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

**DRAFT Meeting Report  
for  
TSG CT WG3  
meeting: 107**

**Reno, NV, USA, 2019-11-11 to 2019-11-15**

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## 1 Opening of the meeting

The meeting was chaired by Ms Susana Fernandez (Ericsson). The secretary was Mr John M Meredith (ETSI MCC).

The Chairman gave the welcome speech and logicstical information on behalf of the hosts, the North American Friends of 3GPP.

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.

## 2 Agenda/Schedule

### 2.1 Approval of the agenda

**C3-195000 Draft Agenda for the CT3#107 Meeting**

*Type: agenda For: Information  
 Source: CT3 chairman*

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

### 2.2 Proposed Schedule

**C3-195001 Proposed Schedule for CT3#107**

*Type: other For: Information  
 Source: CT3 chairman*

**Discussion:**

The Chairman outlined the proposed schedule, and this was accepted with a minor change at the request of Samsung. Huawei had delivered some technical comments by mail, and the company would not participate in those sessions. Ericsson also wished for a rearrangement.

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

## 3 Registration of documents

**C3-195002 Allocation of documents to agenda items (at Deadline)**

*Type: other For: Information  
 Source: CT3 chairman*

**Abstract:**

219 tdocs allocated at deadline.

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

**C3-195003 Allocation of documents to agenda items (Start of Day 1)**

*Type: other For: Information  
 Source: CT3 chairman*

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

**C3-195004 Allocation of documents to agenda items (Start of Day 2)**

*Type: other For: Information  
 Source: CT3 chairman*

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

**C3-195005 Allocation of documents to agenda items (Start of Day 3)**

*Type: other For: Information  
 Source: CT3 chairman*

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

**C3-195006 Allocation of documents to agenda items (Start of Day 4)**

*Type: other For: Information  
 Source: CT3 chairman*

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

**C3-195007 Allocation of documents to agenda items (Start of Day 5)**

*Type: other For: Information  
 Source: CT3 chairman*

**Discussion:**

The Chairman drew delegates' attention to the actions needed after the meeting.

**ACTION: Procedure for CT#86 Plenary:**

**1. Rapporteurs will implement the CRs agreed in the CTx meetings handled in the Plenary cycle in both main body and OpenAPI specification. Changes will be identified with the CR number. Rapporteurs will also generate the yaml file by using a proper text editor (e.g. NotePad++)**

**2. Rapporteurs will store by Wednesday 20th, 17:00 CET the updated TSs in a zip file that will contain the yaml file in the following directories:**

**a. CT3: ftp://ftp.3gpp.org/Email\_Discussions/CT3/CT86/Draft**

**b. CT4: ftp://ftp.3gpp.org/Email\_Discussions/CT4/CT86/Draft**

**Use EOL account to get access to the repository.**

**Rapporteurs will indicate in the CTx reflector when the file is available and will also upload the yaml files in ETSI Forge.**

**The stored version will also include corrections on the topics identified by the rapporteur in the implementation process.**

**3. All syntax errors identified by the rapporteur or any other delegate after the 3GPP meeting will be solved by bringing company CRs to the CT Plenary.**

**4. Rapporteurs will provide the updated TS version and yaml file by Wednesday 27th, 17:00 CET in the following directories:**

**a. CT3: ftp://ftp.3gpp.org/Email\_Discussions/CT3/CT86/Stable**

**b. CT4: ftp://ftp.3gpp.org/Email\_Discussions/CT4/CT86/Stable**

**5. After the Plenary, rapporteurs will prepare the final TS version, including yaml file, ensuring that all the approved CRs are implemented and will store them under:**

**a. ftp://ftp.3gpp.org/Email\_Discussions/CT3/CT86/Final**

**b. ftp://ftp.3gpp.org/Email\_Discussions/CT4/CT86/Final**

**6. MCC will ensure that all CRs are correctly implemented and will share the draft TSs by the end of the week after the Plenary.  
 (action on: All delegates / due by: 2019-11-27)**

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

**C3-195008 Allocation of documents to agenda items (End of Day 5)**

*Type: other For: Information  
 Source: CT3 chairman*

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

## 4 Reports

### 4.1 Report from previous CT3 meeting

**C3-195011 Minutes of CT3#106**

*Type: report For: Approval  
 Source: MCC*

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

### 4.2 Report from previous CT plenary

**C3-195010 reserved**

*Type: report For: (not specified)  
 Source: CT3 chairman*

**Abstract:**

(normally reserved for report of previous CT plenary meeting, but this was dealt with at the previous CT3 meeting))

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

### 4.3 Reports from other groups

## 5 Items for immediate consideration

### 5.1 IPR disclosures

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.

### 5.2 Antitrust declarations

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.

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

The Chairman read out the Statement Regarding Engagement with Companies Added to the U.S. Export Administration Regulations (EAR) Entity List in 3GPP Activities which can be found at https://www.3gpp.org/about-3gpp/legal-matters#EAR.

### 5.4 Other items for immediate consideration

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.

## 6 Received Liaison Statements

**C3-195173 Reply LS to LS on maximum value of MDBV**

*Type: LS in For: Discussion  
 Original outgoing LS: S2-1907955, to SA2, cc RAN1, RAN2, RAN3, CT3, SA1  
 Source: CT4*

**Abstract:**

CT4 kindly asks SA2 group to take the above information into account and to provide a recommendation on the maximum allowed value of MDBV.

**Discussion:**

The Chairman drew attention to the LS from SA2 in C3-195181.

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

**C3-195181 Reply LS on LS on maximum value of MDBV**

*Type: LS in For: Discussion  
 Original outgoing LS: -, to RAN3, CT4, CT3, cc RAN1, RAN2, SA1  
 Source: SA2*

**Abstract:**

SA2 asks CT3 to take the answers provided by SA2 and that related attached agreed CRs into account in the stage 3 work.

**Discussion:**

The Chairman drew attention to the CRs on this topic.

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

**C3-195174 LS on NID structure and length**

*Type: LS in For: Discussion  
 Original outgoing LS: -, to RAN2, RAN3, CT1, CT3, cc SA2  
 Source: CT4*

**Abstract:**

CT4 would like to ask RAN2, RAN3, CT1 and CT3 to take this information into account and provide feedback, if necessary.

**Discussion:**

The Chairman proposed to discuss this LS in conjunction with that in C3-195195 to determine whether any feedback was required. The document was presented by Ericsson. It was concluded that the LS confirmed "business as usual". Nokia agreed, CT3 did not need to provide a response.

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

**C3-195195 Reply LS on NID structure and length**

*Type: LS in For: Discussion  
 Original outgoing LS: S2-1909959 / C4-194332, to RAN2, RAN3, CT1, CT4, cc CT3  
 Source: SA2*

**Abstract:**

SA2 thanks CT4 for the LS on " NID structure and length".

Regarding the length of the NID and that it is to be broadcasted, SA2 have captured the following two assumptions in TS 23.501:

"NOTE 1: It is assumed that an NG-RAN node supports broadcasting a total of twelve NIDs. Further details are defined in TS 38.331 [28].

NOTE 1: It is assumed that an NG-RAN node supports broadcasting a total of twelve CAG Identifiers. Further details are defined in TS 38.331 [28]."

Regarding the supported assignment models, SA2 has agreed the attached CR.

**Discussion:**

Ericsson introuduced the document, noting that the CT3 interfaces would follow rather than set any new aspects.

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

**C3-195175 LS on Support of Network Address Translation in the User Plane function**

*Type: LS in For: Discussion  
 Original outgoing LS: -, to SA2, cc CT3  
 Source: CT4*

**Abstract:**

CT4 kindly requests SA2 to answer whether specific requirements are expected for the control of NAT in the user plane function over N4/Sxb and, if so, to consider specifying the relevant stage 2 requirements.

**Discussion:**

The Chairman observed that there was no action on CT3.

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

**C3-195176 LS on Enhanced coverage restriction**

*Type: LS in For: Discussion  
 Original outgoing LS: -, to SA2, cc CT3  
 Source: CT4*

**Abstract:**

CT4 kindly asks SA2 to take note of the above decision and let CT4 know if SA2 sees any issue with this approach.

**Discussion:**

The Chairman observed that there was no action on CT3.

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

**C3-195177 Reply LS on Nudr\_DM evolution**

*Type: LS in For: Discussion  
 Original outgoing LS: S2-1908635, to SA2, cc CT3  
 Source: CT4*

**Abstract:**

CT4 kindly asks SA2 to consider the feedback provided to the questions above, to progress the work of those Work Items requiring to evolve the data model of the UDR.

**Discussion:**

The Chairman observed that the LS had already been checked in meeting CT3#106 and there had been no comments. No further action was required.

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

**C3-195178 Reply LS on "SMF Event Exposure enhancement for service experience"**

*Type: LS in For: Discussion  
 Original outgoing LS: C3-193429 / S2-1908665, to CT3, cc -  
 Source: SA2*

**Abstract:**

SA2 thanks CT3 for the "LS on SMF Event Exposure enhancement for service experience".

1. If the NWDAF subscribes to the SMF to collect information related to the QoS flow level Network Data event by invoking Nsmf\_EventExposure service, what information is needed by the NWDAF and how the SMF determine the event is detected or not?

[SA2 Answer]: How the SMF determine the event is detected is defined in Clause 5.2.8.3, TS 23.502.

2. When requesting the QoS flow level Network Data from the SMF, whether the above highlighted information are all mandatory?

[SA2 Answer]: As defined in clause 6.2.1, Clause 6.4.4 and Clause 6.4.5, TS 23.288, the data which NWDAF may collect is listed for each analytics in input data clause and is decided by the NWDAF, and therefore all the QoS flow level Network Data from the SMF are optional.

SA2 has agreed the attached CRs to reflect the above changes.

**Discussion:**

The document was introduced by Huawei. No CR had been provided at this meeting, but one would be seen at meeting #108.

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

**C3-195179 Reply LS on N6 routing information in AF acknowledgement**

*Type: LS in For: Discussion  
 Original outgoing LS: S2-1908667/C3-193643, to CT3, cc -  
 Source: SA2*

**Abstract:**

SA2 would like to thank CT3 for LS in S2-1908667/C3-193643 and would like to provide the following feedback on the questions.

[Q1] CT3 understands that if the SMF receives the AF acknowledgement indicates successful but not include N6 traffic routing information for the target DNAI, it means the N6 traffic routing information remains the same. Whether CT3’s understanding aligns with stage 2?

[SA2 Answer]

According to clause 5.6.7.2 of 3GPP TS 23.501, N6 traffic routing information is provided per DNAI by AF:

- Information about the N6 traffic routing requirements that is provided per DNAI: for each DNAI, the N6 traffic routing requirements may contain a routing profile ID and/or N6 traffic routing information.

The AF acknowledgement is one of the methods for the N6 traffic routing information provisioning. The AF can provide such information via PCF or NEF for future PDU sessions as well.

The AF requests are sent to the PCF via N5 (in the case of requests targeting specific on-going PDU Sessions of individual UE(s), for an AF allowed to interact directly with the 5GC NFs) or via the NEF. The AF requests that target existing or future PDU Sessions of multiple UE(s) or of any UE are sent via the NEF and may target multiple PCF(s), as described in clause 6.3.7.2.

In the case that “the AF acknowledgement indicates successful but not include N6 traffic routing information for the target DNAI”, the SMF can use the N6 traffic routing information for the target DNAI if it was provided via PCF or NEF as mentioned above. This process is described in clause 4.3.6.2 of TS 23.502.

[Q2] If yes, then in the case as follows:

if the AF does not provide the N6 routing information but just subscribe the event of UP path change notification in the previous traffic influence message via NEF and PCF, when the event is detected by the SMF, the SMF will notify the AF directly or via NEF of the UP path change event. If the AF includes the N6 traffic routing information in the acknowledgement to the SMF, then the SMF will access to the indicated N6 data network.

After that, for instance, if the PDU session is re-established and the SMF is changed, the new SMF is not aware of the N6 traffic routing information, because it is unclear how the new SMF retrieve such information from the old SMF.

in this case, the AF acknowledgement does not include the N6 traffic routing information, how the new SMF access to the desired AF?

[SA2 Answer]

The subscription and notification of UP path change event are performed per PDU Session:

The AF may request to be subscribed to notifications about UP path management events, i.e. a UP path change occurs for the PDU Session.

The SMF (i.e. anchor SMF) serving a PDU session does not change during lifetime of the PDU session. When a new PDU Session is established, e.g. during PDU session re-establishment, the AF can subscribes to UP path change event during the PDU session establishment. As described in clause 4.3.6.2 of TS 23.502, the new SMF serving the new PDU session can retrieve N6 traffic routing information from PCF during the procedure.

**Discussion:**

Huawei also proposed to come back to this LS in the next meeting.

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

**C3-195180 Reply LS on Nsmf\_EventExposure and Nnef\_EventExposure service handling of the "Downlink data delivery status" and "Availability after DDN Failure" events.**

*Type: LS in For: Discussion  
 Original outgoing LS: -, to CT3, cc CT4  
 Source: SA2*

**Abstract:**

SA2 asks CT3 to take the answers provided by SA2 and that related attached agreed CRs into account in the stage 3 work.

**Discussion:**

Nokia introduced the document, indicating that the topic was complex. A number of questions needed to be addressed. No CRs had been provided to the present meeting. The Chairman noted that Rel-16 freeze was just round the corner.

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

**C3-195182 Reply LS on AUSF role in slice specific authentication**

*Type: LS in For: Discussion  
 Original outgoing LS: S3 193126/S2-1908714, to SA3, cc CT3  
 Source: SA2*

**Abstract:**

SA2 kindly ask SA3 to:

- Confirm whether the AUSF role as specified by SA2 is acceptable from a security architecture perspective.

- communicate to SA2 any comments on the attached CR.

**Discussion:**

The Chairman drew attention to the related CR. Ericsson introduced the LS. The action was on SA3. There might be some action needed by CT3 after SA3 had made its response.

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

**C3-195183 LS on QoS mapping procedure**

*Type: LS in For: Discussion  
 Original outgoing LS: -, to CT3, cc CT1  
 Source: SA4*

**Abstract:**

SA4 asks CT3 to consider if it would be appropriate and sufficient for the AF to use the SDP media level “a=label:flus” as input for a media level AF-Application-Identifier or a separate identifier, amended by information from the new 3gpp-qos-hint attribute to properly derive FLUS-specific 5QI/QCI values for those media components in an MTSI session. SA4 also kindly asks CT3 to be informed about any identified shortcomings with this SDP approach to set FLUS-specific QoS for media components in MTSI.

**Discussion:**

The LS was presented by Ericsson. No CRs were available at the present meeting. The necessary CRs were still in preparation, and were dependent on SA3 work.

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

**C3-195393 Reply LS (S6-192023) on clarifications regarding SEAL services**

*Type: LS in For: Action  
 Original outgoing LS: S6-192318, to CT3, cc CT1  
 Source: SA6*

**Abstract:**

SA6 thanks CT3 for their LS on clarifications regarding SEAL services API. SA6 would like to confirm that SEAL stage 2 specification has now been updated with the following:

1. "verb-xxx" naming convention of all API names and corresponding changes to API Operations

2. Grouping of group management service APIs into one service API due to similar functionality. Further Query\_Group\_Info and Obtain\_Group\_Configuration service operations are combined as the resource is same for both these operations.

3. Operation semantics for some service APIs related to event subscription to follow the convention used in subclause 5.2 of TS 23.502.

**Decision:** The document was **revised to C3-195397**.

**C3-195397 Reply LS (S6-192023) on clarifications regarding SEAL services**

*Type: LS in For: Action  
 Original outgoing LS: S6-192318, to CT3, cc CT1  
 Source: SA6*

(Replaces C3-195393)

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

## 7 Release 7 and earlier releases

## 8 Release 8

It was noted that all CT3 Rel-8 work items were already completed.

### 8.1 Release 8 IMS/CS Work Items

### 8.2 Release 8 Packet Core Work Items

## 9 Release 9

It was noted that all CT3 Rel-9 work items were already completed.

### 9.1 Release 9 IMS/CS Work Items

### 9.2 Release 9 Packet Core Work Items

## 10 Release 10

It was noted that all CT3 Rel-10 work items were already completed.

### 10.1 Release 10 IMS/CS Work Items

**C3-195417 Corrrection for setting conditrion of the Contact header field**

*Type: CR For: Agreement  
 29.165 v10.21.0 CR-0998 Cat: F (Rel-10)  
  
 Source: NTT*

**Abstract:**

In table B.7.2 support of the Contact header field in 18x and 199 responses changed to "dm" and a reference to TS 24.229 is added to explain that support is mandatory required for 3GPP profile status in accordance to TS 24.229.

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

**C3-195418 Corrrection for setting conditrion of the Contact header field**

*Type: CR For: Agreement  
 29.165 v.. CR-0999 Cat: A (Rel-11)  
  
 Source: NTT*

**Abstract:**

Mirror CR

**Discussion:**

(Cover sheet errors.)

**Decision:** The document was **revised to C3-195427**.

**C3-195427 Corrrection for setting conditrion of the Contact header field**

*Type: CR For: Agreement  
 29.165 v.. CR-0999 rev 1 Cat: A (Rel-11)  
  
 Source: NTT*

(Replaces C3-195418)

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

**C3-195419 Corrrection for setting conditrion of the Contact header field**

*Type: CR For: Agreement  
 29.165 v12.20.0 CR-1000 Cat: A (Rel-12)  
  
 Source: NTT*

**Abstract:**

Mirror CR

**Discussion:**

(Cover sheet errors.)

**Decision:** The document was **revised to C3-195428**.

**C3-195428 Corrrection for setting conditrion of the Contact header field**

*Type: CR For: Agreement  
 29.165 v12.20.0 CR-1000 rev 1 Cat: A (Rel-12)  
  
 Source: NTT*

(Replaces C3-195419)

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

**C3-195420 Corrrection for setting conditrion of the Contact header field**

*Type: CR For: Agreement  
 29.165 v13.13.0 CR-1001 Cat: A (Rel-13)  
  
 Source: NTT*

**Abstract:**

Mirror CR

**Discussion:**

(Cover sheet errors.)

**Decision:** The document was **revised to C3-195429**.

**C3-195429 Corrrection for setting conditrion of the Contact header field**

*Type: CR For: Agreement  
 29.165 v13.13.0 CR-1001 rev 1 Cat: A (Rel-13)  
  
 Source: NTT*

(Replaces C3-195420)

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

**C3-195421 Corrrection for setting conditrion of the Contact header field**

*Type: CR For: Agreement  
 29.165 v14.12.0 CR-1002 Cat: A (Rel-14)  
  
 Source: NTT*

**Abstract:**

Mirror CR

**Discussion:**

(Cover sheet errors.)

**Decision:** The document was **revised to C3-195430**.

**C3-195430 Corrrection for setting conditrion of the Contact header field**

*Type: CR For: Agreement  
 29.165 v14.12.0 CR-1002 rev 1 Cat: A (Rel-14)  
  
 Source: NTT*

(Replaces C3-195421)

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

**C3-195422 Corrrection for setting conditrion of the Contact header field**

*Type: CR For: Agreement  
 29.165 v15.9.0 CR-1003 Cat: A (Rel-15)  
  
 Source: NTT*

**Abstract:**

Mirror CR

**Discussion:**

(Cover sheet errors.)

**Decision:** The document was **revised to C3-195431**.

**C3-195431 Corrrection for setting conditrion of the Contact header field**

*Type: CR For: Agreement  
 29.165 v15.9.0 CR-1003 rev 1 Cat: A (Rel-15)  
  
 Source: NTT*

(Replaces C3-195422)

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

**C3-195423 Corrrection for setting conditrion of the Contact header field**

*Type: CR For: Agreement  
 29.165 v16.0.0 CR-1004 Cat: A (Rel-16)  
  
 Source: NTT*

**Abstract:**

Mirror CR

**Discussion:**

(Cover sheet errors.)

**Decision:** The document was **revised to C3-195432**.

**C3-195432 Corrrection for setting conditrion of the Contact header field**

*Type: CR For: Agreement  
 29.165 v16.0.0 CR-1004 rev 1 Cat: A (Rel-16)  
  
 Source: NTT*

(Replaces C3-195423)

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

### 10.2 Release 10 Packet Core Work Items

## 11 Release 11

It was noted that all CT3 Rel11 work items were already completed.

### 11.1 Release 11 IMS/CS Work Items

### 11.2 Release 11 Packet Core Work Items

## 12 Release 12

It was noted that all CT3 Rel12 work items were already completed.

### 12.1 Release 12 IMS/CS Work Items

### 12.2 Release 12 Packet Core Work Items

## 13 Release 13

### 13.1 Release 13 IMS/CS Work Items

### 13.2 Release 13 Packet Core Work Items

## 14 Release 14

### 14.1 Release 14 IMS/CS Work Items

### 14.2 Release 14 Packet Core Work Items

## 15 Release 15

### 15.1 Study on Policy and Charging for Volume Based Charging [FS\_PC\_VBC]

### 15.2 CT aspects on 5G System - Phase 1 [5GS\_Ph1-CT]

#### 15.2.1 Technical Report (TR 29.890)

#### 15.2.2 Access and Mobility Policy Control Services (TS 29.507)

**C3-195147 Correction on 307 error, 29.507**

*Type: CR For: Agreement  
 29.507 v15.5.0 CR-0089 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Abstract:**

Update 4.2.4.2 and 4.2.4.3 to indicate that after 307 or 404 the PCF shall send to the received URI the reattempt of the failed policy update notification.

