 | * LG Electronics / SangMin | * revised |  | * C1-202757 |
| * C1-202163 | * Clarifications on configuration parameters for the PC5 QoS profile | * LG Electronics / SangMin | * revised |  | * C1-202758 |
| * C1-202164 | * Clarifications on the V2X policies regarding QoS | * LG Electronics / SangMin | * revised |  | * C1-202760 |
| * C1-202165 | * Update to the V2X policies regarding RAN parameters | * LG Electronics / SangMin | * agreed |  |  |
| * C1-202166 | * Revised WID on CT aspects of eV2XARC | * Huawei, HiSilicon /Christian | * agreed | * CP-200291 |  |
| * C1-202167 | * Adding the definition and criteria for availability of IMS Data Services | * MediaTek Inc., Apple | * postponed |  |  |
| * C1-202168 | * ANDSP is not supported by 5G-RG and W-AGF | * ZTE / Joy | * agreed |  |  |
| * C1-202169 | * Adding new abnormal cases on the network side for CPSR | * China Mobile, InterDigital | * revised |  | * C1-202749 |
| * C1-202170 | * The handling of N1 SM information during re-authentication and re-authorization for an S-NSSAI | * China Mobile | * revised |  | * C1-202702 |
| * C1-202171 | * Updating descriptions of NS for NSSAA | * China Mobile | * revised |  | * C1-202603 |
| * C1-202172 | * Discussion paper on the impact of non-standard S-NSSAI mapping to NSSAA and NSSAI storage | * China Mobile | * noted |  |  |
| * C1-202173 | * Updating requirements of NSSAA for roaming scenerios | * China Mobile | * revised |  | * C1-202628 |
| * C1-202174 | * Definition of registered SNPN | * Intel /Thomas | * revised |  | * C1-202609 |
| * C1-202175 | * No allowed NSSAI associated with a registration area | * vivo | * revised |  | * C1-202747 |
| * C1-202176 | * Correction of SGC | * vivo | * agreed |  |  |
| * C1-202177 | * Emergency PDU sesseion established after WUS negotiation | * vivo | * revised |  | * C1-202735 |
| * C1-202178 | * Emergency PDN connection established after WUS negotiation | * vivo | * revised |  | * C1-202736 |
| * C1-202179 | * Correction on no suitable cell | * vivo | * revised |  | * C1-202737 |
| * C1-202180 | * [draft] Reply LS on Manual CAG ID selection and granularity of UAC parameters for PNI-NPNs | * vivo | * merged |  |  |
| * C1-202181 | * Handling of link establishment accept | * vivo | * revised |  | * C1-202738 |
| * C1-202182 | * Handling of link modification accept | * vivo | * revised |  | * C1-202739 |
| * C1-202183 | * ENs resolving in modification pocedure | * vivo | * revised |  | * C1-202740 |
| * C1-202184 | * Updates to link release procedure | * vivo | * revised |  | * C1-202741 |
| * C1-202185 | * Correction of the timers of link identifier update procedure | * vivo | * revised |  | * C1-202742 |
| * C1-202186 | * Encoding of link identifier update messages and parameters | * vivo | * revised |  | * C1-202743 |
| * C1-202187 | * Handling of link identifier update not accept | * vivo | * revised |  | * C1-202744 |
| * C1-202188 | * Handling of PC5 unicast QoS flow match and establishment | * vivo | * revised |  | * C1-202745 |
| * C1-202189 | * Handling of PC5 broadcast QoS flow match and establishment | * vivo | * revised |  | * C1-202746 |
| * C1-202190 | * Requirements for groupcast over PC5 | * vivo | * merged |  |  |
| * C1-202191 | * Correction of the abnormal case in NW-TT-initiated Ethernet port management procedure | * vivo | * revised |  | * C1-202714 |
| * C1-202192 | * Abbreviation correction | * vivo | * agreed |  |  |
| * C1-202193 | * update of the counter for SNPN | * vivo | * agreed |  |  |
| * C1-202194 | * temporarily and permanently forbidden SNPNs lists per access type | * vivo | * agreed |  |  |
| * C1-202195 | * storage of counters for UE in SNPN | * vivo | * revised |  | * C1-202711 |
| * C1-202196 | * 5G GUTI of SNPN | * vivo | * revised |  | * C1-202710 |
| * C1-202197 | * 5GMM cause value #74 in an SNPN with a globally-unique SNPN identity | * vivo | * agreed |  |  |
| * C1-202198 | * 5GMM cause value #13 not supporting roaming for SNPN | * vivo | * revised |  | * C1-202712 |
| * C1-202199 | * Clarification of the cause of start of T3550 | * vivo | * agreed |  |  |
| * C1-202200 | * storage of counters for UE in PLMN | * vivo | * revised |  | * C1-202713 |
| * C1-202201 | * Clarification of the figure of registration procedure | * vivo | * agreed |  |  |
| * C1-202202 | * subclause of Negotiated WUS assistance information | * vivo | * merged |  |  |
| * C1-202203 | * Addition of Test Flag | * one2many B.V. | * revised |  | * C1-202600 |
| * C1-202204 | * LS on PWS Test Flag | * one2many B.V. | * postponed |  |  |
| * C1-202205 | * Work plan for the CT1 part of eV2XARC | * Huawei, HiSilicon /Christian | * noted |  |  |
| * C1-202206 | * Work plan for the CT1 part of V2XAPP | * Huawei, HiSilicon /Christian | * noted |  |  |
| * C1-202207 | * Work plan for the CT1 part of 5WWC | * Huawei, HiSilicon /Christian | * noted |  |  |
| * C1-202208 | * Latest reference version of draft TS 24.486 | * Huawei, HiSilicon /Christian | * noted |  |  |
| * C1-202209 | * Latest reference version of draft TS 24.548 | * Huawei, HiSilicon /Christian | * noted |  |  |
| * C1-202210 | * Wrong implementation of agreed p-CR C1-200881 | * Huawei, HiSilicon /Christian | * revised |  | * C1-202770 |
| * C1-202211 | * Wrong implementation of agreed p-CR C1-200882 | * Huawei, HiSilicon /Christian | * revised |  | * C1-202772 |
| * C1-202212 | * Miscellaneous corrections | * Huawei, HiSilicon /Christian | * agreed |  |  |
| * C1-202213 | * V2X USD provisioning | * Huawei, HiSilicon /Christian | * revised |  | * C1-202762 |
| * C1-202214 | * PC5 parameters provisioning | * Huawei, HiSilicon /Christian | * revised |  | * C1-202763 |
| * C1-202215 | * Structure and data semantics for V2X USD provisioning | * Huawei, HiSilicon /Christian | * revised |  | * C1-202764 |
| * C1-202216 | * Structure and data semantics for PC5 parameters provisioning | * Huawei, HiSilicon /Christian | * revised |  | * C1-202765 |
| * C1-202217 | * RPDU transfer for 5GS using Control Plane CIoT Optimization | * NTT DOCOMO INC. | * revised |  | * C1-202700 |
| * C1-202218 | * Editorial corrections | * Ericsson / Mikael | * revised |  | * C1-202783 |
| * C1-202219 | * UAC for MO-IMS registration related signalling EN resolution | * NTT DOCOMO INC. | * agreed | * C1-200684 |  |
| * C1-202220 | * Check regroup ID | * FirstNet / Mike | * revised |  | * C1-202630 |
| * C1-202221 | * Clarification of 11.1.6.2.1.2 | * FirstNet / Mike | * revised |  | * C1-202631 |
| * C1-202222 | * Update affiliation definition to support preconfigured regroups | * FirstNet / Mike | * revised |  | * C1-202632 |
| * C1-202223 | * Floor Request to Regrouped Group | * FirstNet / Mike | * withdrawn |  |  |
| * C1-202224 | * T3540 is not started if the Registration Accept includes a pending NSSAI | * BEIJING SAMSUNG TELECOM R&D | * agreed |  |  |
| * C1-202225 | * Timer values for timers of PC5 unicast link management procedures | * Huawei, HiSilicon /Christian | * revised |  | * C1-202598 |
| * C1-202226 | * Correction to the privacy timer | * Huawei, HiSilicon /Christian | * revised |  | * C1-202767 |
| * C1-202227 | * Adding Unstructured type(non-IP) to encoding of UE policy part type URSP(R15) | * China Telecom Corporation Ltd. | * postponed |  |  |
| * C1-202228 | * Possible KSI types in EPS | * Ericsson / Mikael | * withdrawn |  |  |
| * C1-202229 | * Possible KSI types in EPS | * Ericsson / Mikael | * agreed |  |  |
| * C1-202230 | * Generic UE configuration update trigger for registration and EC Restriction change | * Ericsson / Mikael | * revised |  | * C1-202892 |
| * C1-202231 | * CWMI use in PWS | * Ericsson / Mikael | * noted |  |  |
| * C1-202232 | * LS on Concurrent Broadcasting for CMAS | * Ericsson / Mikael | * revised |  | * C1-202916 |
| * C1-202233 | * RACS parameters in generic UE configuration procedure | * Ericsson / Mikael | * revised |  | * C1-202693 |
| * C1-202234 | * Clarify that NSSAA can occur during periodic registration or mobility updating for NB-N1 mode UEs | * BEIJING SAMSUNG TELECOM R&D | * revised |  | * C1-202678 |
| * C1-202235 | * V2X UE registration procedure corrections | * Ericsson / Mikael | * revised |  | * C1-202788 |
| * C1-202236 | * V2X UE de-registration procedure corrections | * Ericsson / Mikael | * revised |  | * C1-202789 |
| * C1-202237 | * V2X service discovery procedure corrections | * Ericsson / Mikael | * revised |  | * C1-202790 |
| * C1-202238 | * V2X service continuity procedure corrections | * Ericsson / Mikael | * revised |  | * C1-202791 |
| * C1-202239 | * Discussion on reply LS to RAN2 manual CAG selection | * Huawei, HiSilicon/Vishnu | * noted |  |  |
| * C1-202240 | * Reply LS on Manual CAG ID selection and granularity of UAC parameters for PNI-NPNs | * Huawei, HiSilicon / Vishnu | * revised |  | * C1-202846 |
| * C1-202241 | * Fixing typo related to eNS | * BEIJING SAMSUNG TELECOM R&D | * agreed |  |  |
| * C1-202242 | * Discussion on protecting CAG list against man in middle attack | * Huawei, HiSilicon/ Vishnu | * noted |  |  |
| * C1-202243 | * All default S-NSSAI(s) require network slice-specific authentication and authorisation (solution 2B) | * Samsung Electronics Polska / Ricky | * postponed |  |  |
| * C1-202244 | * Notification over non-3GPP access when UE is deregistered over 3GPP access | * Ericsson /kaj | * revised |  | * C1-202921 |
| * C1-202245 | * CIoT user data container in CPSR message not forwarded | * Ericsson /kaj | * merged | * C1-200675 |  |
| * C1-202246 | * S-NSSAI in rejected NSSAI for the failed or revoked NSSAA not to be requested | * Ericsson /kaj | * withdrawn |  |  |
| * C1-202247 | * S-NSSAI in rejected NSSAI for the failed or revoked NSSAA not to be requested | * Ericsson /kaj | * revised | * C1-198417 | * C1-202813 |
| * C1-202248 | * Alignment of UE actions of rejected NSSAI for the failed or revoked NSSAA | * Ericsson /kaj | * revised |  | * C1-202825 |
| * C1-202249 | * Protection of Allowed CAG list against man in middle attack | * Huawei, HiSilicon / Vishnu | * postponed |  |  |
| * C1-202250 | * Request S-NSSAI pending the NW slice-specific authentication and authorization | * Ericsson /kaj | * postponed | * C1-200724 |  |
| * C1-202251 | * Discussion on including CAG Information list in reject messages | * Huawei, HiSilicon / Vishnu | * noted |  |  |
| * C1-202252 | * S-NSSAIs always selected from allowed NSSAI by AMF | * Ericsson /kaj | * postponed |  |  |
| * C1-202253 | * Provision of CAG information list in reject messages | * Huawei, HiSilicon/ Vishnu | * revised |  | * C1-202886 |
| * C1-202254 | * No available S-NSSAIs at handover with emergency PDU session established | * Ericsson /kaj | * noted |  |  |
| * C1-202255 | * No available S-NSSAIs and emergency PDU session at handover | * Ericsson /kaj | * revised |  | * C1-202843 |
| * C1-202256 | * Handling of HRNN information in a CAG cell | * Huawei, HiSilicon / Vishnu | * revised |  | * C1-202845 |
| * C1-202257 | * Exception to initiate the service request procedure during NSSAA when there is no allowed NSSAI | * BEIJING SAMSUNG TELECOM R&D | * revised |  | * C1-202827 |
| * C1-202258 | * Indication to user about allowed CAG IDs for manual CAG selection | * Huawei, HiSilicon / Vishnu | * merged |  |  |
| * C1-202259 | * NSSAA for UEs that roam across 5GS VPLMNs | * BEIJING SAMSUNG TELECOM R&D | * revised |  | * C1-202669 |
| * C1-202260 | * Support for MCData emergency alert and communications | * AT&T / Val | * revised |  | * C1-202771 |
| * C1-202261 | * Missing condition at registration reject due to no available slices | * Ericsson /kaj | * revised |  | * C1-202784 |
| * C1-202262 | * Emergency Alerts for MCData – client procedures | * AT&T / Val | * revised |  | * C1-202761 |
| * C1-202263 | * TA change during Authentication procedure in EMM-CONNECTED mode | * Apple | * revised |  | * C1-202850 |
| * C1-202264 | * TA change during Authentication procedure in 5GMM-CONNECTED mode | * Apple | * revised |  | * C1-202851 |
| * C1-202265 | * Considerations for AML over SMS in roaming scenarios | * Apple | * noted | * C1-200606 |  |
| * C1-202266 | * ATSSS Performance Measurement Function Protocols and Procedures | * Apple, Deutsche Telekom, Charter Communications, Ruckus, Commscope | * not pursued | * C1-200655 |  |
| * C1-202267 | * Add handling for parameter set to “value is not used” in EPS | * Qualcomm Incorporated | * revised |  | * C1-202633 |
| * C1-202268 | * Add handling for parameter set to “value is not used” in 5GS | * Qualcomm Incorporated | * revised |  | * C1-202634 |
| * C1-202269 | * Allow lower layer to change RRC establishment cause during voice EPS fallback | * Qualcomm Incorporated, Ericsson | * revised | * C1ah-200048 | * C1-202830 |
| * C1-202270 | * Correct handling of receiving EMM cause #31 in EPS | * Qualcomm Incorporated | * revised |  | * C1-202674 |
| * C1-202271 | * Correct UE behavior for receiving 5GMM cause #31 in 5GS | * Qualcomm Incorporated | * revised |  | * C1-202676 |
| * C1-202272 | * Correct parameters included by AMF during inter-system change from S1 mode to N1 mode in 5GMM-CONNECTED mode | * Qualcomm Incorporated | * agreed |  |  |
| * C1-202273 | * Remove invalid cases in error handling for TFT operation | * Qualcomm Incorporated | * agreed |  |  |
| * C1-202274 | * Remove invalid cases in error handling for TFT operation in EPS | * Qualcomm Incorporated | * agreed |  |  |
| * C1-202275 | * Remove invalid cases in error handling for QoS rule operation and TFT operation | * Qualcomm Incorporated | * agreed |  |  |
| * C1-202276 | * Clarify PAP/CHAP usage in PCO for 5GS | * Qualcomm Incorporated | * postponed |  |  |
| * C1-202277 | * Add handling for UE configured to use timer T3245 in 5GS via 3GPP access | * Qualcomm Incorporated | * withdrawn |  |  |
| * C1-202278 | * Add handling for UE configured to use timer T3245 in 5GS via 3GPP access | * Qualcomm Incorporated | * revised | * C1ah-200178 | * C1-202635 |
| * C1-202279 | * Add handling for UE configured to use timer T3245 in 5GS for non-3GPP access | * Qualcomm Incorporated | * agreed |  |  |
| * C1-202280 | * Applicable URSP is not optional for a UE | * Motorola Mobility, Lenovo | * revised |  | * C1-202615 |
| * C1-202281 | * Handling of MCData Emergency Alerts at the MCData participating servers | * AT&T / Val | * revised |  | * C1-202755 |
| * C1-202282 | * Network-requested PDU session release due to failed or revoked NSSAA | * Motorola Mobility, Lenovo | * revised |  | * C1-202618 |
| * C1-202283 | * Inclusion of NSSAI in AN Parameters for non-3GPP access | * Motorola Mobility, Lenovo | * revised |  | * C1-202613 |
| * C1-202284 | * Inclusion of requested NSSAI in AN parameters | * Motorola Mobility, Lenovo | * revised |  | * C1-202612 |
| * C1-202285 | * Additional QoS error handling related to mapped EBI | * Qualcomm Incorporated / Lena | * revised |  | * C1-202874 |
| * C1-202286 | * Editorial corrections | * Sepura Ltd, Hytera Communications Corp | * revised |  | * C1-202610 |
| * C1-202287 | * Handling of MCData Emergency Alerts at the MCData controlling server | * AT&T / Val | * revised |  | * C1-202754 |
| * C1-202288 | * Auxiliary procedures in support of Emergency Alerts for MCData | * AT&T / Val | * revised |  | * C1-202751 |
| * C1-202289 | * PS Data Off status report for non-3GPP access | * LG Electronics, Ericsson / SangMin | * revised |  | * C1-202752 |
| * C1-202290 | * Removal of editor’s notes | * Motorola Mobility, Lenovo | * revised |  | * C1-202636 |
| * C1-202291 | * Remove USE\_TRANSPORT\_MODE in response | * ZTE / Joy | * revised |  | * C1-202786 |
| * C1-202292 | * Remove USE\_TRANSPORT\_MODE in response | * ZTE / Joy | * revised |  | * C1-202787 |
| * C1-202293 | * Error type on failure of reserving QoS resources over non-3GPP access | * ZTE / Joy | * revised |  | * C1-202653 |
| * C1-202294 | * Discussion on handling of clause 5.2 in TS 24.193 | * ZTE / Joy | * noted |  |  |
| * C1-202295 | * Unify terms network-initiated and network-requested | * Huawei, HiSilicon / Cristina | * revised |  | * C1-202697 |
| * C1-202296 | * Updates to request for unicast resource at VAL service communication establishment procedure | * Huawei, HiSilicon / Chen | * revised |  | * C1-202715 |
| * C1-202297 | * Updates to structure and data semantics for request for unicast resource at VAL service communication establishment procedure | * Huawei, HiSilicon / Chen | * agreed |  |  |
| * C1-202298 | * Request for modification of unicast resources procedure | * Huawei, HiSilicon / Chen | * revised |  | * C1-202716 |
| * C1-202299 | * Structure and data semantics for request for modification of unicast resources procedure | * Huawei, HiSilicon / Chen | * agreed |  |  |
| * C1-202300 | * Network resource adaptation procedure | * Huawei, HiSilicon / Chen | * revised |  | * C1-202717 |
| * C1-202301 | * Structure and data semantics for network resource adaptation procedure | * Huawei, HiSilicon / Chen | * agreed |  |  |
| * C1-202302 | * Structure and data semantics for MBMS bearer announcement over MBMS bearer procedure | * Huawei, HiSilicon / Chen | * revised |  | * C1-202718 |
| * C1-202303 | * Updates to MBMS bearer quality detection procedure | * Huawei, HiSilicon / Chen | * revised |  | * C1-202719 |
| * C1-202304 | * Structure and data semantics for MBMS bearer quality detection procedure | * Huawei, HiSilicon / Chen | * revised |  | * C1-202720 |
| * C1-202305 | * Use of pre-established MBMS bearers procedure | * Huawei, HiSilicon / Chen | * agreed |  |  |
| * C1-202306 | * Structure and data semantics for use of pre-established MBMS bearers procedure | * Huawei, HiSilicon / Chen | * revised |  | * C1-202721 |
| * C1-202307 | * Use of dynamic MBMS bearers procedure | * Huawei, HiSilicon / Chen | * revised |  | * C1-202722 |
| * C1-202308 | * Service continuity in MBMS scenarios procedure | * Huawei, HiSilicon / Chen | * revised |  | * C1-202723 |
| * C1-202309 | * Structure and data semantics for service continuity in MBMS scenarios procedure | * Huawei, HiSilicon / Chen | * revised |  | * C1-202724 |
| * C1-202310 | * MBMS suspension notification procedure | * Huawei, HiSilicon / Chen | * revised |  | * C1-202725 |
| * C1-202311 | * Structure and data semantics for MBMS suspension notification procedure | * Huawei, HiSilicon / Chen | * revised |  | * C1-202726 |
| * C1-202312 | * MBMS bearer event notification procedure | * Huawei, HiSilicon / Chen | * agreed |  |  |
| * C1-202313 | * Switching between MBMS bearer bearer and unicast bearer procedure | * Huawei, HiSilicon / Chen | * agreed |  |  |
| * C1-202314 | * Resolution of editor's note on application unique ID | * Huawei, HiSilicon / Chen | * agreed |  |  |
| * C1-202315 | * XML scheme declaration for SEAL network resource management | * Huawei, HiSilicon / Chen | * revised |  | * C1-202727 |
| * C1-202316 | * Corection for the target user info in the DIRECT LINK ESTABLISHMENT REQUEST message | * Huawei, HiSilicon / Chen | * revised |  | * C1-202730 |
| * C1-202317 | * Correction for the IP address configuration IE in the DIRECT LINK ESTABLISHMENT ACCEPT message | * Huawei, HiSilicon / Chen | * revised |  | * C1-202731 |
| * C1-202318 | * Correction for the link local IPv6 address IE in the DIRECT LINK ESTABLISHMENT ACCEPT message | * Huawei, HiSilicon / Chen | * revised |  | * C1-202732 |
| * C1-202319 | * IANA registration template of SEAL location management | * Huawei, HiSilicon / Chen | * agreed |  |  |
| * C1-202320 | * Removal of editor’s note on MIME types | * Huawei, HiSilicon / Chen | * agreed |  |  |
| * C1-202321 | * Resolution of editor's note on application unique ID | * Huawei, HiSilicon / Chen | * agreed |  |  |
| * C1-202322 | * Structure and data semantics for query list of users based on location procedure | * Huawei, HiSilicon / Chen | * agreed |  |  |
| * C1-202323 | * XML scheme declaration for SEAL location management | * Huawei, HiSilicon / Chen | * revised |  | * C1-202733 |
| * C1-202324 | * NW triggered SR over N3GPP under MM congestion control | * OPPO / Rae | * revised |  | * C1-202709 |
| * C1-202325 | * Initiate 3GPP access associated notification procedure over non-3GPP access | * Huawei, HiSilicon / Cristina | * withdrawn |  |  |
| * C1-202326 | * Avoid repeated redirection for NB-IoT | * OPPO / Rae | * revised |  | * C1-202734 |
| * C1-202327 | * Defining new parameters needed for the Link Identifier Update procedure | * InterDigital Communications | * revised |  | * C1-202596 |
| * C1-202328 | * PDU session release due to CP only revocation | * OPPO / Rae | * revised |  | * C1-202707 |
| * C1-202329 | * Updating Rejeted NSSAI IE for failed NSSAA case in roaming scenerios | * China Mobile | * revised |  | * C1-202627 |
| * C1-202330 | * Abnormal case about missing EAP result for NSSAA | * China Mobile | * withdrawn |  |  |
| * C1-202331 | * Consider PDU session type IE set by UE in IP address allocation | * Huawei, HiSilicon / Cristina | * agreed |  |  |
| * C1-202332 | * Work Plan for eNS in CT1 | * ZTE | * noted |  |  |
| * C1-202333 | * T3540 for service request for V2X communications | * ZTE | * revised |  | * C1-202780 |
| * C1-202334 | * Clarification on the UE behaviour when receiving T3448 | * ZTE | * revised |  | * C1-202781 |
| * C1-202335 | * Clarification on the UE behaviour when receiving T3448 | * ZTE | * revised |  | * C1-202782 |
| * C1-202336 | * Connection Resumption for Notification | * ZTE, vivo | * revised |  | * C1-202775 |
| * C1-202337 | * CIoT user or small data container in CPSR message not forwarded | * ZTE | * revised |  | * C1-202779 |
| * C1-202338 | * Initial Registration after 5G-SRVCC | * ZTE | * revised |  | * C1-202529 |
| * C1-202339 | * Add MFBR as mandatory parameter in GBR QoS flow | * Huawei, HiSilicon / Cristina | * withdrawn |  |  |
| * C1-202340 | * Deleting Editors note regarding indefinite wait at the UE for NSSAA completion | * ZTE | * postponed | * C1-201051 |  |
| * C1-202341 | * Add MFBR as mandatory parameter in GBR QoS flow | * Huawei, HiSilicon / Cristina | * withdrawn |  |  |
| * C1-202342 | * Fixing a reference in the service request procedure | * BEIJING SAMSUNG TELECOM R&D | * agreed |  |  |
| * C1-202343 | * Add MFBR as mandatory parameter in GBR QoS flow | * Huawei, HiSilicon / Cristina | * withdrawn |  |  |
| * C1-202344 | * Add MFBR as mandatory parameter in GBR QoS flow | * Huawei, HiSilicon / Cristina | * revised |  | * C1-202698 |
| * C1-202345 | * Discussion on re-initiation of NSSAA | * BEIJING SAMSUNG TELECOM R&D | * noted |  |  |
| * C1-202346 | * EPS selection when the UE is deregistered due to NSSAA failure | * Samsung/Kundan | * postponed | * C1-200572 |  |
| * C1-202347 | * Correcting length of extended emergency number list IE | * Huawei, HiSilicon / Cristina | * agreed |  |  |
| * C1-202348 | * Initial registration for initiating emergency PDU session | * Huawei, HiSilicon / Cristina | * revised |  | * C1-202858 |
| * C1-202349 | * Missing QoS flow description parameters for GBR QoS flows in 5GSM and ESM coordination | * Huawei, HiSilicon / Cristina | * revised |  | * C1-202651 |
| * C1-202350 | * TSN working domain terminology | * Huawei, HiSilicon / Cristina | * postponed |  |  |
| * C1-202351 | * Re-initiation of NSSAA (solution #1) | * BEIJING SAMSUNG TELECOM R&D | * postponed |  |  |
| * C1-202352 | * Re-initiation of NSSAA (solution #2) | * BEIJING SAMSUNG TELECOM R&D | * postponed |  |  |
| * C1-202353 | * TSN working domain terminology | * Huawei, HiSilicon / Cristina | * merged |  |  |
| * C1-202354 | * Trigger for Initial Registration procedure | * Samsung/Kundan | * postponed |  |  |
| * C1-202355 | * Clarification to Manual CAG selection procedure | * Samsung/Kundan | * postponed |  |  |
| * C1-202356 | * Restrictions of providing video announcement | * China Telecom,Huawei,China Unicom,HiSilicon / Michelle | * revised |  | * C1-202817 |
| * C1-202357 | * Discussion paper on RAN2 LS regarding Manual CAG and URC for PNI-NPN | * Samsung | * noted |  |  |
| * C1-202358 | * Support for eCall over IMS over NR | * Huawei, HiSilicon / Cristina | * postponed |  |  |
| * C1-202359 | * LS Response on Manual CAG ID selection and granularity of UAC parameters for PNI-NPNs | * Samsung/Kundan | * merged |  |  |
| * C1-202360 | * Remove SUPI in the form of NSI from stage 2(in R15) | * China Telecom / Michelle | * postponed |  |  |
| * C1-202361 | * Remove SUPI in the form of NSI from stage 2(in R15) | * China Telecommunications | * postponed |  |  |
| * C1-202362 | * Sending CAG information list | * Samsung/Kundan | * postponed |  |  |
| * C1-202363 | * Sending CAG information list | * Samsun/Kundan | * postponed |  |  |
| * C1-202364 | * Handling of a CAG UE at non supporting AMF | * Samsung/Kundan | * postponed | * C1-200589 |  |
| * C1-202365 | * DISC Configuring UE to enable manual CAG selection procedure | * Samsung | * withdrawn |  |  |
| * C1-202366 | * Condition for access to SNPN | * SHARP | * merged |  |  |
| * C1-202367 | * Correction on terminology for the Control plane CIoT 5GS optimization | * SHARP | * agreed |  |  |
| * C1-202368 | * Configuring UE to enable manual CAG selection procedure (24.501) | * Samsung/Kundan | * withdrawn |  |  |
| * C1-202369 | * Handling of PDU session and PDN connection associated with Control plane only indication in case of N26 based interworking procedures | * SHARP | * revised |  | * C1-202699 |
| * C1-202370 | * Configuring UE to enable manual CAG selection procedure (23.122) | * Samsung/Kundan | * postponed |  |  |
| * C1-202371 | * Clarification of UE behavior on receiving ATSSS support indicator | * SHARP | * postponed |  |  |
| * C1-202372 | * Clarification of SMF and UE behavior in 5GS to EPS mobility without N26 interface | * SHARP | * revised |  | * C1-202642 |
| * C1-202373 | * Non-integrity protected REGISTRATION REJECT message including 5GMM cause #31 or #76 | * Nokia, Nokia Shanghai Bell | * revised |  | * C1-202836 |
| * C1-202374 | * NSSAA in an SNPN | * Nokia, Nokia Shanghai Bell | * revised |  | * C1-202833 |
| * C1-202375 | * Initial NAS message protection on inter-system change from EPS to 5GS | * Samsung/Kundan | * postponed |  |  |
| * C1-202376 | * Handling of MCS data in various 5GMM states | * Samsung | * withdrawn | * C1-194530 |  |
| * C1-202377 | * No messages without integrity protection processed after security activation | * Nokia, Nokia Shanghai Bell | * not pursued |  |  |
| * C1-202378 | * Clarification on the AMF behaviour after security activation in case of integrity check failure | * Nokia, Nokia Shanghai Bell | * postponed |  |  |
| * C1-202379 | * Discarding a SECURITY MODE COMMAND message which fails integrity check | * Nokia, Nokia Shanghai Bell | * postponed |  |  |
| * C1-202380 | * Initiation of ESFB by a UE in the state 5GMM-REGISTERED.ATTEMPTING-REGISTRATION-UPDATE | * Nokia, Nokia Shanghai Bell | * postponed |  |  |
| * C1-202381 | * No emergency session transfer after ESFB | * Nokia, Nokia Shanghai Bell | * agreed |  |  |
| * C1-202382 | * Indication that the emergency services fallback attempt failed | * Nokia, Nokia Shanghai Bell | * revised |  | * C1-202928 |
| * C1-202383 | * Clarification to NSSAA procedure | * Samsung/Kundan | * postponed |  |  |
| * C1-202384 | * UE specific DRX for NB-S1 mode | * Vodafone, Ericsson | * revised |  | * C1-202662 |
| * C1-202385 | * Handling of Pending S-NSSAI | * Samsung/Kundan | * revised |  | * C1-202881 |
| * C1-202386 | * Configuration of resource priority for MCData emergency | * AT&T / Val | * revised |  | * C1-202750 |
| * C1-202387 | * Discussion on errors on QoS parameter operations in NB-IoT | * BEIJING SAMSUNG TELECOM R&D | * noted |  |  |
| * C1-202388 | * QoS error checks for UEs in NB-N1 mode | * BEIJING SAMSUNG TELECOM R&D | * revised |  | * C1-202614 |
| * C1-202389 | * Clarification to SNPN to SNPN selection procedure | * Samsung/Kundan | * withdrawn |  |  |
| * C1-202390 | * Inclusion of ATTACH REQUEST message in REGISTRATION REQUEST message during initial registration when 5G-GUTI mapped from 4G-GUTI is used | * Nokia, Nokia Shanghai Bell, Ericsson, Qualcomm Incorporated | * revised | * C1ah-200179 | * C1-202929 |