**Discussion:**

In the second change, Samsung noted an error concerning termination. There was some discussion between Ericsson and Nokia over the handling of HTTP messages, particularly 308. There had been an ambiguity in the previous text of this spec. All subsequent communications would be sent to the new URI, following a 308 message. Meanwhile error 404 was a temporary, not found, indication. Ericsson maintained that the correct message was 307. A lengthy discussion ensued.

**Decision:** The document was **revised to C3-195265**.

**C3-195265 Correction on 307 error, 29.507**

*Type: CR For: Agreement  
 29.507 v15.5.0 CR-0089 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson*

(Replaces C3-195147)

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

**C3-195148 Correction on 307 error, 29.507**

*Type: CR For: Agreement  
 29.507 v16.1.0 CR-0090 Cat: A (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Mirror CR

**Decision:** The document was **revised to C3-195266**.

**C3-195266 Correction on 307 error, 29.507**

*Type: CR For: Agreement  
 29.507 v16.1.0 CR-0090 rev 1 Cat: A (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-195148)

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

#### 15.2.3 Session Management Event Exposure Service (TS 29.508)

**C3-195149 Correction on 307 error, 29.508**

*Type: CR For: Agreement  
 29.508 v15.5.0 CR-0061 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Abstract:**

Update 4.2.2.2 to indicate that after 307 or 404 the SMF shall send to the received URI the reattempt of the failed notification.

**Discussion:**

Vodafone requested in minor clarification of the text.

**Decision:** The document was **revised to C3-195302**.

**C3-195302 Correction on 307 error, 29.508**

*Type: CR For: Agreement  
 29.508 v15.5.0 CR-0061 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson*

(Replaces C3-195149)

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

**C3-195150 Correction on 307 error, 29.508**

*Type: CR For: Agreement  
 29.508 v16.1.0 CR-0062 Cat: A (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Mirror

**Decision:** The document was **revised to C3-195303**.

**C3-195303 Correction on 307 error, 29.508**

*Type: CR For: Agreement  
 29.508 v16.1.0 CR-0062 rev 1 Cat: A (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-195150)

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

#### 15.2.4 Session Management Policy Control Services (TS 29.512)

**C3-195035 CHF addresses as apiRoot in the form of an FQDN**

*Type: CR For: Agreement  
 29.512 v15.5.0 CR-0370 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Description that the primary and secondary charging address shall contain the URI of the CHF, which corresponds to the {apiRoot} in the form of an FQDN.

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

**C3-195036 CHF addresses as apiRoot in the form of an FQDN**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0371 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Mirror CR

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

**C3-195076 Request of SM Policy Association Termination during the Update procedure**

*Type: CR For: Agreement  
 29.512 v15.5.0 CR-0376 Cat: F (Rel-15)  
  
 Source: Oracle Corporation*

**Abstract:**

Aligning the SMPolicyControl service by enabling the PCF to request the termination of the PDU session as a response to the Npcf\_SMPolicyControl\_Update from the SMF.

**Discussion:**

Huawei prefered only to make this change from Rel-16. Nokia agreed, but noted that there was already a procedure PCF to send a termination request. This new procedure effectively replaced that procedure. This would reduce the number of messages. This would be clear to do from Rel-16 onwards. Oracle agreed but noted that the old procedure would remain, and not be made obsolete. The CR offered an additional supported procedure.

Huawei recalled a CR agreed in the previous meeting, and Oracle agreed that the same could be used.

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

**C3-195077 Request of SM Policy Association Termination during the Update procedure**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0377 Cat: A (Rel-16)  
  
 Source: Oracle Corporation*

**Abstract:**

Mirror

**Discussion:**

The CR was originally a mirror treated under agenda item 15.2.4. But it was decided not persue the Rel-15 version. It was moved to agenda item 16.4.

**Decision:** The document was **revised to C3-195304**.

**C3-195089 Correction to delete a PCC rule requested by the UE**

*Type: CR For: Agreement  
 29.512 v15.5.0 CR-0378 Cat: F (Rel-15)  
  
 Source: Huawei*

**Abstract:**

Mandate that the packFiltInfo attribute shall be included. And the "packFiltInfo" attribute shall include one PacketFilterInfo instance which includes any packet fitler identifier assigned by the PCF for the PCC rule within the "packFiltId" attribute.

Same correction applied to MODIFY\_PCC\_RULE\_WITHOUT\_MODIFY\_PACKET\_FILTERS operation was agreed in CT3#105.

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

**C3-195090 Correction to delete a PCC rule requested by the UE**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0379 Cat: A (Rel-16)  
  
 Source: Huawei*

**Abstract:**

Mirror

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

**C3-195091 Termination action**

*Type: CR For: Agreement  
 29.512 v15.5.0 CR-0380 Cat: F (Rel-15)  
  
 Source: Huawei*

**Abstract:**

The SMF shall include the "NO\_CREDIT" within the "repPolicyCtrlReqTriggers" attribute, the termination action the SMF applies to the PCC rules as instructed by the CHF within the "finUnitAct" attribute and the affected PCC rules within the "ruleReports" attribute.

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

**C3-195092 Termination action**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0381 Cat: A (Rel-16)  
  
 Source: Huawei*

**Abstract:**

Mirror

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

**C3-195153 Correction of AF Charging Identifier data type**

*Type: CR For: Agreement  
 29.512 v15.5.0 CR-0387 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Abstract:**

Definition of :

• A reference to a new data type, ApplicationChargingId, type string, defined in 29.571.

• A new feature IMS\_Charging\_Identifier,

• New attribute using the new data type, i.e. “afChargId” that shall be used instead “afChargingIdentifier”.

Old attribute “afChargingIdentifier” can only be used when the IMS\_Charging feature is not supported.

When the IMS\_Charging feature is not supported, a note indicates that it is implementation specific the PCF behaviour when the AF provides values longer than Uint32.

**Discussion:**

It had to be decided whether to go for a backward compatible or incompatible solution. Huawei preferred not to move to a v2 of the API, but they were not sure whether this would be possible to solve all CRs at this meeting with only backward compatible solutions. (The Chairman recalled the discussions on supi.) Ericsson recalled a change in CT4, and the solution was to introduce an optional flag to indicate that the mandatory attribute should be ignored. CT4 had even considered addting this as a rule to 29.500, thus enshrining this "diirty" approach for all time.

This led to some debate as to the desirabilty of this.What would be the case if the producer supported the flag but the consumer did not? The consumer would probably reject it with an arror message and the session would terminate. This might differ from implementation to implementation, and from feature to feature. The discussion concentrated on the specific supi case.

Openet was unsure of the meaning of the second note. The wording of the second sentence could be improved.

Nokia questioned the naming of the supported feature: it was a bit restrictive to mention IMS.

Huawei queried the charging identifiers in the core and radio access networks. Ericsson had investigated this and was confident that the proposed mechanism was valid.

After off line consideration, the Chairman again asked whether to stay with v1 of the API, or to move to v2. Nokia and China Mobile expressed a strong desire to remain with v1. This was well supported by others. A flag or feature would be introduced.

But Orange insisted that a solution (cf 29.501) really was needed.

Ericsson believed the solution was more complex than this decision. The spec would only move to v2 when some architectectural change was introduced.

A feagure "Emergency with non-required supi" could be introduced, and for emmergency sessions, the PCF would ignore the supi contents.

Openet was concerned about the details of such a solution, which would require careful specification. The feature would have to handle an "invalid" supi carefully depending on whether or not it was an emergency session, and not react with an error. Oracle thought this was dangerous, but a solution like that proposed in CT4 by coding in the JSON could work. It was essential to upgrade the PCF.

The Chairman reported that there was precedence for this using a dummy ISDSN in an old application. So the same approach could be taken for a dummy supi.

China Mobile asked for more time for off line discussion.

Ericsson believed either solution would in effect result in backward incompatibility. Nokia believed the main problem was that if the server moved to v2, then interworking with a v1 client would no longer be possible. Both sides would have to upgrade. But retaining v1, this problem was avoided, except for the emergency situation. This was far preferable, excepting that a way would have to be found of handling the emergency, exceptional, case. Ericsson wondered if it was viable to change supi from mandatory to optional. The problem was compounding itself with each bodge. Oracle proposed a low risk solution using IMSI'. This was more elegant than a "we did it wrong" flag!

**Decision:** The document was **revised to C3-195305**.

**C3-195305 Correction of AF Charging Identifier data type**

*Type: CR For: Agreement  
 29.512 v15.5.0 CR-0387 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson*

(Replaces C3-195153)

**Discussion:**

After extensive discussion, no consensus could be reached and the topic was postponed to the next meeting. But after further discussion it was possible to conclude.

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

**C3-195154 Correction of AF Charging Identifier data type**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0388 Cat: A (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Mirror

**Decision:** The document was **revised to C3-195306**.

**C3-195306 Correction of AF Charging Identifier data type**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0388 rev 1 Cat: A (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-195154)

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

**C3-195193 Correction to SUPI attribute**

*Type: CR For: Agreement  
 29.512 v15.5.0 CR-0391 Cat: F (Rel-15)  
  
 Source: Samsung*

**Abstract:**

Update Npcf\_SMPolicyControl API (Annex A.2) making supi optional.

**Discussion:**

Nokia wondered whether supi was really conditional. The required attribute had now become optional, and there was concerned over backward compatibility. The Chairman shared this concern. The version of the API would need to be changed to v2.

Huawei wondered whether some other solution might be possible, maintaining backward compatibility, but had no concrete proposal.

Ericsson wished it to be confirmed that supi was optional - or mandatory with a "dummy" value.

There was no resisstance amongst delegates to incrementing the OpenAPI version.

Ericsson was concerned that the reason for change on the CR was deficient. In fact, many clauses of the spec should have been updated.

Ericsson suggested that CT3 should take time for a detailed review of potential changes, but time was short. Perhaps this change should be postponed to the next meeting.

Nokia agreed that further changes in the next meeting would probably be needed, and the API version could be upgraded then.

Openet was concerned that there was a danger of breaking the protocol if insufficient care was taken with this change. They proposed including a note to indicate that more changes were to come.

Nokia was concerned that this unclean solution would be mirrored to Rel-16, and this was undesirable.

Huawei observed that CT4 was currently debating how to manage such dichotomies. The Huawei proposal was that supi should be ignored for an emergency session. Nevertheless, the Chairman insisted that a dummy value should be defined for this eventuality. But it was agreed that it was poor specification to allow a mandatory attribute to be ignored.

Ericsson thought the best solution would be to postpone this CR and increment the version next time. Samsung noted that there were already implementations with supi as mandatory, but there was some doubt as to whether these implementations would work for emmergency sessions.

Nokia believed that it was desirable to find a generic solution for cases such as this. Ericsson agreed that a "proper" fix should be found.

China Mobile believed CT3 and CT4 solutions should be compatible, albeit with different APIs.

There was a preference for having a dummy (invalid) supi patern rather than an "ignore me" flag. (Oracle, Samsung, …) but there was no agreement on what value to use. Openet still had a preference for changing from mandatory to optional, this was safer for backward compatibility.

The TSG CT Chairman recalled a similar situation with SIP. In this case, a specific (valid) value had been selected.

Ericsson recalled that the only use case which would fail at present was the emergency session. But the solution here would only work if both entities were upgraded. So why not do it properly and use the solution proposed by Samsung? Further exchanges of views took place. China Mobile supported the dummy supi value.

Oracle proposed to leave the supi blank.But, it was countere, the problem was that the format of the IMSI was well established and outside the remit of CT3, in 23.003. In this case, why not explicitly define the new pattern as specifically valid and related to an emergency session. Huawei maintained that in an emergency session there would be no subscription check so the supi would be ignored, so its value was irrelevant, other than it should be invalid.

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

**C3-195194 Correction to SUPI attribute**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0392 Cat: A (Rel-16)  
  
 Source: Samsung*

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

#### 15.2.5 Policy Authorization Services (TS 29.514)

**C3-195118 Correct VLAN tag description**

*Type: CR For: Agreement  
 29.514 v15.5.0 CR-0150 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Abstract:**

Clarify which array instance the C/S-TAG belongs to.

Clarify the encoding for the VID or PCP/DEI field.

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

**C3-195119 Correct VLAN tag description**

*Type: CR For: Agreement  
 29.514 v16.2.0 CR-0151 Cat: A (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

rror CR

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

**C3-195155 Corrections to several mistakes**

*Type: CR For: Agreement  
 29.514 v15.5.0 CR-0152 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Abstract:**

There are some mistakes in TS 29.514 that remain unsolved:

• Clause 4.2.6.3 referres to a non-existing attribute “eventSubsc” instead of referring to the “events” attribute.

• Clauses 4.2.2.6 and 4.2.2.7 refer to the “evSubsc” attribute instead of referring to the sub-attribute “events” in it.

• Table 5.6.1-2 reuses the Uri data type from TS 29.571, however the OpenAPI file references to TS 29.122.

In addition:

• Clause 4.2.2.2 misspell the ueIpv4 and ueIpv6 attributes, using instead “ueIPv4” and “ueIPv6”.

• Table 5.6.2.5 wrongly describes the “mpsId” attribute, referring to the creation of the Individual Application Session Context resource instead to its modification.

• Table 5.6.2.7, 5.6.2.8, 5.6.2.26, 5.6.2.27, define Integer data type instead of integer.

.

The mistakes listed above are corrected.

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

**C3-195156 Corrections to several mistakes**

*Type: CR For: Agreement  
 29.514 v16.2.0 CR-0153 Cat: A (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Mirror CR

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

#### 15.2.6 Policy and Charging Control signalling flows and QoS parameter mapping (TS 29.513)

#### 15.2.7 Network Data Analytics Services (TS 29.520)

#### 15.2.8 Interworking between 5G Network and External Data Networks (TS 29.561)

#### 15.2.9 Usage of the Unified Data Repository service for Policy Control Data and Structured Data (TS 29.519)

**C3-195060 Definition of BdtData in OpenAPI**

*Type: CR For: Agreement  
 29.519 v15.5.0 CR-0157 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Abstract:**

The name of property in the required field corrected to "aspId".

In addition, some lines corrected to style "PL".

**Discussion:**

Nokia noted that there was no change in the properties field, so it might be considered as backward-incompatible, but in this case it was acceptable.

China Mobile had some concerns over this. Ericsson clarified the situation: it was a corner case.

Openet agreed that this was an essential change to prevent misoperation of the protocol.

It was acceptable to correct the name of the property in the requied fields in a backward compatible way.

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

**C3-195061 Definition of BdtData in OpenAPI**

*Type: CR For: Agreement  
 29.519 v16.1.1 CR-0158 Cat: A (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Mirror

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

#### 15.2.10 Packet Flow Description Management Service (TS 29.551)

#### 15.2.11 Network Exposure Function Northbound APIs (TS 29.522)

**C3-195116 Correct cardinality in traffic influence**

*Type: CR For: Agreement  
 29.522 v15.4.0 CR-0114 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Abstract:**

Change the cardinality for tempValidities in data model definition to align with yaml file.

Fill ‘M’ in the GET response with 0 or N TrafficInfluSub.

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

**C3-195117 Correct cardinality in traffic influence**

*Type: CR For: Agreement  
 29.522 v16.1.0 CR-0115 Cat: A (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Mirror CR

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

**C3-195084 make the storage of traffic influence request in the UDR mandatory**

*Type: CR For: Agreement  
 29.522 v15.4.0 CR-0111 Cat: F (Rel-15)  
  
 Source: ZTE*

**Abstract:**

FASMO change:

In subclause 4.4.7.3, correct “may” to “shall”.

and other editorial corrections:

- Correct UP\_PATH\_CH to UP\_PATH\_CHANGE in Table 5.4.3.3.4-1

- Correct CHANGE\_OF\_DNAI to UP\_PATH\_CHANGE in openAPI file

**Discussion:**

Nokia queried the first change, from optional to mandatory. There was in fact no alternative. The WI code was wrong.

**Decision:** The document was **revised to C3-195325**.

**C3-195325 make the storage of traffic influence request in the UDR mandatory**

*Type: CR For: Agreement  
 29.522 v15.4.0 CR-0111 rev 1 Cat: F (Rel-15)  
  
 Source: ZTE*

(Replaces C3-195084)

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

**C3-195085 make the storage of traffic influence request in the UDR mandatory**

*Type: CR For: Agreement  
 29.522 v16.1.0 CR-0112 Cat: A (Rel-16)  
  
 Source: ZTE*

**Abstract:**

Misrror CR

**Decision:** The document was **revised to C3-195326**.

**C3-195326 make the storage of traffic influence request in the UDR mandatory**

*Type: CR For: Agreement  
 29.522 v16.1.0 CR-0112 rev 1 Cat: A (Rel-16)  
  
 Source: ZTE*

(Replaces C3-195085)

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

#### 15.2.12 Binding Support Management Service (TS 29.521)

#### 15.2.13 Background Data Transfer Policy Control Service (TS 29.554)

#### 15.2.14 Spending Limit Control Service (TS 29.594)

#### 15.2.15 UE Policy Control Service (TS 29.525)

**C3-195145 Correction to PolicyUpdate**

*Type: CR For: Agreement  
 29.525 v15.3.0 CR-0063 Cat: F (Rel-15)  
  
 Source: Ericsson, ZTE*

**Abstract:**

Update clause 5.6.2.5 to change the presence of the resourceUri attribute from C to M, and to remove the presence condition from the description column.

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

**C3-195146 Correction to PolicyUpdate**

*Type: CR For: Agreement  
 29.525 v16.1.0 CR-0064 Cat: A (Rel-16)  
  
 Source: Ericsson, ZTE*

**Abstract:**

Mirror CR

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

**C3-195151 Correction on 307 error, 29.525**

*Type: CR For: Agreement  
 29.525 v15.3.0 CR-0065 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Abstract:**

Update 4.2.4.3 to indicate that after 307 or 404 the PCF shall send to the received URL the reattempt of the failed policy update notification.

**Discussion:**

Huawei considered that this change was not needed from a technical point of view. There would be no subsequent message.

Ericsson understood the point but preferred technical rigour.

Oracle believed the change was indeed required.

Nokia thought there would be no difference from a functional point of view, but it was indeed correct to make this change, in line with the 307 error response.

**Decision:** The document was **revised to C3-195327**.

**C3-195327 Correction on 307 error, 29.525**

*Type: CR For: Agreement  
 29.525 v15.3.0 CR-0065 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson*

(Replaces C3-195151)

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

**C3-195152 Correction on 307 error, 29.525**

*Type: CR For: Agreement  
 29.525 v16.1.0 CR-0066 Cat: A (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Mirror CR

**Decision:** The document was **revised to C3-195328**.

**C3-195328 Correction on 307 error, 29.525**

*Type: CR For: Agreement  
 29.525 v16.1.0 CR-0066 rev 1 Cat: A (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-195152)

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

**C3-195080 the behavior of V-PCF for 202 ATTEMPTING response**

*Type: CR For: Agreement  
 29.525 v15.3.0 CR-0061 Cat: F (Rel-15)  
  
 Source: ZTE*

**Abstract:**

1st change:

It’s proposed that when the V-PCF receives a POST response body with a cause "ATTEMPTING\_TO\_REACH\_UE", it shall not notify the H-PCF and shall store the further "MANAGE UE POLICY COMMAND" messages from the H-PCF if received.

All the other changes are about typo corrections.

**Discussion:**

The WI code was wrong.

Ericsson sought clarification of the procedures: did the V-PCF buffer the information? ZTE said yes, it would store it. Ericsson wondered whether it was necessary to receive policy information. Why would this message be stored in the V-PCF? And if so, why? Did this all relate to an unreachable UE?

Huawei sought to clarify the procedure. Perhaps the text could be further clarified.

The Chairman warned against attempting to specify matters beyond the scope of this TS.

There was further discussion on the wider picture, and more detaill needed to be included in the TS.

**Decision:** The document was **revised to C3-195329**.

**C3-195329 the behavior of V-PCF for 202 ATTEMPTING response**

*Type: CR For: Agreement  
 29.525 v15.3.0 CR-0061 rev 1 Cat: F (Rel-15)  
  
 Source: ZTE*

(Replaces C3-195080)

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

**C3-195081 the behavior of V-PCF for 202 ATTEMPTING response**

*Type: CR For: Agreement  
 29.525 v16.1.0 CR-0062 Cat: A (Rel-16)  
  
 Source: ZTE*

**Abstract:**

Mirror CR

**Decision:** The document was **revised to C3-195330**.

**C3-195330 the behavior of V-PCF for 202 ATTEMPTING response**

*Type: CR For: Agreement  
 29.525 v16.1.0 CR-0062 rev 1 Cat: A (Rel-16)  
  
 Source: ZTE*

(Replaces C3-195081)

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

#### 15.2.16 Policy Control Event Exposure Service (TS 29.523)

#### 15.2.17 5G Impacts in existing TSs

### 15.3 IMS Stage-3 IETF Protocol Alignment [IMSProtoc9]

### 15.4 CT aspects of Northbound APIs for SCEF-SCSAS Interworking [NAPS-CT]

**C3-195125 Correct application port**

*Type: CR For: Agreement  
 29.122 v15.5.0 CR-0214 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-195276**.

**C3-195276 Correct application port**

*Type: CR For: Agreement  
 29.122 v15.5.0 CR-0214 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson*

(Replaces C3-195125)

**Discussion:**

The tdoc number had not been updated on the cover page.