| * C1-202391 | * Attach request message for N1 mode | * Nokia, Nokia Shanghai Bell, Ericsson | * revised | * C1ah-200180 | * C1-202931 |
| * C1-202392 | * Paging with two valid 5G-GUTIs | * Nokia, Nokia Shanghai Bell | * revised | * C1ah-200213 | * C1-202932 |
| * C1-202393 | * figures 1, 2a, 2b, 3 and table 2 not applicable in SNPN | * Intel /Thomas | * agreed |  |  |
| * C1-202394 | * PDU session release for an inactive UE with RAN paging failure | * Nokia, Nokia Shanghai Bell | * postponed | * C1ah-200089 |  |
| * C1-202395 | * Work plan for Vertical\_LAN | * Nokia, Nokia Shanghai Bell | * noted |  |  |
| * C1-202396 | * Subscription update in case of SNPN | * Intel /Thomas | * revised |  | * C1-202620 |
| * C1-202397 | * Selected CAG-ID from the NAS layer to the AS layer | * Nokia, Nokia Shanghai Bell, vivo, Qualcomm Incorporated, Samsung, Huawei, HiSilicon | * revised |  | * C1-202912 |
| * C1-202398 | * Manual CAG selection | * Nokia, Nokia Shanghai Bel | * revised | * C1-201052 | * C1-202862 |
| * C1-202399 | * non-3GPP access not supported in SNPN | * Intel /Thomas | * revised |  | * C1-202606 |
| * C1-202400 | * LS on manual CAG selection | * Nokia, Nokia Shanghai Bell | * revised | * C1-201053 | * C1-202927 |
| * C1-202401 | * NB-IoT not applicable for SNPN | * Nokia, Nokia Shanghai Bell | * revised |  | * C1-202853 |
| * C1-202402 | * Introduction of SNPN-specific N1 mode attempt counters | * Nokia, Nokia Shanghai Bell | * revised | * C1-201032 | * C1-202922 |
| * C1-202403 | * Discussion on integrity check failure on the Control Plane Service Request message for WB-N1 mode UEs | * BEIJING SAMSUNG TELECOM R&D | * noted |  |  |
| * C1-202404 | * Retransmission of a CPSR message after integrity check failure at the AMF | * BEIJING SAMSUNG TELECOM R&D | * revised |  | * C1-202626 |
| * C1-202405 | * CAG selection is optional in the manual network selection mode | * Nokia, Nokia Shanghai Bell | * revised |  | * C1-202924 |
| * C1-202406 | * Handling of a UE not allowed to access SNPN services via a PLMN by subscription with 5GMM cause value #72 | * Nokia, Nokia Shanghai Bell | * agreed |  |  |
| * C1-202407 | * Human readable network name for SNPN | * Nokia, Nokia Shanghai Bell | * revised |  | * C1-202855 |
| * C1-202408 | * Miscellaneous clean-up for SNPN | * Nokia, Nokia Shanghai Bell | * revised |  | * C1-202923 |
| * C1-202409 | * Service area restrictions in an SNPN | * Nokia, Nokia Shanghai Bell | * revised |  | * C1-202664 |
| * C1-202410 | * MICO in an SNPN | * Nokia, Nokia Shanghai Bell | * revised |  | * C1-202852 |
| * C1-202411 | * 5GMM CC in an SNPN | * Nokia, Nokia Shanghai Bell | * not pursued |  |  |
| * C1-202412 | * 5GSM back-off mechanisms in an SNPN | * Nokia, Nokia Shanghai Bell | * revised |  | * C1-202915 |
| * C1-202413 | * UE in the 5GMM-REGISTERED.ATTEMPTING-REGISTRATION-UPDATE substate operating in SNPN access mode | * Nokia, Nokia Shanghai Bell | * revised |  | * C1-202854 |
| * C1-202414 | * Routing indicator update in an SNPN | * Nokia, Nokia Shanghai Bell | * revised |  | * C1-202856 |
| * C1-202415 | * 3GPP PS data off in an SNPN | * Nokia, Nokia Shanghai Bell | * revised |  | * C1-202857 |
| * C1-202416 | * Discussion on maximum nbr of PC5 unicast links | * Huawei, HiSilicon / Vishnu | * noted |  |  |
| * C1-202417 | * Handling of correction to UE configuration update procedure conditions for re-registration | * LG Electronics France | * withdrawn |  |  |
| * C1-202418 | * Correction to conditions for including the S-NSSAI(s) from default NSSAI in the requested NSSAI | * Qualcomm Incorporated / Amer | * agreed |  |  |
| * C1-202419 | * Corrections to CR#1907 | * Qualcomm Incorporated / Amer | * agreed |  |  |
| * C1-202420 | * Definition of current PLMN and serving PLMN | * Qualcomm Incorporated / Amer | * postponed |  |  |
| * C1-202421 | * Definition of current PLMN and serving PLMN | * Qualcomm Incorporated / Amer | * postponed |  |  |
| * C1-202422 | * Initial APN rate control parameters | * Qualcomm Incorporated / Amer | * revised |  | * C1-202878 |
| * C1-202423 | * Signalling of EPS APN rate control parameters during PDU session establishment | * Qualcomm Incorporated / Amer | * revised |  | * C1-202880 |
| * C1-202424 | * 5G\_CIoT WI workplan | * Qualcomm Incorporated / Amer | * noted |  |  |
| * C1-202425 | * Ethernet header compression for CP CIoT – 5GMM aspects | * Qualcomm Incorporated / Amer | * revised |  | * C1-202882 |
| * C1-202426 | * Ethernet header compression for CP CIoT – 5GSM aspects | * Qualcomm Incorporated / Amer | * revised |  | * C1-202888 |
| * C1-202427 | * Maximum number of NR PC5 unicast links for a UE | * Huawei, HiSilicon / Vishnu | * revised |  | * C1-202848 |
| * C1-202428 | * correction to network selection in case of multiple subscribed SNPNs | * Intel /Thomas | * withdrawn |  |  |
| * C1-202429 | * IEEE Std 802.1Qbv-2016 rolled into IEEE Std 802.1Q-2018 | * Nokia, Nokia Shanghai Bell | * agreed |  |  |
| * C1-202430 | * Release PDU sessions due to revocation from AAA server , re-auth failure | * LG Electronics France | * postponed |  |  |
| * C1-202431 | * Editorial fix in 9.11.4 | * Apple | * revised |  | * C1-202650 |
| * C1-202432 | * correction to network selection in case of multiple subscribed SNPNs | * Intel /Thomas | * revised |  | * C1-202625, C1-202777 |
| * C1-202433 | * TSN working domain | * Nokia, Nokia Shanghai Bell | * revised |  | * C1-202860 |
| * C1-202434 | * PC5 QoS flow establishment during the PC5 unicast link establishment procedure | * Huawei, HiSIlicon / Vishnu | * merged |  |  |
| * C1-202435 | * TSN working domain | * Nokia, Nokia Shanghai Bell | * postponed |  |  |
| * C1-202436 | * Discussion on the selected EPS NAS security algorithms | * BEIJING SAMSUNG TELECOM R&D | * noted |  |  |
| * C1-202437 | * Condition for setting the Selected EPS NAS algorithm IE to NULL | * BEIJING SAMSUNG TELECOM R&D | * postponed |  |  |
| * C1-202438 | * Resolution of editor's note under 5.2.3 | * Huawei, HiSilicon /Christian | * agreed |  |  |
| * C1-202439 | * Resolution of editor's note under 6.1.2.5.2 | * Huawei, HiSilicon /Christian | * agreed |  |  |
| * C1-202440 | * Create SIP based subscription for SLM | * Samsung, Huawei, HiSilicon / Sapan | * postponed |  |  |
| * C1-202441 | * Modify SIP based subscription for SLM | * Samsung / Sapan | * postponed |  |  |
| * C1-202442 | * Delete SIP based subscription for SLM | * Samsung / Sapan | * postponed |  |  |
| * C1-202443 | * Handling of abnormal cases for SIP based subscription in SLM | * Samsung / Sapan | * postponed |  |  |
| * C1-202444 | * Message Formats for location management subscription | * Samsung / Sapan | * postponed |  |  |
| * C1-202445 | * Timers used in location management | * Samsung / Sapan | * postponed |  |  |
| * C1-202446 | * Annex for registering ICSI and MIME for SLM | * Samsung / Sapan | * postponed |  |  |
| * C1-202447 | * SIP based subscribe/notify procedures for SEAL group management | * Samsung / Sapan | * agreed |  |  |
| * C1-202448 | * Removal of Editor’s notes | * Samsung / Sapan | * revised |  | * C1-202809 |
| * C1-202449 | * Indication from SGM-S to SGM-C about group join required | * Samsung / Sapan | * agreed |  |  |
| * C1-202450 | * SIP based subscribe/notify procedures for configuration management | * Samsung / Sapan | * agreed |  |  |
| * C1-202451 | * Removal of Editor’s notes. | * Samsung / Sapan | * revised |  | * C1-202810 |
| * C1-202452 | * Fix minor issues in MCData pre-etsblished session | * Samsung / Sapan | * revised |  | * C1-202794 |
| * C1-202453 | * Miscellaneous corrections | * Huawei, HiSilicon /Christian | * agreed |  |  |
| * C1-202454 | * Updating NSSAI status in AMF | * NEC | * postponed | * C1-200691 |  |
| * C1-202455 | * Resolution of editor's note under 6.1.2.3.6 | * Huawei, HiSilicon /Christian | * revised |  | * C1-202768 |
| * C1-202456 | * Resolution of the editor's note under 6.1.2.5.7.2 | * Huawei, HiSilicon /Christian | * revised |  | * C1-202769 |
| * C1-202457 | * Correction on conditions to initiate a PC5 unciast link establishment procedure | * Huawei, HiSilicon / Vishnu | * revised |  | * C1-202842 |
| * C1-202458 | * Application unique ID for the VAE layer | * Huawei, HiSilicon /Christian | * agreed |  |  |
| * C1-202459 | * Enhancement on CPSR for CIoT CP data transport | * Huawei, HiSilicon, Vodafone, ZTE, China Mobile, China Telecom, CATT/Lin | * revised | * C1-200893 | * C1-202795 |
| * C1-202460 | * Discussion on routing failure of CPSR | * Huawei, HiSilicon, China Mobile/Lin | * noted |  |  |
| * C1-202461 | * Routing failure handling of CPSR | * Huawei, HiSilicon, China Mobile/Lin | * merged |  |  |
| * C1-202462 | * Acknowledgement of truncated 5G-S-TMSI configuration | * Huawei, HiSilicon/Lin | * agreed |  |  |
| * C1-202463 | * NAS-MAC calculation for RRC connection reestablishment for NB-IoT CP optimisation | * Huawei, HiSilicon/Lin | * agreed |  |  |
| * C1-202464 | * Removal of Editor’s Note for CP congestion control | * Huawei, HiSilicon/Lin | * agreed |  |  |
| * C1-202465 | * Correction on WUS assistance | * Huawei, HiSilicon/Lin | * revised |  | * C1-202796 |
| * C1-202466 | * WUS assistance for emergency | * Huawei, HiSilicon/Lin | * revised |  | * C1-202797 |
| * C1-202467 | * WUS assistance for TAU | * Huawei, HiSilicon/Lin | * agreed |  |  |
| * C1-202468 | * Retry restriction for NB-IoT UEs due to out of tariff package | * Huawei, HiSilicon/Lin | * revised |  | * C1-202798 |
| * C1-202469 | * Non-3GPP access for PLMN and SNPN | * Huawei, HiSilicon/Lin | * revised |  | * C1-202799 |
| * C1-202470 | * No CAG in non-3GPP access | * Huawei, HiSilicon/Lin | * agreed |  |  |
| * C1-202471 | * Correction on 5GMM #27 for CAG | * Huawei, HiSilicon/Lin | * agreed |  |  |
| * C1-202472 | * Discussion on including pending S-NSSAI(s) in the requested NSSAI | * Huawei, HiSilicon/Lin | * noted |  |  |
| * C1-202473 | * Inclusion of pending S-NSSAI(s) in the requested NSSAI | * Huawei, HiSilicon, China Telecom/Lin | * revised |  | * C1-202800 |
| * C1-202474 | * LS on handling pending NSSAI during ongoing NSSAA | * Huawei, HiSilicon/Lin | * postponed |  |  |
| * C1-202475 | * Term on rejected NSSAI for the failed or revoked NSSAA | * Huawei, HiSilicon/Lin | * agreed |  |  |
| * C1-202476 | * Corrections on the abnormal cases of registration procedure for initial registration | * Huawei, HiSilicon/Lin | * revised | * C1-199032 | * C1-202801 |
| * C1-202477 | * Correction on UE behaviour for service area restriction | * Huawei, HiSilicon/Lin | * agreed | * C1ah-200161 |  |
| * C1-202478 | * Single-registration mode without N26 | * Huawei, HiSilicon/Lin | * revised |  | * C1-202802 |
| * C1-202479 | * Single-registration mode without N26 | * Huawei, HiSilicon/Lin | * revised |  | * C1-202803 |
| * C1-202480 | * Service reject for emergency EPS fallback | * Huawei, HiSilicon/Lin | * withdrawn |  |  |
| * C1-202481 | * Handling of mapped EPS bearer contexts | * Huawei, HiSilicon/Lin | * withdrawn |  |  |
| * C1-202482 | * Integrity check interworking in 5GMM-CONNECTED mode | * Huawei, HiSilicon/Lin | * withdrawn |  |  |
| * C1-202483 | * Correction on LADN DNN based congestion control | * Huawei, HiSilicon/Lin | * withdrawn |  |  |
| * C1-202484 | * Correction on retry restriction for ESM#66 | * Huawei, HiSilicon/Lin | * revised |  | * C1-202804 |
| * C1-202485 | * Packet filter for PC5 QoS flows | * Huawei, HiSilicon / Vishnu | * revised |  | * C1-202844 |
| * C1-202486 | * Discussion on 3GPP based access authentication for untrusted non-3GPP access to 5GCN | * Ericsson, BlackBerry UK Ltd., Motorola Mobility, Lenovo / Ivo | * noted |  |  |
| * C1-202487 | * LS on 3GPP based access authentication for untrusted non-3GPP access to 5GCN | * Ericsson / Ivo | * revised |  | * C1-202911 |
| * C1-202488 | * Clean-up | * Ericsson /Jörgen | * revised |  | * C1-202785 |
| * C1-202489 | * void | * void | * withdrawn |  |  |
| * C1-202490 | * MIME types | * Huawei, HiSilicon /Christian | * revised |  | * C1-202766 |
| * C1-202491 | * Allowed SSC mode for association between an application and a PDU session | * OPPO / Rae | * revised |  | * C1-202705 |
| * C1-202492 | * Handling of unallowed SSC mode | * OPPO / Rae | * revised |  | * C1-202706 |
| * C1-202493 | * Discussion to RAN2 LS R2-2002417 | * Ericsson / Ivo | * withdrawn |  |  |
| * C1-202494 | * Text for empty headings | * Ericsson /Jörgen | * agreed |  |  |
| * C1-202495 | * Correction to Manual CAG selection procedure | * Samsung/Kundan | * agreed |  |  |
| * C1-202496 | * IPConnectivity extension to include IP Information | * Kontron Transportation France | * revised |  | * C1-202883 |
| * C1-202497 | * IPConnectivity extension to include IP Information | * Kontron Transportation France | * revised |  | * C1-202884 |
| * C1-202498 | * IPConnectivity extension to include IP Information | * Kontron Transportation France | * revised |  | * C1-202885 |
| * C1-202499 | * Discussion paper – Considerations for CAG ID in Unified Access Control | * Chengdu OPPO Mobile Com. corp. | * noted |  |  |
| * C1-202500 | * Correction on rendering local tones | * Ericsson, Deutsche Telekom /Jörgen | * revised |  | * C1-202887 |
| * C1-202501 | * UAC exception for emergency | * MediaTek Inc. / Marko | * revised |  | * C1-202680 |
| * C1-202502 | * NAS Message Container 2 for LPP/LCS messages | * MediaTek Inc., Qualcomm Incorporated / Marko | * revised | * C1-198902 | * C1-202681 |
| * C1-202503 | * MRU after SR for ESFB aborted | * MediaTek Inc. / Marko | * revised |  | * C1-202682 |
| * C1-202504 | * MRU failed due to RRC signalling connection release in restricted service area | * MediaTek Inc. / Marko | * postponed |  |  |
| * C1-202505 | * Correction to criteria to enter 5GMM-REGISTERED.UPDATE-NEEDED substate after resumption failure | * MediaTek Inc. / Marko | * revised |  | * C1-202683 |
| * C1-202506 | * 5GS forbidden tracking areas for roaming for SNPN | * MediaTek Inc. / Marko | * postponed |  |  |
| * C1-202507 | * Registration at PLMN change at PLMN-SEARCH substate | * MediaTek Inc. / Marko | * postponed |  |  |
| * C1-202508 | * T3346 handling when the UE is registered to different PLMNs over 3GPP and non-3GPP | * MediaTek Inc. / Marko | * revised |  | * C1-202684 |
| * C1-202509 | * Correction to 5G-GUTI handling when received at REGISTRATION ACCEPT | * MediaTek Inc. / Marko | * postponed |  |  |
| * C1-202510 | * Correcting that 5G NAS integrity key is one of the input parameters for integrity protection algorithm | * MediaTek Inc. / Marko | * agreed |  |  |
| * C1-202511 | * Reset of PLMN-specific attempt counter | * MediaTek Inc. / Marko | * revised |  | * C1-202685 |
| * C1-202512 | * Correction to Handling of T3321 timer | * MediaTek Inc. / Marko | * agreed |  |  |
| * C1-202513 | * Correction to Handling of T3421 timer | * MediaTek Inc. / Marko | * revised |  | * C1-202686 |
| * C1-202514 | * Correction to Handling of T3521 timer | * MediaTek Inc. / Marko | * revised |  | * C1-202687 |
| * C1-202515 | * Correction of EMM initiated TAU procedure in EMM-REGISTERED.ATTEMPTING-TO-UPDATE-MM | * MediaTek Inc. / Marko | * revised |  | * C1-202688 |
| * C1-202516 | * Correction to Handling of MO CSFB Emergency call in EMM-REGISTERED.ATTEMPTING-TO-UPDATE-MM | * MediaTek Inc. / Marko | * revised |  | * C1-202689 |
| * C1-202517 | * Correction to Handling of #31 | * MediaTek Inc. / Marko | * revised |  | * C1-202690 |
| * C1-202518 | * Correction to Handling of #31 | * MediaTek Inc. / Marko | * agreed |  |  |
| * C1-202519 | * Correction to Handling of #35 | * MediaTek Inc. / Marko | * agreed |  |  |
| * C1-202520 | * Correction to handling of T3447 timer | * MediaTek Inc. / Marko | * revised |  | * C1-202691 |
| * C1-202521 | * Correction to handling of T3447 timer | * MediaTek Inc. / Marko | * revised |  | * C1-202692 |
| * C1-202522 | * Correct "theregistration" | * MediaTek Inc. / Marko | * agreed |  |  |
| * C1-202523 | * De-registration before initial registration for Emergency Services | * MediaTek Inc. / Marko | * agreed |  |  |
| * C1-202524 | * Handling of allowed NSSAI when the RA includes the TAI belonging to EPLMN | * SHARP | * revised |  | * C1-202889 |
| * C1-202525 | * Handling of rejected NSSAI for the current RA when the RA includes the TAI belonging to EPLMN | * SHARP | * withdrawn |  |  |
| * C1-202526 | * Corrections on NSSAI storage | * Huawei, HiSilicon / Vishnu | * agreed |  |  |
| * C1-202527 | * UE initiating service request over non-3GPP access after stopping T3346 | * SHARP | * merged |  |  |
| * C1-202528 | * UE behaviour when the UE receives the rejected NSSAI for the current RA in the registration reject message and the RA is not stored | * SHARP | * revised |  | * C1-202696 |
| * C1-202529 | * Initial Registration after 5G-SRVCC | * ZTE, China Unicom | * revised | * C1-202338 | * C1-202638 |
| * C1-202530 | * Discussion on S-NSSAI based congestion control | * MediaTek Inc., Qualcomm Incoporated. / JJ | * noted |  |  |
| * C1-202531 | * Handlings of MA PDU session when deregistration from an access | * MediaTek Inc. / JJ | * revised |  | * C1-202816 |
| * C1-202532 | * Considering allowed NSSAI when requesting MA PDU session upgrade | * MediaTek Inc. / JJ | * revised |  | * C1-202818 |
| * C1-202533 | * Correction to the steering modes | * MediaTek Inc. / JJ | * agreed |  |  |
| * C1-202534 | * Discussion on support of QoS rules/QoS flow descriptions with the length of two octets | * MediaTek Inc. / JJ | * noted |  |  |
| * C1-202535 | * Indicate support of ePCO length of two octets parameter when establishing the PDU session – Alt#2 | * MediaTek Inc. / JJ | * agreed |  |  |
| * C1-202536 | * Indicate support of ePCO length of two octets parameter in the bearer resource modification procedure – Alt#3 | * MediaTek Inc. / JJ | * withdrawn |  |  |
| * C1-202537 | * Unsupported 5QI values | * MediaTek Inc. / JJ | * revised |  | * C1-202820 |
| * C1-202538 | * Addition of 5GSM cause #59 | * MediaTek Inc. / JJ | * revised |  | * C1-202821 |
| * C1-202539 | * New AT command for linking packet filters +CGLNKPF | * MediaTek Inc. / JJ | * revised |  | * C1-202822 |
| * C1-202540 | * New AT command for deleting packet filters +CGDELPF | * MediaTek Inc. / JJ | * revised |  | * C1-202823 |
| * C1-202541 | * Correction to the URSP coding | * MediaTek Inc., ZTE / JJ | * postponed | * C1-198970 |  |
| * C1-202542 | * Error handling of precedence value conflict | * MediaTek Inc. / JJ | * revised |  | * C1-202824 |
| * C1-202543 | * Clarification to NW slice-specific re-authentication and re-authorization | * Ericsson /kaj | * postponed |  |  |
| * C1-202544 | * XML scheme declaration for V2XAPP | * Huawei, HiSilicon / Chen | * revised |  | * C1-202728 |
| * C1-202545 | * V2X application resource management procedure | * Huawei, HiSilicon / Chen | * revised |  | * C1-202729 |
| * C1-202546 | * Structure and data semantics for V2X application resource management procedure | * Huawei, HiSilicon / Chen | * agreed |  |  |
| * C1-202547 | * Direct link identifier update procedure messages definition and IEs coding | * CATT | * merged |  |  |
| * C1-202548 | * Adding Location Privacy Setting operation | * CATT | * agreed |  |  |
| * C1-202549 | * Addition of new AT command for 5G Location Services testing | * CATT | * postponed |  |  |
| * C1-202550 | * Corrections to file upload-download procedure as per stage 2 architecture changes | * Samsung | * revised |  | * C1-202654 |
| * C1-202551 | * Authorisation validation for first-to-answer call origination requesting user using pre-established session | * Samsung | * revised |  | * C1-202655 |
| * C1-202552 | * Check for MCPTT ID bindng and validity period of existing binding | * Samsung | * revised |  | * C1-202656 |
| * C1-202553 | * Corrections to location sharing during call setup | * Samsung | * revised |  | * C1-202657 |
| * C1-202554 | * Corrections to current talker location in ambient call | * Samsung | * revised |  | * C1-202658 |
| * C1-202555 | * Corrections to step reference in terminating controlling function | * Samsung | * agreed |  |  |
| * C1-202556 | * Corrections to step reference in create a group regroup using preconfigured group | * Samsung | * agreed |  |  |
| * C1-202557 | * Corrected the client origination procedure subclause text of 11.1.6.2.1.1 | * Samsung | * agreed |  |  |
| * C1-202558 | * Allow an emergency and immenit peril calls during max simultaneous sessions | * Samsung | * agreed |  |  |
| * C1-202559 | * Authentication of the MIKEY-SAKKE I\_Message validation in pre-established session | * Samsung | * revised |  | * C1-202659 |
| * C1-202560 | * Talker location sharing in remote ambient call | * Samsung | * revised |  | * C1-202660 |
| * C1-202561 | * handling of ePWS message | * Samsung/ Kyungjoo Grace Suh | * not pursued |  |  |
| * C1-202562 | * Supplementary LCS Service Operations | * CATT | * withdrawn |  |  |
| * C1-202563 | * handling of ePWS message | * Samsung/ Kyungjoo Grace Suh | * revised |  | * C1-202814 |
| * C1-202564 | * Reply LS on concurrent Broadcasting for CMAS | * Samsung/ Kyungjoo Grace Suh | * merged |  |  |
| * C1-202565 | * Discussion for concurrent broadcast for CMAS | * Samsung/ Kyungjoo Grace Suh | * noted |  |  |
| * C1-202566 | * Work plan for the CT1 part of MONASTERY2 | * Nokia, Nokia Shanghai Bell | * noted |  |  |
| * C1-202567 | * Sub/Notify FA resolution analysis | * Nokia, Nokia Shanghai Bell | * noted |  |  |
| * C1-202568 | * Resolution of called functional alias in first-to-answer calls | * Nokia, Nokia Shanghai Bell | * revised |  | * C1-202905 |
| * C1-202569 | * Update service configuration to support limiting the number of authorized clients per MCPTT user | * Nokia, Nokia Shanghai Bell | * postponed |  |  |
| * C1-202570 | * Updated WID MONASTERY2 | * Nokia, Nokia Shanghai Bell | * agreed |  |  |
| * C1-202571 | * EAP details for N5GC | * Nokia, Nokia Shanghai Bell | * withdrawn |  |  |
| * C1-202572 | * Corrections on N5GC SUPI SUCI | * Nokia, Nokia Shanghai Bell | * withdrawn |  |  |
| * C1-202573 | * withdrawn | * Nokia, Nokia Shanghai Bell | * withdrawn |  |  |
| * C1-202574 | * withdrawn | * Nokia, Nokia Shanghai Bell | * withdrawn |  |  |
| * C1-202575 | * PMF protocol alternatives analysis | * Nokia, Nokia Shanghai Bell | * noted |  |  |
| * C1-202576 | * Minor clarification for ATSSS-LL support | * Nokia, Nokia Shanghai Bell | * withdrawn |  |  |
| * C1-202577 | * Clarification on MAI | * Nokia, Nokia Shanghai Bell | * withdrawn |  |  |
| * C1-202578 | * Extending congestion notification to capture ePDG overload | * Nokia, Nokia Shanghai Bell, Charter Communications | * revised |  | * C1-202907 |
| * C1-202579 | * Extending congestion notification to capture N3IWF or TNGF overload | * Nokia, Nokia Shanghai Bell, Charter Communications | * revised |  | * C1-202903 |
| * C1-202580 | * Enable N3IWF to initiate TCP connection establishment upon failure | * Nokia, Nokia Shanghai Bell | * revised |  | * C1-202901 |
| * C1-202581 | * Handling of PDU session authentication | * Samsung / Kyungjoo Grace Suh | * postponed |  |  |
| * C1-202582 | * Service Request for Multiple access PDU session | * Samsung / Kyungjoo Grace Suh | * postponed |  |  |
| * C1-202583 | * Security handling | * Samsung/ Kyungjo Grace Suh | * withdrawn |  |  |
| * C1-202584 | * Reference update for PASSporT Extension for Diverted Calls | * Orange / Mariusz | * agreed |  |  |
| * C1-202585 | * Reference update for PASSporT Extension for Diverted Calls | * Orange / Mariusz | * agreed |  |  |
| * C1-202586 | * Reference update for PASSporT Extension for Diverted Calls | * Orange / Mariusz | * agreed |  |  |
| * C1-202587 | * Update Handing EAP Result for NSSAA | * China Mobile | * withdrawn |  |  |
| * C1-202588 | * CAG Information in Registration Reject | * InterDigital, Samsung / Atle | * merged | * C1-200316 |  |
| * C1-202589 | * eNS – way forward for indefinite wait for NSSAA | * InterDigital / Atle | * noted |  |  |
| * C1-202590 | * Correction in IMS\_Registration\_handling policy about how UE should deregister | * MediaTek Inc. | * revised | * C1-202090 | * C1-202759 |
| * C1-202591 | * Reply LS on QoS mapping procedure (S4-200690) | * SA4 | * noted |  |  |
| * C1-202592 | * Service reject for emergency EPS fallback | * Huawei, HiSilicon/Lin | * revised |  | * C1-202805 |
| * C1-202593 | * Handling of mapped EPS bearer contexts | * Huawei, HiSilicon/Lin | * revised |  | * C1-202806 |
| * C1-202594 | * Integrity check interworking in 5GMM-CONNECTED mode | * Huawei, HiSilicon/Lin | * revised |  | * C1-202807 |
| * C1-202595 | * Correction on LADN DNN based congestion control | * Huawei, HiSilicon/Lin | * revised |  | * C1-202808 |
| * C1-202596 | * Defining new parameters needed for the Link Identifier Update procedure | * InterDigital Communications | * revised | * C1-202327 | * C1-202870 |
| * C1-202597 | * LS on Concurrent Broadcasting for CMAS (R3-197749) | * RAN3 | * noted | * C1-202046 |  |
| * C1-202598 | * Timer values for timers of the PC5 unicast link management procedures | * Huawei, HiSilicon /Christian | * revised | * C1-202225 | * C1-202773 |
| * C1-202599 | * Subscription management in PWS-IWF | * one2many B.V. | * agreed | * C1-202076 | * - |
| * C1-202600 | * Addition of Test Flag | * one2many B.V. | * postponed | * C1-202203 | * - |
| * C1-202601 | * Miscellaneous editorial corrections | * Samsung Electronics Polska / Ricky | * agreed | * C1-202126 | * - |
| * C1-202602 | * LS on status of 5WWC work (LIAISE-390) | * Broadband Forum | * postponed | * - | * - |
| * C1-202603 | * Updating descriptions of NS for NSSAA | * China Mobile | * postponed | * C1-202171 | * - |
| * C1-202604 | * Use preconditions for CAT when originating UE supports precondition | * Huawei,China Telecom,China Unicom,HiSilicon /Hongxia | * revised | * C1-202155 | * C1-202891 |
| * C1-202605 | * Use preconditions for CRS when terminating UE supports precondition | * Huawei,China Telecom,China Unicom,HiSilicon /Hongxia | * revised | * C1-202156 | * C1-202863 |
| * C1-202606 | * non-3GPP access not supported in SNPN | * Intel /Thomas | * merged | * C1-202399 | * - |
| * C1-202607 | * OTAF renamed to SP-AF | * Orange, Ericsson | * agreed | * C1-202070 | * - |
| * C1-202608 | * AMF triggers PDU session release | * Samsung Electronics Polska / Ricky | * agreed | * C1-202122 | * - |
| * C1-202609 | * Definition of registered SNPN | * Intel /Thomas | * agreed | * C1-202174 | * - |
| * C1-202610 | * Editorial corrections | * Sepura Ltd, Hytera Communications Corp | * agreed | * C1-202286 | * - |
| * C1-202611 | * DRX parameters for NB-IoT | * InterDigital Communications | * revised | * C1-202084 | * C1-202619 |
| * C1-202612 | * Inclusion of requested NSSAI in AN parameters | * Motorola Mobility, Lenovo | * agreed | * C1-202284 | * - |
| * C1-202613 | * Inclusion of NSSAI in AN Parameters for non-3GPP access | * Motorola Mobility, Lenovo | * postponed | * C1-202283 | * - |
| * C1-202614 | * QoS error checks for UEs in NB-N1 mode | * BEIJING SAMSUNG TELECOM R&D | * agreed | * C1-202388 | * - |
| * C1-202615 | * Applicable URSP is not optional for a UE | * Motorola Mobility, Lenovo | * agreed | * C1-202280 | * - |
| * C1-202616 | * Adding new abnormal cases on the network side for CPSR | * China Mobile | * withdrawn | * C1-202169 | * - |
| * C1-202617 | * LS on manipulation of CAG Information element by a VPLMN | * Samsung R&D Institute India | * approved | * - | * - |
| * C1-202618 | * Network-requested PDU session release due to failed or revoked NSSAA | * Motorola Mobility, Lenovo | * revised | * C1-202282 | * C1-202918 |
| * C1-202619 | * DRX parameters for NB-IoT | * InterDigital Communications | * revised | * C1-202611 | * C1-202671 |
| * C1-202620 | * Subscription update in case of SNPN | * Intel /Thomas | * merged | * C1-202396 | * - |
| * C1-202621 | * Performance management function protocol | * Ericsson, InterDigital, Nokia, Nokia Shanghai Bell, Huawei, HiSilicon, ZTE, SHARP, NTT DOCOMO, China Mobile, vivo, Softil, Convida Wireless, SyncTechno Inc., China Telecom / Ivo | * revised | * C1-202019 | * C1-202679 |
| * C1-202622 | * Comparison of solutions for performance measurement function (PMF) protocol | * Ericsson / Ivo | * noted | * C1-202021 | * - |
| * C1-202623 | * Removal of Duplicate Service Operation Details | * one2many | * agreed | * C1-202073 | * - |
| * C1-202624 | * Reply LS on Non-UE N2 Message Services Operations | * one2many B.V. | * revised | * - | * C1-202663 |
| * C1-202625 | * correction to network selection in case of multiple subscribed SNPNs | * Intel /Thomas | * withdrawn | * C1-202432 | * - |
| * C1-202626 | * Retransmission of a CPSR message after integrity check failure at the AMF | * BEIJING SAMSUNG TELECOM R&D | * agreed | * C1-202404 | * - |
| * C1-202627 | * Updating Rejeted NSSAI IE for failed NSSAA case in roaming scenerios | * China Mobile | * agreed | * C1-202329 | * - |
| * C1-202628 | * Updating requirements of NSSAA for roaming scenerios | * China Mobile | * agreed | * C1-202173 | * - |
| * C1-202629 | * Missing condition for inclusion of “NSSAA to be performed” indicator | * Samsung, Ericsson | * agreed | * C1-202121 | * - |
| * C1-202630 | * Check regroup ID | * FirstNet / Mike | * agreed | * C1-202220 | * - |
| * C1-202631 | * Clarification of 11.1.6.2.1.2 | * FirstNet / Mike | * agreed | * C1-202221 | * - |
| * C1-202632 | * Update affiliation definition to support preconfigured regroups | * FirstNet / Mike | * agreed | * C1-202222 | * - |
| * C1-202633 | * Add handling for parameter set to “value is not used” in EPS | * Qualcomm Incorporated | * postponed | * C1-202267 | * - |
| * C1-202634 | * Add handling for parameter set to “value is not used” in 5GS | * Qualcomm Incorporated | * agreed | * C1-202268 | * - |
| * C1-202635 | * Add handling for UE configured to use timer T3245 in 5GS via 3GPP access | * Qualcomm Incorporated | * agreed | * C1-202278 | * - |
| * C1-202636 | * Removal of editor’s notes | * Motorola Mobility, Lenovo | * agreed | * C1-202290 | * - |
| * C1-202637 | * Deposit an object | * AT&T, Samsung | * agreed | * C1-202023 | * - |
| * C1-202638 | * Initial Registration after 5G-SRVCC | * ZTE, China Unicom | * agreed | * C1-202529 | * - |
| * C1-202639 | * Add the missing figure for UE-requested V2X policy provisioning procedure | * OPPO / Rae | * agreed | * C1-202115 | * - |
| * C1-202640 | * Create a subscription to notifications | * AT&T | * agreed | * C1-202024 | * - |
| * C1-202641 | * Delete a subscription to notifications | * AT&T, Samsung | * agreed | * C1-202025 | * - |
| * C1-202642 | * Clarification of SMF and UE behavior in 5GS to EPS mobility without N26 interface | * SHARP | * agreed | * C1-202372 | * - |
| * C1-202643 | * Update a subscription to notifications | * AT&T, Samsung | * agreed | * C1-202026 | * - |
| * C1-202644 | * Clarification for the use of enhanced coverage in EPS | * Samsung, Huawei, HiSilicon, InterDigital | * withdrawn | * C1-202088 | * - |
| * C1-202645 | * Clarification for the use of enhanced coverage in EPS | * Samsung, Huawei, HiSilicon, InterDigital | * revised | * C1-202088 | * C1-202906 |
| * C1-202646 | * Synchronization notification | * AT&T | * agreed | * C1-202027 | * - |
| * C1-202647 | * Search-based Synchronization | * AT&T | * agreed | * C1-202028 | * - |
| * C1-202648 | * Indication of change in the use of enhanced coverage | * Samsung, InterDigital, Huawei, HiSilicon | * revised | * C1-202077 | * C1-202904 |
| * C1-202649 | * List folder | * AT&T, Samsung | * agreed | * C1-202029 | * - |
| * C1-202650 | * Editorial fix in 9.11.4 | * Apple | * agreed | * C1-202431 | * - |
| * C1-202651 | * Missing QoS flow description parameters for GBR QoS flows in 5GSM and ESM coordination | * Huawei, HiSilicon / Cristina | * revised | * C1-202349 | * C1-202861 |
| * C1-202652 | * Clarification on URSP in EPS | * ZTE / Joy | * agreed | * C1-202144 | * - |
| * C1-202653 | * Error type on failure of reserving QoS resources over non-3GPP access | * ZTE / Joy | * agreed | * C1-202293 | * - |
| * C1-202654 | * Corrections to file upload-download procedure as per stage 2 architecture changes | * Samsung | * revised | * C1-202550 | * C1-202835 |
| * C1-202655 | * Authorisation validation for first-to-answer call origination requesting user using pre-established session | * Samsung | * revised | * C1-202551 | * C1-202834 |
| * C1-202656 | * Check for MCPTT ID bindng and validity period of existing binding | * Samsung | * agreed | * C1-202552 | * - |
| * C1-202657 | * Corrections to location sharing during call setup | * Samsung | * agreed | * C1-202553 | * - |
| * C1-202658 | * Corrections to current talker location in ambient call | * Samsung | * agreed | * C1-202554 | * - |
| * C1-202659 | * Authentication of the MIKEY-SAKKE I\_Message validation in pre-established session | * Samsung | * postponed | * C1-202559 | * - |
| * C1-202660 | * Talker location sharing in remote ambient call | * Samsung | * agreed | * C1-202560 | * - |
| * C1-202661 | * Correction on EPS interworking | * ZTE / Joy | * agreed | * C1-202143 | * - |
| * C1-202662 | * UE specific DRX for NB-S1 mode | * Vodafone, Ericsson, Huawei, HiSilicon | * agreed | * C1-202384 | * - |
| * C1-202663 | * Reply LS on Non-UE N2 Message Services Operations | * one2many B.V. | * approved | * C1-202624 | * - |
| * C1-202664 | * Service area restrictions in an SNPN | * Nokia, Nokia Shanghai Bell, Ericsson | * revised | * C1-202409 | * C1-202920 |
| * C1-202665 | * LS on the requirement that non-3GPP access node selection information includes an "any PLMN" entry | * BlackBerry UK Limited | * revised | * - | * C1-202847 |
| * C1-202666 | * LS on security context for 5GC to EPC mobility | * Huawei, HiSilicon/Lin | * approved | * - | * - |
| * C1-202667 | * PAP/CHAP and other point-to-point protocols usage in 5GS | * Qualcomm Incorporated | * revised | * - | * C1-202933 |
| * C1-202668 | * Reply LS on 5G Steering of Roaming | * Orange / Mariusz | * approved | * C1-202067 | * - |
| * C1-202669 | * NSSAA for UEs that roam across 5GS VPLMNs | * BEIJING SAMSUNG TELECOM R&D | * postponed | * C1-202259 | * - |
| * C1-202670 | * Correcting order in which connections/sessions are transferred if there is an emergency call | * BlackBerry Uk Ltd. | * revised | * C1-202098 | * C1-202868 |
| * C1-202671 | * DRX parameters for NB-IoT | * InterDigital Communications | * revised | * C1-202619 | * C1-202865 |
| * C1-202672 | * Correct N3AN node selection due to LI | * BlackBerry Uk Ltd. | * revised | * C1-202092 | * C1-202831 |
| * C1-202673 | * Correct N3AN node selection due to LI | * BlackBerry Uk Ltd. | * revised | * C1-202093 | * C1-202832 |
| * C1-202674 | * Correct handling of receiving EMM cause #31 in EPS | * Qualcomm Incorporated | * agreed | * C1-202270 | * - |
| * C1-202675 | * Support scenario where the SCC AS sends a request to the HSS to retrieve the SRVCC data for the UE | * BlackBerry UK Ltd. | * merged | * C1-202099 | * - |
| * C1-202676 | * Correct UE behavior for receiving 5GMM cause #31 in 5GS | * Qualcomm Incorporated | * agreed | * C1-202271 | * - |
| * C1-202677 | * Typo fixes | * AT&T | * agreed | * C1-202030 | * - |
| * C1-202678 | * Clarify that NSSAA can occur during periodic registration or mobility updating for NB-N1 mode UEs | * BEIJING SAMSUNG TELECOM R&D | * agreed | * C1-202234 | * - |
| * C1-202679 | * Performance management function protocol | * Ericsson, InterDigital, Nokia, Nokia Shanghai Bell, Huawei, HiSilicon, ZTE, SHARP, NTT DOCOMO, China Mobile, vivo, Softil, Convida Wireless, SyncTechno Inc., China Telecom / Ivo | * agreed | * C1-202621 | * - |
| * C1-202680 | * UAC exception for emergency | * MediaTek Inc. / Marko | * agreed | * C1-202501 | * - |
| * C1-202681 | * NAS Message Container 2 for LPP/LCS messages | * MediaTek Inc., Qualcomm Incorporated / Marko | * postponed | * C1-202502 | * - |
| * C1-202682 | * MRU after SR for ESFB aborted | * MediaTek Inc. / Marko | * agreed | * C1-202503 | * - |
| * C1-202683 | * Correction to criteria to enter 5GMM-REGISTERED.UPDATE-NEEDED substate after resumption failure | * MediaTek Inc. / Marko | * agreed | * C1-202505 | * - |
| * C1-202684 | * T3346 handling when the UE is registered to different PLMNs over 3GPP and non-3GPP | * MediaTek Inc. / Marko | * agreed | * C1-202508 | * - |
| * C1-202685 | * Reset of PLMN-specific attempt counter | * MediaTek Inc. / Marko | * agreed | * C1-202511 | * - |
| * C1-202686 | * Correction to Handling of T3421 timer | * MediaTek Inc. / Marko | * agreed | * C1-202513 | * - |
| * C1-202687 | * Correction to Handling of T3521 timer | * MediaTek Inc. / Marko | * agreed | * C1-202514 | * - |
| * C1-202688 | * Correction of EMM initiated TAU procedure in EMM-REGISTERED.ATTEMPTING-TO-UPDATE-MM | * MediaTek Inc. / Marko | * agreed | * C1-202515 | * - |
| * C1-202689 | * Correction to Handling of MO CSFB Emergency call in EMM-REGISTERED.ATTEMPTING-TO-UPDATE-MM | * MediaTek Inc. / Marko | * agreed | * C1-202516 | * - |
| * C1-202690 | * Correction to Handling of #31 | * MediaTek Inc. / Marko | * agreed | * C1-202517 | * - |
| * C1-202691 | * Correction to handling of T3447 timer | * MediaTek Inc. / Marko | * agreed | * C1-202520 | * - |
| * C1-202692 | * Correction to handling of T3447 timer | * MediaTek Inc. / Marko | * agreed | * C1-202521 | * - |
| * C1-202693 | * RACS parameters in generic UE configuration procedure | * Ericsson / Mikael | * agreed | * C1-202233 | * - |
| * C1-202694 | * Secondary authentication and W-AGF acting on behalf of N5GC | * Ericsson / Ivo | * agreed | * C1-202018 | * - |
| * C1-202695 | * EPS interworking of MA PDU session of 5G-RG when N26 is supported | * Ericsson / Ivo | * agreed | * C1-202031 | * - |
| * C1-202696 | * UE behaviour when the UE receives the rejected NSSAI for the current RA in the registration reject message and the RA is not stored | * SHARP | * agreed | * C1-202528 | * - |
| * C1-202697 | * Unify terms network-initiated and network-requested | * Huawei, HiSilicon / Cristina | * agreed | * C1-202295 | * - |
| * C1-202698 | * Add MFBR as mandatory parameter in GBR QoS flow | * Huawei, HiSilicon / Cristina | * agreed | * C1-202344 | * - |
| * C1-202699 | * Handling of PDU session and PDN connection associated with Control plane only indication in case of N26 based interworking procedures | * SHARP | * agreed | * C1-202369 | * - |
| * C1-202700 | * RPDU transfer for 5GS using Control Plane CIoT Optimization | * NTT DOCOMO INC. | * agreed | * C1-202217 | * - |
| * C1-202701 | * Applicability of PS data off to MA PDU | * OPPO / Rae | * agreed | * C1-202120 | * - |
| * C1-202702 | * The handling of N1 SM information during re-authentication and re-authorization for an S-NSSAI | * China Mobile | * postponed | * C1-202170 | * - |
| * C1-202703 | * Remove FFS on GFBR and MFBR for UL and DL | * OPPO / Rae | * revised | * C1-202118 | * C1-202867 |
| * C1-202704 | * Non-standadized QoS characteristics over PC5-S | * OPPO / Rae | * agreed | * C1-202117 | * - |
| * C1-202705 | * Allowed SSC mode for association between an application and a PDU session | * OPPO / Rae | * agreed | * C1-202491 | * - |
| * C1-202706 | * Handling of unallowed SSC mode | * OPPO / Rae | * agreed | * C1-202492 | * - |
| * C1-202707 | * PDU session release due to CP only revocation | * OPPO / Rae | * revised | * C1-202328 | * C1-202866 |
| * C1-202708 | * Group size and menber ID from application layer for groupcast | * OPPO / Rae | * agreed | * C1-202119 | * - |
| * C1-202709 | * NW triggered SR over N3GPP under MM congestion control | * OPPO / Rae | * agreed | * C1-202324 | * - |
| * C1-202710 | * 5G GUTI of SNPN | * vivo | * agreed | * C1-202196 | * - |
| * C1-202711 | * storage of counters for UE in SNPN | * vivo | * revised | * C1-202195 | * C1-202894,C1-202895 |
| * C1-202712 | * 5GMM cause value #13 not supporting roaming for SNPN | * vivo | * revised | * C1-202198 | * C1-202869 |
| * C1-202713 | * storage of counters for UE in PLMN | * vivo | * revised | * C1-202200 | * C1-202897 |
| * C1-202714 | * Correction of the abnormal case in NW-TT-initiated Ethernet port management procedure | * vivo | * agreed | * C1-202191 | * - |
| * C1-202715 | * Updates to request for unicast resource at VAL service communication establishment procedure | * Huawei, HiSilicon / Chen | * agreed | * C1-202296 | * - |
| * C1-202716 | * Request for modification of unicast resources procedure | * Huawei, HiSilicon / Chen | * agreed | * C1-202298 | * - |
| * C1-202717 | * Network resource adaptation procedure | * Huawei, HiSilicon / Chen | * agreed | * C1-202300 | * - |
| * C1-202718 | * Structure and data semantics for MBMS bearer announcement over MBMS bearer procedure | * Huawei, HiSilicon / Chen | * agreed | * C1-202302 | * - |
| * C1-202719 | * Updates to MBMS bearer quality detection procedure | * Huawei, HiSilicon / Chen | * agreed | * C1-202303 | * - |
| * C1-202720 | * Structure and data semantics for MBMS bearer quality detection procedure | * Huawei, HiSilicon / Chen | * agreed | * C1-202304 | * - |
| * C1-202721 | * Structure and data semantics for use of pre-established MBMS bearers procedure | * Huawei, HiSilicon / Chen | * agreed | * C1-202306 | * - |
| * C1-202722 | * Use of dynamic MBMS bearers procedure | * Huawei, HiSilicon / Chen | * agreed | * C1-202307 | * - |
| * C1-202723 | * Service continuity in MBMS scenarios procedure | * Huawei, HiSilicon / Chen | * agreed | * C1-202308 | * - |
| * C1-202724 | * Structure and data semantics for service continuity in MBMS scenarios procedure | * Huawei, HiSilicon / Chen | * agreed | * C1-202309 | * - |
| * C1-202725 | * MBMS suspension notification procedure | * Huawei, HiSilicon / Chen | * agreed | * C1-202310 | * - |
| * C1-202726 | * Structure and data semantics for MBMS suspension notification procedure | * Huawei, HiSilicon / Chen | * agreed | * C1-202311 | * - |
| * C1-202727 | * XML scheme declaration for SEAL network resource management | * Huawei, HiSilicon / Chen | * agreed | * C1-202315 | * - |
| * C1-202728 | * XML scheme declaration for V2XAPP | * Huawei, HiSilicon / Chen | * agreed | * C1-202544 | * - |
| * C1-202729 | * V2X application resource management procedure | * Huawei, HiSilicon / Chen | * agreed | * C1-202545 | * - |
| * C1-202730 | * Corection for the target user info in the DIRECT LINK ESTABLISHMENT REQUEST message | * Huawei, HiSilicon / Chen | * agreed | * C1-202316 | * - |
| * C1-202731 | * Correction for the IP address configuration IE in the DIRECT LINK ESTABLISHMENT ACCEPT message | * Huawei, HiSilicon / Chen | * agreed | * C1-202317 | * - |
| * C1-202732 | * Correction for the link local IPv6 address IE in the DIRECT LINK ESTABLISHMENT ACCEPT message | * Huawei, HiSilicon / Chen | * agreed | * C1-202318 | * - |
| * C1-202733 | * XML scheme declaration for SEAL location management | * Huawei, HiSilicon / Chen | * agreed | * C1-202323 | * - |
| * C1-202734 | * Avoid repeated redirection for NB-IoT | * OPPO / Rae | * postponed | * C1-202326 | * - |
| * C1-202735 | * Emergency PDU sesseion established after WUS negotiation | * vivo | * agreed | * C1-202177 | * - |
| * C1-202736 | * Emergency PDN connection established after WUS negotiation | * vivo | * agreed | * C1-202178 | * - |
| * C1-202737 | * Correction on no suitable cell | * vivo | * agreed | * C1-202179 | * - |
| * C1-202738 | * Handling of link establishment accept | * vivo | * revised | * C1-202181 | * C1-202908 |
| * C1-202739 | * Handling of link modification accept | * vivo | * agreed | * C1-202182 | * - |
| * C1-202740 | * ENs resolving in modification pocedure | * vivo | * revised | * C1-202183 | * C1-202898,C1-202909 |
| * C1-202741 | * Updates to link release procedure | * vivo | * agreed | * C1-202184 | * - |
| * C1-202742 | * Correction of the timers of link identifier update procedure | * vivo | * agreed | * C1-202185 | * - |
| * C1-202743 | * Encoding of link identifier update messages and parameters | * vivo | * agreed | * C1-202186 | * - |
| * C1-202744 | * Handling of link identifier update not accept | * vivo | * agreed | * C1-202187 | * - |
| * C1-202745 | * Handling of PC5 unicast QoS flow match and establishment | * vivo | * agreed | * C1-202188 | * - |
| * C1-202746 | * Handling of PC5 broadcast QoS flow match and establishment | * vivo | * revised | * C1-202189 | * C1-202910 |
| * C1-202747 | * No allowed NSSAI associated with a registration area | * vivo | * withdrawn | * C1-202175 | * - |
| * C1-202748 | * Introducing V2X communications over NR PC5 in EPC | * LG Electronics / SangMin | * agreed | * C1-202160 | * - |
| * C1-202749 | * Adding a new abnormal case on the network side for CPSR | * China Mobile, InterDigital | * agreed | * C1-202169 | * - |
| * C1-202750 | * Configuration of resource priority for MCData emergency | * AT&T / Val | * agreed | * C1-202386 | * - |
| * C1-202751 | * Auxiliary procedures in support of Emergency Alerts for MCData | * AT&T / Val | * agreed | * C1-202288 | * - |
| * C1-202752 | * PS Data Off status report for non-3GPP access | * LG Electronics, Ericsson / SangMin | * agreed | * C1-202289 | * - |
| * C1-202753 | * LS on handling registration procedure for CAG only UE at non supporting AMF | * Samsung R&D Institute India | * withdrawn | * - | * - |
| * C1-202754 | * Handling of MCData Emergency Alerts at the MCData controlling server | * AT&T / Val | * agreed | * C1-202287 | * - |
| * C1-202755 | * Handling of MCData Emergency Alerts at the MCData participating servers | * AT&T / Val | * agreed | * C1-202281 | * - |
| * C1-202756 | * V2X MO update for V2X over NR PC5 | * LG Electronics / SangMin | * agreed | * C1-202161 | * - |
| * C1-202757 | * Indicating support of V2X over NR-PC5 | * LG Electronics / SangMin | * agreed | * C1-202162 | * - |
| * C1-202758 | * Clarifications on configuration parameters for the PC5 QoS profile | * LG Electronics / SangMin | * agreed | * C1-202163 | * - |
| * C1-202759 | * Correction in IMS\_Registration\_handling policy about how UE should deregister | * MediaTek Inc. | * agreed | * C1-202590 | * - |
| * C1-202760 | * Clarifications on the V2X policies regarding QoS | * LG Electronics / SangMin | * agreed | * C1-202164 | * - |
| * C1-202761 | * Emergency Alerts for MCData – client procedures | * AT&T / Val | * agreed | * C1-202262 | * - |
| * C1-202762 | * V2X USD provisioning | * Huawei, HiSilicon /Christian | * agreed | * C1-202213 | * - |
| * C1-202763 | * PC5 parameters provisioning | * Huawei, HiSilicon /Christian | * agreed | * C1-202214 | * - |
| * C1-202764 | * Structure and data semantics for V2X USD provisioning | * Huawei, HiSilicon /Christian | * agreed | * C1-202215 | * - |
| * C1-202765 | * Structure and data semantics for PC5 parameters provisioning | * Huawei, HiSilicon /Christian | * agreed | * C1-202216 | * - |
| * C1-202766 | * MIME types | * Huawei, HiSilicon /Christian | * agreed | * C1-202490 | * - |
| * C1-202767 | * Correction to the privacy timer | * Huawei, HiSilicon /Christian | * agreed | * C1-202226 | * - |
| * C1-202768 | * Resolution of editor's note under 6.1.2.3.6 | * Huawei, HiSilicon /Christian | * agreed | * C1-202455 | * - |
| * C1-202769 | * Resolution of the editor's note under 6.1.2.5.7.2 | * Huawei, HiSilicon /Christian | * agreed | * C1-202456 | * - |
| * C1-202770 | * Wrong implementation of agreed p-CR C1-200881 | * Huawei, HiSilicon /Christian | * agreed | * C1-202210 | * - |
| * C1-202771 | * Support for MCData emergency alert and communications | * AT&T / Val | * agreed | * C1-202260 | * - |
| * C1-202772 | * Wrong implementation of agreed p-CR C1-200882 | * Huawei, HiSilicon /Christian | * agreed | * C1-202211 | * - |
| * C1-202773 | * Timer values for timers of the PC5 unicast link management procedures | * Huawei, HiSilicon /Christian | * agreed | * C1-202598 | * - |
| * C1-202774 | * Clarification S-NSSAI status in AMF for NSSAA | * China Telecom Corporation Ltd. | * agreed | * C1-202111 | * - |
| * C1-202775 | * Connection Resumption for Notification | * ZTE, vivo | * agreed | * C1-202336 | * - |
| * C1-202776 | * Clarification on the rejected S-NSSAI included in requested NSSAI in registration procedure. | * China Telecom Corporation Ltd. | * agreed | * C1-202157 | * - |
| * C1-202777 | * correction to network selection in case of multiple subscribed SNPNs | * Intel, Ericsson | * agreed | * C1-202432 | * - |
| * C1-202778 | * Pending NSSAI update for the configured NSSAI in the CUC message | * China Telecom Corporation Ltd. | * agreed | * C1-202113 | * - |
| * C1-202779 | * CIoT user or small data container in CPSR message not forwarded | * ZTE, InterDigital, Huawei, HiSilicon | * agreed | * C1-202337 | * - |
| * C1-202780 | * T3540 for service request for V2X communications | * ZTE | * agreed | * C1-202333 | * - |
| * C1-202781 | * Clarification on the UE behaviour when receiving T3448 | * ZTE | * agreed | * C1-202334 | * - |
| * C1-202782 | * Clarification on the UE behaviour when receiving T3448 | * ZTE | * agreed | * C1-202335 | * - |
| * C1-202783 | * Editorial corrections | * Ericsson / Mikael | * agreed | * C1-202218 | * - |
| * C1-202784 | * Missing condition at registration reject due to no available slices | * Ericsson /kaj | * agreed | * C1-202261 | * - |
| * C1-202785 | * Clean-up | * Ericsson /Jörgen | * revised | * C1-202488 | * C1-202917 |
| * C1-202786 | * Remove USE\_TRANSPORT\_MODE in response | * ZTE / Joy | * agreed | * C1-202291 | * - |
| * C1-202787 | * Remove USE\_TRANSPORT\_MODE in response | * ZTE / Joy | * agreed | * C1-202292 | * - |
| * C1-202788 | * V2X UE registration procedure corrections | * Ericsson / Mikael | * agreed | * C1-202235 | * - |
| * C1-202789 | * V2X UE de-registration procedure corrections | * Ericsson / Mikael | * agreed | * C1-202236 | * - |
| * C1-202790 | * V2X service discovery procedure corrections | * Ericsson / Mikael | * agreed | * C1-202237 | * - |
| * C1-202791 | * V2X service continuity procedure corrections | * Ericsson / Mikael | * agreed | * C1-202238 | * - |
| * C1-202792 | * Update description on whether UE indicate supporting NSSAA | * China Telecom Corporation Ltd. | * withdrawn | * C1-202112 | * - |
| * C1-202793 | * Modification of exchanges between SOR-AF and UDM | * Orange, Ericsson / Mariusz | * agreed | * C1-202069 | * - |
| * C1-202794 | * Fix minor issues in MCData pre-etsblished session | * Samsung / Sapan | * agreed | * C1-202452 | * - |
| * C1-202795 | * Enhancement on CPSR for CIoT CP data transport | * Huawei, HiSilicon, Vodafone, ZTE, China Mobile, China Telecom, CATT/Lin | * agreed | * C1-202459 | * - |
| * C1-202796 | * Correction on WUS assistance | * Huawei, HiSilicon/Lin | * agreed | * C1-202465 | * - |
| * C1-202797 | * WUS assistance for emergency | * Huawei, HiSilicon/Lin | * agreed | * C1-202466 | * - |
| * C1-202798 | * Retry restriction for NB-IoT UEs due to out of tariff package | * Huawei, HiSilicon/Lin | * agreed | * C1-202468 | * - |
| * C1-202799 | * Non-3GPP access for PLMN and SNPN | * Huawei, HiSilicon/Lin | * agreed | * C1-202469 | * - |
| * C1-202800 | * Inclusion of pending S-NSSAI(s) in the requested NSSAI | * Huawei, HiSilicon, China Telecom/Lin | * revised | * C1-202473 | * C1-202871 |
| * C1-202801 | * Corrections on the abnormal cases of registration procedure for initial registration | * Huawei, HiSilicon/Lin | * agreed | * C1-202476 | * - |
| * C1-202802 | * Single-registration mode without N26 | * Huawei, HiSilicon/Lin | * agreed | * C1-202478 | * - |
| * C1-202803 | * Single-registration mode without N26 | * Huawei, HiSilicon/Lin | * agreed | * C1-202479 | * - |
| * C1-202804 | * Correction on retry restriction for ESM#66 | * Huawei, HiSilicon/Lin | * agreed | * C1-202484 | * - |
| * C1-202805 | * Service reject for emergency EPS fallback | * Huawei, HiSilicon/Lin | * postponed | * C1-202592 | * - |
| * C1-202806 | * Handling of mapped EPS bearer contexts | * Huawei, HiSilicon/Lin | * agreed | * C1-202593 | * - |
| * C1-202807 | * Integrity check interworking in 5GMM-CONNECTED mode | * Huawei, HiSilicon/Lin | * agreed | * C1-202594 | * - |
| * C1-202808 | * Correction on LADN DNN based congestion control | * Huawei, HiSilicon/Lin | * agreed | * C1-202595 | * - |
| * C1-202809 | * Removal of Editor’s notes | * Samsung / Sapan | * agreed | * C1-202448 | * - |
| * C1-202810 | * Removal of Editor’s notes. | * Samsung / Sapan | * agreed | * C1-202451 | * - |
| * C1-202811 | * Additional condition to start T3540 | * Samsung/Anikethan | * revised | * C1-202141 | * C1-202890 |
| * C1-202812 | * Restricting handling of cause #9 to the access on which it was received | * Samsung/Anikethan | * agreed | * C1-202149 | * - |
| * C1-202813 | * S-NSSAI in rejected NSSAI for the failed or revoked NSSAA not to be requested | * Ericsson /kaj | * agreed | * C1-202247 | * - |
| * C1-202814 | * handling of ePWS message | * Samsung/ Kyungjoo Grace Suh | * agreed | * C1-202563 | * - |
| * C1-202815 | * Specify UE behaviour for NOTIFICATION message for additional state/sub-states | * Samsung/Anikethan | * agreed | * C1-202145 | * - |
| * C1-202816 | * Handlings of MA PDU session when deregistration from an access | * MediaTek Inc. / JJ | * agreed | * C1-202531 | * - |
| * C1-202817 | * Restrictions of providing video announcement | * China Telecom,Huawei,China Unicom,HiSilicon / Michelle | * agreed | * C1-202356 | * - |
| * C1-202818 | * Considering allowed NSSAI when requesting MA PDU session upgrade | * MediaTek Inc. / JJ | * agreed | * C1-202532 | * - |
| * C1-202819 | * LS on limiting the number of simultaneous logins of an MCX user | * Nokia, Nokia Shanghai Bell | * approved | * - | * - |
| * C1-202820 | * Unsupported 5QI values | * MediaTek Inc. / JJ | * agreed | * C1-202537 | * - |
| * C1-202821 | * Addition of 5GSM cause #59 | * MediaTek Inc. / JJ | * agreed | * C1-202538 | * - |
| * C1-202822 | * New AT command for linking packet filters +CGLNKPF | * MediaTek Inc. / JJ | * agreed | * C1-202539 | * - |
| * C1-202823 | * New AT command for deleting packet filters +CGDELPF | * MediaTek Inc. / JJ | * agreed | * C1-202540 | * - |
| * C1-202824 | * Error handling of precedence value conflict | * MediaTek Inc. / JJ | * agreed | * C1-202542 | * - |
| * C1-202825 | * Alignment of UE actions of rejected NSSAI for the failed or revoked NSSAA | * Ericsson /kaj | * agreed | * C1-202248 | * - |
| * C1-202826 | * LS on selected EPS NAS algorithms for unauthenticated emergency sessions in 5GS | * BEIJING SAMSUNG TELECOM R&D | * approved | * - | * - |
| * C1-202827 | * Exception to initiate the service request procedure during NSSAA when there is no allowed NSSAI | * BEIJING SAMSUNG TELECOM R&D | * agreed | * C1-202257 | * - |
| * C1-202828 | * Updates to Token Exchange Client (SIM-C) procedure | * Intel / Vivek | * agreed | * C1-202139 | * - |
| * C1-202829 | * Updates to Token Exchange Server (SIM-S) procedure | * Intel / Vivek | * agreed | * C1-202140 | * - |
| * C1-202830 | * Allow lower layer to change RRC establishment cause during voice EPS fallback | * Qualcomm Incorporated, Ericsson | * postponed | * C1-202269 | * - |
| * C1-202831 | * Correct N3AN node selection due to LI | * BlackBerry Uk Ltd. | * postponed | * C1-202672 | * - |
| * C1-202832 | * Correct N3AN node selection due to LI | * BlackBerry Uk Ltd. | * postponed | * C1-202673 | * - |
| * C1-202833 | * NSSAA in an SNPN | * Nokia, Nokia Shanghai Bell | * agreed | * C1-202374 | * - |
| * C1-202834 | * Authorisation validation for first-to-answer call origination requesting user using pre-established session | * Samsung | * agreed | * C1-202655 | * - |
| * C1-202835 | * Corrections to file upload-download procedure as per stage 2 architecture changes | * Samsung | * agreed | * C1-202654 | * - |
| * C1-202836 | * Non-integrity protected REGISTRATION REJECT message including 5GMM cause #31 or #76 | * Nokia, Nokia Shanghai Bell | * agreed | * C1-202373 | * - |
| * C1-202837 | * SRVCC from E-UTRAN to GERAN/UTRAN when IMS voice call is initiated in 5GS | * Ericsson, Qualcomm Incorporated / Ivo | * agreed | * C1-202133 | * - |
| * C1-202838 | * Additional transport over Uu for V2X messages of V2X services identified by V2X service identifiers | * Ericsson / Ivo | * agreed | * C1-202010 | * - |