**Decision:** The document was **revised to C3-195399**.

**C3-195399 Correct application port**

*Type: CR For: Agreement  
 29.122 v15.5.0 CR-0214 rev 2 Cat: F (Rel-15)  
  
 Source: Ericsson*

(Replaces C3-195276)

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

**C3-195126 Correct application port**

*Type: CR For: Agreement  
 29.122 v16.3.0 CR-0215 Cat: A (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-195277**.

**C3-195277 Correct application port**

*Type: CR For: Agreement  
 29.122 v16.3.0 CR-0215 rev 1 Cat: A (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-195126)

**Discussion:**

There had ben an offline comment to merge two bullet points.

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

**C3-195282 Correct SCEF aggregation**

*Type: CR For: Agreement  
 29.122 v15.5.0 CR-0207 rev 4 Cat: F (Rel-15)  
  
 Source: Ericsson*

(Replaces C3-194457)

**Abstract:**

Remove SCEF aggregation for NP configuration results.

Correct inconsistencies.

Change Self to self (attribute name).

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

**C3-195283 Correct SCEF aggregation**

*Type: CR For: Agreement  
 29.122 v16.3.0 CR-0208 rev 4 Cat: A (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-194458)

**Abstract:**

Mirror CR

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

### 15.5 CT aspects of Enhanced Calling Name Service [eCNAM-CT]

### 15.6 EPC enhancements to support 5G New Radio via Dual Connectivity, CT aspects [EDCE5-CT]

### 15.7 Enhancements to Mission Critical Video - CT aspects [eMCVideo-CT]

### 15.8 IMS impact due to 5GS IP-CAN [5GS\_Ph1-IMSo5G]

**C3-195057 P-CSCF restoration in 5GS**

*Type: CR For: Agreement  
 29.165 v15.9.0 CR-0994 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Abstract:**

Specified abbreviations for 5GS, PCF and UDM.

Support of "UDM/HSS based P-CSCF restoration" or "PCF based P-CSCF restoration" procedures added as follows:

- "PCRF based P-CSCF restoration" replaced with "PCRF or PCF based P-CSCF restoration" with the explanation note; and

- "HSS based P-CSCF restoration" replaced with "HSS or UDM/HSS based P-CSCF restoration" with the explanation note.

**Discussion:**

One typo was noted.

**Decision:** The document was **revised to C3-195292**.

**C3-195292 P-CSCF restoration in 5GS**

*Type: CR For: Agreement  
 29.165 v15.9.0 CR-0994 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson*

(Replaces C3-195057)

**Decision:** The document was **revised to C3-195357**.

**C3-195357 P-CSCF restoration in 5GS**

*Type: CR For: Agreement  
 29.165 v15.9.0 CR-0994 rev 2 Cat: F (Rel-15)  
  
 Source: Ericsson*

(Replaces C3-195292)

**Abstract:**

Aligne capability name

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

**C3-195058 P-CSCF restoration in 5GS**

*Type: CR For: Agreement  
 29.165 v16.0.0 CR-0995 Cat: A (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Mirror

**Decision:** The document was **revised to C3-195293**.

**C3-195293 P-CSCF restoration in 5GS**

*Type: CR For: Agreement  
 29.165 v16.0.0 CR-0995 rev 1 Cat: A (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-195058)

**Decision:** The document was **revised to C3-195358**.

**C3-195358 P-CSCF restoration in 5GS**

*Type: CR For: Agreement  
 29.165 v16.0.0 CR-0995 rev 2 Cat: A (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-195293)

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

### 15.9 CT aspects on enhanced VoLTE performance [eVoLP-CT]

### 15.10 CT aspects of 3GPP PS data off function – Phase 2 [PS\_DATA\_OFF2-CT]

### 15.11 Policy and Charging for Volume Based Charging [PC\_VBC]

### 15.12 Common API Framework for 3GPP Northbound APIs

### [CAPIF-CT]

**C3-195211 Correct the notificationDestination of ServiceSecurity object in yaml file**

*Type: CR For: Agreement  
 29.222 v15.4.0 CR-0117 Cat: F (Rel-15)  
  
 Source: China Mobile Communications Group Co.,Ltd.*

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

**C3-195278 Correct the notificationDestination of ServiceSecurity object in yaml file**

*Type: CR For: Agreement  
 29.222 v15.4.0 CR-0117 rev 1 Cat: F (Rel-15)  
  
 Source: China Mobile Communications Group Co.,Ltd.*

(Replaces C3-195211)

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

**C3-195212 Correct the notificationDestination of ServiceSecurity object in yaml file**

*Type: CR For: Agreement  
 29.222 v16.0.0 CR-0118 Cat: A (Rel-16)  
  
 Source: China Mobile Communications Group Co.,Ltd.*

**Decision:** The document was **revised to C3-195279**.

**C3-195279 Correct the notificationDestination of ServiceSecurity object in yaml file**

*Type: CR For: Agreement  
 29.222 v16.0.0 CR-0118 rev 1 Cat: A (Rel-16)  
  
 Source: China Mobile Communications Group Co.,Ltd.*

(Replaces C3-195212)

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

**C3-195213 Align the API name of Initiate\_Authentication**

*Type: CR For: Agreement  
 29.222 v15.4.0 CR-0119 Cat: F (Rel-15)  
  
 Source: China Mobile Communications Group Co.,Ltd.*

**Decision:** The document was **revised to C3-195280**.

**C3-195280 Align the API name of Initiate\_Authentication**

*Type: CR For: Agreement  
 29.222 v15.4.0 CR-0119 rev 1 Cat: F (Rel-15)  
  
 Source: China Mobile Communications Group Co.,Ltd.*

(Replaces C3-195213)

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

**C3-195214 Align the API name of Initiate\_Authentication**

*Type: CR For: Agreement  
 29.222 v16.0.0 CR-0120 Cat: A (Rel-16)  
  
 Source: China Mobile Communications Group Co.,Ltd.*

**Decision:** The document was **revised to C3-195281**.

**C3-195281 Align the API name of Initiate\_Authentication**

*Type: CR For: Agreement  
 29.222 v16.0.0 CR-0120 rev 1 Cat: A (Rel-16)  
  
 Source: China Mobile Communications Group Co.,Ltd.*

(Replaces C3-195214)

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

### 15.13 SRVCC for terminating call in pre-alerting phase

### [bSRVCC-MT]

### 15.14 Mobile Communication System for Railways

### [MONASTERY]

### 15.15 Enhancements to Call spoofing functionality

### [eSPECTRE]

### 15.16 CT aspects of 5G Trace management [NETSLICE-5GTRACE-CT]

### 15.17 Technical Enhancements and Improvements [TEI15]

#### 15.17.1 TEI15 for IMS/CS

#### 15.17.2 TEI15 for Packet Core

**C3-195113 Format for FEC framework configuration information in MB2**

*Type: CR For: Agreement  
 29.468 v15.7.0 CR-0051 rev 2 Cat: F (Rel-15)  
  
 Source: ENENSYS, Ericsson*

(Replaces C3-190446)

**Abstract:**

The format for FEC framework configuration information is modified to subclause 8A.5 of TS 26.346

**Discussion:**

It was questioned why there was no Rel-16 mirror. This was because there was not yet a Rel-16 version.

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

**C3-195114 Format for FEC framework configuration information in xMB**

*Type: CR For: Agreement  
 29.116 v15.1.0 CR-0023 rev 3 Cat: F (Rel-15)  
  
 Source: ENENSYS, Ericsson*

(Replaces C3-190457)

**Abstract:**

The reference to RFC 6364 is removed.

The format for FEC framework configuration information is modified to subclause 8A.5 of TS 26.346

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

**C3-195115 Format for FEC framework configuration information in xMB**

*Type: CR For: Agreement  
 29.116 v16.2.0 CR-0041 Cat: A (Rel-16)  
  
 Source: ENENSYS, Ericsson*

**Abstract:**

Mirror CR

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

**C3-195127 Correct transit failure code for UE suspension**

*Type: CR For: Agreement  
 29.212 v15.8.0 CR-1695 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Abstract:**

Define the transit failure code and event trigger value for UE suspension.

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

**C3-195128 Correct transit failure code for UE suspension**

*Type: CR For: Agreement  
 29.212 v16.1.0 CR-1696 Cat: A (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Mirror CR

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

**C3-195129 LS on transit failure code in TS 29.212**

*Type: LS out For: Approval  
 to CT4  
 Source: Ericsson*

**Discussion:**

It was proposed to send a single LS to CT4 to include all necessary aspects. But after discussion, it seemed that there was only one aspect.

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

### 15.18 OpenAPI version updates

**C3-195033 Update of TS version\_Rel-15**

*Type: CR For: Agreement  
 29.519 v15.5.0 CR-0154 Cat: F (Rel-15)  
  
 Source: Huawei*

**Abstract:**

Update the TS version in externalDocs field to Policy Data of Nudr\_DataRepository API.

**Discussion:**

Ericsson questioned the reason for change, which was a little confusing. It should include all the relevant CRs which impacted the externalDocs version. Or a generic reason should be offered.

**Decision:** The document was **revised to C3-195333**.

**C3-195333 Update of TS version\_Rel-15**

*Type: CR For: Agreement  
 29.519 v15.5.0 CR-0154 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces C3-195033)

**Decision:** The document was **revised to C3-195386**.

**C3-195386 Update of TS version\_Rel-15**

*Type: CR For: Agreement  
 29.519 v15.5.0 CR-0154 rev 2 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces C3-195333)

**Abstract:**

Corrects the WI code.

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

**C3-195074 OpenAPI version update of Rel-15 Nudr\_DataRepository API**

*Type: discussion For: Information  
 Source: Huawei*

**Discussion:**

It was noted that there was an additional CR which should be included in the document.

**Decision:** The document was **revised to C3-195334**.

**C3-195334 OpenAPI version update of Rel-15 Nudr\_DataRepository API**

*Type: discussion For: Information  
 Source: Huawei*

(Replaces C3-195074)

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

**C3-195335 Update of OpenAPI version and TS version in externalDocs**

*Type: CR For: Agreement  
 29.512 v15.5.0 CR-0395 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-195414**.

**C3-195414 Update of OpenAPI version and TS version in externalDocs**

*Type: CR For: Agreement  
 29.512 v15.5.0 CR-0395 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces C3-195335)

**Decision:** The document was **revised to C3-195424**.

**C3-195424 Update of OpenAPI version and TS version in externalDocs**

*Type: CR For: Agreement  
 29.512 v15.5.0 CR-0395 rev 2 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces C3-195414)

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

**C3-195336 Update of OpenAPI version and TS version in externalDocs**

*Type: CR For: Agreement  
 29.514 v15.5.0 CR-0160 Cat: F (Rel-15)  
  
 Source: Ericsson*

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

**C3-195337 Update of OpenAPI version and TS version in externalDocs**

*Type: CR For: Agreement  
 29.522 v15.4.0 CR-0117 Cat: F (Rel-15)  
  
 Source: Huawei*

**Abstract:**

Update the API version number and TS version for above N33 APIs.

**Discussion:**

It was believed that there were no other CRs iwhich updated the API.

**Decision:** The document was **revised to C3-195413**.

**C3-195413 Update of OpenAPI version and TS version in externalDocs**

*Type: CR For: Agreement  
 29.522 v15.4.0 CR-0117 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces C3-195337)

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

**C3-195359 Update of API version and TS version in OpenAPI file**

*Type: CR For: Agreement  
 29.508 v15.5.0 CR-0063 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**C3-195362 Update of API version and TS version in OpenAPI file**

*Type: CR For: Agreement  
 29.122 v15.5.0 CR-0219 Cat: F (Rel-15)  
  
 Source: Huawei*

**Discussion:**

The work item code was wrong.

**Decision:** The document was **revised to C3-195412**.

**C3-195412 Update of API version and TS version in OpenAPI file**

*Type: CR For: Agreement  
 29.122 v15.5.0 CR-0219 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces C3-195362)

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

**C3-195365 Update of OpenAPI version and TS version in externalDocs field**

*Type: CR For: Agreement  
 29.222 v15.4.0 CR-0122 Cat: F (Rel-15)  
  
 Source: Samsung*

**Discussion:**

Email agreement, see details in C3-195351.

**ACTION: To make available.  
 (action on: Samsung / due by: 2019-11-20)**

**ACTION: To review.  
 (action on: All delegates / due by: 2019-11-22)**

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

## 16 Release 16

### 16.1 Rel-16 Work Items

#### 16.1.1 New or revised Work Items

**C3-195031 CT aspects of Cellular IoT support and evolution for the 5G System**

*Type: WID revised For: Agreement  
 Source: QUALCOMM Europe Inc. - Italy*

**Decision:** The document was **revised to C3-195372**.

**C3-195372 CT aspects of Cellular IoT support and evolution for the 5G System**

*Type: WID revised For: Agreement  
 Source: QUALCOMM Europe Inc. - Italy*

(Replaces C3-195031)

**Abstract:**

Removes specs not in fact affected.

**Discussion:**

An off line comment had been received from CT4.

**Decision:** The document was **revised to C3-195400**.

**C3-195400 CT aspects of Cellular IoT support and evolution for the 5G System**

*Type: WID revised For: Agreement  
 Source: QUALCOMM Europe Inc. - Italy*

(Replaces C3-195372)

**Decision:** The document was **endorsed**.

**C3-195040 Discussion for 5G\_SRVCC WID update**

*Type: discussion For: Information  
 Source: China Unicom, ZTE*

**Abstract:**

This discussion paper provides additional impacts to CT3 specs 29.512,29.514 and CT4 specification 29.502.

**Discussion:**

ZTE presented the document. Huawei had some reservations on the clarity of stage 2, but agreed that CT3 work would be needed after clarification of the stage 2.

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

**C3-195041 Revised WID on CT aspect of single radio voice continuity from 5GS to 3G**

*Type: WID revised For: Agreement  
 Source: China Unicom, ZTE*

(Replaces CP-191062)

**Discussion:**

ZTE presented the update in detail. The Chairman hoped that the text was sufficiently flexible. Ericsson noted there was no specified impact for 29.514, and doubted there was any impact on 29.571.

**Decision:** The document was **revised to C3-195223**.

**C3-195223 Revised WID on CT aspect of single radio voice continuity from 5GS to 3G**

*Type: WID revised For: Agreement  
 Source: China Unicom, ZTE*

(Replaces C3-195041)

**Discussion:**

It was necessary to include the Rx impacts.

**Decision:** The document was **revised to C3-195415**.

**C3-195415 Revised WID on CT aspect of single radio voice continuity from 5GS to 3G**

*Type: WID revised For: Agreement  
 Source: China Unicom, ZTE*

(Replaces C3-195223)

**Discussion:**

It was reported that the document had not been discussed in CT4.

**Decision:** The document was **endorsed**.

**C3-195071 Revised WID on CT aspects on wireless and wireline convergence for the 5G system architecture**

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

(Replaces CP-192079)

**Discussion:**

Huawei indicated the updates, which did not impact CT3.

**Decision:** The document was **revised to C3-195387**.

**C3-195387 Revised WID on CT aspects on wireless and wireline convergence for the 5G system architecture**

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

(Replaces C3-195071)

**Decision:** The document was **endorsed**.

#### 16.1.2 Contributions on Work Items

**C3-195042 Indication of PS to CS Handover for 5G SRVCC from SMF to PCF**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0372 Cat: B (Rel-16)  
  
 Source: ZTE*

**Abstract:**

This contribution proposes to send indication of PS to CS handover to PCF when SMF request SM policy association deletion.

**Discussion:**

ZTE noted that discussion in CT4 would have an impact on CT3 treatment of this topic.

Huawei remarked that SA2 work was still under weigh on the topic.

Vodafone wondered whether the ps2CsHoIndication could be an enumerated type rather than boolean.

It was noted that there was an embedded comment on ranNsasRelCauses.

Vodafone proposed some improved wording for the first change. It would be useful to provide more detail, referring to the message flows shown in the figure above.

Ericsson also thought the text was not optimal. Samsung agreed.

**Decision:** The document was **revised to C3-195288**.

**C3-195288 Indication of PS to CS Handover for 5G SRVCC from SMF to PCF**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0372 rev 1 Cat: B (Rel-16)  
  
 Source: ZTE, Ericsson*

(Replaces C3-195042)

**Discussion:**

The type of ps2CsHoIndication had been changed to emumerated. Other commentrs received off line had also been incorporated.

**Decision:** The document was **revised to C3-195401**.

**C3-195401 Indication of PS to CS Handover for 5G SRVCC from SMF to PCF**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0372 rev 2 Cat: B (Rel-16)  
  
 Source: ZTE, Ericsson*

(Replaces C3-195288)

**Discussion:**

A minor editorial was detected. A clarifying internal reference could usefully be added.

**Decision:** The document was **revised to C3-195409**.

**C3-195409 Indication of PS to CS Handover for 5G SRVCC from SMF to PCF**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0372 rev 3 Cat: B (Rel-16)  
  
 Source: ZTE, Ericsson*

(Replaces C3-195401)

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

**C3-195043 Indication of PS to CS Handover for 5G SRVCC from PCF to AF**

*Type: CR For: Agreement  
 29.514 v16.2.0 CR-0147 Cat: B (Rel-16)  
  
 Source: ZTE*

**Abstract:**

This contribution proposes to send indication of PS to CS handover to AF when PCF request Application session release.

**Decision:** The document was **revised to C3-195221**.

**C3-195221 Indication of PS to CS Handover for 5G SRVCC from PCF to AF**

*Type: CR For: Agreement  
 29.514 v16.2.0 CR-0147 rev 1 Cat: B (Rel-16)  
  
 Source: ZTE*

(Replaces C3-195043)

**Abstract:**

This contribution proposes to send indication of PS to CS handover to AF when PCF request Application session release.

**Discussion:**

Some off line comments had been provided to the author.

**Decision:** The document was **revised to C3-195289**.

**C3-195289 Indication of PS to CS Handover for 5G SRVCC from PCF to AF**

*Type: CR For: Agreement  
 29.514 v16.2.0 CR-0147 rev 2 Cat: B (Rel-16)  
  
 Source: ZTE*

(Replaces C3-195221)

**Decision:** The document was **revised to C3-195394**.

**C3-195394 Indication of PS to CS Handover for 5G SRVCC from PCF to AF**

*Type: CR For: Agreement  
 29.514 v16.2.0 CR-0147 rev 3 Cat: B (Rel-16)  
  
 Source: ZTE*

(Replaces C3-195289)

**Discussion:**

Huawei believed it was necessary to add a condition. ZTE had made a reference to cover this. Nevertheless some improvement of the text could be envisaged.

**Decision:** The document was **revised to C3-195410**.

**C3-195410 Indication of PS to CS Handover for 5G SRVCC from PCF to AF**

*Type: CR For: Agreement  
 29.514 v16.2.0 CR-0147 rev 4 Cat: B (Rel-16)  
  
 Source: ZTE*

(Replaces C3-195394)

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

### 16.2 Multi-device and multi-identity [MuD]

**C3-195059 Additional-Identity header in REFER request**

*Type: CR For: Agreement  
 29.165 v16.0.0 CR-0996 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Clause 12.26: added that an Additional-Identity header field can be present in a SIP REFER request.

Clause B.13: Additional-Identity header field added in table B.13.1.

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

### 16.3 IMS Stage-3 IETF Protocol Alignment [IMSProtoc16]

### 16.4 Enhancement of 5G PCC related services [en5GPccSer]

**C3-195062 Usage of BdtReferenceId data type**

*Type: CR For: Agreement  
 29.519 v16.1.1 CR-0159 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Definition of the "bdtRefId" attribute changed to reuse "BdtReferenceId" defined in TS 29.122.

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

**C3-195063 Removal of non-breaking spaces, TABs and $ref descriptions**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0375 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

TABs removed from the OpenAPI file.

Non-breaking spaces replaced with "normal" spaces.

In addition, reference identities for the referenced 3GPP TSs and referencing note "(NOTE)" deleted from descriptions as they do not have any meaning in the OpenAPI file.

Some lines corrected to style "PL".

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

**C3-195064 Removal of TABs from OpenAPI file**

*Type: CR For: Agreement  
 29.525 v16.1.0 CR-0058 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

TABs removed from the OpenAPI file.

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

**C3-195096 AMF change in the HR scenario**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0382 Cat: B (Rel-16)  
  
 Source: Huawei*

**Abstract:**

Clarify that in HR roaming case, if the AMF change is unknown by the H-SMF, then the AMF change is not reported.

**Discussion:**

Ericsson had some concerns with the logic of the CR. Why did this information have to be in the TS? The new text was not a requirement. The new text could be a note instead of main body text.

Huawei remarked that this was in the stage 2.

**Decision:** The document was **revised to C3-195284**.

**C3-195284 AMF change in the HR scenario**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0382 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-195096)

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

**C3-195098 Same PCF selection for the same UE ID, S-NSSAI and DNN combination**

*Type: CR For: Agreement  
 29.521 v16.1.0 CR-0053 Cat: B (Rel-16)  
  
 Source: Huawei*

**Abstract:**

1) The PCF includes an indication that the same PCF selection for the combination of SUPI, S-NSSAI, DNN is required.

2) BSF rejects the registration with 409 status code if there is an existing PCF binding.

**Discussion:**

Samsung had doubts over how the changes had been implemented in this CR. The solution should be with the PCF database. The Huawei proposal was too restrictive.