| * C1-202839 | * Configuration parameters for additional transport over Uu for V2X messages of V2X services identified by V2X service identifiers | * Ericsson / Ivo | * agreed | * C1-202011 | * - |
| * C1-202840 | * Providing configured human readable name for CAG-ID | * Ericsson / Ivo | * agreed | * C1-202015 | * - |
| * C1-202841 | * Configured human readable name for SNPN in SNPN selection | * Ericsson / Ivo | * merged | * C1-202013 | * - |
| * C1-202842 | * Correction on conditions to initiate a PC5 unciast link establishment procedure | * Huawei, HiSilicon / Vishnu | * agreed | * C1-202457 | * - |
| * C1-202843 | * No available S-NSSAIs and emergency PDU session at handover | * Ericsson /kaj | * postponed | * C1-202255 | * - |
| * C1-202844 | * Packet filter for PC5 QoS flows | * Huawei, HiSilicon / Vishnu | * agreed | * C1-202485 | * - |
| * C1-202845 | * Handling of HRNN information in a CAG cell | * Huawei, HiSilicon / Vishnu | * agreed | * C1-202256 | * - |
| * C1-202846 | * Reply LS on Manual CAG ID selection and granularity of UAC parameters for PNI-NPNs | * Huawei, HiSilicon / Vishnu | * approved | * C1-202240 | * - |
| * C1-202847 | * LS on the requirement that non-3GPP access node selection information includes an "any PLMN" entry | * BlackBerry UK Limited | * revised | * C1-202665 | * C1-202925 |
| * C1-202848 | * Maximum number of NR PC5 unicast links for a UE | * Huawei, HiSilicon / Vishnu | * revised | * C1-202427 | * C1-202919 |
| * C1-202849 | * LS on PDU session release for UE in RRC INACTIVE state with NG-RAN paging failure | * Nokia Shanghai Bell | * postponed | * - | * - |
| * C1-202850 | * TA change during Authentication procedure in EMM-CONNECTED mode | * Apple | * postponed | * C1-202263 | * - |
| * C1-202851 | * TA change during Authentication procedure in 5GMM-CONNECTED mode | * Apple | * postponed | * C1-202264 | * - |
| * C1-202852 | * MICO in an SNPN | * Nokia, Nokia Shanghai Bell | * agreed | * C1-202410 | * - |
| * C1-202853 | * NB-IoT not applicable for SNPN | * Nokia, Nokia Shanghai Bell | * agreed | * C1-202401 | * - |
| * C1-202854 | * UE in the 5GMM-REGISTERED.ATTEMPTING-REGISTRATION-UPDATE substate operating in SNPN access mode | * Nokia, Nokia Shanghai Bell | * agreed | * C1-202413 | * - |
| * C1-202855 | * Human readable network name for SNPN | * Nokia, Nokia Shanghai Bell | * agreed | * C1-202407 | * - |
| * C1-202856 | * Routing indicator update in an SNPN | * Nokia, Nokia Shanghai Bell | * agreed | * C1-202414 | * - |
| * C1-202857 | * 3GPP PS data off in an SNPN | * Nokia, Nokia Shanghai Bell | * agreed | * C1-202415 | * - |
| * C1-202858 | * Initial registration for initiating emergency PDU session | * Huawei, HiSilicon / Cristina | * revised | * C1-202348 | * C1-202893 |
| * C1-202859 | * Management of forbidden SNPNs list upon receipt of a non-integrity protected reject message | * Nokia, Nokia Shanghai Bell | * agreed | * C1-202086 | * - |
| * C1-202860 | * TSN working domain | * Nokia, Nokia Shanghai Bell | * agreed | * C1-202433 | * - |
| * C1-202861 | * Missing QoS flow description parameters for GBR QoS flows in 5GSM and ESM coordination | * Huawei, HiSilicon / Cristina | * postponed | * C1-202651 | * - |
| * C1-202862 | * Manual CAG selection | * Nokia, Nokia Shanghai Bel | * agreed | * C1-202398 | * - |
| * C1-202863 | * Use preconditions for CRS when terminating UE supports precondition | * Huawei,China Telecom,China Unicom,HiSilicon /Hongxia | * agreed | * C1-202605 | * - |
| * C1-202864 | * DRX parameters for NB-IoT | * InterDigital Communications | * withdrawn | * C1-202671 | * - |
| * C1-202865 | * DRX parameters for NB-IoT | * InterDigital Communications | * revised | * C1-202671 | * C1-202926 |
| * C1-202866 | * PDU session release due to CP only revocation | * OPPO / Rae | * agreed | * C1-202707 | * - |
| * C1-202867 | * Remove FFS on GFBR and MFBR for UL and DL | * OPPO / Rae | * agreed | * C1-202703 | * - |
| * C1-202868 | * Correcting order in which connections/sessions are transferred if there is an emergency call | * BlackBerry Uk Ltd. | * agreed | * C1-202670 | * - |
| * C1-202869 | * 5GMM cause value #13 not supporting roaming for SNPN | * vivo | * agreed | * C1-202712 | * - |
| * C1-202870 | * Defining new parameters needed for the Link Identifier Update procedure | * InterDigital Communications | * revised | * C1-202596 | * C1-202930 |
| * C1-202871 | * Clarification on handling of pending NSSAI | * Huawei, HiSilicon, China Telecom/Lin | * agreed | * C1-202800 | * - |
| * C1-202872 | * Update description on whether UE indicate supporting NSSAA | * China Telecom Corporation Ltd. | * agreed | * C1-202112 | * - |
| * C1-202873 | * Clarification on use of operator-defined access categories | * Qualcomm Incorporated, Ericsson, Nokia, Nokia Shanghai Bell / Lena | * agreed | * C1-202100 | * - |
| * C1-202874 | * Additional QoS error handling related to mapped EBI | * Qualcomm Incorporated / Lena | * agreed | * C1-202285 | * - |
| * C1-202875 | * PC5 unicast link security establishment | * Qualcomm Incorporated / Lena | * agreed | * C1-202104 | * - |
| * C1-202876 | * PC5 unicast link re-keying procedure | * Qualcomm Incorporated / Lena | * agreed | * C1-202107 | * - |
| * C1-202877 | * Adding general subclause on security of PC5 signalling messages | * Qualcomm Incorporated / Lena | * agreed | * C1-202108 | * - |
| * C1-202878 | * Initial APN rate control parameters | * Qualcomm Incorporated / Amer | * agreed | * C1-202422 | * - |
| * C1-202879 | * Clarify UE behaviour for reject cause #9 and #10 received when attached for RLOS | * Samsung/Anikethan | * agreed | * C1-202147 | * - |
| * C1-202880 | * Signalling of EPS APN rate control parameters during PDU session establishment | * Qualcomm Incorporated / Amer | * agreed | * C1-202423 | * - |
| * C1-202881 | * Handling of Pending S-NSSAI | * Samsung/Kundan | * agreed | * C1-202385 | * - |
| * C1-202882 | * Ethernet header compression for CP CIoT – 5GMM aspects | * Qualcomm Incorporated / Amer | * agreed | * C1-202425 | * - |
| * C1-202883 | * IPConnectivity extension to include IP Information | * Kontron Transportation France | * agreed | * C1-202496 | * - |
| * C1-202884 | * IPConnectivity extension to include IP Information | * Kontron Transportation France | * agreed | * C1-202497 | * - |
| * C1-202885 | * IPConnectivity extension to include IP Information | * Kontron Transportation France | * agreed | * C1-202498 | * - |
| * C1-202886 | * Provision of CAG information list in reject messages | * Huawei, HiSilicon, InterDigital, Samsung, Ericsson | * agreed | * C1-202253 | * - |
| * C1-202887 | * Correction on rendering local tones | * Ericsson, Deutsche Telekom /Jörgen | * postponed | * C1-202500 | * - |
| * C1-202888 | * Ethernet header compression for CP CIoT – 5GSM aspects | * Qualcomm Incorporated / Amer | * postponed | * C1-202426 | * - |
| * C1-202889 | * Handling of allowed NSSAI when the RA includes the TAI belonging to EPLMN | * SHARP | * agreed | * C1-202524 | * - |
| * C1-202890 | * Additional condition to start T3540 | * Samsung/Anikethan | * agreed | * C1-202811 | * - |
| * C1-202891 | * Use preconditions for CAT when originating UE supports precondition | * Huawei,China Telecom,China Unicom,HiSilicon /Hongxia | * agreed | * C1-202604 | * - |
| * C1-202892 | * Generic UE configuration update trigger for registration and EC Restriction change | * Ericsson / Mikael | * agreed | * C1-202230 | * - |
| * C1-202893 | * Initial registration for initiating emergency PDU session | * Huawei, HiSilicon / Cristina | * agreed | * C1-202858 | * - |
| * C1-202894 | * storage of counters for UE in SNPN | * vivo | * withdrawn | * C1-202711 | * - |
| * C1-202895 | * storage of counters for UE in SNPN | * vivo | * agreed | * C1-202711 | * - |
| * C1-202896 | * Correction of the handling of timer TG for SNPNs | * Apple | * postponed | * C1-202130 | * - |
| * C1-202897 | * storage of counters for UE in PLMN | * vivo | * agreed | * C1-202713 | * - |
| * C1-202898 | * ENs resolving in modification pocedure | * vivo | * withdrawn | * C1-202740 | * - |
| * C1-202899 | * Handling of PC5 broadcast QoS flow match and establishment | * vivo | * withdrawn | * C1-202746 | * - |
| * C1-202900 | * Handling of PC5 broadcast QoS flow match and establishment | * vivo | * withdrawn | * C1-202746 | * - |
| * C1-202901 | * Enable N3IWF to initiate TCP connection establishment upon failure | * Nokia, Nokia Shanghai Bell | * agreed | * C1-202580 | * - |
| * C1-202902 | * Adding the parameter "access technology" as input to SOR-AF” | * DOCOMO Communications Lab. | * postponed | * C1-202152 | * - |
| * C1-202903 | * Extending congestion notification to capture N3IWF or TNGF overload | * Nokia, Nokia Shanghai Bell, Charter Communications | * agreed | * C1-202579 | * - |
| * C1-202904 | * Indication of change in the use of enhanced coverage | * Samsung, InterDigital, Huawei, HiSilicon | * agreed | * C1-202648 | * - |
| * C1-202905 | * Resolution of called functional alias in first-to-answer calls | * Nokia, Nokia Shanghai Bell | * postponed | * C1-202568 | * - |
| * C1-202906 | * Clarification for the use of enhanced coverage in EPS | * Samsung, Huawei, HiSilicon, InterDigital | * agreed | * C1-202645 | * - |
| * C1-202907 | * Extending congestion notification to capture ePDG overload | * Nokia, Nokia Shanghai Bell, Charter Communications | * agreed | * C1-202578 | * - |
| * C1-202908 | * Handling of link establishment accept | * vivo | * agreed | * C1-202738 | * - |
| * C1-202909 | * ENs resolving in modification pocedure | * vivo | * revised | * C1-202740 | * C1-202913 |
| * C1-202910 | * Handling of PC5 broadcast QoS flow match and establishment | * vivo | * revised | * C1-202746 | * C1-202914 |
| * C1-202911 | * LS on 3GPP based access authentication for untrusted non-3GPP access to 5GCN | * Ericsson / Ivo | * postponed | * C1-202487 | * - |
| * C1-202912 | * Selected CAG-ID from the NAS layer to the AS layer | * Nokia, Nokia Shanghai Bell, vivo, Qualcomm Incorporated, Samsung, Huawei, HiSilicon | * agreed | * C1-202397 | * - |
| * C1-202913 | * ENs resolving in modification pocedure | * vivo | * agreed | * C1-202909 | * - |
| * C1-202914 | * Handling of PC5 broadcast QoS flow match and establishment | * vivo | * agreed | * C1-202910 | * - |
| * C1-202915 | * 5GSM back-off mechanisms in an SNPN | * Nokia, Nokia Shanghai Bell | * agreed | * C1-202412 | * - |
| * C1-202916 | * LS on Concurrent Broadcasting for CMAS | * Ericsson / Mikael | * approved | * C1-202232 | * - |
| * C1-202917 | * Clean-up | * Ericsson /Jörgen | * agreed | * C1-202785 | * - |
| * C1-202918 | * Network-requested PDU session release due to failed or revoked NSSAA | * Motorola Mobility, Lenovo | * postponed | * C1-202618 | * - |
| * C1-202919 | * Maximum number of NR PC5 unicast links for a UE | * Huawei, HiSilicon / Vishnu | * agreed | * C1-202848 | * - |
| * C1-202920 | * Service area restrictions in an SNPN | * Nokia, Nokia Shanghai Bell, Ericsson | * agreed | * C1-202664 | * - |
| * C1-202921 | * Notification over non-3GPP access when UE is deregistered over 3GPP access | * Ericsson /kaj | * postponed | * C1-202244 | * - |
| * C1-202922 | * Introduction of SNPN-specific N1 mode attempt counters | * Nokia, Nokia Shanghai Bell, Apple | * postponed | * C1-202402 | * - |
| * C1-202923 | * Miscellaneous clean-up for SNPN | * Nokia, Nokia Shanghai Bell | * agreed | * C1-202408 | * - |
| * C1-202924 | * CAG selection is optional in the manual network selection mode | * Nokia, Nokia Shanghai Bell | * agreed | * C1-202405 | * - |
| * C1-202925 | * LS on the requirement that non-3GPP access node selection information includes an "any PLMN" entry | * BlackBerry UK Limited | * postponed | * C1-202847 | * - |
| * C1-202926 | * DRX parameters for NB-IoT | * InterDigital Communications | * agreed | * C1-202865 | * - |
| * C1-202927 | * LS on manual CAG selection | * Nokia, Nokia Shanghai Bell | * approved | * C1-202400 | * - |
| * C1-202928 | * Indication that the emergency services fallback attempt failed | * Nokia, Nokia Shanghai Bell | * agreed | * C1-202382 | * - |
| * C1-202929 | * Inclusion of ATTACH REQUEST message in REGISTRATION REQUEST message during initial registration when 5G-GUTI mapped from 4G-GUTI is used | * Nokia, Nokia Shanghai Bell, Ericsson, Qualcomm Incorporated | * agreed | * C1-202390 | * - |
| * C1-202930 | * Defining new parameters needed for the Link Identifier Update procedure | * InterDigital Communications | * agreed | * C1-202870 | * - |
| * C1-202931 | * Attach request message for N1 mode | * Nokia, Nokia Shanghai Bell, Ericsson | * agreed | * C1-202391 | * - |
| * C1-202932 | * Paging with two valid 5G-GUTIs | * Nokia, Nokia Shanghai Bell | * agreed | * C1-202392 | * - |
| * C1-202933 | * PAP/CHAP and other point-to-point protocols usage in 5GS | * Qualcomm Incorporated | * approved | * C1-202667 | * - |

## Annex B: List of change requests

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Spec | CR | Rev | Rel | Cat | WI | Decision |
| * C1-202073 | * Removal of Duplicate Service Operation Details | * one2many | * 23.041 | * 0207 | * 1 | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202623 | * Removal of Duplicate Service Operation Details | * one2many | * 23.041 | * 0207 | * 2 | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202074 | * Correction to figure | * one2many B.V. | * 23.041 | * 0212 | * - | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202075 | * Corrections to references | * one2many B.V. | * 23.041 | * 0213 | * - | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202076 | * Subscription management in PWS-IWF | * one2many B.V. | * 23.041 | * 0214 | * - | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202599 | * Subscription management in PWS-IWF | * one2many B.V. | * 23.041 | * 0214 | * 1 | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202203 | * Addition of Test Flag | * one2many B.V. | * 23.041 | * 0215 | * - | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202600 | * Addition of Test Flag | * one2many B.V. | * 23.041 | * 0215 | * 1 | * Rel-16 | * F | * 5GProtoc16 | * postponed |
| * C1-202561 | * handling of ePWS message | * Samsung/ Kyungjoo Grace Suh | * 23.041 | * 0216 | * - | * Rel-15 | * F | * ePWS | * not pursued |
| * C1-202563 | * handling of ePWS message | * Samsung/ Kyungjoo Grace Suh | * 23.041 | * 0217 | * - | * Rel-16 | * A | * ePWS | * revised |
| * C1-202814 | * handling of ePWS message | * Samsung/ Kyungjoo Grace Suh | * 23.041 | * 0217 | * 1 | * Rel-16 | * F | * TEI16 | * agreed |
| * C1-202017 | * Correction for SoR-AF | * Ericsson / Ivo | * 23.122 | * 0481 | * 5 | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202398 | * Manual CAG selection | * Nokia, Nokia Shanghai Bel | * 23.122 | * 0499 | * 5 | * Rel-16 | * C | * Vertical\_LAN | * revised |
| * C1-202862 | * Manual CAG selection | * Nokia, Nokia Shanghai Bel | * 23.122 | * 0499 | * 6 | * Rel-16 | * C | * Vertical\_LAN | * agreed |
| * C1-202016 | * Manual CAG selection | * Ericsson / Ivo | * 23.122 | * 0501 | * 1 | * Rel-16 | * C | * Vertical\_LAN | * withdrawn |
| * C1-202013 | * Configured human readable name for SNPN in SNPN selection | * Ericsson / Ivo | * 23.122 | * 0505 | * - | * Rel-16 | * C | * Vertical\_LAN | * revised |
| * C1-202841 | * Configured human readable name for SNPN in SNPN selection | * Ericsson / Ivo | * 23.122 | * 0505 | * 1 | * Rel-16 | * C | * Vertical\_LAN | * merged |
| * C1-202014 | * Configured human readable name for CAG-ID in CAG selection | * Ericsson / Ivo | * 23.122 | * 0506 | * - | * Rel-16 | * C | * Vertical\_LAN | * merged |
| * C1-202020 | * Configured N3IWF identity for SNPN access via PLMN | * Ericsson / Ivo | * 23.122 | * 0507 | * - | * Rel-16 | * C | * Vertical\_LAN | * withdrawn |
| * C1-202068 | * SoR in HPLMN after registration | * Orange, Ericsson / Mariusz | * 23.122 | * 0508 | * - | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202069 | * Modification of exchanges between SOR-AF and UDM | * Orange, Ericsson / Mariusz | * 23.122 | * 0509 | * - | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202793 | * Modification of exchanges between SOR-AF and UDM | * Orange, Ericsson / Mariusz | * 23.122 | * 0509 | * 1 | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202070 | * OTAF renamed to SP-AF | * Orange / Mariusz | * 23.122 | * 0510 | * - | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202607 | * OTAF renamed to SP-AF | * Orange, Ericsson | * 23.122 | * 0510 | * 1 | * Rel-16 | * F | * 5GS\_OTAF | * agreed |
| * C1-202086 | * Management of forbidden SNPNs list upon receipt of a non-integrity protected reject message | * Nokia, Nokia Shanghai Bell | * 23.122 | * 0511 | * - | * Rel-16 | * C | * Vertical\_LAN | * revised |
| * C1-202859 | * Management of forbidden SNPNs list upon receipt of a non-integrity protected reject message | * Nokia, Nokia Shanghai Bell | * 23.122 | * 0511 | * 1 | * Rel-16 | * C | * Vertical\_LAN | * agreed |
| * C1-202091 | * CAG information list provided to lower layers after manual CAG selection | * Ericsson / Ivo | * 23.122 | * 0512 | * - | * Rel-16 | * F | * Vertical\_LAN | * withdrawn |
| * C1-202128 | * Correction of the handling of timer TG | * Apple, Qualcomm Incorporated, T-Mobile USA | * 23.122 | * 0513 | * - | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202130 | * Correction of the handling of timer TG for SNPNs | * Apple | * 23.122 | * 0514 | * - | * Rel-16 | * F | * Vertical\_LAN | * revised |
| * C1-202896 | * Correction of the handling of timer TG for SNPNs | * Apple | * 23.122 | * 0514 | * 1 | * Rel-16 | * F | * Vertical\_LAN | * postponed |
| * C1-202152 | * Correcting the parameter "RAT type" for SOR-AF | * DOCOMO Communications Lab. | * 23.122 | * 0515 | * - | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202902 | * Adding the parameter "access technology" as input to SOR-AF” | * DOCOMO Communications Lab. | * 23.122 | * 0515 | * 1 | * Rel-16 | * F | * 5GProtoc16 | * postponed |
| * C1-202153 | * Correcting the case when the AMF does not need to provide SOR-info to the UE | * DOCOMO Communications Lab. | * 23.122 | * 0516 | * - | * Rel-16 | * F | * 5GProtoc16 | * postponed |
| * C1-202179 | * Correction on no suitable cell | * vivo | * 23.122 | * 0517 | * - | * Rel-16 | * F | * Vertical\_LAN | * revised |
| * C1-202737 | * Correction on no suitable cell | * vivo | * 23.122 | * 0517 | * 1 | * Rel-16 | * F | * Vertical\_LAN | * agreed |
| * C1-202256 | * Handling of HRNN information in a CAG cell | * Huawei, HiSilicon / Vishnu | * 23.122 | * 0518 | * - | * Rel-16 | * C | * Vertical\_LAN | * revised |
| * C1-202845 | * Handling of HRNN information in a CAG cell | * Huawei, HiSilicon / Vishnu | * 23.122 | * 0518 | * 1 | * Rel-16 | * C | * Vertical\_LAN | * agreed |
| * C1-202258 | * Indication to user about allowed CAG IDs for manual CAG selection | * Huawei, HiSilicon / Vishnu | * 23.122 | * 0519 | * - | * Rel-16 | * C | * Vertical\_LAN | * merged |
| * C1-202355 | * Clarification to Manual CAG selection procedure | * Samsung/Kundan | * 23.122 | * 0520 | * - | * Rel-16 | * F | * Vertical\_LAN | * postponed |
| * C1-202358 | * Support for eCall over IMS over NR | * Huawei, HiSilicon / Cristina | * 23.122 | * 0521 | * - | * Rel-16 | * F | * 5GProtoc16 | * postponed |
| * C1-202363 | * Sending CAG information list | * Samsun/Kundan | * 23.122 | * 0522 | * - | * Rel-16 | * F | * Vertical\_LAN | * postponed |
| * C1-202370 | * Configuring UE to enable manual CAG selection procedure (23.122) | * Samsung/Kundan | * 23.122 | * 0523 | * - | * Rel-16 | * F | * Vertical\_LAN | * postponed |
| * C1-202393 | * figures 1, 2a, 2b, 3 and table 2 not applicable in SNPN | * Intel /Thomas | * 23.122 | * 0524 | * - | * Rel-16 | * F | * Vertical\_LAN | * agreed |
| * C1-202397 | * Selected CAG-ID from the NAS layer to the AS layer | * Nokia, Nokia Shanghai Bell, vivo, Qualcomm Incorporated, Samsung, Huawei, HiSilicon | * 23.122 | * 0525 | * - | * Rel-16 | * C | * Vertical\_LAN | * revised |
| * C1-202912 | * Selected CAG-ID from the NAS layer to the AS layer | * Nokia, Nokia Shanghai Bell, vivo, Qualcomm Incorporated, Samsung, Huawei, HiSilicon | * 23.122 | * 0525 | * 1 | * Rel-16 | * C | * Vertical\_LAN | * agreed |
| * C1-202405 | * CAG selection is optional in the manual network selection mode | * Nokia, Nokia Shanghai Bell | * 23.122 | * 0526 | * - | * Rel-16 | * F | * Vertical\_LAN | * revised |
| * C1-202924 | * CAG selection is optional in the manual network selection mode | * Nokia, Nokia Shanghai Bell | * 23.122 | * 0526 | * 1 | * Rel-16 | * F | * Vertical\_LAN | * agreed |
| * C1-202407 | * Human readable network name for SNPN | * Nokia, Nokia Shanghai Bell | * 23.122 | * 0527 | * - | * Rel-16 | * F | * Vertical\_LAN | * revised |
| * C1-202855 | * Human readable network name for SNPN | * Nokia, Nokia Shanghai Bell | * 23.122 | * 0527 | * 1 | * Rel-16 | * F | * Vertical\_LAN | * agreed |
| * C1-202432 | * correction to network selection in case of multiple subscribed SNPNs | * Intel /Thomas | * 23.122 | * 0528 | * - | * Rel-16 | * F | * Vertical\_LAN | * revised |
| * C1-202625 | * correction to network selection in case of multiple subscribed SNPNs | * Intel /Thomas | * 23.122 | * 0528 | * 1 | * Rel-16 | * F | * Vertical\_LAN | * withdrawn |
| * C1-202777 | * correction to network selection in case of multiple subscribed SNPNs | * Intel, Ericsson | * 23.122 | * 0528 | * 2 | * Rel-16 | * F | * Vertical\_LAN | * agreed |
| * C1-202495 | * Correction to Manual CAG selection procedure | * Samsung/Kundan | * 23.122 | * 0529 | * - | * Rel-16 | * F | * Vertical\_LAN | * agreed |
| * C1-202094 | * Introduce support for 5G SRVCC support indication when registering with EPS | * BlackBerry Uk Ltd. | * 24.008 | * 3213 | * - | * Rel-16 | * F | * 5G\_SRVCC | * withdrawn |
| * C1-202273 | * Remove invalid cases in error handling for TFT operation | * Qualcomm Incorporated | * 24.008 | * 3214 | * - | * Rel-16 | * F | * TEI16 | * agreed |
| * C1-202276 | * Clarify PAP/CHAP usage in PCO for 5GS | * Qualcomm Incorporated | * 24.008 | * 3215 | * - | * Rel-16 | * F | * 5GProtoc16 | * postponed |
| * C1-202422 | * Initial APN rate control parameters | * Qualcomm Incorporated / Amer | * 24.008 | * 3216 | * - | * Rel-16 | * B | * 5G\_CIoT | * revised |
| * C1-202878 | * Initial APN rate control parameters | * Qualcomm Incorporated / Amer | * 24.008 | * 3216 | * 1 | * Rel-16 | * B | * 5G\_CIoT | * agreed |
| * C1-202512 | * Correction to Handling of T3321 timer | * MediaTek Inc. / Marko | * 24.008 | * 3217 | * - | * Rel-16 | * F | * TEI16 | * agreed |
| * C1-202148 | * SMS timer extension for the MS using CP CIoT 5GS optimization | * NTT DOCOMO | * 24.011 | * 0066 | * - | * Rel-16 | * F | * TEI16, 5G\_CIoT | * agreed |
| * C1-202217 | * RPDU transfer for 5GS using Control Plane CIoT Optimization | * NTT DOCOMO INC. | * 24.011 | * 0067 | * - | * Rel-16 | * F | * TEI16, 5G\_CIoT | * revised |
| * C1-202700 | * RPDU transfer for 5GS using Control Plane CIoT Optimization | * NTT DOCOMO INC. | * 24.011 | * 0067 | * 1 | * Rel-16 | * F | * TEI16, 5G\_CIoT | * agreed |
| * C1-202494 | * Text for empty headings | * Ericsson /Jörgen | * 24.174 | * 0001 | * - | * Rel-16 | * F | * MuD | * agreed |
| * C1-202586 | * Reference update for PASSporT Extension for Diverted Calls | * Orange / Mariusz | * 24.174 | * 0002 | * - | * Rel-16 | * F | * MuD | * agreed |
| * C1-202155 | * Use preconditions for CAT when originating UE supports precondition | * Huawei,China Telecom,China Unicom,HiSilicon /Hongxia | * 24.182 | * 0119 | * - | * Rel-16 | * B | * eIMSVideo | * revised |
| * C1-202604 | * Use preconditions for CAT when originating UE supports precondition | * Huawei,China Telecom,China Unicom,HiSilicon /Hongxia | * 24.182 | * 0119 | * 1 | * Rel-16 | * B | * eIMSVideo | * revised |
| * C1-202891 | * Use preconditions for CAT when originating UE supports precondition | * Huawei,China Telecom,China Unicom,HiSilicon /Hongxia | * 24.182 | * 0119 | * 2 | * Rel-16 | * B | * eIMSVideo | * agreed |
| * C1-202072 | * Correction in CRS interactions with CDIV | * Orange / Mariusz | * 24.183 | * 0062 | * - | * Rel-16 | * F | * TEI16 | * agreed |
| * C1-202156 | * Use preconditions for CRS when terminating UE supports precondition | * Huawei,China Telecom,China Unicom,HiSilicon /Hongxia | * 24.183 | * 0063 | * - | * Rel-16 | * B | * eIMSVideo | * revised |
| * C1-202605 | * Use preconditions for CRS when terminating UE supports precondition | * Huawei,China Telecom,China Unicom,HiSilicon /Hongxia | * 24.183 | * 0063 | * 1 | * Rel-16 | * B | * eIMSVideo | * revised |
| * C1-202863 | * Use preconditions for CRS when terminating UE supports precondition | * Huawei,China Telecom,China Unicom,HiSilicon /Hongxia | * 24.183 | * 0063 | * 2 | * Rel-16 | * B | * eIMSVideo | * agreed |
| * C1-202488 | * Clean-up | * Ericsson /Jörgen | * 24.183 | * 0064 | * - | * Rel-16 | * F | * TEI16 | * revised |
| * C1-202785 | * Clean-up | * Ericsson /Jörgen | * 24.183 | * 0064 | * 1 | * Rel-16 | * F | * TEI16 | * revised |
| * C1-202917 | * Clean-up | * Ericsson /Jörgen | * 24.183 | * 0064 | * 2 | * Rel-16 | * F | * TEI16 | * agreed |
| * C1-202090 | * Correction in IMS\_Registration\_handling policy about how UE should deregister | * MediaTek Inc. | * 24.229 | * 6404 | * 6 | * Rel-16 | * F | * TEI16 | * revised |
| * C1-202590 | * Correction in IMS\_Registration\_handling policy about how UE should deregister | * MediaTek Inc. | * 24.229 | * 6404 | * 7 | * Rel-16 | * F | * TEI16 | * revised |
| * C1-202759 | * Correction in IMS\_Registration\_handling policy about how UE should deregister | * MediaTek Inc. | * 24.229 | * 6404 | * 8 | * Rel-16 | * F | * TEI16 | * agreed |
| * C1-202066 | * No impact from SBA on main body | * Nokia, Nokia Shanghai Bell, Ericsson | * 24.229 | * 6408 | * 1 | * Rel-16 | * F | * eIMS5G\_SBA | * agreed |
| * C1-202219 | * UAC for MO-IMS registration related signalling EN resolution | * NTT DOCOMO INC. | * 24.229 | * 6413 | * 1 | * Rel-16 | * F | * IMSProtoc16, 5GProtoc16 | * agreed |
| * C1-202081 | * NG eCall support over NR connected to the 5GC | * Qualcomm Incorporated | * 24.229 | * 6414 | * - | * Rel-16 | * C | * TEI16 | * agreed |
| * C1-202167 | * Adding the definition and criteria for availability of IMS Data Services | * MediaTek Inc., Apple | * 24.229 | * 6415 | * - | * Rel-16 | * B | * IMSProtoc16 | * postponed |
| * C1-202584 | * Reference update for PASSporT Extension for Diverted Calls | * Orange / Mariusz | * 24.229 | * 6416 | * - | * Rel-15 | * F | * eSPECTRE | * agreed |
| * C1-202585 | * Reference update for PASSporT Extension for Diverted Calls | * Orange / Mariusz | * 24.229 | * 6417 | * - | * Rel-16 | * A | * eSPECTRE | * agreed |
| * C1-202133 | * SRVCC from E-UTRAN to GERAN/UTRAN when IMS voice call is initiated in 5GS | * Ericsson, Qualcomm Incorporated / Ivo | * 24.237 | * 1298 | * 2 | * Rel-16 | * F | * TEI16 | * revised |
| * C1-202837 | * SRVCC from E-UTRAN to GERAN/UTRAN when IMS voice call is initiated in 5GS | * Ericsson, Qualcomm Incorporated / Ivo | * 24.237 | * 1298 | * 3 | * Rel-16 | * F | * TEI16 | * agreed |
| * C1-202099 | * Support scenario where the SCC AS sends a request to the HSS to retrieve the SRVCC data for the UE | * BlackBerry UK Ltd. | * 24.237 | * 1299 | * - | * Rel-16 | * B | * eIMS5G\_SBA | * revised |
| * C1-202675 | * Support scenario where the SCC AS sends a request to the HSS to retrieve the SRVCC data for the UE | * BlackBerry UK Ltd. | * 24.237 | * 1299 | * 1 | * Rel-16 | * B | * eIMS5G\_SBA | * merged |
| * C1-202023 | * Deposit an object | * AT&T, Samsung | * 24.282 | * 0118 | * - | * Rel-16 | * B | * eMCData2 | * revised |
| * C1-202637 | * Deposit an object | * AT&T, Samsung | * 24.282 | * 0118 | * 1 | * Rel-16 | * B | * eMCData2 | * agreed |
| * C1-202024 | * Create a subscription to notifications | * AT&T | * 24.282 | * 0119 | * - | * Rel-16 | * B | * eMCData2 | * revised |
| * C1-202640 | * Create a subscription to notifications | * AT&T | * 24.282 | * 0119 | * 1 | * Rel-16 | * B | * eMCData2 | * agreed |
| * C1-202025 | * Delete a subscription to notifications | * AT&T, Samsung | * 24.282 | * 0120 | * - | * Rel-16 | * B | * eMCData2 | * revised |
| * C1-202641 | * Delete a subscription to notifications | * AT&T, Samsung | * 24.282 | * 0120 | * 1 | * Rel-16 | * B | * eMCData2 | * agreed |
| * C1-202026 | * Update a subscription to notifications | * AT&T, Samsung | * 24.282 | * 0121 | * - | * Rel-16 | * B | * eMCData2 | * revised |
| * C1-202643 | * Update a subscription to notifications | * AT&T, Samsung | * 24.282 | * 0121 | * 1 | * Rel-16 | * B | * eMCData2 | * agreed |
| * C1-202027 | * Synchronization notification | * AT&T | * 24.282 | * 0122 | * - | * Rel-16 | * B | * eMCData2 | * revised |
| * C1-202646 | * Synchronization notification | * AT&T | * 24.282 | * 0122 | * 1 | * Rel-16 | * B | * eMCData2 | * agreed |
| * C1-202028 | * Search-based Synchronization | * AT&T | * 24.282 | * 0123 | * - | * Rel-16 | * B | * eMCData2 | * revised |
| * C1-202647 | * Search-based Synchronization | * AT&T | * 24.282 | * 0123 | * 1 | * Rel-16 | * B | * eMCData2 | * agreed |
| * C1-202029 | * List folder | * AT&T, Samsung | * 24.282 | * 0124 | * - | * Rel-16 | * B | * eMCData2 | * revised |
| * C1-202649 | * List folder | * AT&T, Samsung | * 24.282 | * 0124 | * 1 | * Rel-16 | * B | * eMCData2 | * agreed |
| * C1-202030 | * Typo fixes | * AT&T | * 24.282 | * 0125 | * - | * Rel-16 | * D | * eMCData2 | * revised |
| * C1-202677 | * Typo fixes | * AT&T | * 24.282 | * 0125 | * 1 | * Rel-16 | * D | * eMCData2 | * agreed |
| * C1-202260 | * Support for MCData emergency alert and communications | * AT&T / Val | * 24.282 | * 0126 | * - | * Rel-16 | * B | * eMCData2, eMCData2, eMCData2 | * revised |
| * C1-202771 | * Support for MCData emergency alert and communications | * AT&T / Val | * 24.282 | * 0126 | * 1 | * Rel-16 | * B | * eMCData2, eMCData2, eMCData2 | * agreed |
| * C1-202262 | * Emergency Alerts for MCData – client procedures | * AT&T / Val | * 24.282 | * 0127 | * - | * Rel-16 | * B | * eMCData2, eMCData2, eMCData2 | * revised |
| * C1-202761 | * Emergency Alerts for MCData – client procedures | * AT&T / Val | * 24.282 | * 0127 | * 1 | * Rel-16 | * B | * eMCData2, eMCData2, eMCData2 | * agreed |
| * C1-202281 | * Handling of MCData Emergency Alerts at the MCData participating servers | * AT&T / Val | * 24.282 | * 0128 | * - | * Rel-16 | * B | * eMCData2, eMCData2, eMCData2 | * revised |
| * C1-202755 | * Handling of MCData Emergency Alerts at the MCData participating servers | * AT&T / Val | * 24.282 | * 0128 | * 1 | * Rel-16 | * B | * eMCData2, eMCData2, eMCData2 | * agreed |
| * C1-202287 | * Handling of MCData Emergency Alerts at the MCData controlling server | * AT&T / Val | * 24.282 | * 0129 | * - | * Rel-16 | * B | * eMCData2, eMCData2, eMCData2 | * revised |
| * C1-202754 | * Handling of MCData Emergency Alerts at the MCData controlling server | * AT&T / Val | * 24.282 | * 0129 | * 1 | * Rel-16 | * B | * eMCData2, eMCData2, eMCData2 | * agreed |
| * C1-202288 | * Auxiliary procedures in support of Emergency Alerts for MCData | * AT&T / Val | * 24.282 | * 0130 | * - | * Rel-16 | * B | * eMCData2, eMCData2, eMCData2 | * revised |
| * C1-202751 | * Auxiliary procedures in support of Emergency Alerts for MCData | * AT&T / Val | * 24.282 | * 0130 | * 1 | * Rel-16 | * B | * eMCData2, eMCData2, eMCData2 | * agreed |
| * C1-202452 | * Fix minor issues in MCData pre-etsblished session | * Samsung / Sapan | * 24.282 | * 0131 | * - | * Rel-16 | * F | * eMCData2 | * revised |
| * C1-202794 | * Fix minor issues in MCData pre-etsblished session | * Samsung / Sapan | * 24.282 | * 0131 | * 1 | * Rel-16 | * F | * eMCData2 | * agreed |
| * C1-202498 | * IPConnectivity extension to include IP Information | * Kontron Transportation France | * 24.282 | * 0132 | * - | * Rel-16 | * C | * MONASTERY2 | * revised |
| * C1-202885 | * IPConnectivity extension to include IP Information | * Kontron Transportation France | * 24.282 | * 0132 | * 1 | * Rel-16 | * C | * MONASTERY2 | * agreed |
| * C1-202550 | * Corrections to file upload-download procedure as per stage 2 architecture changes | * Samsung | * 24.282 | * 0133 | * - | * Rel-16 | * F | * eMCData2 | * revised |
| * C1-202654 | * Corrections to file upload-download procedure as per stage 2 architecture changes | * Samsung | * 24.282 | * 0133 | * 1 | * Rel-16 | * F | * eMCData2 | * revised |
| * C1-202835 | * Corrections to file upload-download procedure as per stage 2 architecture changes | * Samsung | * 24.282 | * 0133 | * 2 | * Rel-16 | * F | * eMCData2 | * agreed |
| * C1-202391 | * Attach request message for N1 mode | * Nokia, Nokia Shanghai Bell, Ericsson | * 24.301 | * 3150 | * 8 | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202931 | * Attach request message for N1 mode | * Nokia, Nokia Shanghai Bell, Ericsson | * 24.301 | * 3150 | * 9 | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202095 | * Introduce support for 5G SRVCC support indication when registering with EPS | * BlackBerry Uk Ltd. | * 24.301 | * 3290 | * 1 | * Rel-16 | * F | * 5G\_SRVCC | * withdrawn |
| * C1-202502 | * NAS Message Container 2 for LPP/LCS messages | * MediaTek Inc., Qualcomm Incorporated / Marko | * 24.301 | * 3308 | * 2 | * Rel-16 | * B | * TEI16 | * revised |
| * C1-202681 | * NAS Message Container 2 for LPP/LCS messages | * MediaTek Inc., Qualcomm Incorporated / Marko | * 24.301 | * 3308 | * 3 | * Rel-16 | * B | * TEI16 | * postponed |
| * C1-202269 | * Allow lower layer to change RRC establishment cause during voice EPS fallback | * Qualcomm Incorporated, Ericsson | * 24.301 | * 3316 | * 1 | * Rel-16 | * F | * TEI16 | * revised |
| * C1-202830 | * Allow lower layer to change RRC establishment cause during voice EPS fallback | * Qualcomm Incorporated, Ericsson | * 24.301 | * 3316 | * 2 | * Rel-16 | * F | * TEI16 | * postponed |
| * C1-202088 | * Clarification for the use of enhanced coverage in EPS | * Samsung, Huawei, HiSilicon, InterDigital | * 24.301 | * 3339 | * - | * Rel-16 | * F | * TEI16 | * revised |
| * C1-202644 | * Clarification for the use of enhanced coverage in EPS | * Samsung, Huawei, HiSilicon, InterDigital | * 24.301 | * 3339 | * 1 | * Rel-16 | * F | * TEI16 | * withdrawn |
| * C1-202645 | * Clarification for the use of enhanced coverage in EPS | * Samsung, Huawei, HiSilicon, InterDigital | * 24.301 | * 3339 | * 2 | * Rel-16 | * F | * TEI16 | * revised |
| * C1-202906 | * Clarification for the use of enhanced coverage in EPS | * Samsung, Huawei, HiSilicon, InterDigital | * 24.301 | * 3339 | * 3 | * Rel-16 | * F | * TEI16 | * agreed |
| * C1-202126 | * Miscellaneous editorial corrections | * Samsung Electronics Polska / Ricky | * 24.301 | * 3340 | * - | * Rel-16 | * D | * PARLOS | * revised |
| * C1-202601 | * Miscellaneous editorial corrections | * Samsung Electronics Polska / Ricky | * 24.301 | * 3340 | * 1 | * Rel-16 | * D | * PARLOS | * agreed |
| * C1-202127 | * Consistent usage of "tracking area updating procedure" | * Samsung Electronics Polska / Ricky | * 24.301 | * 3341 | * - | * Rel-16 | * D | * SAES16 | * agreed |
| * C1-202147 | * Clarify UE behaviour for reject cause #9 and #10 received when attached for RLOS | * Samsung/Anikethan | * 24.301 | * 3342 | * - | * Rel-16 | * F | * PARLOS | * revised |
| * C1-202879 | * Clarify UE behaviour for reject cause #9 and #10 received when attached for RLOS | * Samsung/Anikethan | * 24.301 | * 3342 | * 1 | * Rel-16 | * F | * PARLOS | * agreed |
| * C1-202154 | * Condition to ensure that UE does not keep reattempting RLOS attach on a PLMN which has rejected the request | * Samsung/Anikethan | * 24.301 | * 3343 | * - | * Rel-16 | * F | * PARLOS | * postponed |
| * C1-202162 | * Indicating support of V2X over NR-PC5 | * LG Electronics / SangMin | * 24.301 | * 3344 | * - | * Rel-16 | * B | * eV2XARC | * revised |
| * C1-202757 | * Indicating support of V2X over NR-PC5 | * LG Electronics / SangMin | * 24.301 | * 3344 | * 1 | * Rel-16 | * B | * eV2XARC | * agreed |
| * C1-202178 | * Emergency PDN connection established after WUS negotiation | * vivo | * 24.301 | * 3345 | * - | * Rel-16 | * F | * TEI16, CIoT-CT | * revised |
| * C1-202736 | * Emergency PDN connection established after WUS negotiation | * vivo | * 24.301 | * 3345 | * 1 | * Rel-16 | * F | * TEI16, CIoT-CT | * agreed |
| * C1-202229 | * Possible KSI types in EPS | * Ericsson / Mikael | * 24.301 | * 3346 | * - | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202263 | * TA change during Authentication procedure in EMM-CONNECTED mode | * Apple | * 24.301 | * 3347 | * - | * Rel-16 | * F | * TEI16 | * revised |
| * C1-202850 | * TA change during Authentication procedure in EMM-CONNECTED mode | * Apple | * 24.301 | * 3347 | * 1 | * Rel-16 | * F | * TEI16 | * postponed |
| * C1-202267 | * Add handling for parameter set to “value is not used” in EPS | * Qualcomm Incorporated | * 24.301 | * 3348 | * - | * Rel-16 | * F | * TEI16 | * revised |
| * C1-202633 | * Add handling for parameter set to “value is not used” in EPS | * Qualcomm Incorporated | * 24.301 | * 3348 | * 1 | * Rel-16 | * F | * TEI16 | * postponed |
| * C1-202270 | * Correct handling of receiving EMM cause #31 in EPS | * Qualcomm Incorporated | * 24.301 | * 3349 | * - | * Rel-16 | * F | * 5G\_CIoT | * revised |
| * C1-202674 | * Correct handling of receiving EMM cause #31 in EPS | * Qualcomm Incorporated | * 24.301 | * 3349 | * 1 | * Rel-16 | * F | * 5G\_CIoT | * agreed |
| * C1-202274 | * Remove invalid cases in error handling for TFT operation in EPS | * Qualcomm Incorporated | * 24.301 | * 3350 | * - | * Rel-16 | * F | * TEI16 | * agreed |
| * C1-202334 | * Clarification on the UE behaviour when receiving T3448 | * ZTE | * 24.301 | * 3351 | * - | * Rel-16 | * F | * TEI16 | * revised |
| * C1-202781 | * Clarification on the UE behaviour when receiving T3448 | * ZTE | * 24.301 | * 3351 | * 1 | * Rel-16 | * F | * TEI16 | * agreed |
| * C1-202347 | * Correcting length of extended emergency number list IE | * Huawei, HiSilicon / Cristina | * 24.301 | * 3352 | * - | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202384 | * UE specific DRX for NB-S1 mode | * Vodafone, Ericsson | * 24.301 | * 3353 | * - | * Rel-16 | * B | * 5G\_CIoT | * revised |
| * C1-202662 | * UE specific DRX for NB-S1 mode | * Vodafone, Ericsson, Huawei, HiSilicon | * 24.301 | * 3353 | * 1 | * Rel-16 | * B | * TEI16 | * agreed |
| * C1-202421 | * Definition of current PLMN and serving PLMN | * Qualcomm Incorporated / Amer | * 24.301 | * 3354 | * - | * Rel-16 | * F | * TEI16 | * postponed |
| * C1-202466 | * WUS assistance for emergency | * Huawei, HiSilicon/Lin | * 24.301 | * 3355 | * - | * Rel-16 | * F | * TEI16, CIoT-CT | * revised |
| * C1-202797 | * WUS assistance for emergency | * Huawei, HiSilicon/Lin | * 24.301 | * 3355 | * 1 | * Rel-16 | * F | * TEI16, CIoT-CT | * agreed |
| * C1-202467 | * WUS assistance for TAU | * Huawei, HiSilicon/Lin | * 24.301 | * 3356 | * - | * Rel-16 | * F | * TEI16, CIoT-CT | * agreed |
| * C1-202468 | * Retry restriction for NB-IoT UEs due to out of tariff package | * Huawei, HiSilicon/Lin | * 24.301 | * 3357 | * - | * Rel-16 | * F | * TEI16, CIoT-CT | * revised |
| * C1-202798 | * Retry restriction for NB-IoT UEs due to out of tariff package | * Huawei, HiSilicon/Lin | * 24.301 | * 3357 | * 1 | * Rel-16 | * F | * TEI16, CIoT-CT | * agreed |
| * C1-202479 | * Single-registration mode without N26 | * Huawei, HiSilicon/Lin | * 24.301 | * 3358 | * - | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202803 | * Single-registration mode without N26 | * Huawei, HiSilicon/Lin | * 24.301 | * 3358 | * 1 | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202480 | * Service reject for emergency EPS fallback | * Huawei, HiSilicon/Lin | * 24.301 | * 3359 | * - | * Rel-16 | * F | * 5GProtoc16 | * withdrawn |
| * C1-202481 | * Handling of mapped EPS bearer contexts | * Huawei, HiSilicon/Lin | * 24.301 | * 3360 | * - | * Rel-16 | * F | * 5GProtoc16 | * withdrawn |
| * C1-202482 | * Integrity check interworking in 5GMM-CONNECTED mode | * Huawei, HiSilicon/Lin | * 24.301 | * 3361 | * - | * Rel-16 | * F | * 5GProtoc16 | * withdrawn |
| * C1-202483 | * Correction on LADN DNN based congestion control | * Huawei, HiSilicon/Lin | * 24.301 | * 3362 | * - | * Rel-16 | * F | * 5GProtoc16 | * withdrawn |
| * C1-202484 | * Correction on retry restriction for ESM#66 | * Huawei, HiSilicon/Lin | * 24.301 | * 3363 | * - | * Rel-16 | * F | * TEI16, SINE | * revised |
| * C1-202804 | * Correction on retry restriction for ESM#66 | * Huawei, HiSilicon/Lin | * 24.301 | * 3363 | * 1 | * Rel-16 | * F | * TEI16, SINE | * agreed |
| * C1-202511 | * Reset of PLMN-specific attempt counter | * MediaTek Inc. / Marko | * 24.301 | * 3364 | * - | * Rel-16 | * F | * TEI16 | * revised |
| * C1-202685 | * Reset of PLMN-specific attempt counter | * MediaTek Inc. / Marko | * 24.301 | * 3364 | * 1 | * Rel-16 | * F | * TEI16 | * agreed |
| * C1-202513 | * Correction to Handling of T3421 timer | * MediaTek Inc. / Marko | * 24.301 | * 3365 | * - | * Rel-16 | * F | * TEI16 | * revised |
| * C1-202686 | * Correction to Handling of T3421 timer | * MediaTek Inc. / Marko | * 24.301 | * 3365 | * 1 | * Rel-16 | * F | * TEI16 | * agreed |
| * C1-202515 | * Correction of EMM initiated TAU procedure in EMM-REGISTERED.ATTEMPTING-TO-UPDATE-MM | * MediaTek Inc. / Marko | * 24.301 | * 3366 | * - | * Rel-16 | * F | * SAES16 | * revised |
| * C1-202688 | * Correction of EMM initiated TAU procedure in EMM-REGISTERED.ATTEMPTING-TO-UPDATE-MM | * MediaTek Inc. / Marko | * 24.301 | * 3366 | * 1 | * Rel-16 | * F | * SAES16 | * agreed |
| * C1-202516 | * Correction to Handling of MO CSFB Emergency call in EMM-REGISTERED.ATTEMPTING-TO-UPDATE-MM | * MediaTek Inc. / Marko | * 24.301 | * 3367 | * - | * Rel-16 | * F | * SAES16 | * revised |
| * C1-202689 | * Correction to Handling of MO CSFB Emergency call in EMM-REGISTERED.ATTEMPTING-TO-UPDATE-MM | * MediaTek Inc. / Marko | * 24.301 | * 3367 | * 1 | * Rel-16 | * F | * SAES16 | * agreed |
| * C1-202517 | * Correction to Handling of #31 | * MediaTek Inc. / Marko | * 24.301 | * 3368 | * - | * Rel-16 | * F | * SAES16 | * revised |
| * C1-202690 | * Correction to Handling of #31 | * MediaTek Inc. / Marko | * 24.301 | * 3368 | * 1 | * Rel-16 | * F | * SAES16 | * agreed |
| * C1-202519 | * Correction to Handling of #35 | * MediaTek Inc. / Marko | * 24.301 | * 3369 | * - | * Rel-16 | * F | * SAES16 | * agreed |
| * C1-202520 | * Correction to handling of T3447 timer | * MediaTek Inc. / Marko | * 24.301 | * 3370 | * - | * Rel-16 | * F | * TEI16 | * revised |
| * C1-202691 | * Correction to handling of T3447 timer | * MediaTek Inc. / Marko | * 24.301 | * 3370 | * 1 | * Rel-16 | * F | * TEI16 | * agreed |
| * C1-202536 | * Indicate support of ePCO length of two octets parameter in the bearer resource modification procedure – Alt#3 | * MediaTek Inc. / JJ | * 24.301 | * 3371 | * - | * Rel-16 | * F | * 5GProtoc16 | * withdrawn |
| * C1-202542 | * Error handling of precedence value conflict | * MediaTek Inc. / JJ | * 24.301 | * 3372 | * - | * Rel-16 | * F | * SAES16 | * revised |
| * C1-202824 | * Error handling of precedence value conflict | * MediaTek Inc. / JJ | * 24.301 | * 3372 | * 1 | * Rel-16 | * F | * SAES16 | * agreed |
| * C1-202578 | * Extending congestion notification to capture ePDG overload | * Nokia, Nokia Shanghai Bell, Charter Communications | * 24.302 | * 0718 | * - | * Rel-16 | * F | * 5GProtoc16-non3GPP | * revised |
| * C1-202907 | * Extending congestion notification to capture ePDG overload | * Nokia, Nokia Shanghai Bell, Charter Communications | * 24.302 | * 0718 | * 1 | * Rel-16 | * F | * 5GProtoc16-non3GPP | * agreed |
| * C1-202032 | * Remove the duplicated cause value for announce request procedure not accepted by the ProSe Function | * CATT | * 24.334 | * 0328 | * - | * Rel-15 | * A | * TEI15 | * postponed |
| * C1-202220 | * Check regroup ID | * FirstNet / Mike | * 24.379 | * 0553 | * - | * Rel-16 | * F | * MCProtoc16 | * revised |
| * C1-202630 | * Check regroup ID | * FirstNet / Mike | * 24.379 | * 0553 | * 1 | * Rel-16 | * F | * MCProtoc16 | * agreed |
| * C1-202221 | * Clarification of 11.1.6.2.1.2 | * FirstNet / Mike | * 24.379 | * 0554 | * - | * Rel-16 | * F | * MCProtoc16 | * revised |
| * C1-202631 | * Clarification of 11.1.6.2.1.2 | * FirstNet / Mike | * 24.379 | * 0554 | * 1 | * Rel-16 | * F | * MCProtoc16 | * agreed |
| * C1-202222 | * Update affiliation definition to support preconfigured regroups | * FirstNet / Mike | * 24.379 | * 0555 | * - | * Rel-16 | * F | * MCProtoc16 | * revised |
| * C1-202632 | * Update affiliation definition to support preconfigured regroups | * FirstNet / Mike | * 24.379 | * 0555 | * 1 | * Rel-16 | * F | * MCProtoc16 | * agreed |
| * C1-202551 | * Authorisation validation for first-to-answer call origination requesting user using pre-established session | * Samsung | * 24.379 | * 0556 | * - | * Rel-16 | * B | * MCProtoc16 | * revised |
| * C1-202655 | * Authorisation validation for first-to-answer call origination requesting user using pre-established session | * Samsung | * 24.379 | * 0556 | * 1 | * Rel-16 | * B | * MCProtoc16 | * revised |
| * C1-202834 | * Authorisation validation for first-to-answer call origination requesting user using pre-established session | * Samsung | * 24.379 | * 0556 | * 2 | * Rel-16 | * B | * MCProtoc16 | * agreed |
| * C1-202552 | * Check for MCPTT ID bindng and validity period of existing binding | * Samsung | * 24.379 | * 0557 | * - | * Rel-16 | * C | * MCProtoc16 | * revised |
| * C1-202656 | * Check for MCPTT ID bindng and validity period of existing binding | * Samsung | * 24.379 | * 0557 | * 1 | * Rel-16 | * C | * MCProtoc16 | * agreed |
| * C1-202553 | * Corrections to location sharing during call setup | * Samsung | * 24.379 | * 0558 | * - | * Rel-16 | * F | * MCProtoc16 | * revised |
| * C1-202657 | * Corrections to location sharing during call setup | * Samsung | * 24.379 | * 0558 | * 1 | * Rel-16 | * F | * MCProtoc16 | * agreed |
| * C1-202554 | * Corrections to current talker location in ambient call | * Samsung | * 24.379 | * 0559 | * - | * Rel-16 | * F | * MCProtoc16 | * revised |
| * C1-202658 | * Corrections to current talker location in ambient call | * Samsung | * 24.379 | * 0559 | * 1 | * Rel-16 | * F | * MCProtoc16 | * agreed |
| * C1-202555 | * Corrections to step reference in terminating controlling function | * Samsung | * 24.379 | * 0560 | * - | * Rel-16 | * F | * MCProtoc16 | * agreed |
| * C1-202556 | * Corrections to step reference in create a group regroup using preconfigured group | * Samsung | * 24.379 | * 0561 | * - | * Rel-16 | * F | * MCProtoc16 | * agreed |
| * C1-202557 | * Corrected the client origination procedure subclause text of 11.1.6.2.1.1 | * Samsung | * 24.379 | * 0562 | * - | * Rel-16 | * F | * MCProtoc16 | * agreed |
| * C1-202558 | * Allow an emergency and immenit peril calls during max simultaneous sessions | * Samsung | * 24.379 | * 0563 | * - | * Rel-16 | * F | * MCProtoc16 | * agreed |
| * C1-202568 | * Resolution of called functional alias in first-to-answer calls | * Nokia, Nokia Shanghai Bell | * 24.379 | * 0564 | * - | * Rel-16 | * B | * MONASTERY2 | * revised |
| * C1-202905 | * Resolution of called functional alias in first-to-answer calls | * Nokia, Nokia Shanghai Bell | * 24.379 | * 0564 | * 1 | * Rel-16 | * B | * MONASTERY2 | * postponed |
| * C1-202223 | * Floor Request to Regrouped Group | * FirstNet / Mike | * 24.380 | * 0229 | * - | * Rel-16 | * F | * MCProtoc16 | * withdrawn |
| * C1-202559 | * Authentication of the MIKEY-SAKKE I\_Message validation in pre-established session | * Samsung | * 24.380 | * 0230 | * - | * Rel-16 | * F | * MCProtoc16 | * revised |
| * C1-202659 | * Authentication of the MIKEY-SAKKE I\_Message validation in pre-established session | * Samsung | * 24.380 | * 0230 | * 1 | * Rel-16 | * F | * MCProtoc16 | * postponed |
| * C1-202560 | * Talker location sharing in remote ambient call | * Samsung | * 24.380 | * 0231 | * - | * Rel-16 | * F | * MCProtoc16 | * revised |
| * C1-202660 | * Talker location sharing in remote ambient call | * Samsung | * 24.380 | * 0231 | * 1 | * Rel-16 | * F | * MCProtoc16 | * agreed |
| * C1-202011 | * Configuration parameters for additional transport over Uu for V2X messages of V2X services identified by V2X service identifiers | * Ericsson / Ivo | * 24.385 | * 0020 | * - | * Rel-16 | * B | * eV2XARC | * revised |
| * C1-202839 | * Configuration parameters for additional transport over Uu for V2X messages of V2X services identified by V2X service identifiers | * Ericsson / Ivo | * 24.385 | * 0020 | * 1 | * Rel-16 | * B | * eV2XARC | * agreed |
| * C1-202161 | * V2X MO update for V2X over NR PC5 | * LG Electronics / SangMin | * 24.385 | * 0021 | * - | * Rel-16 | * B | * eV2XARC | * revised |
| * C1-202756 | * V2X MO update for V2X over NR PC5 | * LG Electronics / SangMin | * 24.385 | * 0021 | * 1 | * Rel-16 | * B | * eV2XARC | * agreed |
| * C1-202010 | * Additional transport over Uu for V2X messages of V2X services identified by V2X service identifiers | * Ericsson / Ivo | * 24.386 | * 0023 | * - | * Rel-16 | * B | * eV2XARC | * revised |
| * C1-202838 | * Additional transport over Uu for V2X messages of V2X services identified by V2X service identifiers | * Ericsson / Ivo | * 24.386 | * 0023 | * 1 | * Rel-16 | * B | * eV2XARC | * agreed |
| * C1-202160 | * Introducing V2X communications over NR PC5 in EPC | * LG Electronics / SangMin | * 24.386 | * 0024 | * - | * Rel-16 | * B | * eV2XARC | * revised |
| * C1-202748 | * Introducing V2X communications over NR PC5 in EPC | * LG Electronics / SangMin | * 24.386 | * 0024 | * 1 | * Rel-16 | * B | * eV2XARC | * agreed |
| * C1-202496 | * IPConnectivity extension to include IP Information | * Kontron Transportation France | * 24.483 | * 0067 | * - | * Rel-16 | * C | * MONASTERY2 | * revised |
| * C1-202883 | * IPConnectivity extension to include IP Information | * Kontron Transportation France | * 24.483 | * 0067 | * 1 | * Rel-16 | * C | * MONASTERY2 | * agreed |
| * C1-202386 | * Configuration of resource priority for MCData emergency | * AT&T / Val | * 24.484 | * 0137 | * - | * Rel-16 | * B | * eMCData2, eMCData2, eMCData2 | * revised |
| * C1-202750 | * Configuration of resource priority for MCData emergency | * AT&T / Val | * 24.484 | * 0137 | * 1 | * Rel-16 | * B | * eMCData2, eMCData2, eMCData2 | * agreed |
| * C1-202497 | * IPConnectivity extension to include IP Information | * Kontron Transportation France | * 24.484 | * 0138 | * - | * Rel-16 | * C | * MONASTERY2 | * revised |
| * C1-202884 | * IPConnectivity extension to include IP Information | * Kontron Transportation France | * 24.484 | * 0138 | * 1 | * Rel-16 | * C | * MONASTERY2 | * agreed |
| * C1-202569 | * Update service configuration to support limiting the number of authorized clients per MCPTT user | * Nokia, Nokia Shanghai Bell | * 24.484 | * 0139 | * - | * Rel-16 | * B | * MONASTERY2 | * postponed |
| * C1-202390 | * Inclusion of ATTACH REQUEST message in REGISTRATION REQUEST message during initial registration when 5G-GUTI mapped from 4G-GUTI is used | * Nokia, Nokia Shanghai Bell, Ericsson, Qualcomm Incorporated | * 24.501 | * 0793 | * 8 | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202929 | * Inclusion of ATTACH REQUEST message in REGISTRATION REQUEST message during initial registration when 5G-GUTI mapped from 4G-GUTI is used | * Nokia, Nokia Shanghai Bell, Ericsson, Qualcomm Incorporated | * 24.501 | * 0793 | * 9 | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202476 | * Corrections on the abnormal cases of registration procedure for initial registration | * Huawei, HiSilicon/Lin | * 24.501 | * 1379 | * 5 | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202801 | * Corrections on the abnormal cases of registration procedure for initial registration | * Huawei, HiSilicon/Lin | * 24.501 | * 1379 | * 6 | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202376 | * Handling of MCS data in various 5GMM states | * Samsung | * 24.501 | * 1415 | * 7 | * Rel-16 | * F | * 5GProtoc16 | * withdrawn |
| * C1-202096 | * Correct EPS SRVCC support indication when registering with 5GS | * BlackBerry Uk Ltd. | * 24.501 | * 1642 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-CT | * withdrawn |
| * C1-202097 | * Correct EPS SRVCC support indication when registering with 5GS | * BlackBerry Uk Ltd. | * 24.501 | * 1643 | * 3 | * Rel-16 | * A | * 5GS\_Ph1-CT | * withdrawn |
| * C1-202459 | * Enhancement on CPSR for CIoT CP data transport | * Huawei, HiSilicon, Vodafone, ZTE, China Mobile, China Telecom, CATT/Lin | * 24.501 | * 1701 | * 4 | * Rel-16 | * C | * 5G\_CIoT | * revised |
| * C1-202795 | * Enhancement on CPSR for CIoT CP data transport | * Huawei, HiSilicon, Vodafone, ZTE, China Mobile, China Telecom, CATT/Lin | * 24.501 | * 1701 | * 5 | * Rel-16 | * C | * 5G\_CIoT | * agreed |
| * C1-202247 | * S-NSSAI in rejected NSSAI for the failed or revoked NSSAA not to be requested | * Ericsson /kaj | * 24.501 | * 1734 | * 1 | * Rel-16 | * F | * eNS | * revised |
| * C1-202813 | * S-NSSAI in rejected NSSAI for the failed or revoked NSSAA not to be requested | * Ericsson /kaj | * 24.501 | * 1734 | * 2 | * Rel-16 | * F | * eNS | * agreed |
| * C1-202245 | * CIoT user data container in CPSR message not forwarded | * Ericsson /kaj | * 24.501 | * 1743 | * 3 | * Rel-16 | * C | * 5G\_CIoT | * merged |
| * C1-202098 | * Correcting order in which connections/sessions are transferred if there is an emergency call | * BlackBerry Uk Ltd. | * 24.501 | * 1782 | * 3 | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202670 | * Correcting order in which connections/sessions are transferred if there is an emergency call | * BlackBerry Uk Ltd. | * 24.501 | * 1782 | * 4 | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202868 | * Correcting order in which connections/sessions are transferred if there is an emergency call | * BlackBerry Uk Ltd. | * 24.501 | * 1782 | * 5 | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202146 | * Additional abnormal case handling for NOTIFICATION message | * Samsung/Anikethan | * 24.501 | * 1791 | * 4 | * Rel-16 | * F | * 5GProtoc16 | * postponed |
| * C1-202149 | * Restricting handling of cause #9 to the access on which it was received | * Samsung/Anikethan | * 24.501 | * 1792 | * 1 | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202812 | * Restricting handling of cause #9 to the access on which it was received | * Samsung/Anikethan | * 24.501 | * 1792 | * 2 | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202100 | * Clarification on use of operator-defined access categories | * Qualcomm Incorporated, Ericsson, Nokia, Nokia Shanghai Bell / Lena | * 24.501 | * 1795 | * 2 | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202873 | * Clarification on use of operator-defined access categories | * Qualcomm Incorporated, Ericsson, Nokia, Nokia Shanghai Bell / Lena | * 24.501 | * 1795 | * 3 | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202278 | * Add handling for UE configured to use timer T3245 in 5GS via 3GPP access | * Qualcomm Incorporated | * 24.501 | * 1803 | * 2 | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202635 | * Add handling for UE configured to use timer T3245 in 5GS via 3GPP access | * Qualcomm Incorporated | * 24.501 | * 1803 | * 3 | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202477 | * Correction on UE behaviour for service area restriction | * Huawei, HiSilicon/Lin | * 24.501 | * 1823 | * 4 | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202394 | * PDU session release for an inactive UE with RAN paging failure | * Nokia, Nokia Shanghai Bell | * 24.501 | * 1833 | * 1 | * Rel-16 | * F | * 5GProtoc16 | * postponed |
| * C1-202392 | * Paging with two valid 5G-GUTIs | * Nokia, Nokia Shanghai Bell | * 24.501 | * 1841 | * 3 | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202932 | * Paging with two valid 5G-GUTIs | * Nokia, Nokia Shanghai Bell | * 24.501 | * 1841 | * 4 | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202588 | * CAG Information in Registration Reject | * InterDigital, Samsung / Atle | * 24.501 | * 1868 | * 2 | * Rel-16 | * F | * Vertical\_LAN | * merged |