Ericsson asked for clarification of the Samsung proposal. Would it not be easier to use a query parameter? But maybe this would make implementation more complex.

China Mobile thought there would be many possible combinations with the Huawei proposal. The choice of PCF was not clear. Huawei indicating that the CR offered a solution for a fairly limited scenario. A lengthy discussion ensued.

Ericssonn was concerned about the use of error code 409. This was a mechanism for controlling updates. But here it was impacting the creation of the resource, so a 303 error was to be preferred.

A few typos were also identified.

**Decision:** The document was **revised to C3-195285**.

**C3-195285 Same PCF selection for the same UE ID, S-NSSAI and DNN combination**

*Type: CR For: Agreement  
 29.521 v16.1.0 CR-0053 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-195098)

**Discussion:**

ZTE asked for the data type in 5.6.2.y. Ericsson said there was a typo. The new data type was the result of the combination of the other two types.

The status code should have been 403. Some editorial improvements were identified.

Oracle asked for clarification of clause 5.6.2.y concerning data types and attributes.

**Decision:** The document was **revised to C3-195389**.

**C3-195389 Same PCF selection for the same UE ID, S-NSSAI and DNN combination**

*Type: CR For: Agreement  
 29.521 v16.1.0 CR-0053 rev 2 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-195285)

**Discussion:**

It was clarified that at least one of the atributes in table 5.6.2.x-1 had to be present (and hence the note). Ericsson said the same applied to other tables, but no note appeared. But the note would have to be reworded if more attributes were added at a later date.

**Decision:** The document was **revised to C3-195404**.

**C3-195404 Same PCF selection for the same UE ID, S-NSSAI and DNN combination**

*Type: CR For: Agreement  
 29.521 v16.1.0 CR-0053 rev 3 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-195389)

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

**C3-195097 Same PCF selection for the same UE ID, S-NSSAI and DNN combination**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0383 Cat: B (Rel-16)  
  
 Source: Huawei*

**Abstract:**

1) Status code "308 Permanent Redirect" is introduced.

2) "SamePcf" feature is defined.

**Discussion:**

Some of the same remarks applied to this CR as applied to the previous one.

Ericsson wondered how the PCF could know all the parameters. First, did enough information exist to create the resource, and if the resource already existed (303 error), the PCF would have to request the parameter values for the binding.

Huawei indicated that the scenario was described in the previous CR, in the table note. Ericsson were not convinced.

Some typos were found.

**Decision:** The document was **revised to C3-195286**.

**C3-195286 Same PCF selection for the same UE ID, S-NSSAI and DNN combination**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0383 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-195097)

**Discussion:**

Ericsson was worried that excluding this flexibility, 29.521 would not be used. Huaway responded that the latter spec was for the future.

Ericsson wished for more precision in the new text in 4.2.2.2.

ZTE noted that this CR had a dependency on a CR which was not already decided.

Oracle was concerned about the feature list for the N7 interface. What would be the reaction to a 308 error? An extended discussion with Oracle, Huawei and Ericsson ensued.

An explanatory note would be added.

**Decision:** The document was **revised to C3-195388**.

**C3-195388 Same PCF selection for the same UE ID, S-NSSAI and DNN combination**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0383 rev 2 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-195286)

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

**C3-195123 Correct the redirection server address to support dual stack UE**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0386 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Use additional array to include the extra redirect addresses which is controlled by the new feature.

**Discussion:**

Vodafone questioned the backward compatibility. In Rel-15 it was posible to send multiple element, but now in Rel-16 only one would be possible. Ericsson explained the scenario, and this was one example justifying moving to a v2 of the API.

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

**C3-195304 Request of SM Policy Association Termination during the Update procedure**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0377 rev 1 Cat: B (Rel-16)  
  
 Source: Oracle Corporation*

(Replaces C3-195077)

**Abstract:**

Aligning the SMPolicyControl service by enabling the PCF to request the termination of the PDU session as a response to the Npcf\_SMPolicyControl\_Update from the SMF.

To keep changes backward compatible, PCF can requests termination in response only when “RespBasedSessionRel” feature is supported.

**Discussion:**

The CR was originally a mirror treated under agenda item 15.2.4. But it was decided not persue the Rel-15 version.

The Chairman noted that the release cause value in a CR at CT3#106 needed to be included. In fact, this had been revised by a Huawei CR to the present meeting.

Ericsson identified a few typographical errors. Uawei requested the new bullet with that of the new clause. And the Release cause was an attribute rather than a parameter.

**Decision:** The document was **revised to C3-195375**.

**C3-195375 Request of SM Policy Association Termination during the Update procedure**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0377 rev 2 Cat: B (Rel-16)  
  
 Source: Oracle Corporation*

(Replaces C3-195304)

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

**C3-195188 Subscription and notification to data changes related to a subset of resource data, Policy Data set**

*Type: CR For: Agreement  
 29.519 v16.1.1 CR-0163 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

For the Subscription to data changes data types:

A new attribute called “monResItems”, whose handling depends on the feature “ConditionalSubscription” is supported, is defined to indicate that the subscription to notification of data changes is conditioned to the modification occurs in one or more of the resource fragments included in the “monResItems” attribute.

This IE may also include the list of resource fragmens that may be included in the notification of a modification in a given resource fragment when the “NotificationResourceFragment” feature is supported.

The identification of the subset of resource data to monitor for data changes is defined in the SubscriptionItem data type, which contains two attributes:

- “monResourceUri”, that identifies to which resource the conditional subscription referes to; and

- “monFragments”, that contains the details of the subscription to notification on changes on a resource fragment, i.e., it contains:

o the target location of the resource fragment in the “fragmentPath” attribute, and,

o when the “NotificationResourceFragment” feature is supported, the “notifiedItems” attribute with the list of resource fragments to include in the notification triggered by the modification of the resource fragment indicated in the “fragmentPath” attribute.

For the Notification of data changes data types:

A new attribute called “reportedFragments” encoded as an array of “NotificationItem” types is defined within the PolicyDataChangeNotification type and represents the list of resource fragments notified as result of the modification of a given resource fragment.

This attribute is included when the “NotificationResourceFragment” feature is supported, and the subscription requested the notification of resource fragments.

**Discussion:**

Huawei wondered if a simpler solution might be envisaged. Ericsson stated that this field was needed to identify the resource.

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

**C3-195216 Serving 4G only UEs by SMF+PGW-C**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0358 rev 3 Cat: B (Rel-16)  
  
 Source: Vodafone Romania S.A.*

(Replaces C3-194425)

**Abstract:**

Re-word undefined term "4G UE". Convert NOTE to normative text.

**Discussion:**

Vodafone expressed some concern that "larger" decimal numbers greater than 15 might not be supported in the Session Id. This needed to be checked independently.

The Chairman noted that the CR revision history had not been used. The original "reason for change" ought to have been retained.

There was some concern over Vodafone revising a Huawei CR. But Huawei seemed to be happy with this.

**Decision:** The document was **revised to C3-195287**.

**C3-195287 Serving 4G only UEs by SMF+PGW-C**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0358 rev 4 Cat: B (Rel-16)  
  
 Source: Huawei, Vodafone Romania S.A.*

(Replaces C3-195216)

**Abstract:**

Coversheet reverted to original text. Terminologie aligned with 4G UE. Calculation of session id clarified.

**Discussion:**

The document was now aligned with stage 2.

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

**C3-195052 MCS Priority Level**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0374 Cat: B (Rel-16)  
  
 Source: FirstNet*

**Abstract:**

A new subclause 4.2.6.2.X is added. It is modelled directly on subclause 4.2.6.2.12 which provides provisioning of PCC rules for MPS.

**Discussion:**

Firstnet had queried whether it would be good to combine all MC services and MM priority into one place, but there had been little reaction.

The Chairman wondered whether there was any SA2 dependency.

The Work item should have been en5GPccSer (the cover showed 5GS\_Ph1-CT).

References to clauses needed correcting.

The Chairman asked could a non-MCS service be a MM Priority service? The spec as structured as if these two types were mutually exclusive. Firstnet agreed to clarify this by removing the offending sentence.

**Decision:** The document was **revised to C3-195339**.

**C3-195339 MCS Priority Level**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0374 rev 1 Cat: B (Rel-16)  
  
 Source: FirstNet*

(Replaces C3-195052)

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

**C3-195053 MCS Priority Level**

*Type: CR For: Agreement  
 29.513 v16.1.0 CR-0099 Cat: B (Rel-16)  
  
 Source: FirstNet*

**Abstract:**

Support for MCS priority, MCS specific QoS class handling, and MCS specific ARP handling is added.

**Discussion:**

It was proposed to remove 7.3.2 in this TS.

**Decision:** The document was **revised to C3-195340**.

**C3-195340 MCS Priority Level**

*Type: CR For: Agreement  
 29.513 v16.1.0 CR-0099 rev 1 Cat: B (Rel-16)  
  
 Source: FirstNet*

(Replaces C3-195053)

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

**C3-195054 MCS Priority Level**

*Type: CR For: Agreement  
 29.514 v16.2.0 CR-0149 Cat: B (Rel-16)  
  
 Source: FirstNet*

**Abstract:**

Support for invocation of Mission Critical Services (MCS), modification of MCS, termination of MCS, and the definition of mcsid are added.

**Discussion:**

As above, the text was based upoon that for MPS. An error in table 5.6.2.3-1 was detected.

**Decision:** The document was **revised to C3-195341**.

**C3-195341 MCS Priority Level**

*Type: CR For: Agreement  
 29.514 v16.2.0 CR-0149 rev 1 Cat: B (Rel-16)  
  
 Source: FirstNet*

(Replaces C3-195054)

**Decision:** The document was **revised to C3-195369**.

**C3-195369 MCS Priority Level**

*Type: CR For: Agreement  
 29.514 v16.2.0 CR-0149 rev 2 Cat: B (Rel-16)  
  
 Source: FirstNet*

(Replaces C3-195341)

**Abstract:**

Introduces a note "This CR introduces a backward compatible feature to the API." on the cover page.

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

**C3-195055 MCS Priority Level**

*Type: CR For: Agreement  
 29.519 v16.1.1 CR-0156 Cat: B (Rel-16)  
  
 Source: FirstNet*

**Abstract:**

mcsPriority and mcsPriorityLevel are defined.

**Discussion:**

Ericsson believed this was pure IMS signalling which did not apply for MCS. FirstNet believed 29.512 should be changed to align with this.

**Decision:** The document was **revised to C3-195342**.

**C3-195342 MCS Priority Level**

*Type: CR For: Agreement  
 29.519 v16.1.1 CR-0156 rev 1 Cat: B (Rel-16)  
  
 Source: FirstNet*

(Replaces C3-195055)

**Decision:** The document was **revised to C3-195370**.

**C3-195370 MCS Priority Level**

*Type: CR For: Agreement  
 29.519 v16.1.1 CR-0156 rev 2 Cat: B (Rel-16)  
  
 Source: FirstNet*

(Replaces C3-195342)

**Abstract:**

Introduces a note "This CR introduces a backward compatible feature to the Policy Data API." on the cover page.

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

**C3-195210 Add reference to TS 29.524**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0393 Cat: F (Rel-16)  
  
 Source: Orange*

**Abstract:**

Add TS 29.524 in References clause.

Add a NOTE indicating where the mapping towards 5GSM cause code is defined.

**Discussion:**

The work item code was wrong.

Huawei did not think that the new note 3 was applicable to the overlapping case. Orange considered it unnecessary to add a note where it did not apply.

Ericsson believed a CR to 29.524 to include the related value, since it was not already included there. This was under the responsiblilty of CT4, and maybe CT3 should send an LS requesting this inclusion. Pro tem, maybe an editor's note would be required. At present, there was no Rel-16 version of 29.524.

**Decision:** The document was **revised to C3-195331**.

**C3-195331 Add reference to TS 29.524**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0393 rev 1 Cat: F (Rel-16)  
  
 Source: Orange*

(Replaces C3-195210)

**Abstract:**

Editor's note, cover sheet update.

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

**C3-195332 LS out on missing cause code mapping**

*Type: LS out For: Approval  
 to CT4, cc CT1  
 Source: CT3*

**Abstract:**

CT3 has defined in TS 29.512 v16.2 the VALIDATION\_CONDITION\_NOT\_MET application error sent by the PCF to the SMF. This error is returned with a 403 Forbidden HTTP response if the validation condition of a background data transfer policy (i.e. Time Window and/or Location Criteria) is not satisfied. The UE attempts for PDU session establishment or modification are rejected until the validation condition is satisfied.

It is CT3 understanding that this error code shall be mapped by the SMF to the 5GSM cause value #29 “User authentication or authorization failed”.

CT3 has noticed that there is no Rel-16 version of TS 29.524.

**Discussion:**

The LS had been drafted by Orange.

**Decision:** The document was **revised to C3-195374**.

**C3-195374 LS on missing cause code mapping**

*Type: LS out For: Approval  
 to CT4, cc CT1  
 Source: CT3*

(Replaces C3-195332)

**Abstract:**

Full reference supplied

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

### 16.5 CT aspects on Enablers for Network Automation for 5G [eNA]

**C3-195016 Work plan for eNA**

*Type: Work Plan For: Approval  
 Source: Huawei*

**Discussion:**

The Chairman asked Huawei how much work was outstanding. Ericsson questioned issue 18, noting that there was still outstanding SA2 work, and that 95% complete was over optimistic.Ericsson wished to be associated with line 18, as well as Huawei and China Mobile. However, no further update to the document was needed for the present meeting.

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

**C3-195017 Enhance the Nnwdaf\_EventsSubscription service to support User Data Congestion**

*Type: CR For: Agreement  
 29.520 v16.1.0 CR-0056 rev 3 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-194440)

**Abstract:**

Enhance the Nnwdaf\_EventsSubscription service to support user data congestion.

**Discussion:**

Huawei indicated that this was a revision of C3-194440. Ericsson wished a minor clarification in 5.3.6.1.X. A number of typos were identified. Ericsson wondered whether the new values were catered for by the corresponding API, possibly that in document C3-195022.

**Decision:** The document was **revised to C3-195225**.

**C3-195225 Enhance the Nnwdaf\_EventsSubscription service to support User Data Congestion**

*Type: CR For: Agreement  
 29.520 v16.1.0 CR-0056 rev 4 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-195017)

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

**C3-195018 AnalyticsEventNotif and AnalyticsExposureSubsc Data Types**

*Type: CR For: Agreement  
 29.522 v16.1.0 CR-0101 rev 3 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-194442)

**Abstract:**

1. Define the data type for UE Mobility and UE CommunicationInfo

2. use EventReportingRequirement instead of ReportingInformation to indicate the reporting requirements of the analytics event subscription and remove the corresponding Editor’s Note.

**Discussion:**

Was originally reserved for 29.520, hence out of sequence CR number.

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

**C3-195019 Inclusion of QoS requirements and thresholds for QoS sustainability**

*Type: CR For: Agreement  
 29.520 v16.1.0 CR-0059 rev 4 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-194461)

**Abstract:**

Define the QoS requirements and threshold.

In clause 4.2.2.2.2 and 5.1.6.2.3 , include the QoS requirements and threshold information in the Nnwdaf\_EventsSubscription service operaiton and API data models;

In clause 4.3.2.2.2 and 5.2.6.2.3, include the QoS requirements and threshold inforamtion in the Nnwadaf\_AnalyticsInfo service operation and API data models..

incomplete specification.

**Discussion:**

A lower case 'a' had been substituted for upper case 'A'.

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

**C3-195021 OpenAPI file for AnalyticsExposure API**

*Type: CR For: Agreement  
 29.522 v16.1.0 CR-0107 Cat: B (Rel-16)  
  
 Source: Huawei*

**Abstract:**

Define the OpenAPI file for AnalyticsExposure API.

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

**C3-195022 OpenAPI file Update for Nnwdaf\_EventsSubscription API**

*Type: CR For: Agreement  
 29.520 v16.1.0 CR-0102 Cat: B (Rel-16)  
  
 Source: Huawei*

**Abstract:**

Update the OpenAPI file of Nnwdaf\_EventsSubscription API

**Discussion:**

Ericsson believed there were other CRs which had an impact on the OpenAPI.

**Decision:** The document was **revised to C3-195237**.

**C3-195237 OpenAPI file Update for Nnwdaf\_EventsSubscription API**

*Type: CR For: Agreement  
 29.520 v16.1.0 CR-0102 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-195022)

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

**C3-195023 OpenAPI file Update for Nnwdaf\_AnalyticsInfo API**

*Type: CR For: Agreement  
 29.520 v16.1.0 CR-0103 Cat: B (Rel-16)  
  
 Source: Huawei*

**Abstract:**

Update the OpenAPI file of Nnwdaf\_AnalyticsInfo API

**Discussion:**

The Chairman asked whether any other CRs impacted this new text. Answer came there none.

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

**C3-195024 Slice identification for all analytics types**

*Type: CR For: Agreement  
 29.520 v16.1.0 CR-0104 Cat: B (Rel-16)  
  
 Source: Huawei*

**Discussion:**

The second change was unclear.

**Decision:** The document was **revised to C3-195363**.

**C3-195363 Slice identification for all analytics types**

*Type: CR For: Agreement  
 29.520 v16.1.0 CR-0104 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-195024)

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

**C3-195026 Corrections on Naf\_EventExposure Service**

*Type: pCR For: Approval  
 29.517 v0.4.0  
 Source: Huawei*

**Abstract:**

Correct the data type used to indicate the timestamped UE positions;

Correct some attributes included in AfEventNotification data during procedure of Notification about subscribed events

**Discussion:**

The Chairman noted that the wrong template had been used.

**Decision:** The document was **revised to C3-195226**.

**C3-195226 Corrections on Naf\_EventExposure Service**

*Type: pCR For: Approval  
 29.517 v0.4.0  
 Source: Huawei*

(Replaces C3-195026)

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

**C3-195032 OpenAPI file Update for Naf\_EventExposure API**

*Type: pCR For: Approval  
 29.517 v0.4.0  
 Source: Huawei*

**Abstract:**

Update the OpenAPI file for Naf\_EventExposure API.

**Discussion:**

Ericsson believed it was in incorrect version, reflecting the next versuib (0.5.0).

**Decision:** The document was **revised to C3-195238**.

**C3-195238 OpenAPI file Update for Naf\_EventExposure API**

*Type: pCR For: Approval  
 29.517 v0.4.0  
 Source: Huawei*

(Replaces C3-195032)

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

**C3-195065 BDT renegotiation upon the network conditions change**

*Type: CR For: Agreement  
 29.554 v16.1.0 CR-0036 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Clause 4.1.3.2: deleted editor's note indicating that it is FFS how the NF service consumers re-negotiate the background data transfer policies.

Clauses 4.2.4.2 and 5.6.2.10: in "Notification" data structure added optional attributes:

- "candTransfPolicies" containing the list of candidate transfer policies; and

- "updTransfPolicy" containing the updated transfer policy which was previously negotiated.

OpenAPI file accordingly updated.

**Discussion:**

It was noted that some email comments had been made on this CR by Huawei, and it had been proposed to postpone the document until the next time. SA2 TSs would have been updated by the next meeting.

China Mobile had some concerns with the third change, where three mandatory atributes were mentioned, and it was wondered whether this was also really the case for updates. Ericsson responded that this was indeed the case, and the logic of the CR was correct. Ericsson insisted that if the parameters had originally been included, then the same attributes needed to be included in any update.

The Secretary pointed out "can" in the two notes.

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

**C3-195066 Modification of "IndividualBdtData" resource**

*Type: CR For: Agreement  
 29.519 v16.1.1 CR-0160 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Table 5.2.2-1: description of the HTTP PUT method used for the "IndividualBdtData" resource updated to indicate that method is also used for resource modification.

Table 5.2.9.3.2-3: added 200 OK response indicating that resource has been successfully modified.

OpenAPI file accordingly updated.

**Discussion:**

Huawei had supplied comments by email, and Ericsson agreed with them. ZTE also proposed some modifications to tables 5.2.9.3.2-2 and -3, and asked for alignment with the previoius agreements. This needed further investigation.

**Decision:** The document was **revised to C3-195227**.

**C3-195227 Modification of "IndividualBdtData" resource**

*Type: CR For: Agreement  
 29.519 v16.1.1 CR-0160 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-195066)

**Discussion:**

Ericssion wished to pospone treatment until SA2 input had been received.

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

**C3-195067 BDT renegotiation upon the network conditions change**

*Type: CR For: Agreement  
 29.513 v16.1.0 CR-0100 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

BDT warning notification updated to include parts related to the BDT renegotiation upon the network conditions change.

Figure 5.5.5-1 updated to include steps related to the BDT renegotiation upon the network conditions change.

**Discussion:**

Huawei had provided comments on this CR via email, indicating that a revision of the figure was required, to include UDR.

ZTE proposed a reording of some of the steps 13 & 14 or removing them to the XBDT procedures. Ericsson believed that the changes shown were in line with the stage 2.

ZTE believed that there was a typo in note 2. Ericsson agreed.

There was also a question of alignment with the stage 2 in the case of multiple PCFs: was the procedure optional or mandatory in steps 5-6?

**Decision:** The document was **revised to C3-195228**.

**C3-195228 BDT renegotiation upon the network conditions change**

*Type: CR For: Agreement  
 29.513 v16.1.0 CR-0100 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-195067)

**Discussion:**

Ericssion wished to pospone treatment until SA2 input had been received.