| * C1-202008 | * CAG-ID not provided to lower layers during NAS signalling connection establishment | * Ericsson, NTT DOCOMO, Huawei, HiSilicon, Qualcomm Incorporated / Ivo | * 24.501 | * 1880 | * 2 | * Rel-16 | * C | * Vertical\_LAN | * agreed |
| * C1-202340 | * Deleting Editors note regarding indefinite wait at the UE for NSSAA completion | * ZTE | * 24.501 | * 1912 | * 3 | * Rel-16 | * C | * eNS | * postponed |
| * C1-202346 | * EPS selection when the UE is deregistered due to NSSAA failure | * Samsung/Kundan | * 24.501 | * 1950 | * 1 | * Rel-16 | * F | * eNS | * postponed |
| * C1-202364 | * Handling of a CAG UE at non supporting AMF | * Samsung/Kundan | * 24.501 | * 1964 | * 1 | * Rel-16 | * F | * Vertical\_LAN | * postponed |
| * C1-202136 | * Dual-registration requirements for EHPLMNs | * Intel, Qualcomm Incorporated / Vivek | * 24.501 | * 1974 | * 1 | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202454 | * Updating NSSAI status in AMF | * NEC | * 24.501 | * 1990 | * 1 | * Rel-16 | * F | * eNS | * postponed |
| * C1-202250 | * Request S-NSSAI pending the NW slice-specific authentication and authorization | * Ericsson /kaj | * 24.501 | * 2004 | * 1 | * Rel-16 | * C | * eNS | * postponed |
| * C1-202015 | * Providing configured human readable name for CAG-ID | * Ericsson / Ivo | * 24.501 | * 2009 | * 1 | * Rel-16 | * C | * Vertical\_LAN | * revised |
| * C1-202840 | * Providing configured human readable name for CAG-ID | * Ericsson / Ivo | * 24.501 | * 2009 | * 2 | * Rel-16 | * C | * Vertical\_LAN | * agreed |
| * C1-202087 | * Correction in UE behavior upon receipt of 5GMM cause value #74 or #75 via a non-integrity protected NAS message | * Nokia, Nokia Shanghai Bell | * 24.501 | * 2010 | * 2 | * Rel-16 | * C | * Vertical\_LAN | * agreed |
| * C1-202402 | * Introduction of SNPN-specific N1 mode attempt counters | * Nokia, Nokia Shanghai Bell | * 24.501 | * 2011 | * 2 | * Rel-16 | * F | * Vertical\_LAN | * revised |
| * C1-202922 | * Introduction of SNPN-specific N1 mode attempt counters | * Nokia, Nokia Shanghai Bell, Apple | * 24.501 | * 2011 | * 3 | * Rel-16 | * F | * Vertical\_LAN | * postponed |
| * C1-202009 | * EPS interworking of MA PDU session of 5G-RG when N26 is not supported | * Ericsson / Ivo | * 24.501 | * 2027 | * - | * Rel-16 | * B | * ATSSS, 5WWC | * agreed |
| * C1-202018 | * Secondary authentication and W-AGF acting on behalf of N5GC | * Ericsson / Ivo | * 24.501 | * 2028 | * - | * Rel-16 | * C | * 5WWC | * revised |
| * C1-202694 | * Secondary authentication and W-AGF acting on behalf of N5GC | * Ericsson / Ivo | * 24.501 | * 2028 | * 1 | * Rel-16 | * C | * 5WWC | * agreed |
| * C1-202031 | * EPS interworking of MA PDU session of 5G-RG when N26 is supported | * Ericsson / Ivo | * 24.501 | * 2029 | * - | * Rel-16 | * B | * ATSSS, 5WWC | * revised |
| * C1-202695 | * EPS interworking of MA PDU session of 5G-RG when N26 is supported | * Ericsson / Ivo | * 24.501 | * 2029 | * 1 | * Rel-16 | * B | * ATSSS, 5WWC | * agreed |
| * C1-202077 | * Indication of change in the use of enhanced coverage | * Samsung, InterDigital, Huawei, HiSilicon | * 24.501 | * 2030 | * - | * Rel-16 | * F | * 5G\_CIoT | * revised |
| * C1-202648 | * Indication of change in the use of enhanced coverage | * Samsung, InterDigital, Huawei, HiSilicon | * 24.501 | * 2030 | * 1 | * Rel-16 | * F | * 5G\_CIoT | * revised |
| * C1-202904 | * Indication of change in the use of enhanced coverage | * Samsung, InterDigital, Huawei, HiSilicon | * 24.501 | * 2030 | * 2 | * Rel-16 | * F | * 5G\_CIoT | * agreed |
| * C1-202079 | * Integrity protection data rate for UEs that don’t support N3 data transfer | * Samsung | * 24.501 | * 2031 | * - | * Rel-16 | * F | * 5G\_CIoT | * agreed |
| * C1-202082 | * Addition of Control Plane Service Request in the abnormal cases for service request procedure | * InterDigital Communications | * 24.501 | * 2032 | * - | * Rel-16 | * F | * 5G\_CIoT | * agreed |
| * C1-202083 | * Correction of certain erroneous Information Element Identifiers | * InterDigital Communications | * 24.501 | * 2033 | * - | * Rel-16 | * F | * TEI16 | * agreed |
| * C1-202084 | * DRX parameters for NB-IoT | * InterDigital Communications | * 24.501 | * 2034 | * - | * Rel-16 | * F | * 5G\_CIoT | * revised |
| * C1-202611 | * DRX parameters for NB-IoT | * InterDigital Communications | * 24.501 | * 2034 | * 1 | * Rel-16 | * F | * 5G\_CIoT | * revised |
| * C1-202619 | * DRX parameters for NB-IoT | * InterDigital Communications | * 24.501 | * 2034 | * 2 | * Rel-16 | * F | * 5G\_CIoT | * revised |
| * C1-202671 | * DRX parameters for NB-IoT | * InterDigital Communications | * 24.501 | * 2034 | * 3 | * Rel-16 | * F | * 5G\_CIoT | * revised |
| * C1-202864 | * DRX parameters for NB-IoT | * InterDigital Communications | * 24.501 | * 2034 | * 4 | * Rel-16 | * F | * 5G\_CIoT | * withdrawn |
| * C1-202865 | * DRX parameters for NB-IoT | * InterDigital Communications | * 24.501 | * 2034 | * 4 | * Rel-16 | * F | * 5G\_CIoT | * revised |
| * C1-202926 | * DRX parameters for NB-IoT | * InterDigital Communications | * 24.501 | * 2034 | * 5 | * Rel-16 | * F | * 5G\_CIoT | * agreed |
| * C1-202085 | * Correcting a wrong reference | * InterDigital Communications | * 24.501 | * 2035 | * - | * Rel-16 | * F | * 5G\_CIoT | * agreed |
| * C1-202089 | * Clarification of NAS COUNT handling in 5G | * Vodafone GmbH, Deutsche Telekom | * 24.501 | * 2036 | * - | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202101 | * Clarification on DL only match-all packet filter | * Qualcomm Incorporated / Lena | * 24.501 | * 2037 | * - | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202111 | * Clarification S-NSSAI status in AMF for NSSAA | * China Telecom Corporation Ltd. | * 24.501 | * 2038 | * - | * Rel-16 | * F | * eNS | * revised |
| * C1-202774 | * Clarification S-NSSAI status in AMF for NSSAA | * China Telecom Corporation Ltd. | * 24.501 | * 2038 | * 1 | * Rel-16 | * F | * eNS | * agreed |
| * C1-202112 | * Update description on whether UE indicate supporting NSSAA | * China Telecom Corporation Ltd. | * 24.501 | * 2039 | * - | * Rel-16 | * F | * eNS | * revised |
| * C1-202792 | * Update description on whether UE indicate supporting NSSAA | * China Telecom Corporation Ltd. | * 24.501 | * 2039 | * 1 | * Rel-16 | * F | * eNS | * withdrawn |
| * C1-202872 | * Update description on whether UE indicate supporting NSSAA | * China Telecom Corporation Ltd. | * 24.501 | * 2039 | * 1 | * Rel-16 | * F | * eNS | * agreed |
| * C1-202113 | * Pending NSSAI update for the configured NSSAI in the CUC message | * China Telecom Corporation Ltd. | * 24.501 | * 2040 | * - | * Rel-16 | * F | * eNS | * revised |
| * C1-202778 | * Pending NSSAI update for the configured NSSAI in the CUC message | * China Telecom Corporation Ltd. | * 24.501 | * 2040 | * 1 | * Rel-16 | * F | * eNS | * agreed |
| * C1-202114 | * Adding the referenced subclause 4.6.2.2 for the UE stored Pending NSSAI. | * China Telecom Corporation Ltd. | * 24.501 | * 2041 | * - | * Rel-16 | * D | * eNS | * merged |
| * C1-202120 | * Applicability of PS data off to MA PDU | * OPPO / Rae | * 24.501 | * 2042 | * - | * Rel-16 | * F | * ATSSS | * revised |
| * C1-202701 | * Applicability of PS data off to MA PDU | * OPPO / Rae | * 24.501 | * 2042 | * 1 | * Rel-16 | * F | * ATSSS | * agreed |
| * C1-202121 | * Missing condition for inclusion of “NSSAA to be performed” indicator | * Samsung Electronics Polska / Ricky | * 24.501 | * 2043 | * - | * Rel-16 | * F | * eNS | * revised |
| * C1-202629 | * Missing condition for inclusion of “NSSAA to be performed” indicator | * Samsung, Ericsson | * 24.501 | * 2043 | * 1 | * Rel-16 | * F | * eNS | * agreed |
| * C1-202122 | * AMF triggers PDU session release | * Samsung Electronics Polska / Ricky | * 24.501 | * 2044 | * - | * Rel-16 | * F | * eNS | * revised |
| * C1-202608 | * AMF triggers PDU session release | * Samsung Electronics Polska / Ricky | * 24.501 | * 2044 | * 1 | * Rel-16 | * F | * eNS | * agreed |
| * C1-202124 | * All default S-NSSAI(s) require network slice-specific authentication and authorisation (solution 1) | * Samsung Electronics Polska / Ricky | * 24.501 | * 2045 | * - | * Rel-16 | * F | * eNS | * postponed |
| * C1-202125 | * Miscellaneous editorial corrections | * Samsung Electronics Polska | * 24.501 | * 2046 | * - | * Rel-16 | * D | * PARLOS | * withdrawn |
| * C1-202129 | * Correction of the handling of 5GMM cause #27 | * Apple, Qualcomm Incorporated, T-Mobile USA | * 24.501 | * 2047 | * - | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202131 | * Correction of the UE requirements for expiry of T3247 | * Apple | * 24.501 | * 2048 | * - | * Rel-16 | * F | * Vertical\_LAN | * withdrawn |
| * C1-202134 | * Stopping of T3346 after receiving the NSSA Command message | * BEIJING SAMSUNG TELECOM R&D | * 24.501 | * 2049 | * - | * Rel-16 | * F | * eNS | * agreed |
| * C1-202141 | * Additional condition to start T3540 | * Samsung/Anikethan | * 24.501 | * 2050 | * - | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202811 | * Additional condition to start T3540 | * Samsung/Anikethan | * 24.501 | * 2050 | * 1 | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202890 | * Additional condition to start T3540 | * Samsung/Anikethan | * 24.501 | * 2050 | * 2 | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202145 | * Specify UE behaviour for NOTIFICATION message for additional state/sub-states | * Samsung/Anikethan | * 24.501 | * 2051 | * - | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202815 | * Specify UE behaviour for NOTIFICATION message for additional state/sub-states | * Samsung/Anikethan | * 24.501 | * 2051 | * 1 | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202150 | * Inclusion of Rejected NSSAI in Registration reject with cause #62 | * Samsung/Anikethan | * 24.501 | * 2052 | * - | * Rel-16 | * F | * eNS | * postponed |
| * C1-202157 | * Clarification on the rejected S-NSSAI included in requested NSSAI in registration procedure. | * China Telecom Corporation Ltd. | * 24.501 | * 2053 | * - | * Rel-16 | * F | * eNS | * revised |
| * C1-202776 | * Clarification on the rejected S-NSSAI included in requested NSSAI in registration procedure. | * China Telecom Corporation Ltd. | * 24.501 | * 2053 | * 1 | * Rel-16 | * F | * eNS | * agreed |
| * C1-202158 | * Adding new IMSDoPS indication bits in “EPS network feature support” IE for network to indicate support for “IMS Data over PS” services | * MediaTek Inc., Apple | * 24.501 | * 2054 | * - | * Rel-16 | * B | * 5GProtoc16 | * postponed |
| * C1-202168 | * ANDSP is not supported by 5G-RG and W-AGF | * ZTE / Joy | * 24.501 | * 2055 | * - | * Rel-16 | * F | * 5WWC | * agreed |
| * C1-202169 | * Adding new abnormal cases on the network side for CPSR | * China Mobile, InterDigital | * 24.501 | * 2056 | * - | * Rel-16 | * C | * 5G\_CIoT | * revised |
| * C1-202616 | * Adding new abnormal cases on the network side for CPSR | * China Mobile | * 24.501 | * 2056 | * 1 | * Rel-16 | * C | * 5G\_CIoT | * withdrawn |
| * C1-202749 | * Adding a new abnormal case on the network side for CPSR | * China Mobile, InterDigital | * 24.501 | * 2056 | * 2 | * Rel-16 | * C | * 5G\_CIoT | * agreed |
| * C1-202170 | * The handling of N1 SM information during re-authentication and re-authorization for an S-NSSAI | * China Mobile | * 24.501 | * 2057 | * - | * Rel-16 | * C | * eNS | * revised |
| * C1-202702 | * The handling of N1 SM information during re-authentication and re-authorization for an S-NSSAI | * China Mobile | * 24.501 | * 2057 | * 1 | * Rel-16 | * C | * eNS | * postponed |
| * C1-202171 | * Updating descriptions of NS for NSSAA | * China Mobile | * 24.501 | * 2058 | * - | * Rel-16 | * F | * eNS | * revised |
| * C1-202603 | * Updating descriptions of NS for NSSAA | * China Mobile | * 24.501 | * 2058 | * 1 | * Rel-16 | * F | * eNS | * postponed |
| * C1-202173 | * Updating requirements of NSSAA for roaming scenerios | * China Mobile | * 24.501 | * 2059 | * - | * Rel-16 | * C | * eNS | * revised |
| * C1-202628 | * Updating requirements of NSSAA for roaming scenerios | * China Mobile | * 24.501 | * 2059 | * 1 | * Rel-16 | * C | * eNS | * agreed |
| * C1-202174 | * Definition of registered SNPN | * Intel /Thomas | * 24.501 | * 2060 | * - | * Rel-16 | * F | * Vertical\_LAN | * revised |
| * C1-202609 | * Definition of registered SNPN | * Intel /Thomas | * 24.501 | * 2060 | * 1 | * Rel-16 | * F | * Vertical\_LAN | * agreed |
| * C1-202175 | * No allowed NSSAI associated with a registration area | * vivo | * 24.501 | * 2061 | * - | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202747 | * No allowed NSSAI associated with a registration area | * vivo | * 24.501 | * 2061 | * 1 | * Rel-16 | * F | * 5GProtoc16 | * withdrawn |
| * C1-202176 | * Correction of SGC | * vivo | * 24.501 | * 2062 | * - | * Rel-16 | * F | * 5G\_CIoT | * agreed |
| * C1-202177 | * Emergency PDU sesseion established after WUS negotiation | * vivo | * 24.501 | * 2063 | * - | * Rel-16 | * F | * 5G\_CIoT | * revised |
| * C1-202735 | * Emergency PDU sesseion established after WUS negotiation | * vivo | * 24.501 | * 2063 | * 1 | * Rel-16 | * F | * 5G\_CIoT | * agreed |
| * C1-202193 | * update of the counter for SNPN | * vivo | * 24.501 | * 2064 | * - | * Rel-16 | * F | * Vertical\_LAN | * agreed |
| * C1-202194 | * temporarily and permanently forbidden SNPNs lists per access type | * vivo | * 24.501 | * 2065 | * - | * Rel-16 | * F | * Vertical\_LAN | * agreed |
| * C1-202195 | * storage of counters for UE in SNPN | * vivo | * 24.501 | * 2066 | * - | * Rel-16 | * F | * Vertical\_LAN | * revised |
| * C1-202711 | * storage of counters for UE in SNPN | * vivo | * 24.501 | * 2066 | * 1 | * Rel-16 | * F | * Vertical\_LAN | * revised |
| * C1-202894 | * storage of counters for UE in SNPN | * vivo | * 24.501 | * 2066 | * 2 | * Rel-16 | * F | * Vertical\_LAN | * withdrawn |
| * C1-202895 | * storage of counters for UE in SNPN | * vivo | * 24.501 | * 2066 | * 2 | * Rel-16 | * F | * Vertical\_LAN | * agreed |
| * C1-202196 | * 5G GUTI of SNPN | * vivo | * 24.501 | * 2067 | * - | * Rel-16 | * F | * Vertical\_LAN | * revised |
| * C1-202710 | * 5G GUTI of SNPN | * vivo | * 24.501 | * 2067 | * 1 | * Rel-16 | * F | * Vertical\_LAN | * agreed |
| * C1-202197 | * 5GMM cause value #74 in an SNPN with a globally-unique SNPN identity | * vivo | * 24.501 | * 2068 | * - | * Rel-16 | * F | * Vertical\_LAN | * agreed |
| * C1-202198 | * 5GMM cause value #13 not supporting roaming for SNPN | * vivo | * 24.501 | * 2069 | * - | * Rel-16 | * F | * Vertical\_LAN | * revised |
| * C1-202712 | * 5GMM cause value #13 not supporting roaming for SNPN | * vivo | * 24.501 | * 2069 | * 1 | * Rel-16 | * F | * Vertical\_LAN | * revised |
| * C1-202869 | * 5GMM cause value #13 not supporting roaming for SNPN | * vivo | * 24.501 | * 2069 | * 2 | * Rel-16 | * F | * Vertical\_LAN | * agreed |
| * C1-202199 | * Clarification of the cause of start of T3550 | * vivo | * 24.501 | * 2070 | * - | * Rel-16 | * F | * Vertical\_LAN | * agreed |
| * C1-202200 | * storage of counters for UE in PLMN | * vivo | * 24.501 | * 2071 | * - | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202713 | * storage of counters for UE in PLMN | * vivo | * 24.501 | * 2071 | * 1 | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202897 | * storage of counters for UE in PLMN | * vivo | * 24.501 | * 2071 | * 2 | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202201 | * Clarification of the figure of registration procedure | * vivo | * 24.501 | * 2072 | * - | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202202 | * subclause of Negotiated WUS assistance information | * vivo | * 24.501 | * 2073 | * - | * Rel-16 | * F | * 5G\_CIoT | * merged |
| * C1-202218 | * Editorial corrections | * Ericsson / Mikael | * 24.501 | * 2074 | * - | * Rel-16 | * D | * 5GProtoc16 | * revised |
| * C1-202783 | * Editorial corrections | * Ericsson / Mikael | * 24.501 | * 2074 | * 1 | * Rel-16 | * D | * 5GProtoc16 | * agreed |
| * C1-202224 | * T3540 is not started if the Registration Accept includes a pending NSSAI | * BEIJING SAMSUNG TELECOM R&D | * 24.501 | * 2075 | * - | * Rel-16 | * F | * eNS | * agreed |
| * C1-202228 | * Possible KSI types in EPS | * Ericsson / Mikael | * 24.501 | * 2076 | * - | * Rel-16 | * F | * 5GProtoc16 | * withdrawn |
| * C1-202230 | * Generic UE configuration update trigger for registration and EC Restriction change | * Ericsson / Mikael | * 24.501 | * 2077 | * - | * Rel-16 | * C | * 5G\_CIoT | * revised |
| * C1-202892 | * Generic UE configuration update trigger for registration and EC Restriction change | * Ericsson / Mikael | * 24.501 | * 2077 | * 1 | * Rel-16 | * C | * 5G\_CIoT | * agreed |
| * C1-202233 | * RACS parameters in generic UE configuration procedure | * Ericsson / Mikael | * 24.501 | * 2078 | * - | * Rel-16 | * F | * RACS | * revised |
| * C1-202693 | * RACS parameters in generic UE configuration procedure | * Ericsson / Mikael | * 24.501 | * 2078 | * 1 | * Rel-16 | * F | * RACS | * agreed |
| * C1-202234 | * Clarify that NSSAA can occur during periodic registration or mobility updating for NB-N1 mode UEs | * BEIJING SAMSUNG TELECOM R&D | * 24.501 | * 2079 | * - | * Rel-16 | * F | * eNS | * revised |
| * C1-202678 | * Clarify that NSSAA can occur during periodic registration or mobility updating for NB-N1 mode UEs | * BEIJING SAMSUNG TELECOM R&D | * 24.501 | * 2079 | * 1 | * Rel-16 | * F | * eNS | * agreed |
| * C1-202241 | * Fixing typo related to eNS | * BEIJING SAMSUNG TELECOM R&D | * 24.501 | * 2080 | * - | * Rel-16 | * F | * eNS | * agreed |
| * C1-202243 | * All default S-NSSAI(s) require network slice-specific authentication and authorisation (solution 2B) | * Samsung Electronics Polska / Ricky | * 24.501 | * 2081 | * - | * Rel-16 | * F | * eNS | * postponed |
| * C1-202244 | * Notification over non-3GPP access when UE is deregistered over 3GPP access | * Ericsson /kaj | * 24.501 | * 2082 | * - | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202921 | * Notification over non-3GPP access when UE is deregistered over 3GPP access | * Ericsson /kaj | * 24.501 | * 2082 | * 1 | * Rel-16 | * F | * 5GProtoc16 | * postponed |
| * C1-202246 | * S-NSSAI in rejected NSSAI for the failed or revoked NSSAA not to be requested | * Ericsson /kaj | * 24.501 | * 2083 | * - | * Rel-16 | * F | * eNS | * withdrawn |
| * C1-202248 | * Alignment of UE actions of rejected NSSAI for the failed or revoked NSSAA | * Ericsson /kaj | * 24.501 | * 2084 | * - | * Rel-16 | * F | * eNS | * revised |
| * C1-202825 | * Alignment of UE actions of rejected NSSAI for the failed or revoked NSSAA | * Ericsson /kaj | * 24.501 | * 2084 | * 1 | * Rel-16 | * F | * eNS | * agreed |
| * C1-202249 | * Protection of Allowed CAG list against man in middle attack | * Huawei, HiSilicon / Vishnu | * 24.501 | * 2085 | * - | * Rel-16 | * C | * Vertical\_LAN | * postponed |
| * C1-202252 | * S-NSSAIs always selected from allowed NSSAI by AMF | * Ericsson /kaj | * 24.501 | * 2086 | * - | * Rel-16 | * F | * 5GProtoc16, eNS | * postponed |
| * C1-202253 | * Provision of CAG information list in reject messages | * Huawei, HiSilicon/ Vishnu | * 24.501 | * 2087 | * - | * Rel-16 | * C | * Vertical\_LAN | * revised |
| * C1-202886 | * Provision of CAG information list in reject messages | * Huawei, HiSilicon, InterDigital, Samsung, Ericsson | * 24.501 | * 2087 | * 1 | * Rel-16 | * C | * Vertical\_LAN | * agreed |
| * C1-202255 | * No available S-NSSAIs and emergency PDU session at handover | * Ericsson /kaj | * 24.501 | * 2088 | * - | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202843 | * No available S-NSSAIs and emergency PDU session at handover | * Ericsson /kaj | * 24.501 | * 2088 | * 1 | * Rel-16 | * F | * 5GProtoc16 | * postponed |
| * C1-202257 | * Exception to initiate the service request procedure during NSSAA when there is no allowed NSSAI | * BEIJING SAMSUNG TELECOM R&D | * 24.501 | * 2089 | * - | * Rel-16 | * F | * eNS | * revised |
| * C1-202827 | * Exception to initiate the service request procedure during NSSAA when there is no allowed NSSAI | * BEIJING SAMSUNG TELECOM R&D | * 24.501 | * 2089 | * 1 | * Rel-16 | * F | * eNS | * agreed |
| * C1-202259 | * NSSAA for UEs that roam across 5GS VPLMNs | * BEIJING SAMSUNG TELECOM R&D | * 24.501 | * 2090 | * - | * Rel-16 | * F | * eNS | * revised |
| * C1-202669 | * NSSAA for UEs that roam across 5GS VPLMNs | * BEIJING SAMSUNG TELECOM R&D | * 24.501 | * 2090 | * 1 | * Rel-16 | * F | * eNS | * postponed |
| * C1-202261 | * Missing condition at registration reject due to no available slices | * Ericsson /kaj | * 24.501 | * 2091 | * - | * Rel-16 | * F | * eNS | * revised |
| * C1-202784 | * Missing condition at registration reject due to no available slices | * Ericsson /kaj | * 24.501 | * 2091 | * 1 | * Rel-16 | * F | * eNS | * agreed |
| * C1-202264 | * TA change during Authentication procedure in 5GMM-CONNECTED mode | * Apple | * 24.501 | * 2092 | * - | * Rel-16 | * F | * TEI16 | * revised |
| * C1-202851 | * TA change during Authentication procedure in 5GMM-CONNECTED mode | * Apple | * 24.501 | * 2092 | * 1 | * Rel-16 | * F | * TEI16 | * postponed |
| * C1-202268 | * Add handling for parameter set to “value is not used” in 5GS | * Qualcomm Incorporated | * 24.501 | * 2093 | * - | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202634 | * Add handling for parameter set to “value is not used” in 5GS | * Qualcomm Incorporated | * 24.501 | * 2093 | * 1 | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202271 | * Correct UE behavior for receiving 5GMM cause #31 in 5GS | * Qualcomm Incorporated | * 24.501 | * 2094 | * - | * Rel-16 | * F | * 5G\_CIoT | * revised |
| * C1-202676 | * Correct UE behavior for receiving 5GMM cause #31 in 5GS | * Qualcomm Incorporated | * 24.501 | * 2094 | * 1 | * Rel-16 | * F | * 5G\_CIoT | * agreed |
| * C1-202272 | * Correct parameters included by AMF during inter-system change from S1 mode to N1 mode in 5GMM-CONNECTED mode | * Qualcomm Incorporated | * 24.501 | * 2095 | * - | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202275 | * Remove invalid cases in error handling for QoS rule operation and TFT operation | * Qualcomm Incorporated | * 24.501 | * 2096 | * - | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202277 | * Add handling for UE configured to use timer T3245 in 5GS via 3GPP access | * Qualcomm Incorporated | * 24.501 | * 2097 | * - | * Rel-16 | * F | * 5GProtoc16 | * withdrawn |
| * C1-202280 | * Applicable URSP is not optional for a UE | * Motorola Mobility, Lenovo | * 24.501 | * 2098 | * - | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202615 | * Applicable URSP is not optional for a UE | * Motorola Mobility, Lenovo | * 24.501 | * 2098 | * 1 | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202282 | * Network-requested PDU session release due to failed or revoked NSSAA | * Motorola Mobility, Lenovo | * 24.501 | * 2099 | * - | * Rel-16 | * F | * eNS | * revised |
| * C1-202618 | * Network-requested PDU session release due to failed or revoked NSSAA | * Motorola Mobility, Lenovo | * 24.501 | * 2099 | * 1 | * Rel-16 | * F | * eNS | * revised |
| * C1-202918 | * Network-requested PDU session release due to failed or revoked NSSAA | * Motorola Mobility, Lenovo | * 24.501 | * 2099 | * 2 | * Rel-16 | * F | * eNS | * postponed |
| * C1-202283 | * Inclusion of NSSAI in AN Parameters for non-3GPP access | * Motorola Mobility, Lenovo | * 24.501 | * 2100 | * - | * Rel-16 | * C | * 5WWC | * revised |
| * C1-202613 | * Inclusion of NSSAI in AN Parameters for non-3GPP access | * Motorola Mobility, Lenovo | * 24.501 | * 2100 | * 1 | * Rel-16 | * C | * 5WWC | * postponed |
| * C1-202285 | * Additional QoS error handling related to mapped EBI | * Qualcomm Incorporated / Lena | * 24.501 | * 2101 | * - | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202874 | * Additional QoS error handling related to mapped EBI | * Qualcomm Incorporated / Lena | * 24.501 | * 2101 | * 1 | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202289 | * PS Data Off status report for non-3GPP access | * LG Electronics, Ericsson / SangMin | * 24.501 | * 2102 | * - | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202752 | * PS Data Off status report for non-3GPP access | * LG Electronics, Ericsson / SangMin | * 24.501 | * 2102 | * 1 | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202295 | * Unify terms network-initiated and network-requested | * Huawei, HiSilicon / Cristina | * 24.501 | * 2103 | * - | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202697 | * Unify terms network-initiated and network-requested | * Huawei, HiSilicon / Cristina | * 24.501 | * 2103 | * 1 | * Rel-16 | * D | * 5GProtoc16 | * agreed |
| * C1-202324 | * NW triggered SR over N3GPP under MM congestion control | * OPPO / Rae | * 24.501 | * 2104 | * - | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202709 | * NW triggered SR over N3GPP under MM congestion control | * OPPO / Rae | * 24.501 | * 2104 | * 1 | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202325 | * Initiate 3GPP access associated notification procedure over non-3GPP access | * Huawei, HiSilicon / Cristina | * 24.501 | * 2105 | * - | * Rel-16 | * F | * 5GProtoc16 | * withdrawn |
| * C1-202326 | * Avoid repeated redirection for NB-IoT | * OPPO / Rae | * 24.501 | * 2106 | * - | * Rel-16 | * F | * 5G\_CIoT | * revised |
| * C1-202734 | * Avoid repeated redirection for NB-IoT | * OPPO / Rae | * 24.501 | * 2106 | * 1 | * Rel-16 | * F | * 5G\_CIoT | * postponed |
| * C1-202328 | * PDU session release due to CP only revocation | * OPPO / Rae | * 24.501 | * 2107 | * - | * Rel-16 | * F | * 5G\_CIoT | * revised |
| * C1-202707 | * PDU session release due to CP only revocation | * OPPO / Rae | * 24.501 | * 2107 | * 1 | * Rel-16 | * F | * 5G\_CIoT | * revised |
| * C1-202866 | * PDU session release due to CP only revocation | * OPPO / Rae | * 24.501 | * 2107 | * 2 | * Rel-16 | * F | * 5G\_CIoT | * agreed |
| * C1-202329 | * Updating Rejeted NSSAI IE for failed NSSAA case in roaming scenerios | * China Mobile | * 24.501 | * 2108 | * - | * Rel-16 | * C | * eNS | * revised |
| * C1-202627 | * Updating Rejeted NSSAI IE for failed NSSAA case in roaming scenerios | * China Mobile | * 24.501 | * 2108 | * 1 | * Rel-16 | * C | * eNS | * agreed |
| * C1-202330 | * Abnormal case about missing EAP result for NSSAA | * China Mobile | * 24.501 | * 2109 | * - | * Rel-16 | * C | * eNS | * withdrawn |
| * C1-202331 | * Consider PDU session type IE set by UE in IP address allocation | * Huawei, HiSilicon / Cristina | * 24.501 | * 2110 | * - | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202333 | * T3540 for service request for V2X communications | * ZTE | * 24.501 | * 2111 | * - | * Rel-16 | * F | * eV2XARC | * revised |
| * C1-202780 | * T3540 for service request for V2X communications | * ZTE | * 24.501 | * 2111 | * 1 | * Rel-16 | * F | * eV2XARC | * agreed |
| * C1-202335 | * Clarification on the UE behaviour when receiving T3448 | * ZTE | * 24.501 | * 2112 | * - | * Rel-16 | * F | * 5G\_CIoT | * revised |
| * C1-202782 | * Clarification on the UE behaviour when receiving T3448 | * ZTE | * 24.501 | * 2112 | * 1 | * Rel-16 | * F | * 5G\_CIoT | * agreed |
| * C1-202336 | * Connection Resumption for Notification | * ZTE, vivo | * 24.501 | * 2113 | * - | * Rel-16 | * F | * 5G\_CIoT | * revised |
| * C1-202775 | * Connection Resumption for Notification | * ZTE, vivo | * 24.501 | * 2113 | * 1 | * Rel-16 | * F | * 5G\_CIoT | * agreed |
| * C1-202337 | * CIoT user or small data container in CPSR message not forwarded | * ZTE | * 24.501 | * 2114 | * - | * Rel-16 | * F | * 5G\_CIoT | * revised |
| * C1-202779 | * CIoT user or small data container in CPSR message not forwarded | * ZTE, InterDigital, Huawei, HiSilicon | * 24.501 | * 2114 | * 1 | * Rel-16 | * F | * 5G\_CIoT | * agreed |
| * C1-202338 | * Initial Registration after 5G-SRVCC | * ZTE | * 24.501 | * 2115 | * - | * Rel-16 | * F | * 5G\_SRVCC | * revised |
| * C1-202529 | * Initial Registration after 5G-SRVCC | * ZTE, China Unicom | * 24.501 | * 2115 | * 1 | * Rel-16 | * F | * 5G\_SRVCC | * revised |