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

**C3-195068 Definition of EventsSubs in OpenAPI**

*Type: pCR For: Approval  
 29.517 v0.4.0  
 Source: Ericsson*

**Abstract:**

EventsSubs data structure contains a mandatory properties "event" and "eventFilter" as defined in table 5.6.2.5-1.

However, the OpenAPI file currently indicates that EventsSubs data structure contains an optional property "eventfilter" and, as indicated in the required field, that it should contain mandatory property "eventFilter" which is not defined since the incorrect name "eventfilter" was used in the property field.

This error needs to be corrected in the OpenAPI file for Naf\_EventExposure.

For information:

Incorrect TS version is included in the externalDocs field, but it is not corrected since it has to be changed by Rapporteur to the new TS version that it will be provided after CT3 #107 meeting.

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

**C3-195131 Pseudo-CR on Clarify target UE identity**

*Type: pCR For: Approval  
 29.517 v0.4.0  
 Source: Ericsson*

**Abstract:**

It is proposed to agree the following changes to 3GPP TS 29.517 v0.4.0.

- Added supis and intGroupIds to EventFilter table

- Fixed exterGroupIds in EventFilter table to point to ExtGroupId

- Added, supi, extGroupId, intGroupID, and anyUeInd to SvcExperience table.

- Added supi, extGroupId, intGroupId to UeMobilityCollection, UeCommunicationCollection, and UeTrajectoryCollection tables

- Clarified that one identifier shall always be present

- Shorten the attribute name exterGroupId to better match with intGroupId.

- Change some attribute name (E.g. => svcExpPerApp) to better align with svcExpPerFlows and the corresponding belonging data type name.

**Discussion:**

Huawei had provided some remarks by email.

**Decision:** The document was **revised to C3-195229**.

**C3-195229 Pseudo-CR on Clarify target UE identity**

*Type: pCR For: Approval  
 29.517 v0.4.0  
 Source: Ericsson*

(Replaces C3-195131)

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

**C3-195132 Internal Group id in notification**

*Type: CR For: Agreement  
 29.520 v16.1.0 CR-0105 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Change the analytics output for UE mobility and UE communication to single object, and add the internal group id in the analytics result.

Add plural for attribute names.

Change cardinality to align with presence column.

comms in UeCommunication shall be mandatory attribute.

**Discussion:**

Huawei had provided comments by emial.

**Decision:** The document was **revised to C3-195230**.

**C3-195230 Internal Group id in notification**

*Type: CR For: Agreement  
 29.520 v16.1.0 CR-0105 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-195132)

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

**C3-195133 Support updated BDT policy in notification**

*Type: CR For: Agreement  
 29.122 v16.3.0 CR-0217 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Clauses 5.4.2.1.4: in "ExNotification" data structure added optional attributes:

- "candTransfPolicies" containing the list of candidate transfer policies; and

- "updTransfPolicy" containing the updated transfer policy which was previously negotiated.

OpenAPI file accordingly updated and wrong attribute name for BDT reference ID is corrected.

**Discussion:**

Huawei had observed offlien that the API was missing. Nokia quiestioned the nature of the change regarding applicability, and Ericsson clarified the intent.

**Decision:** The document was **revised to C3-195231**.

**C3-195231 openAPI correction for ExNotification**

*Type: CR For: Agreement  
 29.122 v16.3.0 CR-0217 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-195133)

**Abstract:**

Title changed.

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

**C3-195134 Support updated BDT policy in notification**

*Type: CR For: Agreement  
 29.522 v16.1.0 CR-0116 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Procedure difference comparing to EPC is added for BDT notification.

**Discussion:**

Huawei had provided comments by email with which Erocsson agreed.

**Decision:** The document was **revised to C3-195232**.

**C3-195232 openAPI correction for ExNotification**

*Type: CR For: Agreement  
 29.522 v16.1.0 CR-0116 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-195134)

**Abstract:**

Title changed

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

**C3-195196 NF Load analytics generalities**

*Type: CR For: Agreement  
 29.520 v16.1.0 CR-0106 Cat: B (Rel-16)  
  
 Source: Orange*

**Abstract:**

New paragraphs on load analytics : on subscription parameters, notifications on request parameters, data types, event susbcription, event filters, on feature negotiation.

**Discussion:**

Ericsson was concerned that the newly added text in 4.2.2.2 could be simplified. Also bullet 3 should have no condidtion, so some restructuring was needed. Orange was concerned that such a modification would result in too many notifications. Ericsson had checked the stage 2, which might be ambiguous in this respect.

Huawei had also provided email comments on this CR.

The Chairman noted that some elements were conditional, but the conditions had not been supplied.

**Decision:** The document was **revised to C3-195233**.

**C3-195233 NF Load analytics generalities**

*Type: CR For: Agreement  
 29.520 v16.1.0 CR-0106 rev 1 Cat: B (Rel-16)  
  
 Source: Orange*

(Replaces C3-195196)

**Discussion:**

The new data types had been made optional.

Ericsson assumed that the output would be an array with each element pertaining to a node instance.

**Decision:** The document was **revised to C3-195376**.

**C3-195376 NF Load analytics generalities**

*Type: CR For: Agreement  
 29.520 v16.1.0 CR-0106 rev 2 Cat: B (Rel-16)  
  
 Source: Orange*

(Replaces C3-195233)

**Abstract:**

Corrects a typo

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

**C3-195197 Event Subscribe**

*Type: pCR For: Approval  
 29.591 v0.2.0  
 Source: China Mobile Communications Group Co.,Ltd. , Huawei*

**Abstract:**

Defined the data type NefEventSubsc.

**Discussion:**

Ericson noted surplus leading and a number of other typos.

SO Else also wished to see a change to clause 4.2.2.2.2.

**Decision:** The document was **revised to C3-195234**.

**C3-195234 Event Subscribe**

*Type: pCR For: Approval  
 29.591 v0.2.0  
 Source: China Mobile Communications Group Co.,Ltd. , Huawei*

(Replaces C3-195197)

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

**C3-195198 Support of Abnormal behaviour**

*Type: pCR For: Approval  
 29.591 v0.2.0  
 Source: China Mobile Communications Group Co.,Ltd. , Huawei*

**Abstract:**

Defined the exception information event in Nnef\_EventExposure service.

**Discussion:**

Ericsson note that the styles were confusing in the bulleted list in the procedures. An additional change in supported feature was needed. Ericsson also questioned the name of the feature abnormal behaviour, but it seemed there was a precedent for that term.

**Decision:** The document was **revised to C3-195235**.

**C3-195235 Support of Abnormal behaviour**

*Type: pCR For: Approval  
 29.591 v0.2.0  
 Source: China Mobile Communications Group Co.,Ltd. , Huawei*

(Replaces C3-195198)

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

**C3-195199 Patch Report to Nudr\_DataRepository API for Policy data**

*Type: pCR For: Approval  
 29.591 v0.2.0  
 Source: China Mobile Communications Group Co.,Ltd. , Huawei*

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

**C3-195202 Support of UE communication**

*Type: pCR For: Approval  
 29.591 v0.2.0  
 Source: China Mobile Communications Group Co.,Ltd. , Huawei*

**Abstract:**

Defined notification information about the UE communication.

**Discussion:**

Ericsson proposed to add an internal group id, but China Mobile was not convinced. A correction to the leading was required.

**Decision:** The document was **revised to C3-195236**.

**C3-195236 Support of UE communication**

*Type: pCR For: Approval  
 29.591 v0.2.0  
 Source: China Mobile Communications Group Co.,Ltd. , Huawei*

(Replaces C3-195202)

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

**C3-195364 Presentation sheet for 29.517**

*Type: TS or TR cover For: Approval  
 29.517 v1.0.0  
 Source: Huawei*

**Discussion:**

This document would be provided after the end of the meeting. It was noted that the TS would be sent to TSG for information rather than for one-step approval.

**ACTION: To make available.  
 (action on: Huawei / due by: 2019-11-20)**

**ACTION: To review.  
 (action on: All delegates / due by: 2019-11-22)**

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

**C3-195310 TS 29.517 v0.5.0**

*Type: draft TS For: Agreement  
 29.517 v0.5.0  
 Source: Rapporteur (Yali Yan)*

**Abstract:**

90% complete, ready for TSG approval.

**Discussion:**

The new version would be provided after the end of the meeting.

**ACTION: To make available.  
 (action on: Huawei / due by: 2019-11-20)**

**ACTION: To review.  
 (action on: All delegates / due by: 2019-11-22)**

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

**C3-195352 TS 29.517 v0.5.0**

*Type: draft TS For: Agreement  
 29.517 v0.5.0  
 Source: Huawei*

**Discussion:**

Duplicate of C3-195310 - withdrawn

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

**C3-195353 TS 29.591 v0.3.0**

*Type: draft TS For: Agreement  
 29.591 v0.3.0  
 Source: Huawei*

**Discussion:**

The new version would be provided after the end of the meeting.

**ACTION: To make available.  
 (action on: Huawei / due by: 2019-11-20)**

**ACTION: To review.  
 (action on: All delegates / due by: 2019-11-22)**

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

### 16.6 CT aspects on eSBA [5G\_eSBA]

**C3-195222 SMF callback URI update**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0394 Cat: B (Rel-16)  
  
 Source: Huawei*

**Abstract:**

1) Include the notification URI in the update operation.

2) Define new policy control request trigger for URI change.

**Discussion:**

Ericsson questioned the use case for this change. Huawei gave a lengthy justification.

The WI code was wronglly rendered on the cover sheet.

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

### 16.7 CT aspects of Access Traffic Steering, Switch and Splitting support in 5G system [ATSSS]

### 16.8 CT aspects of 5GS enhanced support of vertical and LAN services [Vertical\_LAN]

**C3-195025 Corrections on 5GLANParameterProvision API**

*Type: CR For: Agreement  
 29.522 v16.1.0 CR-0108 Cat: B (Rel-16)  
  
 Source: Huawei*

**Abstract:**

The data type as the response body in HTTP PUT/PATCH is incorrected, should be 5GLanParametersProvision, C3-194318 agreed in CT3#106 already corrected the ‘G’, which is still not enough.

Correct ‘paramater’ to ‘parameter’

**Discussion:**

The CR was essentially editorial.

**Decision:** The document was **revised to C3-195257**.

**C3-195257 Corrections on 5GLANParameterProvision API**

*Type: CR For: Agreement  
 29.522 v16.1.0 CR-0108 rev 1 Cat: D (Rel-16)  
  
 Source: Huawei*

(Replaces C3-195025)

**Abstract:**

Changes category to D.

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

**C3-195027 Transport of TSN information and containers between SMF and PCF**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0368 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Introduction of TSN data transport capbilities for

- Npcf\_SMPolicyControl\_UpdateNotify Service Operation (clause 4.2.3.1 and related clause)

- Npcf\_SMPolicyControl\_Update Service Operation (clause 4.2.4.1 and related clauses)

**Discussion:**

Nokia noted that the stage 2 had already gone some way to allowing some of the (new) FFS items to be resolved. There were ongoing discussions on attributes, port types, etc, but so far there was no stage 2 agreement (TS 23.501).

This CR did not make any change to the OpenAPI.

Ericsson believed that 4.2.3.1 the bullet list coud be corrected to align with the clause title. Similarly in 4.2.3.tsn1, the term UE-DS-TT MAC was inappropriate. In 4.2.4.1, the new text could be clarified. What needed to be described was what the calling network was reporting the port capabilities, so better text would be Reporting of TSN information. This applied also to the title of 4.2.4.tsn2. Also, in this clause, further development was needed in the second paragraph. Further, in 5.6.1, second table, the byte type was to be prefered to binary. In 5.6.2.3, the change was unnecessary. But if it were retained, the Editor's note should be removed. In 5.6.2.4, the embedded comment should be removed, as should the line tsnBridgeInfo. (Nokia did not agree with this last aspect, but would check it.) And again, the byte data type was preferable to binary, and the same ff. There was a well-known type for MAC address, which should be used throughout. The type for dstResidence should be integer rather than binary. (Nokia believed there was a divergence in encoding specifications in different TSs.)

Continuing, Ericsson did not think that all the attributes defined as mandatory were in fact mandatory. Reference needed to be taken to the stage 2 (which was not yet complete). The editor's note needed to be adjusted accordingly.

The bane TSN\_MANETHER\_PORT could be changed.

In 5.8, the TSN feature terminilogy was not aligned.

Huawei questioned the definition of the term TSN: network or networking? It was questioned whether a special procedure existed for service creation, this was not covered in the CR - see 5.6.2.3. Also 5.6.2.4 needed revision to put the information in the PCC rule. In 4.2.3.tsn1 there needed to be a clear description how the forwarding of this information should be done. The table in 5.6.1 needed to include the new parameter.

**Decision:** The document was **revised to C3-195258**.

**C3-195258 Transport of TSN information and containers between SMF and PCF**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0368 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell, Verizon, Ericsson*

(Replaces C3-195027)

**Discussion:**

The procedure descriptions had been improved. The terminilogy had been aligned with stage 2. The "binary" types had been corrected.

Clause 5.6.2.3 had been removed.

There were a number of typographical corrections.

Vodafone questioned the meeaning of an editor's note. Nokia replied that this related to the configuration of the TSN: a number of PDU sessions were allocated and several UE DS-TTs were possible. Ericsson proposed to remove this in the table, where only one PDU was allowed.

Huawei reported an inconsistent feature name in 5.6.3.6. And in 4.2.3.tsn1, more detail was needed. Also in 4.2.4.tsn1.

**Decision:** The document was **revised to C3-195377**.

**C3-195377 Transport of TSN information and containers between SMF and PCF**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0368 rev 2 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell, Verizon, Ericsson*

(Replaces C3-195258)

**Discussion:**

The change was in 4.2.3 and in 5.6.3.6. Some points had been removed in the TSN bridge info.

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

**C3-195028 Transport of TSC assistance information between SMF and PCF**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0369 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Introduction of a container, which transports parameters for TSC Assistance Information to the SMF.

**Discussion:**

Ericsson wanted to know where the mapping was done. An FFS note was needed pending the finalization of the stage 2. The clause should go to 29.544.

Huawai believed a change was needed to the PCC rule. The data type and the procedure needed to be defined.

**Decision:** The document was **revised to C3-195259**.

**C3-195259 Transport of TSC assistance information between SMF and PCF**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0369 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell, Verizon, Ericsson*

(Replaces C3-195028)

**Discussion:**

Clause 4.2.3.1 had been included, and the procedures improved. Huawei wished for the clause title and bullet text to be aligned.

**Decision:** The document was **revised to C3-195378**.

**C3-195378 Transport of TSC assistance information between SMF and PCF**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0369 rev 2 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell, Verizon, Ericsson*

(Replaces C3-195259)

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

**C3-195029 Transport of TSN information and containers between PCF and AF**

*Type: CR For: Agreement  
 29.514 v16.2.0 CR-0145 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Introduction of TSN data transport capabilities for

- Npcf\_PolicyAuthorization\_Create service operation (clause 4.2.2.1 and related clauses)

- Npcf\_PolicyAuthorization\_Update service operation (clause 4.2.3.1 and related clauses)

- Npcf\_PolicyAuthorization\_Notify service operation (clause 4.2.5.1 and related clauses)

**Discussion:**

Ericsson wanted a more specific description of the topic in 4.2.2.1: provisioning of port management information. In 4.2.2.tsn2, the title needed to be corrected. And some wording changes were needed, including deletion of the third paragraph. In 4.2.3.tsn3, the title needed to be corrected, and similar comments applied to those above. The title of 4.2.5.tsn1 could be improved to Notification about TSG port detection. The Note should be replaced by an editor's note. The existing editor's note could be improved to be less specific, aligned with the previous .tsn3 clause. Nokia observed that this was a stage 2 dependency. Sundry other improvements were suggested by Ericsson.

Ericsson noted that the style of the description was not correct, and in 5.6.3.7 there was a typo.

Huawei had some remarks on 4.2.5.tsn1, but perhaps this concern had been covered by Ericsson's remarks.

Ericsson thought that the procedure implied further notification when the context was established, and this was FFS.

**Decision:** The document was **revised to C3-195296**.

**C3-195296 Transport of TSN information and containers between PCF and AF**

*Type: CR For: Agreement  
 29.514 v16.2.0 CR-0145 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia S|hanghai Bell, Verizon, Ericsson*

(Replaces C3-195029)

**Abstract:**

Rev 1:

- Descriptive titles introduced for all new clauses and descriptions improved

- Supported feature name in the complete document consolidated

- Data type Binary replaces by data type Bytes

- small editorials (replace comma by dot, internal comments removed, …)

- Editor’s note in clause "Notification about TSN port detection" changed.

**Discussion:**

Huawei wished titles and bullets to be aligned. And in 4.2.2.tsn2 wanted to remove the reference to AppSessionContext. But Ericsson believed it to be already correct.

**Decision:** The document was **revised to C3-195379**.

**C3-195379 Transport of TSN information and containers between PCF and AF**

*Type: CR For: Agreement  
 29.514 v16.2.0 CR-0145 rev 2 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia S|hanghai Bell, Verizon, Ericsson*

(Replaces C3-195296)

**Abstract:**

Rev 2:

- Title consolidation for 4.2.5.tsn1

- AppSessionContext data type removed in 4.2.2.tsn2

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

**C3-195030 Transport of TSC assistance information between PCF and AF**

*Type: CR For: Agreement  
 29.514 v16.2.0 CR-0146 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Introduction of a container, which transports parameters for TSC Assistance Information to the PCF.

**Discussion:**

Some off-line comments had been offered by Ericsson.

TsnQoSContainer should be defined elsewhere.

Huawei wished to see definitions of the procedures.

Ericsson wished a more rigorous treatment of the FFS aspect, including a modification to the cover sheet.

Vodafone wondered what was the difference between TSC and TSN. Nokia could not explain it, but the difference came from stage 2, possibly relating to QoS aspects.

**Decision:** The document was **revised to C3-195297**.

**C3-195297 Transport of TSC assistance information between PCF and AF**

*Type: CR For: Agreement  
 29.514 v16.2.0 CR-0146 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell, Verizon, Ericsson*

(Replaces C3-195030)

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

### 16.9 CT aspects of Enhancing Topology of SMF and UPF in 5G Networks [ETSUN]

### 16.10 CT aspects of System enhancements for Provision of Access to Restricted Local Operator Services by Unauthenticated Ues [PARLOS]

### 16.11 CT aspects on enhancement of network slicing [eNS]

### 16.12 CT aspects of Enhancement to the 5GC LoCation Services [5G\_eLCS]

### 16.13 CT Aspects of Media Handling for RAN Delay Budget Reporting in MTSI [E2E\_DELAY]

### 16.14 Cellular IoT support and evolution for the 5G System [5G\_CIoT]

**C3-195112 5G CIoT work plan for CT3**

*Type: WI status report For: Approval  
 Source: QUALCOMM Europe Inc. - Italy*

**Abstract:**

This document updates C3-194028 - the previous work plan document - that was submitted in CT3#106. The agreements from the last meeting, if any, have been listed for each key issue

**Discussion:**

The Chairman was concerned what might be the impact on the WI on some CT3 specs which had as yet not been modified under this WI.

The work would be completed at the next meeting.

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

**C3-195120 Pseudo-CR on Clarify NEF southbound services**

*Type: pCR For: Approval  
 29.591 v0.2.0  
 Source: Ericsson*

**Decision:** The document was **revised to C3-195274**.

**C3-195274 Pseudo-CR on Clarify NEF southbound services**

*Type: pCR For: Approval  
 29.591 v0.2.0  
 Source: Ericsson*

(Replaces C3-195120)

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

**C3-195130 Support API capability change based on API filter**

*Type: CR For: Agreement  
 29.122 v16.3.0 CR-0216 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Discussion:**

Off line comments had been received.

**Decision:** The document was **revised to C3-195275**.

**C3-195275 Support API capability change based on API filter**

*Type: CR For: Agreement  
 29.122 v16.3.0 CR-0216 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-195130)

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

### 16.15 CT aspects on wireless and wireline convergence for the 5G system architecture [5WWC]

**C3-195015 Partial update of IPTVConfiguration API**

*Type: CR For: Agreement  
 29.519 v16.1.1 CR-0151 rev 3 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-194406)

**Abstract:**

Remove the Editor’s Note and define HTTP PATCH operation.

**Discussion:**

Ericsson drew attention to the tools available on ETSI Forge. It would be easier to show the complete yaml file in the CR rather than just the changed parts.

The Chairman agreed this would be a good approach for the future.

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

**C3-195158 Clarification of PEI format, TS 29.525**

*Type: CR For: Agreement  
 29.525 v16.1.0 CR-0067 Cat: B (Rel-16)  
  
 Source: Ericsson, CableLabs*

**Abstract:**

Creation of clause B.3.2.1 to specify the possible PEI formats

**Discussion:**

Vodafone questioned whether the "may" should be a "shall". Ericsson agreed that a previoius stage 2 meeting had implied this. There was also a rogue "can" and a rogue "is". Huawei believed the API version would also need to be incremented, but Ericsson defended the CR as is. But the OpenAPI would indeed change as a result of other CRs.

Cablelabs asked for clarification on the intended changes to be made to the CR. Ericsson explained how the cover sheet and the text would be aligned. This discussion continued for some time.

**Decision:** The document was **revised to C3-195239**.

**C3-195239 Clarification of PEI format, TS 29.525**

*Type: CR For: Agreement  
 29.525 v16.1.0 CR-0067 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson, CableLabs*

(Replaces C3-195158)

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

**C3-195159 Wireline location information**

*Type: CR For: Agreement  
 29.525 v16.1.0 CR-0068 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

This CR updates clause B.3.2.1 to specify the report of HFC node Id in case of W-5GCAN access.

**Discussion:**

It was noted that there was a redundant extra file in the zip of this tdoc. The new text was intended to be added at the end of the new text of B.3.2.1 introduced in the previous CR (C3-195158).

Cablelabs gave some pointers as to which specs covered wireline access.

Vodafone was concerns that some defined terms were missing.It was proposed not to replicate acronyms defined elsewhere, but it was felt that this was not in line with CT3 practice.

**Decision:** The document was **revised to C3-195240**.

**C3-195240 Wireline location information**

*Type: CR For: Agreement  
 29.525 v16.1.0 CR-0068 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-195159)

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

**C3-195160 Support of simultaneous registration in multiple accesses**

*Type: CR For: Agreement  
 29.507 v16.1.0 CR-0091 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Define:

- the “accTypes” attribute, which represents the UE simultaneous registration in 3GPP and non-3GPP accesses; and

- the “ratTypes” attribute, which represents the simultaneous RAT Types used by the UE, i.e a 3GPP RAT Type (NR or EUTRAN) and a non-3GPP RAT Type (WLAN, Virtual, NBIoT and Wireline), where only the Wireline value is applicable.

- ACCESS\_TYPE\_CHG Policy Control Request trigger, which shall be triggered whenever one of the access is on/off.

These three new attributes and the new policy control request trigger may be present when the feature MultipleAccessTypes feature is supported.

**Discussion:**

Huawei wished to see explanations in a prior clause (possibly B.3.4.1), but was persuaded otherwise.

It was noted that this CR had to be considered in conunction with 23.316 CR0010.

A philosophical discussion ensued on what consitituted a 3GPP access.

Nokia believed there was no real problem: either an access was 3GPP or it was not.

**Decision:** The document was **revised to C3-195241**.

**C3-195241 Support of simultaneous registration in multiple accesses**

*Type: CR For: Agreement  
 29.507 v16.1.0 CR-0091 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-195160)

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

**C3-195161 Support of S-NSSAI for non-3GPP access**

*Type: CR For: Agreement  
 29.507 v16.1.0 CR-0092 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Define:

- the “n3gAllowedSnssais” attribute, which may be sent together with the “allowedSnssais” attribute and represents the S-NSSAIs allowed for the UE in the non-3GPP access.

This new attribute may be present when the feature MultipleAccessTypes defined in CR#0091 is supported.

**Discussion:**

The 4th change was an error: there was no change in this clause. (Though a double full-stop was noted.)

Huaway questioned that in B.3.2.1 nneded to be corrected, there was no need for the feature "SliceSupport", but Ericsson believed not, but conceded that a wrong feature name (WirelineWirelessConvergence) had been used in table 5.6.2.3-1. The discussion centreed around whether "only non-3GPP access" was a valid scenario.

Cablelabs saw a lot of value in slicing for 3GPP and for non-3GPP access, simultaneously, and strongly supported the CR.

**Decision:** The document was **revised to C3-195242**.

**C3-195242 Support of S-NSSAI for non-3GPP access**

*Type: CR For: Agreement  
 29.507 v16.1.0 CR-0092 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-195161)

**Abstract:**

C3-195161 is revised to:

• remove WirelineWirelessConvergence feature from the description of the n3gaAllowedSnssais attribute.

• Complete chapter 4.3.4.1 to indicate the n3gaAllowedSnssais attribute is included together with the ALLOWED\_NSSAI\_CH policy control request trigger when there is a change in the allowed NSSAI in the non-3GPP access.

• Adding CableLabs as coauthor

**Decision:** The document was **revised to C3-195380**.

**C3-195380 Support of S-NSSAI for non-3GPP access**

*Type: CR For: Agreement  
 29.507 v16.1.0 CR-0092 rev 2 Cat: B (Rel-16)  
  
 Source: Ericsson, CableLabs*

(Replaces C3-195242)

**Abstract:**

Adds additional source company.

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

**C3-195162 Support of 5WWC, Service Area Restrictions**

*Type: CR For: Agreement  
 29.507 v16.1.0 CR-0093 Cat: B (Rel-16)  
  
 Source: Ericsson, CableLabs*

**Abstract:**

A new attribute “wlServAreaRes” is defined to encode the service area restrictions for wireline access.

A new feature “WirelineWirelessConvergence” is defined to indicate the support of the new attribute.

**Discussion:**

Huawai observed that the cover page mentioned a CR which was to be addressed this week. Should this not appear as a dependency. The Chairmen considered it was a hindrance to be too formal over this aspect, although it was true to say that the other CR had not in fact yet been agreed, but hopefully would be later on in the present meeting.

Ericsson believed that "non-3GPP" acces implied more than just wirreline access. But this CR was clear that the two features would be needed.

Vodafone drew attention to change 8. Was "ireline access" synonymous with "5G-CRG access". Ericsson agreed that this needed to be clearer.

Also, on change 9, "tracking are" was a wireless concept, what was its relevance for wireline access? Ericsson agreed this was an error.

**Decision:** The document was **revised to C3-195243**.

**C3-195243 Support of 5WWC, Service Area Restrictions**

*Type: CR For: Agreement  
 29.507 v16.1.0 CR-0093 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson, CableLabs*

(Replaces C3-195162)

**Abstract:**

Replaces the term W-5GAN access by wireline access

**Discussion:**

Ericsson considered it might be necessary to align terminology throughout the entire specification. But it was decided not to do so.

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

**C3-195163 Clarification of PEI format, 29.507**

*Type: CR For: Agreement  
 29.507 v16.1.0 CR-0094 Cat: B (Rel-16)  
  
 Source: Ericsson, CableLabs*

**Abstract:**

Update of clause B.3.2.1 to specify the possible PEI formats

**Discussion:**

A rogue "can" was spotted in the new text.

**Decision:** The document was **revised to C3-195244**.

**C3-195244 Clarification of PEI format, 29.507**

*Type: CR For: Agreement  
 29.507 v16.1.0 CR-0094 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson, CableLabs*

(Replaces C3-195163)

**Abstract:**

- The W-AGN shall provide the PEI containing the FN-RG MAC address.

- Improving the wording

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

**C3-195164 HFC node Id in Location information**

*Type: CR For: Agreement  
 29.507 v16.1.0 CR-0095 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

This CR updates clause B.3.2.1 to specify the report of HFC node Id in case of W-5GCAN access.

**Discussion:**

Similar remarks about terminology surrounding cable / wireline access were aired.

Huawei stated that there had been a clash of CRs at the last meeting, but Ericsson reassured the meeting that this had been solved by the removal of the editor's note. However, the other CR had retained the editor's note, but modified its wording.

The Chairman understood that when both CRs were implemented, the editor's note would disappear. Huawei proposed to modify their CR to remove the editor's note and thus avoid any possible confusion.

The present CR should be implemented by MCC after the other one, thus ensuring that the editor's note will indeed be completely removed.

**Decision:** The document was **revised to C3-195245**.

**C3-195245 HFC node Id in Location information**

*Type: CR For: Agreement  
 29.507 v16.1.0 CR-0095 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-195164)

**Abstract:**

Improve wording “connects to”.

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

**C3-195165 Report of Wireline Location Information**

*Type: CR For: Agreement  
 29.514 v16.2.0 CR-0154 Cat: B (Rel-16)  
  
 Source: Ericsson, CableLabs*

**Abstract:**

Indicate that the “n3gaLocation” attribute shall include:

- “globalLineId” attribute when the UE connects via W-5GBAN, which encodes the Line ID in the “lineId” attribute and either the PLMN Identifier in the “plmnId” attribute or the operator identity in the “operatorId” attribute.

- “hfcNodeId” attribute when the UE connects via W-5GCAN access.

**Discussion:**

Huawei made an inaudible intervention. Ericsson agreed that it might be wise to add an editor's note. The Chairman was not very enthusiastic about adding such a note - how and when would it be removed?

A further inaudible intervention from Huawei.

An editor's note would be added until CT3 had received an anticipated LS from SA2.

**Decision:** The document was **revised to C3-195246**.

**C3-195246 Report of Wireline Location Information**

*Type: CR For: Agreement  
 29.514 v16.2.0 CR-0154 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson, CableLabs*

(Replaces C3-195165)

**Abstract:**

5165 is revised to add an Editor’s note to indicate whether NetLoc is supported is to be confirmed by SA2.

**Discussion:**

No confirmation by SA2 had yet been possible.

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

**C3-195166 Support of 5WWC, supported PEI format**

*Type: CR For: Agreement  
 29.514 v16.2.0 CR-0155 Cat: B (Rel-16)  
  
 Source: Ericsson, CableLabs*

**Abstract:**

Removal form Annex B.5 that the PEI is in IMEI(SV) format

Update of clause D.3.2.1 to specify the possible PEI formats

**Discussion:**

A rogue "can" was spotted. Also, the highlights on the deleted text had to be removed.

Huawei had not been able to identify the stage 2 requirements for the second change.

CableLabs believed it was useful to define MAC addresses for both accesses, and proposed to retain that text.

Finally, what was needed was to define what sort of formats were allowed over N5.

**Decision:** The document was **revised to C3-195247**.

**C3-195247 Support of 5WWC, supported PEI format**

*Type: CR For: Agreement  
 29.514 v16.2.0 CR-0155 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson, CableLabs*

(Replaces C3-195166)

**Abstract:**

simplify the information about the possible formats the PEI may have.

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

**C3-195167 Support of Trusted non-3GPP accesses**

*Type: CR For: Agreement  
 29.514 v16.2.0 CR-0156 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Define the UE location for trusted non-3GPP accesses adding to UE IP address and TCP or UDP port, the TNAP identifier in terms of SSID and either the BSSID or the TNAP civic address, encoded within the “n3gaLocation” attribute.

Remove the related Editor’s notes

**Discussion:**

The invisible changes were due to the removal of highlight colour.

Huawei questioned the removal of the editor's notes Ericsson insisted that in the body of the spec, this was certainly correct. And in the annex clauses, it was also correct because this had been covered in a separate CR. It was clear that the concerns of the editor's notes no longer applied because no encoding was impacted.

It was suggested that this should have been indicated in the cover sheet.

Vodafone noted some erroneous bullet numbering, which should be fixed.

**Decision:** The document was **revised to C3-195248**.

**C3-195248 Support of Trusted non-3GPP accesses**

*Type: CR For: Agreement  
 29.514 v16.2.0 CR-0156 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-195167)

**Abstract:**

- Clarify in the coversheet why the Editor’s note is removed.

- Fix incorrect bullet list.

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

**C3-195168 Clarification of PEI format, TS 29.512**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0389 Cat: B (Rel-16)  
  
 Source: Ericsson, CableLabs*

**Abstract:**

Update of clause C.3.2.1 to specify the possible PEI formats

**Discussion:**

A further rogue "can" had been spotted.

Huawei questioned the receipt of the PEI from the SMF. Off line discussion was needed.

**Decision:** The document was **revised to C3-195249**.

**C3-195249 Clarification of PEI format, TS 29.512**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0389 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson, CableLabs*

(Replaces C3-195168)

**Abstract:**

simplify the information about the possible formats the PEI may have.

**Discussion:**

A minor typo was identified.

**Decision:** The document was **revised to C3-195381**.

**C3-195381 Clarification of PEI format, TS 29.512**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0389 rev 2 Cat: B (Rel-16)  
  
 Source: Ericsson, CableLabs*

(Replaces C3-195249)

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

**C3-195169 HFC node Id in Location information, TS 29.512**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0390 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

This CR updates clause C.3.2.1 and C.3.5.1 to specify the report of HFC node Id in case of W-5GCAN access.

**Discussion:**

The order of implementation of CRs would be important, ensuring that the first editor's note was indeed removed.

Huawei remarked on the editor's note in the third change. No Netloc procedure had yet been defined. There was an inconsistency concerning the Netloc feature over N5 and N7.

Huawei believed thie question would be answered at the forthcoming RAN WG meeting in the week following the present meeting.

Ericsson stated that CT3 was awaiting clarification from stage 2.

**Decision:** The document was **revised to C3-195250**.

**C3-195250 HFC node Id in Location information, TS 29.512**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0390 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-195169)

**Abstract:**

improve the reading of the text (connects to), and indicate in the cover sheet the CR implementation order.

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

### 16.16 Volume Based Charging Aspects for VoLTE [VBCLTE]

**C3-195200 Adding Caller and Callee information**

*Type: CR For: Agreement  
 29.212 v16.1.0 CR-1697 Cat: B (Rel-16)  
  
 Source: China Mobile Communications Group Co.,Ltd.*

**Abstract:**

Introduce the caller information and callee information for volume based charging.

**Discussion:**

Ericsson noted that this CR was not aligned with its naming conventions to the following CR. This one needed to be aligned with that of C3-195201.

Ericsson questioned why a new CR number had been created rather than keep the same one that had been used last meeting. China Mobile apologised for this.

**Decision:** The document was **revised to C3-195290**.

**C3-195290 Adding Caller and Callee information**

*Type: CR For: Agreement  
 29.212 v16.1.0 CR-1697 rev 1 Cat: B (Rel-16)  
  
 Source: China Mobile Communications Group Co.,Ltd.*

(Replaces C3-195200)

**Discussion:**

A correction to the cover page was required.

**Decision:** The document was **revised to C3-195390**.

**C3-195390 Adding Caller and Callee information**

*Type: CR For: Agreement  
 29.212 v16.1.0 CR-1697 rev 2 Cat: B (Rel-16)  
  
 Source: China Mobile Communications Group Co.,Ltd.*

(Replaces C3-195290)

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

**C3-195201 Adding Caller and Callee information**

*Type: CR For: Agreement  
 29.214 v16.0.0 CR-1631 Cat: B (Rel-16)  
  
 Source: China Mobile Communications Group Co.,Ltd.*

**Abstract:**

Introduce the caller information and callee information for volume based charging.

**Discussion:**

A draft revision of this CR had been circulated by email.

Ericsson referred to comments from SA5 which were at odds with the first paragraph ew text in A16. CAT was always needed. Moreover, the note could be removed.

P-CSCF could not provide more information than was available. The new text had a lot of unnecessary information, it was sufficient to refer to the charging spec (rather than replicate the text anew).

Ericsson was also concerned about the changes to 4.4.2. The addition to table 5.4.1.2 needed to be more specific.

China Mobile refered to table 5.4.0.1. Was it appropriate to put all calling information in the same place?

**Decision:** The document was **revised to C3-195291**.

**C3-195291 Adding Caller and Callee information**

*Type: CR For: Agreement  
 29.214 v16.0.0 CR-1631 rev 1 Cat: B (Rel-16)  
  
 Source: China Mobile Communications Group Co.,Ltd.*

(Replaces C3-195201)

**Decision:** The document was **revised to C3-195391**.

**C3-195391 Adding Caller and Callee information**

*Type: CR For: Agreement  
 29.214 v16.0.0 CR-1631 rev 2 Cat: B (Rel-16)  
  
 Source: China Mobile Communications Group Co.,Ltd.*

(Replaces C3-195291)

**Abstract:**

Callee-Information is a grouped AVP. Include M bit.

Simplify annex. Remove references. Remove dependencies with CAT.

Check if it is possible to change Calling-Party-Address AVP.

Make the description of the feature more specific to differentiate it from VBC.

**Discussion:**

The Chairman reminded China Mobile that an LS would have to be sent to CT4 concerning the new AVP.

**Decision:** The document was **revised to C3-195438**.

**C3-195438 Adding Caller and Callee information**

*Type: CR For: Agreement  
 29.214 v16.0.0 CR-1631 rev 3 Cat: B (Rel-16)  
  
 Source: China Mobile Communications Group Co.,Ltd.*

(Replaces C3-195391)

**Discussion:**

The cover page needed updating.

**Decision:** The document was **revised to C3-195442**.

**C3-195442 Adding Caller and Callee information**

*Type: CR For: Agreement  
 29.214 v16.0.0 CR-1631 rev 4 Cat: B (Rel-16)  
  
 Source: China Mobile Communications Group Co.,Ltd.*

(Replaces C3-195438)

**Discussion:**

The tdoc number had not been updated.

**Decision:** The document was **revised to C3-195445**.

**C3-195445 Adding Caller and Callee information**

*Type: CR For: Agreement  
 29.214 v16.0.0 CR-1631 rev 5 Cat: B (Rel-16)  
  
 Source: China Mobile Communications Group Co.,Ltd.*

(Replaces C3-195442)

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

**C3-195416 LS New AVP in 29.214**

*Type: LS out For: Approval  
 to CT4  
 Source: CT3*

**Discussion:**

A revision was needed due to the change of the CR from '5391 to 5438.

**Decision:** The document was **revised to C3-195439**.

**C3-195439 LS New AVP in 29.214**

*Type: LS out For: Approval  
 to CT4  
 Source: CT3*

(Replaces C3-195416)

**Discussion:**

It was noted that the LS had Rel-15 and Rel-16 impacts, and the LS needed to draw attention to this.

**Decision:** The document was **revised to C3-195440**.

**C3-195440 LS New AVP in 29.214**

*Type: LS out For: Approval  
 to CT4  
 Source: CT3*

(Replaces C3-195439)

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

### 16.17 CT aspects of optimisations on UE radio capability signalling [RACS]

**C3-195051 RACS CT work plan**

*Type: discussion For: Information  
 Source: Qualcomm Incorporated / Lena*

**Discussion:**

From the CT3 point of view, the onlly remaining item was to remove an editor's note. This would be decided at the next meeting.

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

**C3-195354 Presentation sheet for TS 29.675**

*Type: TS or TR cover For: Approval  
 29.675 v1.0.0  
 Source: Ericsson*

**Discussion:**

This document would be provided after the end of the meeting.

**ACTION: To make available.  
 (action on: Ericsson / due by: 2019-11-20)**

**ACTION: To review.  
 (action on: All delegates / due by: 2019-11-22)**

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

**C3-195355 TS 29.675 v0.3.0**

*Type: draft TS For: Agreement  
 29.675 v0.3.0  
 Source: Ericsson*

**Discussion:**

The new version would be provided after the end of the meeting.

**ACTION: To make available.  
 (action on: Ericsson / due by: 2019-11-20)**

**ACTION: To review.  
 (action on: All delegates / due by: 2019-11-22)**

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

### 16.18 Service Based Interface Protocol Enhancement [SBIProtoc16]

**C3-195189 Feature Negotiation for OperatorSpecificData resource**

*Type: CR For: Agreement  
 29.519 v16.1.1 CR-0164 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Update clause 5.2.12.3.1 to include the supp-feat query parameter. OpenApi file is updated acordingly.

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

**C3-195190 Feature Negotiation for Influence Data resource**

*Type: CR For: Agreement  
 29.519 v16.1.1 CR-0165 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Update clause 6.2.5.3.1 to include the supp-feat query parameter in GET method and clause 6.4.2.2 to include the supportedFeatures attribute in TrafficInfluData data type. Update OpenAPI file accordingly.

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

### 16.19 CT aspects of eV2XARC [eV2XARC]

**C3-195078 correction to PLMN change trigger**

*Type: CR For: Agreement  
 29.525 v16.1.0 CR-0059 Cat: F (Rel-16)  
  
 Source: ZTE*

**Abstract:**

Add the reference of "PlmnChange" feature as the provision condition for PLMN change trigger.

**Discussion:**

Huawei wished to clarify the text relating to multiple triggers, but already there was a CR to introduce more triggers.

Ericsson noted a wrong stye right at the end of the CR.

**Decision:** The document was **revised to C3-195299**.

**C3-195299 correction to PLMN change trigger**

*Type: CR For: Agreement  
 29.525 v16.1.0 CR-0059 rev 1 Cat: F (Rel-16)  
  
 Source: ZTE*

(Replaces C3-195078)

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

**C3-195094 QoS Handling for V2X Communication**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0356 rev 5 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-194468)

**Abstract:**

1. The procedure of policy provisioning and enforcement of the AF session with required QoS is defined.

2. New supported feature is defined.

3. OpenAPI file is updated.

CT3#107 meeting

As defined in clause 6.1.3.5 of TS 23.503, the SMF shall report that GFBR of the QoS Flow can no longer (or can again) be guaranteed accordingly to the PCF for those PCC rules which are bound to the affected QoS Flow and have the QoS Notification Control (QNC) parameter set. If additional information is received with the notification from (R)AN (see clause 5.7.2.4 of TS 23.501 [2]), the SMF shall forward it to the PCF. So the SMF shall sent the GFBR or the reference to the QosData data structure corresponding to the reference to the matching Alternative QoS Profile to the PCF

**Discussion:**

Ericsson questioned the "reason for change" but the actual changes in 4.2.3.x did not reflect this. The text was not aligned with the table.

The feature name was not rendered consistently. Other typographical improvements were identified.