| * C1-202638 | * Initial Registration after 5G-SRVCC | * ZTE, China Unicom | * 24.501 | * 2115 | * 2 | * Rel-16 | * F | * 5G\_SRVCC | * agreed |
| * C1-202339 | * Add MFBR as mandatory parameter in GBR QoS flow | * Huawei, HiSilicon / Cristina | * 24.501 | * 2116 | * - | * Rel-16 | * F | * 5GProtoc16 | * withdrawn |
| * C1-202341 | * Add MFBR as mandatory parameter in GBR QoS flow | * Huawei, HiSilicon / Cristina | * 24.501 | * 2117 | * - | * Rel-16 | * F | * 5GProtoc16 | * withdrawn |
| * C1-202342 | * Fixing a reference in the service request procedure | * BEIJING SAMSUNG TELECOM R&D | * 24.501 | * 2118 | * - | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202343 | * Add MFBR as mandatory parameter in GBR QoS flow | * Huawei, HiSilicon / Cristina | * 24.501 | * 2119 | * - | * Rel-16 | * F | * 5GProtoc16 | * withdrawn |
| * C1-202344 | * Add MFBR as mandatory parameter in GBR QoS flow | * Huawei, HiSilicon / Cristina | * 24.501 | * 2120 | * - | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202698 | * Add MFBR as mandatory parameter in GBR QoS flow | * Huawei, HiSilicon / Cristina | * 24.501 | * 2120 | * 1 | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202348 | * Initial registration for initiating emergency PDU session | * Huawei, HiSilicon / Cristina | * 24.501 | * 2121 | * - | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202858 | * Initial registration for initiating emergency PDU session | * Huawei, HiSilicon / Cristina | * 24.501 | * 2121 | * 1 | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202893 | * Initial registration for initiating emergency PDU session | * Huawei, HiSilicon / Cristina | * 24.501 | * 2121 | * 2 | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202349 | * Missing QoS flow description parameters for GBR QoS flows in 5GSM and ESM coordination | * Huawei, HiSilicon / Cristina | * 24.501 | * 2122 | * - | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202651 | * Missing QoS flow description parameters for GBR QoS flows in 5GSM and ESM coordination | * Huawei, HiSilicon / Cristina | * 24.501 | * 2122 | * 1 | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202861 | * Missing QoS flow description parameters for GBR QoS flows in 5GSM and ESM coordination | * Huawei, HiSilicon / Cristina | * 24.501 | * 2122 | * 2 | * Rel-16 | * F | * 5GProtoc16 | * postponed |
| * C1-202350 | * TSN working domain terminology | * Huawei, HiSilicon / Cristina | * 24.501 | * 2123 | * - | * Rel-16 | * F | * Vertical\_LAN | * postponed |
| * C1-202351 | * Re-initiation of NSSAA (solution #1) | * BEIJING SAMSUNG TELECOM R&D | * 24.501 | * 2124 | * - | * Rel-16 | * F | * eNS | * postponed |
| * C1-202352 | * Re-initiation of NSSAA (solution #2) | * BEIJING SAMSUNG TELECOM R&D | * 24.501 | * 2125 | * - | * Rel-16 | * F | * eNS | * postponed |
| * C1-202354 | * Trigger for Initial Registration procedure | * Samsung/Kundan | * 24.501 | * 2126 | * - | * Rel-16 | * F | * Vertical\_LAN | * postponed |
| * C1-202360 | * Remove SUPI in the form of NSI from stage 2(in R15) | * China Telecom / Michelle | * 24.501 | * 2127 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * postponed |
| * C1-202362 | * Sending CAG information list | * Samsung/Kundan | * 24.501 | * 2128 | * - | * Rel-16 | * F | * Vertical\_LAN | * postponed |
| * C1-202366 | * Condition for access to SNPN | * SHARP | * 24.501 | * 2129 | * - | * Rel-16 | * F | * Vertical\_LAN | * merged |
| * C1-202367 | * Correction on terminology for the Control plane CIoT 5GS optimization | * SHARP | * 24.501 | * 2130 | * - | * Rel-16 | * F | * 5G\_CIoT | * agreed |
| * C1-202368 | * Configuring UE to enable manual CAG selection procedure (24.501) | * Samsung/Kundan | * 24.501 | * 2131 | * - | * Rel-16 | * F | * Vertical\_LAN | * withdrawn |
| * C1-202369 | * Handling of PDU session and PDN connection associated with Control plane only indication in case of N26 based interworking procedures | * SHARP | * 24.501 | * 2132 | * - | * Rel-16 | * F | * 5G\_CIoT | * revised |
| * C1-202699 | * Handling of PDU session and PDN connection associated with Control plane only indication in case of N26 based interworking procedures | * SHARP | * 24.501 | * 2132 | * 1 | * Rel-16 | * F | * 5G\_CIoT | * agreed |
| * C1-202371 | * Clarification of UE behavior on receiving ATSSS support indicator | * SHARP | * 24.501 | * 2133 | * - | * Rel-16 | * B | * ATSSS | * postponed |
| * C1-202373 | * Non-integrity protected REGISTRATION REJECT message including 5GMM cause #31 or #76 | * Nokia, Nokia Shanghai Bell | * 24.501 | * 2134 | * - | * Rel-16 | * F | * Vertical\_LAN, 5G\_CIoT | * revised |
| * C1-202836 | * Non-integrity protected REGISTRATION REJECT message including 5GMM cause #31 or #76 | * Nokia, Nokia Shanghai Bell | * 24.501 | * 2134 | * 1 | * Rel-16 | * F | * Vertical\_LAN, 5G\_CIoT | * agreed |
| * C1-202374 | * NSSAA in an SNPN | * Nokia, Nokia Shanghai Bell | * 24.501 | * 2135 | * - | * Rel-16 | * F | * Vertical\_LAN, eNS | * revised |
| * C1-202833 | * NSSAA in an SNPN | * Nokia, Nokia Shanghai Bell | * 24.501 | * 2135 | * 1 | * Rel-16 | * F | * Vertical\_LAN, eNS | * agreed |
| * C1-202375 | * Initial NAS message protection on inter-system change from EPS to 5GS | * Samsung/Kundan | * 24.501 | * 2136 | * - | * Rel-16 | * F | * 5GProtoc16 | * postponed |
| * C1-202377 | * No messages without integrity protection processed after security activation | * Nokia, Nokia Shanghai Bell | * 24.501 | * 2137 | * - | * Rel-16 | * F | * 5GProtoc16 | * not pursued |
| * C1-202378 | * Clarification on the AMF behaviour after security activation in case of integrity check failure | * Nokia, Nokia Shanghai Bell | * 24.501 | * 2138 | * - | * Rel-16 | * F | * 5GProtoc16 | * postponed |
| * C1-202379 | * Discarding a SECURITY MODE COMMAND message which fails integrity check | * Nokia, Nokia Shanghai Bell | * 24.501 | * 2139 | * - | * Rel-16 | * F | * 5GProtoc16 | * postponed |
| * C1-202380 | * Initiation of ESFB by a UE in the state 5GMM-REGISTERED.ATTEMPTING-REGISTRATION-UPDATE | * Nokia, Nokia Shanghai Bell | * 24.501 | * 2140 | * - | * Rel-16 | * F | * 5GProtoc16 | * postponed |
| * C1-202381 | * No emergency session transfer after ESFB | * Nokia, Nokia Shanghai Bell | * 24.501 | * 2141 | * - | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202382 | * Indication that the emergency services fallback attempt failed | * Nokia, Nokia Shanghai Bell | * 24.501 | * 2142 | * - | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202928 | * Indication that the emergency services fallback attempt failed | * Nokia, Nokia Shanghai Bell | * 24.501 | * 2142 | * 1 | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202383 | * Clarification to NSSAA procedure | * Samsung/Kundan | * 24.501 | * 2143 | * - | * Rel-16 | * F | * eNS | * postponed |
| * C1-202385 | * Handling of Pending S-NSSAI | * Samsung/Kundan | * 24.501 | * 2144 | * - | * Rel-16 | * F | * eNS | * revised |
| * C1-202881 | * Handling of Pending S-NSSAI | * Samsung/Kundan | * 24.501 | * 2144 | * 1 | * Rel-16 | * F | * eNS | * agreed |
| * C1-202388 | * QoS error checks for UEs in NB-N1 mode | * BEIJING SAMSUNG TELECOM R&D | * 24.501 | * 2145 | * - | * Rel-16 | * F | * 5G\_CIoT | * revised |
| * C1-202614 | * QoS error checks for UEs in NB-N1 mode | * BEIJING SAMSUNG TELECOM R&D | * 24.501 | * 2145 | * 1 | * Rel-16 | * F | * 5G\_CIoT | * agreed |
| * C1-202389 | * Clarification to SNPN to SNPN selection procedure | * Samsung/Kundan | * 24.501 | * 2146 | * - | * Rel-16 | * F | * Vertical\_LAN | * withdrawn |
| * C1-202396 | * Subscription update in case of SNPN | * Intel /Thomas | * 24.501 | * 2147 | * - | * Rel-16 | * F | * Vertical\_LAN | * revised |
| * C1-202620 | * Subscription update in case of SNPN | * Intel /Thomas | * 24.501 | * 2147 | * 1 | * Rel-16 | * F | * Vertical\_LAN | * merged |
| * C1-202399 | * non-3GPP access not supported in SNPN | * Intel /Thomas | * 24.501 | * 2148 | * - | * Rel-16 | * F | * Vertical\_LAN | * revised |
| * C1-202606 | * non-3GPP access not supported in SNPN | * Intel /Thomas | * 24.501 | * 2148 | * 1 | * Rel-16 | * F | * Vertical\_LAN | * merged |
| * C1-202401 | * NB-IoT not applicable for SNPN | * Nokia, Nokia Shanghai Bell | * 24.501 | * 2149 | * - | * Rel-16 | * F | * Vertical\_LAN, 5G\_CIoT | * revised |
| * C1-202853 | * NB-IoT not applicable for SNPN | * Nokia, Nokia Shanghai Bell | * 24.501 | * 2149 | * 1 | * Rel-16 | * F | * Vertical\_LAN, 5G\_CIoT | * agreed |
| * C1-202404 | * Retransmission of a CPSR message after integrity check failure at the AMF | * BEIJING SAMSUNG TELECOM R&D | * 24.501 | * 2150 | * - | * Rel-16 | * F | * 5G\_CIoT | * revised |
| * C1-202626 | * Retransmission of a CPSR message after integrity check failure at the AMF | * BEIJING SAMSUNG TELECOM R&D | * 24.501 | * 2150 | * 1 | * Rel-16 | * F | * 5G\_CIoT | * agreed |
| * C1-202406 | * Handling of a UE not allowed to access SNPN services via a PLMN by subscription with 5GMM cause value #72 | * Nokia, Nokia Shanghai Bell | * 24.501 | * 2151 | * - | * Rel-16 | * B | * Vertical\_LAN | * agreed |
| * C1-202408 | * Miscellaneous clean-up for SNPN | * Nokia, Nokia Shanghai Bell | * 24.501 | * 2152 | * - | * Rel-16 | * F | * Vertical\_LAN | * revised |
| * C1-202923 | * Miscellaneous clean-up for SNPN | * Nokia, Nokia Shanghai Bell | * 24.501 | * 2152 | * 1 | * Rel-16 | * F | * Vertical\_LAN | * agreed |
| * C1-202409 | * Service area restrictions in an SNPN | * Nokia, Nokia Shanghai Bell | * 24.501 | * 2153 | * - | * Rel-16 | * F | * Vertical\_LAN | * revised |
| * C1-202664 | * Service area restrictions in an SNPN | * Nokia, Nokia Shanghai Bell, Ericsson | * 24.501 | * 2153 | * 1 | * Rel-16 | * F | * Vertical\_LAN | * revised |
| * C1-202920 | * Service area restrictions in an SNPN | * Nokia, Nokia Shanghai Bell, Ericsson | * 24.501 | * 2153 | * 2 | * Rel-16 | * F | * Vertical\_LAN | * agreed |
| * C1-202410 | * MICO in an SNPN | * Nokia, Nokia Shanghai Bell | * 24.501 | * 2154 | * - | * Rel-16 | * F | * Vertical\_LAN | * revised |
| * C1-202852 | * MICO in an SNPN | * Nokia, Nokia Shanghai Bell | * 24.501 | * 2154 | * 1 | * Rel-16 | * D | * 5GProtoc16 | * agreed |
| * C1-202411 | * 5GMM CC in an SNPN | * Nokia, Nokia Shanghai Bell | * 24.501 | * 2155 | * - | * Rel-16 | * F | * Vertical\_LAN | * not pursued |
| * C1-202412 | * 5GSM back-off mechanisms in an SNPN | * Nokia, Nokia Shanghai Bell | * 24.501 | * 2156 | * - | * Rel-16 | * F | * Vertical\_LAN | * revised |
| * C1-202915 | * 5GSM back-off mechanisms in an SNPN | * Nokia, Nokia Shanghai Bell | * 24.501 | * 2156 | * 1 | * Rel-16 | * F | * Vertical\_LAN | * agreed |
| * C1-202413 | * UE in the 5GMM-REGISTERED.ATTEMPTING-REGISTRATION-UPDATE substate operating in SNPN access mode | * Nokia, Nokia Shanghai Bell | * 24.501 | * 2157 | * - | * Rel-16 | * F | * Vertical\_LAN | * revised |
| * C1-202854 | * UE in the 5GMM-REGISTERED.ATTEMPTING-REGISTRATION-UPDATE substate operating in SNPN access mode | * Nokia, Nokia Shanghai Bell | * 24.501 | * 2157 | * 1 | * Rel-16 | * F | * Vertical\_LAN | * agreed |
| * C1-202414 | * Routing indicator update in an SNPN | * Nokia, Nokia Shanghai Bell | * 24.501 | * 2158 | * - | * Rel-16 | * F | * Vertical\_LAN | * revised |
| * C1-202856 | * Routing indicator update in an SNPN | * Nokia, Nokia Shanghai Bell | * 24.501 | * 2158 | * 1 | * Rel-16 | * F | * Vertical\_LAN | * agreed |
| * C1-202415 | * 3GPP PS data off in an SNPN | * Nokia, Nokia Shanghai Bell | * 24.501 | * 2159 | * - | * Rel-16 | * F | * Vertical\_LAN | * revised |
| * C1-202857 | * 3GPP PS data off in an SNPN | * Nokia, Nokia Shanghai Bell | * 24.501 | * 2159 | * 1 | * Rel-16 | * F | * Vertical\_LAN | * agreed |
| * C1-202417 | * Handling of correction to UE configuration update procedure conditions for re-registration | * LG Electronics France | * 24.501 | * 2160 | * - | * Rel-16 | * F | * 5GProtoc16 | * withdrawn |
| * C1-202418 | * Correction to conditions for including the S-NSSAI(s) from default NSSAI in the requested NSSAI | * Qualcomm Incorporated / Amer | * 24.501 | * 2161 | * - | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202419 | * Corrections to CR#1907 | * Qualcomm Incorporated / Amer | * 24.501 | * 2162 | * - | * Rel-16 | * F | * 5G\_CIoT | * agreed |
| * C1-202420 | * Definition of current PLMN and serving PLMN | * Qualcomm Incorporated / Amer | * 24.501 | * 2163 | * - | * Rel-16 | * F | * 5GProtoc16 | * postponed |
| * C1-202423 | * Signalling of EPS APN rate control parameters during PDU session establishment | * Qualcomm Incorporated / Amer | * 24.501 | * 2164 | * - | * Rel-16 | * B | * 5G\_CIoT | * revised |
| * C1-202880 | * Signalling of EPS APN rate control parameters during PDU session establishment | * Qualcomm Incorporated / Amer | * 24.501 | * 2164 | * 1 | * Rel-16 | * B | * 5G\_CIoT | * agreed |
| * C1-202425 | * Ethernet header compression for CP CIoT – 5GMM aspects | * Qualcomm Incorporated / Amer | * 24.501 | * 2165 | * - | * Rel-16 | * B | * 5G\_CIoT | * revised |
| * C1-202882 | * Ethernet header compression for CP CIoT – 5GMM aspects | * Qualcomm Incorporated / Amer | * 24.501 | * 2165 | * 1 | * Rel-16 | * B | * 5G\_CIoT | * agreed |
| * C1-202426 | * Ethernet header compression for CP CIoT – 5GSM aspects | * Qualcomm Incorporated / Amer | * 24.501 | * 2166 | * - | * Rel-16 | * B | * 5G\_CIoT | * revised |
| * C1-202888 | * Ethernet header compression for CP CIoT – 5GSM aspects | * Qualcomm Incorporated / Amer | * 24.501 | * 2166 | * 1 | * Rel-16 | * B | * 5G\_CIoT | * postponed |
| * C1-202428 | * correction to network selection in case of multiple subscribed SNPNs | * Intel /Thomas | * 24.501 | * 2167 | * - | * Rel-16 | * F | * Vertical\_LAN | * withdrawn |
| * C1-202430 | * Release PDU sessions due to revocation from AAA server , re-auth failure | * LG Electronics France | * 24.501 | * 2168 | * - | * Rel-16 | * F | * eNS | * postponed |
| * C1-202431 | * Editorial fix in 9.11.4 | * Apple | * 24.501 | * 2169 | * - | * Rel-16 | * D | * ATSSS | * revised |
| * C1-202650 | * Editorial fix in 9.11.4 | * Apple | * 24.501 | * 2169 | * 1 | * Rel-16 | * D | * ATSSS | * agreed |
| * C1-202435 | * TSN working domain | * Nokia, Nokia Shanghai Bell | * 24.501 | * 2170 | * - | * Rel-16 | * F | * Vertical\_LAN | * postponed |
| * C1-202437 | * Condition for setting the Selected EPS NAS algorithm IE to NULL | * BEIJING SAMSUNG TELECOM R&D | * 24.501 | * 2171 | * - | * Rel-16 | * F | * 5GProtoc16 | * postponed |
| * C1-202461 | * Routing failure handling of CPSR | * Huawei, HiSilicon, China Mobile/Lin | * 24.501 | * 2172 | * - | * Rel-16 | * F | * 5G\_CIoT | * merged |
| * C1-202462 | * Acknowledgement of truncated 5G-S-TMSI configuration | * Huawei, HiSilicon/Lin | * 24.501 | * 2173 | * - | * Rel-16 | * F | * 5G\_CIoT | * agreed |
| * C1-202463 | * NAS-MAC calculation for RRC connection reestablishment for NB-IoT CP optimisation | * Huawei, HiSilicon/Lin | * 24.501 | * 2174 | * - | * Rel-16 | * F | * 5G\_CIoT | * agreed |
| * C1-202464 | * Removal of Editor’s Note for CP congestion control | * Huawei, HiSilicon/Lin | * 24.501 | * 2175 | * - | * Rel-16 | * F | * 5G\_CIoT | * agreed |
| * C1-202465 | * Correction on WUS assistance | * Huawei, HiSilicon/Lin | * 24.501 | * 2176 | * - | * Rel-16 | * F | * 5G\_CIoT | * revised |
| * C1-202796 | * Correction on WUS assistance | * Huawei, HiSilicon/Lin | * 24.501 | * 2176 | * 1 | * Rel-16 | * F | * 5G\_CIoT | * agreed |
| * C1-202469 | * Non-3GPP access for PLMN and SNPN | * Huawei, HiSilicon/Lin | * 24.501 | * 2177 | * - | * Rel-16 | * F | * Vertical\_LAN | * revised |
| * C1-202799 | * Non-3GPP access for PLMN and SNPN | * Huawei, HiSilicon/Lin | * 24.501 | * 2177 | * 1 | * Rel-16 | * F | * Vertical\_LAN | * agreed |
| * C1-202470 | * No CAG in non-3GPP access | * Huawei, HiSilicon/Lin | * 24.501 | * 2178 | * - | * Rel-16 | * F | * Vertical\_LAN | * agreed |
| * C1-202471 | * Correction on 5GMM #27 for CAG | * Huawei, HiSilicon/Lin | * 24.501 | * 2179 | * - | * Rel-16 | * F | * Vertical\_LAN | * agreed |
| * C1-202473 | * Inclusion of pending S-NSSAI(s) in the requested NSSAI | * Huawei, HiSilicon, China Telecom/Lin | * 24.501 | * 2180 | * - | * Rel-16 | * F | * eNS | * revised |
| * C1-202800 | * Inclusion of pending S-NSSAI(s) in the requested NSSAI | * Huawei, HiSilicon, China Telecom/Lin | * 24.501 | * 2180 | * 1 | * Rel-16 | * F | * eNS | * revised |
| * C1-202871 | * Clarification on handling of pending NSSAI | * Huawei, HiSilicon, China Telecom/Lin | * 24.501 | * 2180 | * 2 | * Rel-16 | * F | * eNS | * agreed |
| * C1-202475 | * Term on rejected NSSAI for the failed or revoked NSSAA | * Huawei, HiSilicon/Lin | * 24.501 | * 2181 | * - | * Rel-16 | * F | * eNS | * agreed |
| * C1-202478 | * Single-registration mode without N26 | * Huawei, HiSilicon/Lin | * 24.501 | * 2182 | * - | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202802 | * Single-registration mode without N26 | * Huawei, HiSilicon/Lin | * 24.501 | * 2182 | * 1 | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202492 | * Handling of unallowed SSC mode | * OPPO / Rae | * 24.501 | * 2183 | * - | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202706 | * Handling of unallowed SSC mode | * OPPO / Rae | * 24.501 | * 2183 | * 1 | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202501 | * UAC exception for emergency | * MediaTek Inc. / Marko | * 24.501 | * 2184 | * - | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202680 | * UAC exception for emergency | * MediaTek Inc. / Marko | * 24.501 | * 2184 | * 1 | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202503 | * MRU after SR for ESFB aborted | * MediaTek Inc. / Marko | * 24.501 | * 2185 | * - | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202682 | * MRU after SR for ESFB aborted | * MediaTek Inc. / Marko | * 24.501 | * 2185 | * 1 | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202504 | * MRU failed due to RRC signalling connection release in restricted service area | * MediaTek Inc. / Marko | * 24.501 | * 2186 | * - | * Rel-16 | * F | * 5GProtoc16 | * postponed |
| * C1-202505 | * Correction to criteria to enter 5GMM-REGISTERED.UPDATE-NEEDED substate after resumption failure | * MediaTek Inc. / Marko | * 24.501 | * 2187 | * - | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202683 | * Correction to criteria to enter 5GMM-REGISTERED.UPDATE-NEEDED substate after resumption failure | * MediaTek Inc. / Marko | * 24.501 | * 2187 | * 1 | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202506 | * 5GS forbidden tracking areas for roaming for SNPN | * MediaTek Inc. / Marko | * 24.501 | * 2188 | * - | * Rel-16 | * F | * Vertical\_LAN | * postponed |
| * C1-202507 | * Registration at PLMN change at PLMN-SEARCH substate | * MediaTek Inc. / Marko | * 24.501 | * 2189 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * postponed |
| * C1-202508 | * T3346 handling when the UE is registered to different PLMNs over 3GPP and non-3GPP | * MediaTek Inc. / Marko | * 24.501 | * 2190 | * - | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202684 | * T3346 handling when the UE is registered to different PLMNs over 3GPP and non-3GPP | * MediaTek Inc. / Marko | * 24.501 | * 2190 | * 1 | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202509 | * Correction to 5G-GUTI handling when received at REGISTRATION ACCEPT | * MediaTek Inc. / Marko | * 24.501 | * 2191 | * - | * Rel-16 | * F | * 5GProtoc16 | * postponed |
| * C1-202510 | * Correcting that 5G NAS integrity key is one of the input parameters for integrity protection algorithm | * MediaTek Inc. / Marko | * 24.501 | * 2192 | * - | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202514 | * Correction to Handling of T3521 timer | * MediaTek Inc. / Marko | * 24.501 | * 2193 | * - | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202687 | * Correction to Handling of T3521 timer | * MediaTek Inc. / Marko | * 24.501 | * 2193 | * 1 | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202518 | * Correction to Handling of #31 | * MediaTek Inc. / Marko | * 24.501 | * 2194 | * - | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202521 | * Correction to handling of T3447 timer | * MediaTek Inc. / Marko | * 24.501 | * 2195 | * - | * Rel-16 | * F | * 5G\_CIoT | * revised |
| * C1-202692 | * Correction to handling of T3447 timer | * MediaTek Inc. / Marko | * 24.501 | * 2195 | * 1 | * Rel-16 | * F | * 5G\_CIoT | * agreed |
| * C1-202522 | * Correct "theregistration" | * MediaTek Inc. / Marko | * 24.501 | * 2196 | * - | * Rel-16 | * D | * Vertical\_LAN | * agreed |
| * C1-202523 | * De-registration before initial registration for Emergency Services | * MediaTek Inc. / Marko | * 24.501 | * 2197 | * - | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202524 | * Handling of allowed NSSAI when the RA includes the TAI belonging to EPLMN | * SHARP | * 24.501 | * 2198 | * - | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202889 | * Handling of allowed NSSAI when the RA includes the TAI belonging to EPLMN | * SHARP | * 24.501 | * 2198 | * 1 | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202525 | * Handling of rejected NSSAI for the current RA when the RA includes the TAI belonging to EPLMN | * SHARP | * 24.501 | * 2199 | * - | * Rel-16 | * F | * 5GProtoc16 | * withdrawn |
| * C1-202526 | * Corrections on NSSAI storage | * Huawei, HiSilicon / Vishnu | * 24.501 | * 2200 | * - | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202527 | * UE initiating service request over non-3GPP access after stopping T3346 | * SHARP | * 24.501 | * 2201 | * - | * Rel-16 | * F | * 5GProtoc16 | * merged |
| * C1-202528 | * UE behaviour when the UE receives the rejected NSSAI for the current RA in the registration reject message and the RA is not stored | * SHARP | * 24.501 | * 2202 | * - | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202696 | * UE behaviour when the UE receives the rejected NSSAI for the current RA in the registration reject message and the RA is not stored | * SHARP | * 24.501 | * 2202 | * 1 | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202531 | * Handlings of MA PDU session when deregistration from an access | * MediaTek Inc. / JJ | * 24.501 | * 2203 | * - | * Rel-16 | * B | * ATSSS | * revised |
| * C1-202816 | * Handlings of MA PDU session when deregistration from an access | * MediaTek Inc. / JJ | * 24.501 | * 2203 | * 1 | * Rel-16 | * B | * ATSSS | * agreed |
| * C1-202535 | * Indicate support of ePCO length of two octets parameter when establishing the PDU session – Alt#2 | * MediaTek Inc. / JJ | * 24.501 | * 2204 | * - | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202538 | * Addition of 5GSM cause #59 | * MediaTek Inc. / JJ | * 24.501 | * 2205 | * - | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202821 | * Addition of 5GSM cause #59 | * MediaTek Inc. / JJ | * 24.501 | * 2205 | * 1 | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202543 | * Clarification to NW slice-specific re-authentication and re-authorization | * Ericsson /kaj | * 24.501 | * 2206 | * - | * Rel-16 | * F | * eNS | * postponed |
| * C1-202571 | * EAP details for N5GC | * Nokia, Nokia Shanghai Bell | * 24.501 | * 2207 | * - | * Rel-16 | * B | * 5WWC | * withdrawn |
| * C1-202573 | * withdrawn | * Nokia, Nokia Shanghai Bell | * 24.501 | * 2208 | * - | * Rel-16 | * B | * 5WWC | * withdrawn |
| * C1-202576 | * Minor clarification for ATSSS-LL support | * Nokia, Nokia Shanghai Bell | * 24.501 | * 2209 | * - | * Rel-16 | * F | * ATSSS | * withdrawn |
| * C1-202581 | * Handling of PDU session authentication | * Samsung / Kyungjoo Grace Suh | * 24.501 | * 2210 | * - | * Rel-16 | * F | * SINE\_5G | * postponed |
| * C1-202583 | * Security handling | * Samsung/ Kyungjo Grace Suh | * 24.501 | * 2211 | * - | * Rel-16 | * F | * 5GProtoc16 | * withdrawn |
| * C1-202587 | * Update Handing EAP Result for NSSAA | * China Mobile | * 24.501 | * 2212 | * - | * Rel-16 | * F | * eNS | * withdrawn |
| * C1-202592 | * Service reject for emergency EPS fallback | * Huawei, HiSilicon/Lin | * 24.501 | * 2213 | * - | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202805 | * Service reject for emergency EPS fallback | * Huawei, HiSilicon/Lin | * 24.501 | * 2213 | * 1 | * Rel-16 | * F | * 5GProtoc16 | * postponed |
| * C1-202593 | * Handling of mapped EPS bearer contexts | * Huawei, HiSilicon/Lin | * 24.501 | * 2214 | * - | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202806 | * Handling of mapped EPS bearer contexts | * Huawei, HiSilicon/Lin | * 24.501 | * 2214 | * 1 | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202594 | * Integrity check interworking in 5GMM-CONNECTED mode | * Huawei, HiSilicon/Lin | * 24.501 | * 2215 | * - | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202807 | * Integrity check interworking in 5GMM-CONNECTED mode | * Huawei, HiSilicon/Lin | * 24.501 | * 2215 | * 1 | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202595 | * Correction on LADN DNN based congestion control | * Huawei, HiSilicon/Lin | * 24.501 | * 2216 | * - | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202808 | * Correction on LADN DNN based congestion control | * Huawei, HiSilicon/Lin | * 24.501 | * 2216 | * 1 | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202092 | * Correct N3AN node selection due to LI | * BlackBerry Uk Ltd. | * 24.502 | * 0119 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * revised |
| * C1-202672 | * Correct N3AN node selection due to LI | * BlackBerry Uk Ltd. | * 24.502 | * 0119 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-CT | * revised |
| * C1-202831 | * Correct N3AN node selection due to LI | * BlackBerry Uk Ltd. | * 24.502 | * 0119 | * 2 | * Rel-15 | * F | * 5GS\_Ph1-CT | * postponed |
| * C1-202093 | * Correct N3AN node selection due to LI | * BlackBerry Uk Ltd. | * 24.502 | * 0120 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * revised |
| * C1-202673 | * Correct N3AN node selection due to LI | * BlackBerry Uk Ltd. | * 24.502 | * 0120 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-CT | * revised |
| * C1-202832 | * Correct N3AN node selection due to LI | * BlackBerry Uk Ltd. | * 24.502 | * 0120 | * 2 | * Rel-16 | * A | * 5GS\_Ph1-CT | * postponed |
| * C1-202279 | * Add handling for UE configured to use timer T3245 in 5GS for non-3GPP access | * Qualcomm Incorporated | * 24.502 | * 0121 | * - | * Rel-16 | * F | * 5GProtoc16-non3GPP | * agreed |
| * C1-202284 | * Inclusion of requested NSSAI in AN parameters | * Motorola Mobility, Lenovo | * 24.502 | * 0122 | * - | * Rel-16 | * F | * 5WWC | * revised |
| * C1-202612 | * Inclusion of requested NSSAI in AN parameters | * Motorola Mobility, Lenovo | * 24.502 | * 0122 | * 1 | * Rel-16 | * F | * 5WWC | * agreed |
| * C1-202290 | * Removal of editor’s notes | * Motorola Mobility, Lenovo | * 24.502 | * 0123 | * - | * Rel-16 | * F | * 5WWC | * revised |
| * C1-202636 | * Removal of editor’s notes | * Motorola Mobility, Lenovo | * 24.502 | * 0123 | * 1 | * Rel-16 | * F | * 5WWC | * agreed |
| * C1-202291 | * Remove USE\_TRANSPORT\_MODE in response | * ZTE / Joy | * 24.502 | * 0124 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * revised |
| * C1-202786 | * Remove USE\_TRANSPORT\_MODE in response | * ZTE / Joy | * 24.502 | * 0124 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C1-202292 | * Remove USE\_TRANSPORT\_MODE in response | * ZTE / Joy | * 24.502 | * 0125 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * revised |
| * C1-202787 | * Remove USE\_TRANSPORT\_MODE in response | * ZTE / Joy | * 24.502 | * 0125 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C1-202293 | * Error type on failure of reserving QoS resources over non-3GPP access | * ZTE / Joy | * 24.502 | * 0126 | * - | * Rel-16 | * B | * 5WWC | * revised |
| * C1-202653 | * Error type on failure of reserving QoS resources over non-3GPP access | * ZTE / Joy | * 24.502 | * 0126 | * 1 | * Rel-16 | * B | * 5WWC | * agreed |
| * C1-202361 | * Remove SUPI in the form of NSI from stage 2(in R15) | * China Telecommunications | * 24.502 | * 0127 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * postponed |
| * C1-202572 | * Corrections on N5GC SUPI SUCI | * Nokia, Nokia Shanghai Bell | * 24.502 | * 0128 | * - | * Rel-16 | * B | * 5WWC | * withdrawn |
| * C1-202574 | * withdrawn | * Nokia, Nokia Shanghai Bell | * 24.502 | * 0129 | * - | * Rel-16 | * B | * 5WWC | * withdrawn |
| * C1-202579 | * Extending congestion notification to capture N3IWF or TNGF overload | * Nokia, Nokia Shanghai Bell, Charter Communications | * 24.502 | * 0130 | * - | * Rel-16 | * F | * 5GProtoc16-non3GPP | * revised |
| * C1-202903 | * Extending congestion notification to capture N3IWF or TNGF overload | * Nokia, Nokia Shanghai Bell, Charter Communications | * 24.502 | * 0130 | * 1 | * Rel-16 | * F | * 5GProtoc16-non3GPP | * agreed |
| * C1-202580 | * Enable N3IWF to initiate TCP connection establishment upon failure | * Nokia, Nokia Shanghai Bell | * 24.502 | * 0131 | * - | * Rel-16 | * F | * 5GProtoc16-non3GPP | * revised |
| * C1-202901 | * Enable N3IWF to initiate TCP connection establishment upon failure | * Nokia, Nokia Shanghai Bell | * 24.502 | * 0131 | * 1 | * Rel-16 | * F | * 5GProtoc16-non3GPP | * agreed |
| * C1-202191 | * Correction of the abnormal case in NW-TT-initiated Ethernet port management procedure | * vivo | * 24.519 | * 0001 | * - | * Rel-16 | * F | * Vertical\_LAN | * revised |
| * C1-202714 | * Correction of the abnormal case in NW-TT-initiated Ethernet port management procedure | * vivo | * 24.519 | * 0001 | * 1 | * Rel-16 | * F | * Vertical\_LAN | * agreed |
| * C1-202192 | * Abbreviation correction | * vivo | * 24.519 | * 0002 | * - | * Rel-16 | * D | * Vertical\_LAN | * agreed |
| * C1-202429 | * IEEE Std 802.1Qbv-2016 rolled into IEEE Std 802.1Q-2018 | * Nokia, Nokia Shanghai Bell | * 24.519 | * 0003 | * - | * Rel-16 | * F | * Vertical\_LAN | * agreed |
| * C1-202541 | * Correction to the URSP coding | * MediaTek Inc., ZTE / JJ | * 24.526 | * 0068 | * 2 | * Rel-16 | * F | * 5GProtoc16 | * postponed |
| * C1-202071 | * Reference correction in URSP encoding | * Orange / Mariusz | * 24.526 | * 0071 | * - | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202110 | * Adding Unstructured type(non-IP) to encoding of UE policy part type URSP | * China Telecom Corporation Ltd. | * 24.526 | * 0072 | * - | * Rel-16 | * F | * 5GProtoc16, 5GProtoc16 | * postponed |
| * C1-202144 | * Clarification on URSP in EPS | * ZTE / Joy | * 24.526 | * 0073 | * - | * Rel-16 | * F | * 5GProtoc16, xBDT | * revised |
| * C1-202652 | * Clarification on URSP in EPS | * ZTE / Joy | * 24.526 | * 0073 | * 1 | * Rel-16 | * F | * 5GProtoc16, xBDT | * agreed |
| * C1-202227 | * Adding Unstructured type(non-IP) to encoding of UE policy part type URSP(R15) | * China Telecom Corporation Ltd. | * 24.526 | * 0074 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * postponed |
| * C1-202491 | * Allowed SSC mode for association between an application and a PDU session | * OPPO / Rae | * 24.526 | * 0075 | * - | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202705 | * Allowed SSC mode for association between an application and a PDU session | * OPPO / Rae | * 24.526 | * 0075 | * 1 | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202353 | * TSN working domain terminology | * Huawei, HiSilicon / Cristina | * 24.535 | * 0001 | * - | * Rel-16 | * F | * Vertical\_LAN | * merged |
| * C1-202433 | * TSN working domain | * Nokia, Nokia Shanghai Bell | * 24.535 | * 0002 | * - | * Rel-16 | * F | * Vertical\_LAN | * revised |
| * C1-202860 | * TSN working domain | * Nokia, Nokia Shanghai Bell | * 24.535 | * 0002 | * 1 | * Rel-16 | * F | * Vertical\_LAN | * agreed |
| * C1-202447 | * SIP based subscribe/notify procedures for SEAL group management | * Samsung / Sapan | * 24.544 | * 0001 | * - | * Rel-16 | * B | * SEAL | * agreed |
| * C1-202448 | * Removal of Editor’s notes | * Samsung / Sapan | * 24.544 | * 0002 | * - | * Rel-16 | * F | * SEAL | * revised |
| * C1-202809 | * Removal of Editor’s notes | * Samsung / Sapan | * 24.544 | * 0002 | * 1 | * Rel-16 | * F | * SEAL | * agreed |
| * C1-202449 | * Indication from SGM-S to SGM-C about group join required | * Samsung / Sapan | * 24.544 | * 0003 | * - | * Rel-16 | * F | * SEAL | * agreed |
| * C1-202319 | * IANA registration template of SEAL location management | * Huawei, HiSilicon / Chen | * 24.545 | * 0001 | * - | * Rel-16 | * B | * SEAL | * agreed |
| * C1-202320 | * Removal of editor’s note on MIME types | * Huawei, HiSilicon / Chen | * 24.545 | * 0002 | * - | * Rel-16 | * F | * SEAL | * agreed |
| * C1-202321 | * Resolution of editor's note on application unique ID | * Huawei, HiSilicon / Chen | * 24.545 | * 0003 | * - | * Rel-16 | * B | * SEAL | * agreed |
| * C1-202322 | * Structure and data semantics for query list of users based on location procedure | * Huawei, HiSilicon / Chen | * 24.545 | * 0004 | * - | * Rel-16 | * B | * SEAL | * agreed |
| * C1-202323 | * XML scheme declaration for SEAL location management | * Huawei, HiSilicon / Chen | * 24.545 | * 0005 | * - | * Rel-16 | * B | * SEAL | * revised |
| * C1-202733 | * XML scheme declaration for SEAL location management | * Huawei, HiSilicon / Chen | * 24.545 | * 0005 | * 1 | * Rel-16 | * B | * SEAL | * agreed |
| * C1-202440 | * Create SIP based subscription for SLM | * Samsung, Huawei, HiSilicon / Sapan | * 24.545 | * 0006 | * - | * Rel-16 | * B | * SEAL | * postponed |
| * C1-202441 | * Modify SIP based subscription for SLM | * Samsung / Sapan | * 24.545 | * 0007 | * - | * Rel-16 | * B | * SEAL | * postponed |
| * C1-202442 | * Delete SIP based subscription for SLM | * Samsung / Sapan | * 24.545 | * 0008 | * - | * Rel-16 | * B | * SEAL | * postponed |
| * C1-202443 | * Handling of abnormal cases for SIP based subscription in SLM | * Samsung / Sapan | * 24.545 | * 0009 | * - | * Rel-16 | * B | * SEAL | * postponed |
| * C1-202444 | * Message Formats for location management subscription | * Samsung / Sapan | * 24.545 | * 0010 | * - | * Rel-16 | * B | * SEAL | * postponed |
| * C1-202445 | * Timers used in location management | * Samsung / Sapan | * 24.545 | * 0011 | * - | * Rel-16 | * B | * SEAL | * postponed |
| * C1-202446 | * Annex for registering ICSI and MIME for SLM | * Samsung / Sapan | * 24.545 | * 0012 | * - | * Rel-16 | * B | * SEAL | * postponed |
| * C1-202450 | * SIP based subscribe/notify procedures for configuration management | * Samsung / Sapan | * 24.546 | * 0001 | * - | * Rel-16 | * B | * SEAL | * agreed |
| * C1-202451 | * Removal of Editor’s notes. | * Samsung / Sapan | * 24.546 | * 0002 | * - | * Rel-16 | * F | * SEAL | * revised |
| * C1-202810 | * Removal of Editor’s notes. | * Samsung / Sapan | * 24.546 | * 0002 | * 1 | * Rel-16 | * F | * SEAL | * agreed |
| * C1-202137 | * Updates to User Authentication Client (SIM-C) procedure | * Intel / Vivek | * 24.547 | * 0001 | * - | * Rel-16 | * F | * SEAL | * agreed |
| * C1-202138 | * Updates to User Authentication Server (SIM-S) procedure | * Intel / Vivek | * 24.547 | * 0002 | * - | * Rel-16 | * F | * SEAL | * agreed |
| * C1-202139 | * Updates to Token Exchange Client (SIM-C) procedure | * Intel / Vivek | * 24.547 | * 0003 | * - | * Rel-16 | * F | * SEAL | * revised |
| * C1-202828 | * Updates to Token Exchange Client (SIM-C) procedure | * Intel / Vivek | * 24.547 | * 0003 | * 1 | * Rel-16 | * F | * SEAL | * agreed |
| * C1-202140 | * Updates to Token Exchange Server (SIM-S) procedure | * Intel / Vivek | * 24.547 | * 0004 | * - | * Rel-16 | * F | * SEAL | * revised |
| * C1-202829 | * Updates to Token Exchange Server (SIM-S) procedure | * Intel / Vivek | * 24.547 | * 0004 | * 1 | * Rel-16 | * F | * SEAL | * agreed |
| * C1-202548 | * Adding Location Privacy Setting operation | * CATT | * 24.571 | * 0001 | * - | * Rel-16 | * B | * 5G\_eLCS | * agreed |
| * C1-202022 | * Incorrect reference | * Ericsson / Ivo | * 24.587 | * 0001 | * - | * Rel-16 | * F | * eV2XARC | * agreed |
| * C1-202104 | * PC5 unicast link security establishment | * Qualcomm Incorporated / Lena | * 24.587 | * 0002 | * - | * Rel-16 | * B | * eV2XARC | * revised |
| * C1-202875 | * PC5 unicast link security establishment | * Qualcomm Incorporated / Lena | * 24.587 | * 0002 | * 1 | * Rel-16 | * B | * eV2XARC | * agreed |
| * C1-202105 | * NR PC5 unicast security policy provisioning | * Qualcomm Incorporated / Lena | * 24.587 | * 0003 | * - | * Rel-16 | * B | * eV2XARC | * postponed |
| * C1-202107 | * PC5 unicast link re-keying procedure | * Qualcomm Incorporated / Lena | * 24.587 | * 0004 | * - | * Rel-16 | * B | * eV2XARC | * revised |
| * C1-202876 | * PC5 unicast link re-keying procedure | * Qualcomm Incorporated / Lena | * 24.587 | * 0004 | * 1 | * Rel-16 | * B | * eV2XARC | * agreed |
| * C1-202108 | * Adding general subclause on security of PC5 signalling messages | * Qualcomm Incorporated / Lena | * 24.587 | * 0005 | * - | * Rel-16 | * B | * eV2XARC | * revised |
| * C1-202877 | * Adding general subclause on security of PC5 signalling messages | * Qualcomm Incorporated / Lena | * 24.587 | * 0005 | * 1 | * Rel-16 | * B | * eV2XARC | * agreed |
| * C1-202109 | * Introducing new messages for the Link Identifier Update procedure | * InterDigital Communications | * 24.587 | * 0006 | * - | * Rel-16 | * F | * eV2XARC | * merged |
| * C1-202115 | * Add the missing figure for UE-requested V2X policy provisioning procedure | * OPPO / Rae | * 24.587 | * 0007 | * - | * Rel-16 | * D | * eV2XARC | * revised |
| * C1-202639 | * Add the missing figure for UE-requested V2X policy provisioning procedure | * OPPO / Rae | * 24.587 | * 0007 | * 1 | * Rel-16 | * D | * eV2XARC | * agreed |
| * C1-202116 | * L2 ID of target UE used in the direct link establishment request | * OPPO / Rae | * 24.587 | * 0008 | * - | * Rel-16 | * F | * eV2XARC | * postponed |
| * C1-202117 | * Non-standadized QoS characteristics over PC5-S | * OPPO / Rae | * 24.587 | * 0009 | * - | * Rel-16 | * F | * eV2XARC | * revised |
| * C1-202704 | * Non-standadized QoS characteristics over PC5-S | * OPPO / Rae | * 24.587 | * 0009 | * 1 | * Rel-16 | * F | * eV2XARC | * agreed |
| * C1-202118 | * Remove FFS on GFBR and MFBR for UL and DL | * OPPO / Rae | * 24.587 | * 0010 | * - | * Rel-16 | * F | * eV2XARC | * revised |
| * C1-202703 | * Remove FFS on GFBR and MFBR for UL and DL | * OPPO / Rae | * 24.587 | * 0010 | * 1 | * Rel-16 | * F | * eV2XARC | * revised |
| * C1-202867 | * Remove FFS on GFBR and MFBR for UL and DL | * OPPO / Rae | * 24.587 | * 0010 | * 2 | * Rel-16 | * F | * eV2XARC | * agreed |
| * C1-202119 | * Group size and menber ID from application layer for groupcast | * OPPO / Rae | * 24.587 | * 0011 | * - | * Rel-16 | * F | * eV2XARC | * revised |
| * C1-202708 | * Group size and menber ID from application layer for groupcast | * OPPO / Rae | * 24.587 | * 0011 | * 1 | * Rel-16 | * F | * eV2XARC | * agreed |
| * C1-202163 | * Clarifications on configuration parameters for the PC5 QoS profile | * LG Electronics / SangMin | * 24.587 | * 0012 | * - | * Rel-16 | * F | * eV2XARC | * revised |
| * C1-202758 | * Clarifications on configuration parameters for the PC5 QoS profile | * LG Electronics / SangMin | * 24.587 | * 0012 | * 1 | * Rel-16 | * F | * eV2XARC | * agreed |
| * C1-202181 | * Handling of link establishment accept | * vivo | * 24.587 | * 0013 | * - | * Rel-16 | * F | * eV2XARC | * revised |
| * C1-202738 | * Handling of link establishment accept | * vivo | * 24.587 | * 0013 | * 1 | * Rel-16 | * F | * eV2XARC | * revised |
| * C1-202908 | * Handling of link establishment accept | * vivo | * 24.587 | * 0013 | * 2 | * Rel-16 | * F | * eV2XARC | * agreed |
| * C1-202182 | * Handling of link modification accept | * vivo | * 24.587 | * 0014 | * - | * Rel-16 | * F | * eV2XARC | * revised |
| * C1-202739 | * Handling of link modification accept | * vivo | * 24.587 | * 0014 | * 1 | * Rel-16 | * F | * eV2XARC | * agreed |
| * C1-202183 | * ENs resolving in modification pocedure | * vivo | * 24.587 | * 0015 | * - | * Rel-16 | * F | * eV2XARC | * revised |
| * C1-202740 | * ENs resolving in modification pocedure | * vivo | * 24.587 | * 0015 | * 1 | * Rel-16 | * F | * eV2XARC | * revised |
| * C1-202898 | * ENs resolving in modification pocedure | * vivo | * 24.587 | * 0015 | * 2 | * Rel-16 | * F | * eV2XARC | * withdrawn |
| * C1-202909 | * ENs resolving in modification pocedure | * vivo | * 24.587 | * 0015 | * 3 | * Rel-16 | * F | * eV2XARC | * revised |
| * C1-202913 | * ENs resolving in modification pocedure | * vivo | * 24.587 | * 0015 | * 4 | * Rel-16 | * F | * eV2XARC | * agreed |
| * C1-202184 | * Updates to link release procedure | * vivo | * 24.587 | * 0016 | * - | * Rel-16 | * F | * eV2XARC | * revised |
| * C1-202741 | * Updates to link release procedure | * vivo | * 24.587 | * 0016 | * 1 | * Rel-16 | * F | * eV2XARC | * agreed |
| * C1-202185 | * Correction of the timers of link identifier update procedure | * vivo | * 24.587 | * 0017 | * - | * Rel-16 | * F | * eV2XARC | * revised |
| * C1-202742 | * Correction of the timers of link identifier update procedure | * vivo | * 24.587 | * 0017 | * 1 | * Rel-16 | * F | * eV2XARC | * agreed |
| * C1-202186 | * Encoding of link identifier update messages and parameters | * vivo | * 24.587 | * 0018 | * - | * Rel-16 | * F | * eV2XARC | * revised |
| * C1-202743 | * Encoding of link identifier update messages and parameters | * vivo | * 24.587 | * 0018 | * 1 | * Rel-16 | * F | * eV2XARC | * agreed |
| * C1-202187 | * Handling of link identifier update not accept | * vivo | * 24.587 | * 0019 | * - | * Rel-16 | * F | * eV2XARC | * revised |
| * C1-202744 | * Handling of link identifier update not accept | * vivo | * 24.587 | * 0019 | * 1 | * Rel-16 | * F | * eV2XARC | * agreed |
| * C1-202188 | * Handling of PC5 unicast QoS flow match and establishment | * vivo | * 24.587 | * 0020 | * - | * Rel-16 | * F | * eV2XARC | * revised |
| * C1-202745 | * Handling of PC5 unicast QoS flow match and establishment | * vivo | * 24.587 | * 0020 | * 1 | * Rel-16 | * F | * eV2XARC | * agreed |
| * C1-202189 | * Handling of PC5 broadcast QoS flow match and establishment | * vivo | * 24.587 | * 0021 | * - | * Rel-16 | * F | * eV2XARC | * revised |
| * C1-202746 | * Handling of PC5 broadcast QoS flow match and establishment | * vivo | * 24.587 | * 0021 | * 1 | * Rel-16 | * F | * eV2XARC | * revised |
| * C1-202899 | * Handling of PC5 broadcast QoS flow match and establishment | * vivo | * 24.587 | * 0021 | * 2 | * Rel-16 | * F | * eV2XARC | * withdrawn |
| * C1-202900 | * Handling of PC5 broadcast QoS flow match and establishment | * vivo | * 24.587 | * 0021 | * 3 | * Rel-16 | * F | * eV2XARC | * withdrawn |
| * C1-202910 | * Handling of PC5 broadcast QoS flow match and establishment | * vivo | * 24.587 | * 0021 | * 4 | * Rel-16 | * F | * eV2XARC | * revised |
| * C1-202914 | * Handling of PC5 broadcast QoS flow match and establishment | * vivo | * 24.587 | * 0021 | * 5 | * Rel-16 | * F | * eV2XARC | * agreed |
| * C1-202190 | * Requirements for groupcast over PC5 | * vivo | * 24.587 | * 0022 | * - | * Rel-16 | * F | * eV2XARC | * merged |
| * C1-202225 | * Timer values for timers of PC5 unicast link management procedures | * Huawei, HiSilicon /Christian | * 24.587 | * 0023 | * - | * Rel-16 | * F | * eV2XARC | * revised |
| * C1-202598 | * Timer values for timers of the PC5 unicast link management procedures | * Huawei, HiSilicon /Christian | * 24.587 | * 0023 | * 1 | * Rel-16 | * F | * eV2XARC | * revised |
| * C1-202773 | * Timer values for timers of the PC5 unicast link management procedures | * Huawei, HiSilicon /Christian | * 24.587 | * 0023 | * 2 | * Rel-16 | * F | * eV2XARC | * agreed |
| * C1-202226 | * Correction to the privacy timer | * Huawei, HiSilicon /Christian | * 24.587 | * 0024 | * - | * Rel-16 | * F | * eV2XARC | * revised |
| * C1-202767 | * Correction to the privacy timer | * Huawei, HiSilicon /Christian | * 24.587 | * 0024 | * 1 | * Rel-16 | * F | * eV2XARC | * agreed |
| * C1-202316 | * Corection for the target user info in the DIRECT LINK ESTABLISHMENT REQUEST message | * Huawei, HiSilicon / Chen | * 24.587 | * 0025 | * - | * Rel-16 | * F | * eV2XARC | * revised |
| * C1-202730 | * Corection for the target user info in the DIRECT LINK ESTABLISHMENT REQUEST message | * Huawei, HiSilicon / Chen | * 24.587 | * 0025 | * 1 | * Rel-16 | * F | * eV2XARC | * agreed |
| * C1-202317 | * Correction for the IP address configuration IE in the DIRECT LINK ESTABLISHMENT ACCEPT message | * Huawei, HiSilicon / Chen | * 24.587 | * 0026 | * - | * Rel-16 | * F | * eV2XARC | * revised |
| * C1-202731 | * Correction for the IP address configuration IE in the DIRECT LINK ESTABLISHMENT ACCEPT message | * Huawei, HiSilicon / Chen | * 24.587 | * 0026 | * 1 | * Rel-16 | * F | * eV2XARC | * agreed |
| * C1-202318 | * Correction for the link local IPv6 address IE in the DIRECT LINK ESTABLISHMENT ACCEPT message | * Huawei, HiSilicon / Chen | * 24.587 | * 0027 | * - | * Rel-16 | * F | * eV2XARC | * revised |
| * C1-202732 | * Correction for the link local IPv6 address IE in the DIRECT LINK ESTABLISHMENT ACCEPT message | * Huawei, HiSilicon / Chen | * 24.587 | * 0027 | * 1 | * Rel-16 | * F | * eV2XARC | * agreed |
| * C1-202327 | * Defining new parameters needed for the Link Identifier Update procedure | * InterDigital Communications | * 24.587 | * 0028 | * - | * Rel-16 | * F | * eV2XARC | * revised |
| * C1-202596 | * Defining new parameters needed for the Link Identifier Update procedure | * InterDigital Communications | * 24.587 | * 0028 | * 1 | * Rel-16 | * F | * eV2XARC | * revised |
| * C1-202870 | * Defining new parameters needed for the Link Identifier Update procedure | * InterDigital Communications | * 24.587 | * 0028 | * 2 | * Rel-16 | * F | * eV2XARC | * revised |
| * C1-202930 | * Defining new parameters needed for the Link Identifier Update procedure | * InterDigital Communications | * 24.587 | * 0028 | * 3 | * Rel-16 | * F | * eV2XARC | * agreed |
| * C1-202427 | * Maximum number of NR PC5 unicast links for a UE | * Huawei, HiSilicon / Vishnu | * 24.587 | * 0029 | * - | * Rel-16 | * C | * eV2XARC | * revised |
| * C1-202848 | * Maximum number of NR PC5 unicast links for a UE | * Huawei, HiSilicon / Vishnu | * 24.587 | * 0029 | * 1 | * Rel-16 | * C | * eV2XARC | * revised |
| * C1-202919 | * Maximum number of NR PC5 unicast links for a UE | * Huawei, HiSilicon / Vishnu | * 24.587 | * 0029 | * 2 | * Rel-16 | * C | * eV2XARC | * agreed |
| * C1-202434 | * PC5 QoS flow establishment during the PC5 unicast link establishment procedure | * Huawei, HiSIlicon / Vishnu | * 24.587 | * 0030 | * - | * Rel-16 | * C | * eV2XARC | * merged |
| * C1-202438 | * Resolution of editor's note under 5.2.3 | * Huawei, HiSilicon /Christian | * 24.587 | * 0031 | * - | * Rel-16 | * F | * eV2XARC | * agreed |
| * C1-202439 | * Resolution of editor's note under 6.1.2.5.2 | * Huawei, HiSilicon /Christian | * 24.587 | * 0032 | * - | * Rel-16 | * F | * eV2XARC | * agreed |
| * C1-202453 | * Miscellaneous corrections | * Huawei, HiSilicon /Christian | * 24.587 | * 0033 | * - | * Rel-16 | * F | * eV2XARC | * agreed |
| * C1-202455 | * Resolution of editor's note under 6.1.2.3.6 | * Huawei, HiSilicon /Christian | * 24.587 | * 0034 | * - | * Rel-16 | * F | * eV2XARC | * revised |
| * C1-202768 | * Resolution of editor's note under 6.1.2.3.6 | * Huawei, HiSilicon /Christian | * 24.587 | * 0034 | * 1 | * Rel-16 | * F | * eV2XARC | * agreed |
| * C1-202456 | * Resolution of the editor's note under 6.1.2.5.7.2 | * Huawei, HiSilicon /Christian | * 24.587 | * 0035 | * - | * Rel-16 | * F | * eV2XARC | * revised |
| * C1-202769 | * Resolution of the editor's note under 6.1.2.5.7.2 | * Huawei, HiSilicon /Christian | * 24.587 | * 0035 | * 1 | * Rel-16 | * F | * eV2XARC | * agreed |
| * C1-202457 | * Correction on conditions to initiate a PC5 unciast link establishment procedure | * Huawei, HiSilicon / Vishnu | * 24.587 | * 0036 | * - | * Rel-16 | * F | * eV2XARC | * revised |
| * C1-202842 | * Correction on conditions to initiate a PC5 unciast link establishment procedure | * Huawei, HiSilicon / Vishnu | * 24.587 | * 0036 | * 1 | * Rel-16 | * F | * eV2XARC | * agreed |
| * C1-202485 | * Packet filter for PC5 QoS flows | * Huawei, HiSilicon / Vishnu | * 24.587 | * 0037 | * - | * Rel-16 | * C | * eV2XARC | * revised |
| * C1-202844 | * Packet filter for PC5 QoS flows | * Huawei, HiSilicon / Vishnu | * 24.587 | * 0037 | * 1 | * Rel-16 | * C | * eV2XARC | * agreed |
| * C1-202547 | * Direct link identifier update procedure messages definition and IEs coding | * CATT | * 24.587 | * 0038 | * - | * Rel-16 | * F | * eV2XARC | * merged |
| * C1-202106 | * NR PC5 unicast security policy provisioning | * Qualcomm Incorporated / Lena | * 24.588 | * 0001 | * - | * Rel-16 | * B | * eV2XARC | * postponed |
| * C1-202164 | * Clarifications on the V2X policies regarding QoS | * LG Electronics / SangMin | * 24.588 | * 0002 | * - | * Rel-16 | * F | * eV2XARC | * revised |
| * C1-202760 | * Clarifications on the V2X policies regarding QoS | * LG Electronics / SangMin | * 24.588 | * 0002 | * 1 | * Rel-16 | * F | * eV2XARC | * agreed |
| * C1-202165 | * Update to the V2X policies regarding RAN parameters | * LG Electronics / SangMin | * 24.588 | * 0003 | * - | * Rel-16 | * B | * eV2XARC | * agreed |
| * C1-202080 | * UE must not render local tones in case of call is being forwarded or call is queued | * Qualcomm Incorporated | * 24.628 | * 0075 | * - | * Rel-16 | * F | * TEI16 | * agreed |
| * C1-202356 | * Restrictions of providing video announcement | * China Telecom,Huawei,China Unicom,HiSilicon / Michelle | * 24.628 | * 0076 | * - | * Rel-16 | * C | * eIMSVideo | * revised |
| * C1-202817 | * Restrictions of providing video announcement | * China Telecom,Huawei,China Unicom,HiSilicon / Michelle | * 24.628 | * 0076 | * 1 | * Rel-16 | * C | * eIMSVideo | * agreed |
| * C1-202500 | * Correction on rendering local tones | * Ericsson, Deutsche Telekom /Jörgen | * 24.628 | * 0077 | * - | * Rel-16 | * F | * TEI16 | * revised |
| * C1-202887 | * Correction on rendering local tones | * Ericsson, Deutsche Telekom /Jörgen | * 24.628 | * 0077 | * 1 | * Rel-16 | * F | * TEI16 | * postponed |
| * C1-202537 | * Unsupported 5QI values | * MediaTek Inc. / JJ | * 27.007 | * 0686 | * - | * Rel-16 | * F | * 5GProtoc16 | * revised |
| * C1-202820 | * Unsupported 5QI values | * MediaTek Inc. / JJ | * 27.007 | * 0686 | * 1 | * Rel-16 | * F | * 5GProtoc16 | * agreed |
| * C1-202539 | * New AT command for linking packet filters +CGLNKPF | * MediaTek Inc. / JJ | * 27.007 | * 0687 | * - | * Rel-16 | * F | * TEI16 | * revised |
| * C1-202822 | * New AT command for linking packet filters +CGLNKPF | * MediaTek Inc. / JJ | * 27.007 | * 0687 | * 1 | * Rel-16 | * F | * TEI16 | * agreed |
| * C1-202540 | * New AT command for deleting packet filters +CGDELPF | * MediaTek Inc. / JJ | * 27.007 | * 0688 | * - | * Rel-16 | * F | * TEI16 | * revised |
| * C1-202823 | * New AT command for deleting packet filters +CGDELPF | * MediaTek Inc. / JJ | * 27.007 | * 0688 | * 1 | * Rel-16 | * F | * TEI16 | * agreed |
| * C1-202549 | * Addition of new AT command for 5G Location Services testing | * CATT | * 27.007 | * 0689 | * - | * Rel-16 | * B | * 5G\_eLCS | * postponed |
| * C1-202286 | * Editorial corrections | * Sepura Ltd, Hytera Communications Corp | * 29.582 | * 0001 | * - | * Rel-16 | * D | * MCCI\_CT | * revised |
| * C1-202610 | * Editorial corrections | * Sepura Ltd, Hytera Communications Corp | * 29.582 | * 0001 | * 1 | * Rel-16 | * D | * MCCI\_CT | * agreed |

## Annex C: Lists of liaisons

### C1: Incoming liaison statements

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |
| Document | Original | Title | From | Decision | Reply TDoc |
| * C1-202033 | * FSAG Doc 78\_002 | * Specification of NAS COUNT for 5G (FSAG Doc 78\_002) | * GSMA FSAG | * noted | * (none) |
| * C1-202034 | * FSAG Doc 79\_002 | * Mandatory User Plane Integrity for 5G (FSAG Doc 79\_002) | * GSMA FSAG | * noted | * (none) |
| * C1-202035 | * C3-201460 | * LS Reply on QoS mapping procedure for FLUS (C3-201460) | * CT3 | * noted | * (none) |
| * C1-202036 | * CP-193301 | * LS on Proposal to transfer the study on service-based support for SMS in 5GC to CT WGs (CP-193301) | * TSG CT | * postponed | * (none) |
| * C1-202037 | * C4-201003 | * LS on MO exception data (C4-201003) | * CT4 | * noted | * (none) |
| * C1-202038 | * C4-201045 | * SMS and UDM (C4-201045) | * CT4 | * noted | * (none) |
| * C1-202039 | * C4-2011218 | * LS on the Usage of Version ID (C4-2011218) | * CT4 | * noted | * (none) |
| * C1-202040 | * C4-201220 | * Reply LS on Further clarifications on GLI/GCI and Line ID/ HFC\_Identifier (C4-201220) | * CT4 | * noted | * (none) |
| * C1-202041 | * C4-201221 | * LS on subscribe/notify for 5G Steering of Roaming (C4-201221) | * CT4 | * noted | * (none) |
| * C1-202042 | * LIAISE-382 | * Clarification on encryption requirements for AGF interfaces (N1, N2, N3) [WWC] (LIAISE-382) | * Broadband Forum | * noted | * (none) |
| * C1-202043 | * R2-1916530 | * LS on RRC establishment cause value in EPS voice fallback from NR to E-UTRAN (R2-1916530) | * RAN2 | * noted | * (none) |
| * C1-202044 | * R2-2001815 | * Reply LS on Rel-16 NB-IoT enhancements (R2-2001815) | * RAN2 | * noted | * (none) |
| * C1-202045 | * R2-2002417 | * LS on Manual CAG ID selection and granularity of UAC parameters for PNI-NPNs (R2-2002417) | * RAN2 | * noted |  |

### C2: Outgoing liaison statements

| **annex\_outgoing-LSs** | | | | |
| --- | --- | --- | --- | --- |
| **Tdoc** | **Title** | **To** | **Cc** | **ReplyTo** |
| C1-202617 | LS on manipulation of CAG Information element by a VPLMN | SA2 | SA3 |  |
| C1-202663 | Reply LS on Non-UE N2 Message Services Operations | SA2 | CT4 | - |
| C1-202666 | LS on security context for 5GC to EPC mobility | SA3 | SA2 |  |
| C1-202668 | Reply LS on 5G Steering of Roaming | CT4 | - | C1-202041 |
| C1-202819 | LS on limiting the number of simultaneous logins of an MCX user | SA1 | SA6 |  |
| C1-202826 | LS on selected EPS NAS algorithms for unauthenticated emergency sessions in 5GS | SA3 | - |  |
| C1-202846 | Reply LS on Manual CAG ID selection and granularity of UAC parameters for PNI-NPNs | RAN2 | RAN3, SA1, SA2 | C1-202102 |
| C1-202916 | LS on Concurrent Broadcasting for CMAS | RAN3 | - | - |
| C1-202927 | LS on manual CAG selection | RAN2 | SA1, SA2 | - |
| C1-202933 | PAP/CHAP and other point-to-point protocols usage in 5GS | SA2 | SA3, CT3, CT4 | - |

## Annex D list of participants

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| TITLE | Family Name | Given Name | Role | Employer Organization | Employer Category Code | Organization Represented | Organization Represented Category Code |
| Mr. | Aghili | Behrouz | Delegate | InterDigital Communications | ATIS | InterDigital Communications | ATIS |
| Ms. | Al-Bakri | Ban | Delegate | MeadowCom | | DOCOMO Communications Lab. | ETSI |
| Mr. | Antsev | Boris | Delegate | T-Mobile USA Inc. | ATIS | T-Mobile USA Inc. | ATIS |
| Mr. | Askerup | Anders | Delegate | Hewlett-Packard Enterprise | ETSI | Hewlett-Packard Enterprise | ETSI |
| Mr. | Atarius | Roozbeh | Delegate | Motorola Mobility UK Ltd. | ETSI | Motorola Mobility UK Ltd. | ETSI |
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| Mr. | Bakker | John-Luc | Delegate | BlackBerry UK Limited | ETSI | BlackBerry UK Limited | ETSI |
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| Ing. | Beicht | Peter | Delegate | Kontron Transportation France | ETSI | Kontron Transportation France | ETSI |
| Mrs. | Biondic | Nevenka | Delegate | Ericsson LM | ETSI | Ericsson LM | ETSI |
| Mr. | Brinkmann | Horst | Delegate | Nokia Germany | ETSI | Nokia Germany | ETSI |
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| Mr. | Catovic | Amer | Delegate | Qualcomm CDMA Technologies | ETSI | Qualcomm Technologies Int | ETSI |
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| Dr. | Choi | Woo-Jin | Delegate | KT Corp. | TTA | KT Corp. | TTA |
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| Mr. | Edwards | Robert | Delegate | Matrixx | ETSI | Matrixx | ETSI |
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| Mr. | Sedlacek | Ivo | Delegate | Ericsson LM | ETSI | Ericsson Limited | ETSI |
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