**Decision:** The document was **revised to C3-195300**.

**C3-195300 QoS Handling for V2X Communication**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0356 rev 6 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-195094)

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

**C3-195095 QoS Handling for V2X Communication**

*Type: CR For: Agreement  
 29.514 v16.2.0 CR-0141 rev 4 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-194460)

**Abstract:**

1. The procedure of initial provisioning of service information is update to support the AF session with required QoS.

2. The procedure of modification of service information is update to support the AF session with required QoS.

3. OpenAPI file is updated.

4. New supported feature is defined.

In S2-1910016, it was agreed that at the time, the SMF notifies that GFBR can no longer (or can again) be guaranteed for a QoS Flow to which those PCC Rule(s) are bound, the PCF shall report to the AF the affected media flow and provides the indication that QoS targets can no longer (or can again) be fulfilled. If additional information is received with the notification from SMF (see clause 5.7.2.4 of TS 23.501 [2]), the PCF shall forward it to the AF.

**Discussion:**

The feature name needed to be corrected.

**Decision:** The document was **revised to C3-195301**.

**C3-195301 QoS Handling for V2X Communication**

*Type: CR For: Agreement  
 29.514 v16.2.0 CR-0141 rev 5 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-195095)

**Discussion:**

Ericsson detected a problem of a missing data type.

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

**C3-195426 QoS Handling for V2X Communication**

*Type: CR For: Agreement  
 29.514 v16.2.0 CR-0141 rev 6 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-195301)

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

### 16.20 CT aspects of 5G URLLC [5G\_URLLC]

**C3-195109 5G\_URLLC CT work plan**

*Type: discussion For: Information  
 Source: Huawei*

**Discussion:**

Huawei presented the document, considering that tit might be necessary to raise a LS to SA2. Ericsson also had concerns over whether or not CT3 was impacted - this was not yet clear.

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

**C3-195224 LS**

*Type: LS out For: Approval  
 to SA2  
 Source: CT3 (Huawei)*

**Abstract:**

Enquires whether the SA2 requirements are complete.

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

**C3-195069 Definition of AfResultInfo in OpenAPI**

*Type: CR For: Agreement  
 29.522 v16.1.0 CR-0109 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

The name of property in the required field corrected to "afStatus".

**Discussion:**

Nokia believed this change needed to be done in several specs, but in Rel-16 context it was acceptable.

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

**C3-195110 Correction to the QoS monitoring Control**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0384 Cat: B (Rel-16)  
  
 Source: Huawei*

**Abstract:**

1) Defines the procedure to perform the QoS monitoring report.

2) Defines the data type to perform the QoS monitoring report.

3) Update the OpenAPI file

**Discussion:**

Nokia wondered if the removal of reporting frequency was also based on stage 2, and Huawei answered that it was.

Care needed to be taken with the applicability of table notes.

Ericsson proposed an editorial style to a bullet point in 5.6.2.x.

Openet proposed an additional correction.

Care needed to be taken over unnecessary capitalization of leading letters.

Vodafone pointed out that dlDelays was an error.

Sundry other editorial matters were noted.

**Decision:** The document was **revised to C3-195298**.

**C3-195298 Correction to the QoS monitoring Control**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0384 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei, Cisco*

(Replaces C3-195110)

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

**C3-195207 QoS Monitoring for Service Data Flows**

*Type: CR For: Agreement  
 29.514 v16.2.0 CR-0142 rev 3 Cat: B (Rel-16)  
  
 Source: Ericsson, Cisco*

(Replaces C3-194430)

**Abstract:**

A new AfEvent QOS\_MONITORING is defined.

New notification method is included in the AfEventSubscription data type; PERIODIC

New notification method related qualifiers are included in the AfEventSubscription data type:

- repPeriod: time interval between successive event notifications for PERIODIC notifications

- waitTime: minimun waiting time between subsequent reports for EVENT\_DETECTION type of notifications

- pduSessRel: indicates the report is required at PDU session termination

- notifCorreId: contains the notification correlation identifier proposed by the AF.

New data type QosMonitoringInformation is defined to contain the subscribed monitoring parameters.

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

### 16.21 Enhancement of 3GPP Northbound APIs [eNAPIs]

**C3-195135 Supported feature in API publish service**

*Type: CR For: Agreement  
 29.222 v16.0.0 CR-0111 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Add API supported features in CAPIF\_Publish\_Service\_API.

Add required features in the CAPIF\_Publish\_Service\_API.

**Discussion:**

Samsung wanted clarification on Supported Features, and Ericsson explained the need for APIs for the feature because of CAPIF.

Some comments from Huawei had been offered off line. Why was the description text needed?

Off line discussions were received.

**Decision:** The document was **revised to C3-195373**.

**C3-195373 Supported feature in API publish service**

*Type: CR For: Agreement  
 29.222 v16.0.0 CR-0111 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson, Huawei*

(Replaces C3-195135)

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

### 16.22 CT Aspects of 5GS Transfer of Policies for Background Data [xBDT]

**C3-195020 Reference correction to BdtReferenceId**

*Type: CR For: Agreement  
 29.519 v16.1.1 CR-0153 Cat: F (Rel-16)  
  
 Source: Huawei*

**Abstract:**

Correct the reference to BdtReferenceId in the OpenAPI file

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

**C3-195070 Retrieval of BDT policy data for a set of BDT reference identifiers**

*Type: CR For: Agreement  
 29.519 v16.1.1 CR-0144 rev 2 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-194329)

**Abstract:**

GET method on the BDT data collection resource: added support of URI query parameter bdt-ref-ids which represent a list of the BDT reference identifiers.

For definition of query parameter bdt-ref-ids data type "BdtReferenceId" defined in TS 29.122 is reused.

OpenAPI specification file Nudr\_DataRepository for Policy Data updated accordingly.

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

**C3-195079 store BDT reference ID in SMPolicyData**

*Type: CR For: Agreement  
 29.525 v16.1.0 CR-0060 Cat: B (Rel-16)  
  
 Source: ZTE*

**Abstract:**

Update subclause 4.2.2.2.1 to clarify that:

If the (H-)PCF provisions the URSP rules including the Route Selection Validation Criteria for the UE, it shall use the associated S-NSSAI and DNN to store the Background Data Transfer Reference ID(s) in the UE's session management policy data as specified in 3GPP TS 29.519 [17].

**Discussion:**

It needed to be clarified where the procedures took place.

**Decision:** The document was **revised to C3-195251**.

**C3-195251 store BDT reference ID in SMPolicyData**

*Type: CR For: Agreement  
 29.525 v16.1.0 CR-0060 rev 1 Cat: B (Rel-16)  
  
 Source: ZTE*

(Replaces C3-195079)

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

**C3-195082 include S-NSSAI and DNN in Application Data for xBDT**

*Type: CR For: Agreement  
 29.519 v16.1.1 CR-0161 Cat: B (Rel-16)  
  
 Source: ZTE*

**Abstract:**

Clause 6.4.2.7 is updated to include S-NSSAI and DNN in BdtPolicyData.

The corresponding openAPI file is updated.

**Discussion:**

Huawei queried the format of the API. ZTE agreed.

**Decision:** The document was **revised to C3-195254**.

**C3-195254 include S-NSSAI and DNN in Application Data for xBDT**

*Type: CR For: Agreement  
 29.519 v16.1.1 CR-0161 rev 1 Cat: B (Rel-16)  
  
 Source: ZTE*

(Replaces C3-195082)

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

**C3-195083 remove 204 response on PUT request for AppliedBDTPolicyData**

*Type: CR For: Agreement  
 29.519 v16.1.1 CR-0162 Cat: F (Rel-16)  
  
 Source: ZTE*

**Abstract:**

Remove 204 response on PUT request for Individual Applied BDT Policy Data

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

**C3-195086 misssing ASP id in AF request for xBDT**

*Type: CR For: Agreement  
 29.522 v16.1.0 CR-0113 Cat: B (Rel-16)  
  
 Source: ZTE*

**Abstract:**

A new attribute “aspId” containing an application service provider is added in AppliedBdtPolicy datatype.

The corresponding openAPI file is updated

- the new attribute “aspId” added into AppliedBdtPolicy

- “required” list is added into AppliedBdtPolicy and AppliedBdtPolicyPatch respectively.

**Discussion:**

Ericsson believed the reference to 29.503 was omcprrect. In addition, Ericsson believed the new aspId was not needed. But this depended on the use of AF id.

**Decision:** The document was **revised to C3-195253**.

**C3-195253 misssing required in ApplyingBdtPolicy API file**

*Type: CR For: Agreement  
 29.522 v16.1.0 CR-0113 rev 1 Cat: F (Rel-16)  
  
 Source: ZTE*

(Replaces C3-195086)

**Abstract:**

Title change, category change compared to original CR.

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

**C3-195087 remove EN related to BDT reference ID storage in SMPolicyData**

*Type: CR For: Agreement  
 29.513 v16.1.0 CR-0101 Cat: F (Rel-16)  
  
 Source: ZTE*

**Abstract:**

1st change, 5.5.6 updated to

- delete PUT method as a way to update BDT policy to align with TS 29.522

- detail the description of step7 to clarify that the PCF sends the HTTP PATCH request to the "SessionManagementPolicyData" resource to store the BDT reference ID(s) in the UDR and remove the related EN.

2nd change, 5.6.2.2.2 updated to

- correct the referenced steps

**Discussion:**

Ericsson wished for some clarification of the first change; if a new policy was negotiated, did the previious state pertain. In short, did step 0 also include re-negotaiation? How many steps needed to be repeated?

The Chairman reminded the meeting that the scope of this CR was simply to remove an editor's note! But in fact ZTE was inclined to agree with Ericsson.

Ericsson believed a change was missing at step 3/4 (removal of another PUT).

**Decision:** The document was **revised to C3-195255**.

**C3-195255 remove EN related to BDT reference ID storage in SMPolicyData**

*Type: CR For: Agreement  
 29.513 v16.1.0 CR-0101 rev 1 Cat: F (Rel-16)  
  
 Source: ZTE*

(Replaces C3-195087)

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

**C3-195093 New cause value of association termination for xBDT**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0355 rev 3 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-194415)

**Abstract:**

1. The PCF includes the cause attribute set to "VALIDATION\_CONDITION\_NOT\_MET" to indicate the association termination.

2. New supported feature is defined.

3. New data type is defined.

**Discussion:**

Huawei proposed to merge two CRs agreed at meeting #106 (one from Vodafone). The origianal CRs were in C3-194288, C3-194292, together with this CR. Thus these two CT#106 CRs would be considered to have status "merged" and would not be forwarded to CT plenary for approval.

Vodafone was happy with this treatment.

In the first change, an "and" was thought to be missing on the third line, but on analysis this was determined not to be the case.

Some improvement to the clarity of the third paragraph in the first change was needed.

Further doubtless erudite but completely inaudible remarks were made.

ZTE believed that some of the changes referred to features defied elsewhere and were not appropriate in this CR. Off line discussion was needed.

**Decision:** The document was **revised to C3-195256**.

**C3-195256 New cause value of association termination for xBDT**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0355 rev 4 Cat: B (Rel-16)  
  
 Source: Huawei, Vodafone*

(Replaces C3-195093)

**Abstract:**

This revision of the CR incorporates the changes from C3-194288 and '4299.

**Discussion:**

The Oracle CR would need to use the release clause given in this CR.

ZTE found the first paragraph of 4.2.6.2.15 to be confusing. This led to a lengthy disussion with Ericsson and Huawei.

**Decision:** The document was **revised to C3-195392**.

**C3-195392 New cause value of association termination for xBDT**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0355 rev 5 Cat: B (Rel-16)  
  
 Source: Huawei, Vodafone*

(Replaces C3-195256)

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

**C3-195136 URSP provisioning for xBDT**

*Type: CR For: Agreement  
 29.525 v16.1.0 CR-0054 rev 2 Cat: B (Rel-16)  
  
 Source: Huawei, ZTE*

(Replaces C3-194290)

**Abstract:**

The procedure for this case is defined.

**Decision:** The document was **revised to C3-195252**.

**C3-195252 URSP provisioning for xBDT**

*Type: CR For: Agreement  
 29.525 v16.1.0 CR-0054 rev 3 Cat: B (Rel-16)  
  
 Source: Huawei, ZTE*

(Replaces C3-195136)

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

**C3-195192 Support of BDT reference Id within Session Management data**

*Type: CR For: Agreement  
 29.519 v16.1.1 CR-0149 rev 3 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-194416)

**Abstract:**

Control of the PATCH request via feature control. Proposed feature name is "SessionManagementPolicyDataPatch".

Clause 5.2.5.3.2 PATCH:

Correction of the request body data type to SmPolicyDataPatch.

Definition of the SmPolicyDataPatch which will include an attribute, "umData", whose data type is a map of UsageMonData, and smPolicySnssaiData which data type is a map of SmPolicySnssaiData.

Addition of the nullable property to UsageMonData type and umData attribute in SmPolicyData type.

Update of the SmPolicyDnnData type to include a map of BdtReferenceId, so that it is possible to include, per DNN and S-NSSAI, a list of applicable BdtReferenceIds.

Definition of the SmPolicySnssaiDataPatch and SmPolicyDnnDataPatch to be able to PATCH the SmPolicyDnnData document to create, update, or remove the list of BDT Reference Identifiers.

**Discussion:**

This CR introduced backwards compatible features to the Policy Data API.

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

### 16.23 Mobile Communication System for Railways (MONASTERY) [MONASTERY2]

### 16.24 CT aspects of SBA interactions between IMS and 5GC [eIMS5G\_SBA]

**C3-195203 Correction of AF Charging Identifier data type**

*Type: CR For: Agreement  
 29.514 v16.2.0 CR-0157 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Definition of :

• A reference to a new data type, ApplicationChargingId, type string, defined in 29.571

• New attribute using the new data type, i.e. “afChargId” that shall be used instead “afChargingIdentifier”.

**Discussion:**

There were no comments, but a decision was delayed awaiting the v1 / v2 decision..

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

**C3-195204 P-CSCF restoration**

*Type: CR For: Agreement  
 29.514 v16.2.0 CR-0158 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

P-CSCF restoration, based on indication from P-CSCF without creation of Individual Application Context, is defined.

**Discussion:**

Huawei did not think the restoration enhancements operation was needed for Rel-16.

Minor editorial improvements and corrections were proposed.

**Decision:** The document was **revised to C3-195308**.

**C3-195308 P-CSCF restoration**

*Type: CR For: Agreement  
 29.514 v16.2.0 CR-0158 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-195204)

**Discussion:**

A further typo was discovered.

**Decision:** The document was **revised to C3-195382**.

**C3-195382 P-CSCF restoration**

*Type: CR For: Agreement  
 29.514 v16.2.0 CR-0158 rev 2 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-195308)

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

**C3-195205 Support of Maximum Supported Bandwidth and Minimum Desired Bandwidth**

*Type: CR For: Agreement  
 29.514 v16.2.0 CR-0159 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Definition of maximum supported bandwidth and minimum desired bandwidth within the MediaComponent data type

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

**C3-195206 Support of the RAN-NAS Release Cause**

*Type: CR For: Agreement  
 29.514 v16.2.0 CR-0140 rev 2 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-194277)

**Abstract:**

Corrects errors in the previous version.

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

**C3-195208 QoS Parameter mapping at AF, N5 interface**

*Type: CR For: Agreement  
 29.513 v16.1.0 CR-0102 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Discussion:**

Huawei raised some concerns. Additional comments had been received concerning the reservation priority. Ericsson suggested it would be necessary to have some introductory text to clarify this. Perhaps a annex on multimedia could be introduced. Huawei thought there might be a need for cause mapping. But Ericsson was concerned with mixing SDP and mutimedia. Perhaps this could be sovled with a note.

There was an out of date reference to an RFC.

**Decision:** The document was **revised to C3-195405**.

**C3-195405 QoS Parameter mapping at AF, N5 interface**

*Type: CR For: Agreement  
 29.513 v16.1.0 CR-0102 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-195208)

**Discussion:**

This needed to be revised be revised to cater for the clash with a Qualcomm CR.

**Decision:** The document was **revised to C3-195435**.

**C3-195435 QoS Parameter mapping at AF, N5 interface**

*Type: CR For: Agreement  
 29.513 v16.1.0 CR-0102 rev 2 Cat: B (Rel-16)  
  
 Source: Ericsson, PerspectaLabs, Qualcomm Incorporated*

(Replaces C3-195405)

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

**C3-195209 Skeleton for Annex B, Signalling Flows for IMS**

*Type: CR For: Agreement  
 29.513 v16.1.0 CR-0103 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Definition of Annex B skeleton for the description of signalling flows for IMS.

**Discussion:**

Huawei wished also to include the Rx interactions. A reference to 29.214 was needed. There were other mechanisms than SDP.

**Decision:** The document was **revised to C3-195309**.

**C3-195309 Skeleton for Annex B, Signalling Flows for IMS**

*Type: CR For: Agreement  
 29.513 v16.1.0 CR-0103 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-195209)

**Discussion:**

Huawai had a concern about the third change. A clarification was agreed. There was a wrong reference.

**Decision:** The document was **revised to C3-195383**.

**C3-195383 Skeleton for Annex B, Signalling Flows for IMS**

*Type: CR For: Agreement  
 29.513 v16.1.0 CR-0103 rev 2 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-195309)

**Decision:** The document was **revised to C3-195406**.

**C3-195406 Skeleton for Annex B, Signalling Flows for IMS**

*Type: CR For: Agreement  
 29.513 v16.1.0 CR-0103 rev 3 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-195383)

**Discussion:**

A surplus quotation mark was observed.

**Decision:** The document was **revised to C3-195411**.

**C3-195411 Skeleton for Annex B, Signalling Flows for IMS**

*Type: CR For: Agreement  
 29.513 v16.1.0 CR-0103 rev 4 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-195406)

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

### 16.25 CT aspects of application layer support for V2X services[V2XAPP]

**C3-195101 OpenAPI file corrections**

*Type: pCR For: Approval  
 29.486 v0.2.0  
 Source: Huawei*

**Abstract:**

It is proposed to agree the following changes to 3GPP TS 29.486 V0.2.0.

**Discussion:**

It was noted that the CAPIF spec did not define all these details. Did this follow the same security regime as for Northbound APIs?

Some editorial improvements were identified.

**Decision:** The document was **revised to C3-195320**.

**C3-195320 OpenAPI file corrections**

*Type: pCR For: Approval  
 29.486 v0.2.0  
 Source: Huawei*

(Replaces C3-195101)

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

**C3-195102 Reception Report**

*Type: pCR For: Approval  
 29.486 v0.2.0  
 Source: Huawei*

**Abstract:**

VAE server provides the indication of reception report required to the VAE client. When the VAE server receives the report, the VAE doesn’t provide the report to the V2X application specific server. The VAE will repeat to delivery the message to the VAE client.

1) Remove the editor’s note.

2) Remove the "reportRequired" attribute

**Discussion:**

Erricson drew attention to an SA6 discussion on this topic contemporaneously with the present CT3 meeting.

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

**C3-195103 Resource deletion**

*Type: pCR For: Approval  
 29.486 v0.2.0  
 Source: Huawei*

**Abstract:**

The API supports to delete the resource request by the NF service consumer or delete the resource locally when message delivery duration expires.

**Discussion:**

Some editorial improvements were proposed.

Ericsson had concerns over the addition to table 6.1.6.2.2-1. This needed to be consistent with the Northbound APIs.

**Decision:** The document was **revised to C3-195321**.

**C3-195321 Resource deletion**

*Type: pCR For: Approval  
 29.486 v0.2.0  
 Source: Huawei*

(Replaces C3-195103)

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

**C3-195104 Supported Features**

*Type: pCR For: Approval  
 29.486 v0.2.0  
 Source: Huawei*

**Abstract:**

Include the suppFeat attribute in the V2xMessageDeliveryData and V2xFileDistributionData

**Discussion:**

It was questioned what was meant by XXX API.

**Decision:** The document was **revised to C3-195322**.

**C3-195322 Supported Features**

*Type: pCR For: Approval  
 29.486 v0.2.0  
 Source: Huawei*

(Replaces C3-195104)

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

**C3-195105 VAE\_V2X\_Application\_Requirement service**

*Type: pCR For: Approval  
 29.486 v0.2.0  
 Source: Huawei*

**Abstract:**

VAE\_V2X\_Application\_Requirement shall be defined.

**Discussion:**

Ericsson proposed a text change in 5.4.2.2.2 to align with stage 2. Ericsson wondered whether the editor's note could be removed, was it possible to apply the same mechanism for deletion as had been used elsewhere? If the note was removed, it would be necessary to define the procedure.

Huawei needed to consider this further.

In 6.3.3.1, there was no need for the box since it was not a custom operation; alternatively the DELETED operation should be removed.

Clause 6.3.6.2.3 had a typo in the title. And it was proposed to change the type to enumeration.

The title of 6.3.6.2.4 was not appropriate. Also, instead of the result attribute being a string, there was a well-known type which should be used in stead. Cf the editor's note below the table.

Some editorial corrections were proposed.

**Decision:** The document was **revised to C3-195323**.

**C3-195323 VAE\_V2X\_Application\_Requirement service**

*Type: pCR For: Approval  
 29.486 v0.2.0  
 Source: Huawei*

(Replaces C3-195105)

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

**C3-195106 VAE\_V2X\_Application\_Requirement OpenAPI file**

*Type: pCR For: Approval  
 29.486 v0.2.0  
 Source: Huawei*

**Abstract:**

VAE\_V2X\_Application\_Requirement OpenAPI file shall be defined.

**Discussion:**

Comments relating to ealier CRs were applicable here.

**Decision:** The document was **revised to C3-195324**.

**C3-195324 VAE\_V2X\_Application\_Requirement OpenAPI file**

*Type: pCR For: Approval  
 29.486 v0.2.0  
 Source: Huawei*

(Replaces C3-195106)

**Discussion:**

One change was missing, and the externalDocs needed updating.

There was (at least) onstance of "subclause subclause".

The security aspects in the yaml was in the wrong position.

**Decision:** The document was **revised to C3-195395**.

**C3-195395 VAE\_V2X\_Application\_Requirement OpenAPI file**

*Type: pCR For: Approval  
 29.486 v0.2.0  
 Source: Huawei*

(Replaces C3-195324)

**Decision:** The document was **revised to C3-195407**.

**C3-195407 VAE\_V2X\_Application\_Requirement OpenAPI file**

*Type: pCR For: Approval  
 29.486 v0.2.0  
 Source: Huawei*

(Replaces C3-195395)

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

**C3-195107 VAE\_V2X\_Dynamic\_Group service**

*Type: pCR For: Approval  
 29.486 v0.2.0  
 Source: Huawei*

**Abstract:**

VAE\_V2X\_Dynamic\_Group Service shall be defined.

**Discussion:**

Ericsson thought the reason for change was unclear. An editor's note in stage 2 proposed moving this functionality to … somewhere else. The SA6 requirement was not stable.

Huawei made an inaudible remark. Ericsson responded in like manner. But it seemed that there had been no contributions in SA6. There was scope for bypassing the V2X application server. It was proposed to wait one further meeting. Huawei was not happy with the delay to achieving stability.

The Chairman believed it was time to make some assumptions, and inform other parties of those assumptions.

An editor's note had been added by an Ericsson delegate (not at the meeting) so Ericsson proposed to postpone the pCR to the next meeting. Huawei was anxious to keep the spec consistent with SA6. It also seems tha there was some divergence from the SA2 status. Ericsson was concerned that time was running short before the Release freeze. SA6 would address this topic in its January 2020 meeting.

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

**C3-195108 VAE\_V2X\_Dynamic\_Group OpenAPI file**

*Type: pCR For: Approval  
 29.486 v0.2.0  
 Source: Huawei*

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

**C3-195356 TS 29.486 v0.3.0**

*Type: draft TS For: Agreement  
 29.486 v0.3.0  
 Source: Huawei*

**Discussion:**

The new version would be provided after the end of the meeting.

**ACTION: To make available.  
 (action on: Huawei / due by: 2019-11-20)**

**ACTION: To review.  
 (action on: All delegates / due by: 2019-11-22)**

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

### 16.26 xMB extension for mission critical services [MC\_XMB-CT]

### 16.27 CT aspects of enhancements for Common API Framework for 3GPP Northbound APIs [eCAPIF]

**C3-195137 eCAPIF work plan**

*Type: Work Plan For: Discussion  
 Source: Samsung*

**Discussion:**

Samsung presented the updates since last time. Huawei believed they would provide CRs to the next meeting. Currently, everthing seemed to be on schedule.

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

**C3-195121 Support query source verification in cascaded CAPIF discovery**

*Type: CR For: Agreement  
 29.222 v16.0.0 CR-0110 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-195267**.

**C3-195267 Support query source verification in cascaded CAPIF discovery**

*Type: CR For: Agreement  
 29.222 v16.0.0 CR-0110 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-195121)

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

**C3-195138 Updates to Service Architecture and functional entities**

*Type: CR For: Agreement  
 29.222 v16.0.0 CR-0101 rev 2 Cat: B (Rel-16)  
  
 Source: Samsung*

(Replaces C3-194358)

**Discussion:**

It was necessary to add a NOTE describing the situation of CAPIF-7 interface. "PLMN" had to be replaced with "PLMN domain"

**Decision:** The document was **revised to C3-195268**.

**C3-195268 Updates to Service Architecture and functional entities**

*Type: CR For: Agreement  
 29.222 v16.0.0 CR-0101 rev 3 Cat: B (Rel-16)  
  
 Source: Samsung*

(Replaces C3-195138)

**Discussion:**

Inconsistent capitalization was identified. A domain ws missing.

**Decision:** The document was **revised to C3-195384**.

**C3-195384 Updates to Service Architecture and functional entities**

*Type: CR For: Agreement  
 29.222 v16.0.0 CR-0101 rev 4 Cat: B (Rel-16)  
  
 Source: Samsung*

(Replaces C3-195268)

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

**C3-195139 API invoker details update – Service Definition**

*Type: CR For: Agreement  
 29.222 v16.0.0 CR-0112 Cat: B (Rel-16)  
  
 Source: Samsung*

**Discussion:**

A modification to in clause 5.5.2.X.2 was required.

**Decision:** The document was **revised to C3-195269**.

**C3-195269 API invoker details update – Service Definition**

*Type: CR For: Agreement  
 29.222 v16.0.0 CR-0112 rev 1 Cat: B (Rel-16)  
  
 Source: Samsung*

(Replaces C3-195139)

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

**C3-195140 API invoker details update – API Definition**

*Type: CR For: Agreement  
 29.222 v16.0.0 CR-0113 Cat: B (Rel-16)  
  
 Source: Samsung*

**Abstract:**

Update the definition of CAPIF\_API\_Invoker\_Management\_API with PUT method.

Update the CAPIF\_API\_Invoker\_Management\_API OpenAPI specification (Annex A.5)

**Discussion:**

Offline comments had been received.

**Decision:** The document was **revised to C3-195270**.

**C3-195270 API invoker details update – API Definition**

*Type: CR For: Agreement  
 29.222 v16.0.0 CR-0113 rev 1 Cat: B (Rel-16)  
  
 Source: Samsung*

(Replaces C3-195140)

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

**C3-195141 API Provider Registration and Update – Service Definition**

*Type: CR For: Agreement  
 29.222 v16.0.0 CR-0114 Cat: B (Rel-16)  
  
 Source: Samsung*

**Decision:** The document was **revised to C3-195271**.

**C3-195271 API Provider Registration and Update – Service Definition**

*Type: CR For: Agreement  
 29.222 v16.0.0 CR-0114 rev 1 Cat: B (Rel-16)  
  
 Source: Samsung*

(Replaces C3-195141)

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

**C3-195142 API Provider Registration and Update – API Definition**

*Type: CR For: Agreement  
 29.222 v16.0.0 CR-0115 Cat: B (Rel-16)  
  
 Source: Samsung*

**Discussion:**

There was need to modify the wording in clause 8.X.2.2.1, modify the tree in clause 8.X.2.1 and modify the Description in Table 8.X.2.3.3.1-3.

**Decision:** The document was **revised to C3-195272**.

**C3-195272 API Provider Registration and Update – API Definition**

*Type: CR For: Agreement  
 29.222 v16.0.0 CR-0115 rev 1 Cat: B (Rel-16)  
  
 Source: Samsung*

(Replaces C3-195142)

**Discussion:**

(Wrong document uploaded under this number)

**Decision:** The document was **revised to C3-195371**.

**C3-195371 API Provider Registration and Update – API Definition**

*Type: CR For: Agreement  
 29.222 v16.0.0 CR-0115 rev 2 Cat: B (Rel-16)  
  
 Source: Samsung*

(Replaces C3-195272)

**Discussion:**

It was necessary to update "v1" To "{apiVersion1}" throughout. It was noticed en passant that this error existed in other TSs too.

Cells needed to be merged in a table.

**Decision:** The document was **revised to C3-195396**.

**C3-195396 API Provider Registration and Update – API Definition**

*Type: CR For: Agreement  
 29.222 v16.0.0 CR-0115 rev 3 Cat: B (Rel-16)  
  
 Source: Samsung*

(Replaces C3-195371)

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

**C3-195143 Support for 3rd party API provider domain**

*Type: CR For: Agreement  
 29.222 v16.0.0 CR-0116 Cat: B (Rel-16)  
  
 Source: Samsung*

**Discussion:**

A note number needed to be removed, and the clauses affected were missing from the cover sheet.

**Decision:** The document was **revised to C3-195273**.

**C3-195273 Support for 3rd party API provider domain**

*Type: CR For: Agreement  
 29.222 v16.0.0 CR-0116 rev 1 Cat: B (Rel-16)  
  
 Source: Samsung*

(Replaces C3-195143)

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

### 16.28 CT aspects of Service Enabler Architecture Layer for Verticals [SEAL]

**C3-195144 SEAL APIs work plan**

*Type: Work Plan For: Discussion  
 Source: Samsung*

**Discussion:**

Samsung presented the status report, and it was noted that there was some dependency on SA6 work. It was believed that the CT3 work could be fininwhed on time.

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

**C3-195157 Group and Configuration management – API and Service operations**

*Type: pCR For: Approval  
 29.549 v0.2.0  
 Source: Samsung*

**Abstract:**

Clause 5.1 updated with suggested API and service operation names for Group and Configuration management services.

Create\_Group service operation introduced, aligning to stage-2 procedure.

**Discussion:**

Ericsson understood that this pCR sought to align with SA6, but SA6 had not yet confirmed their status.

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

**C3-195170 Group management – Service definition**

*Type: pCR For: Approval  
 29.549 v0.2.0  
 Source: Samsung*

**Abstract:**

Service definition of Group Management service operations.

Update clause numbers(remove/update), as group management service operations are merged.

**Discussion:**

Samsung noted that no Delete operation had been specified because stage 2 had not called for it. Email discussion was still on-going on this. Also ounder discussion was the separation or not of Create and Management.

Ericsson thought separation was best. On examination of the document, it seemed that better alighmnet (and cross referencing) with stage 2 and with another pCR was needed. This needed to be discussed off line. Clause 5.3.2.2.4 was needed because a general description existed elsewhere.

Samsung would handle these aspects at the next meeting, though Ericsson would prefer to do it at the present meeting, or alternatively it would be desirable to add an edditor's note to give forewarning of this.

Samsung agreed to remove the subclauses.

Huawei had concerns over this pCR which needed off line discussion, possibly resulting in editor's notes if no final solution could be arrived at.

**Decision:** The document was **revised to C3-195260**.

**C3-195260 Group management – Service definition**

*Type: pCR For: Approval  
 29.549 v0.2.0  
 Source: Samsung*

(Replaces C3-195170)

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

**C3-195171 Group management – API definition**

*Type: pCR For: Approval  
 29.549 v0.2.0  
 Source: Samsung*

**Abstract:**

API definition of SS\_GroupManagement API.

Update clause numbers(remove/update), as group management service operations are merged.

**Discussion:**

Samsung proposed to treat this pCR similarly to the previous one. Ericsson was happy with this approach.

The same Huawei position pertained.

The only remaining outstanding issue was the need or not for the Delete operation.

Ericsson made comments with respect to Group Id and Group Document Id, Sansung noting that these were very different in nature. Ericsson referred to stage 2, and was concerned by the naming convention used in this TS.

There was some confusion over whether the provisions of this document were part of the resource in CT1. Ericsson would like to see a reference to the CT1 definition. Ericsson had further remarks on 7.2.1.4.2.2, and Samsung sought to clarify their intentions.

**Decision:** The document was **revised to C3-195261**.

**C3-195261 Group management – API definition**

*Type: pCR For: Approval  
 29.549 v0.2.0  
 Source: Samsung*

(Replaces C3-195171)

**Discussion:**

Huawei suggested to add an editor's note to draw attention to the misalignment with SA6 (where the request message was mandatory, whilst here it was optional). In the end, it was decided to align this CR with the SA6 spec.

Oracle indicated a typographical correct ion clause 7.2.1.2.1.

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

**C3-195441 Group management – API definition**

*Type: pCR For: Approval  
 29.549 v0.2.0  
 Source: Samsung*

(Replaces C3-195261)

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

**C3-195172 Configuration management – Service definition**

*Type: pCR For: Approval  
 29.549 v0.2.0  
 Source: Samsung*

**Abstract:**

Service definition of Configuration Management service operations.

**Discussion:**

Samsung noted that there had been off line comments from Huawei on this document. It was important to align with stage 2.

Similar comments from Ericsson to those on the previous pCR applied here.

**Decision:** The document was **revised to C3-195262**.

**C3-195262 Configuration management – Service definition**

*Type: pCR For: Approval  
 29.549 v0.2.0  
 Source: Samsung*

(Replaces C3-195172)

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

**C3-195184 Configuration management – API definition**

*Type: pCR For: Approval  
 29.549 v0.2.0  
 Source: Samsung*

**Abstract:**

API definition of SS\_UserProfileRetrieval API and minor updates to SS\_UserProfileEvent API.

**Discussion:**

An off line comment had been received from Huawei.

Ericsson noted that figures had been removed without revision marks. Samsung appologiesed for this.

There was concern over the existence of resources that served no purpose. This was not necessary simply to keep the structure regular. It was not recommended to dispense with containers, having a fixed prefix. Without this there might be difficulty in extending the capability later on.

The Chairman drew attention to the way of refering to the API version.

It was noted that there was no Create operation, only Get.

**Decision:** The document was **revised to C3-195263**.

**C3-195263 Configuration management – API definition**

*Type: pCR For: Approval  
 29.549 v0.2.0  
 Source: Samsung*

(Replaces C3-195184)

**Discussion:**

It was not agreed that 29.549 should be sent to TSG. This was odd because the WI was deemed to be 70% complete. But there was some debate that the completion percentage was rather lower. After some discussion, it was agreed to raise the TS to v1.0.0 and send it to the TSG.

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

**C3-195185 Common design aspects - Data types**

*Type: pCR For: Approval  
 29.549 v0.2.0  
 Source: Samsung*

**Abstract:**

Updates to Data Types, clause 6.2

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

**C3-195186 Using Common API Framework**

*Type: pCR For: Approval  
 29.549 v0.2.0  
 Source: Samsung*

**Abstract:**

Update to clause 8, detailing general and security aspects with respect to CAPIF.

**Discussion:**

Ericsson noticed an incomplete sentence above Note 2.

**Decision:** The document was **revised to C3-195264**.

**C3-195264 Using Common API Framework**

*Type: pCR For: Approval  
 29.549 v0.2.0  
 Source: Samsung*

(Replaces C3-195186)

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

**C3-195187 Coversheet for Information**

*Type: TS or TR cover For: Approval  
 29.549 v0.2.0  
 Source: Samsung*

**Abstract:**

TS 29.549 is to specify the APIs for the Service Enabler Architecture Layer for Verticals (SEAL). The SEAL and related stage 2 architecture, functional requirements and information flows are specified in 3GPP TS 23.434. The SEAL services include, group management, configuration management, location management, identity management, key management and network resource management. The aspects of this specification include APIs specification for these SEAL services.

The work item has progressed on the following aspects:

1. Group Management API

2. Configuration Management API

3. Common Design aspects for SEAL

4. Using CAPIF Framework

Work in progress to specify the APIs for Location management, Network resource management, Identity management, Key management and SEAL events API.

**Discussion:**

Samsung believed that the TS was 65% complete.

Ericsson would like time to evaluate the degree of completion.

Finally, it was decided to send the TS to TSG for information. But the cover sheet needed to identify the outstanding issues.

**Decision:** The document was **revised to C3-195443**.

**C3-195443 Presentation of TS 29.549 for information:**

**Service Enabler Architecture Layer for Verticals (SEAL);Application Programming Interface (API) specification [29.549]**

*Type: TS or TR cover For: Approval  
 29.549 v0.2.0  
 Source: Samsung*

(Replaces C3-195187)

**Discussion:**

It was agreed that the TS was 60% complete.

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

**C3-195307 TS 29.549 v0.3.0**

*Type: draft TS For: Agreement  
 29.549 v0.3.0  
 Source: Rapporteur (Narendranath Durga Tangudu)*

**Discussion:**

The new version would be provided after the end of the meeting.

**ACTION: To make available.  
 (action on: Samsung / due by: 2019-11-20)**

**ACTION: To review.  
 (action on: All delegates / due by: 2019-11-22)**

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

### 16.29 Load and Overload Control of 5GC Service Based Interfaces [LOCL]

### 16.30 Technical Enhancements and Improvements [TEI16]

#### 16.30.1 TEI16 for IMS/CS

**C3-195014 Interworking of Local Number Format in From Header Field**

*Type: CR For: Agreement  
 29.163 v16.3.0 CR-1072 Cat: B (Rel-16)  
  
 Source: Deutsche Telekom / Michael*

**Abstract:**

This CR extends the network option to interwork local From header field / Generic Number to the direction SIP->ISUP.

**Discussion:**

Ericsson drew attention to the terminology in noe 4, which should be aligned with IETF.

**Decision:** The document was **revised to C3-195294**.

**C3-195294 Interworking of Local Number Format in From Header Field**

*Type: CR For: Agreement  
 29.163 v16.3.0 CR-1072 rev 1 Cat: B (Rel-16)  
  
 Source: Deutsche Telekom / Michael*

(Replaces C3-195014)

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

**C3-195088 Correction for setting condition of the contact hedaer field**

*Type: CR For: Agreement  
 29.165 v16.0.0 CR-0997 Cat: F (Rel-16)  
  
 Source: NTT corporation*

**Abstract:**

In table B.7.2 support of the Contact header field in 18x and 199 responses changed to "dm" and a new note added to explain that support is mandatory required for 3GPP profile status in accordance to TS 24.229.

**Discussion:**

Ericsson proposed to correct the reference. It was also proposed to modify the title page.

**Decision:** The document was **revised to C3-195295**.

**C3-195295 Correction for setting condition of the Contact hedaer field**

*Type: CR For: Agreement  
 29.165 v16.0.0 CR-0997 rev 1 Cat: F (Rel-16)  
  
 Source: NTT corporation*

(Replaces C3-195088)

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

**C3-195191 Interworking of Local Number Format in Generic Number**

*Type: CR For: Agreement  
 29.163 v16.3.0 CR-1070 rev 4 Cat: B (Rel-16)  
  
 Source: Deutsche Telekom*

(Replaces C3-194401)

**Abstract:**

Revises the category.

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

#### 16.30.2 TEI16 for Packet Core

**C3-195037 Coverage and Handover Enhancements for Media (CHEM)**

*Type: CR For: Agreement  
 29.214 v16.0.0 CR-1628 rev 3 Cat: B (Rel-16)  
  
 Source: Qualcomm UK Ltd*

(Replaces C3-194465)

**Abstract:**

Added a section to describe CHEM feature attributes- PLR\_adapt, Maxe2e-PLR in SDP offer and answer

**Discussion:**

Comments had been received off line about two AVPs.

**Decision:** The document was **revised to C3-195311**.

**C3-195311 Coverage and Handover Enhancements for Media (CHEM)**

*Type: CR For: Agreement  
 29.214 v16.0.0 CR-1628 rev 4 Cat: B (Rel-16)  
  
 Source: Qualcomm UK Ltd*

(Replaces C3-195037)

**Abstract:**

Revision 4:

• P-CSCF will check both SDP Offer and SDP answer to configure Max-PLR-DL and Max-PLR-UL to PCRF

• Added new Max-PLR-DL and Max-PLR-UL AVP in Media-Component-Description AVP

**Discussion:**

Several minor modifications were requested. The AVP clauses had to be removed and a referrence to the relevant spec were needed. A change from "section" to "clause" was needed.

**Decision:** The document was **revised to C3-195402**.

**C3-195402 Coverage and Handover Enhancements for Media (CHEM)**

*Type: CR For: Agreement  
 29.214 v16.0.0 CR-1628 rev 5 Cat: B (Rel-16)  
  
 Source: Qualcomm UK Ltd*

(Replaces C3-195311)

**Discussion:**

Several editorial metters were identified.

**Decision:** The document was **revised to C3-195408**.

**C3-195408 Coverage and Handover Enhancements for Media (CHEM)**

*Type: CR For: Agreement  
 29.214 v16.0.0 CR-1628 rev 6 Cat: B (Rel-16)  
  
 Source: Qualcomm UK Ltd*

(Replaces C3-195402)

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

**C3-195038 Coverage and Handover Enhancements for Media (CHEM)**

*Type: CR For: Agreement  
 29.213 v16.0.0 CR-0740 rev 3 Cat: B (Rel-16)  
  
 Source: Qualcomm UK Ltd*

(Replaces C3-194466)

**Abstract:**

The QoS attributes- Max-PLR-DL and Max-PLR-UL AVPs calculations rules for the CHEM feature were specified.

**Discussion:**

Ercsson was in favour of the approach.

**Decision:** The document was **revised to C3-195312**.

**C3-195312 Coverage and Handover Enhancements for Media (CHEM)**

*Type: CR For: Agreement  
 29.213 v16.0.0 CR-0740 rev 4 Cat: B (Rel-16)  
  
 Source: Qualcomm UK Ltd*

(Replaces C3-195038)

**Abstract:**

Revision 4:

• Added Max-PLR-DL and Max-PLR-UL AVP in Media-Component-Description AVP

• Updated algorithm for computing Max-PLR-DL when MAXimum-e2e-PLR line is not present in the SDP OFFER and if maxUL-PLR is present/not present in the SDP ANSWER

**Decision:** The document was **revised to C3-195403**.

**C3-195403 Coverage and Handover Enhancements for Media (CHEM)**

*Type: CR For: Agreement  
 29.213 v16.0.0 CR-0740 rev 5 Cat: B (Rel-16)  
  
 Source: Qualcomm UK Ltd*

(Replaces C3-195312)

**Discussion:**

There was an editorial correction to be done.

**Decision:** The document was **revised to C3-195437**.

**C3-195437 Coverage and Handover Enhancements for Media (CHEM)**

*Type: CR For: Agreement  
 29.213 v16.0.0 CR-0740 rev 6 Cat: B (Rel-16)  
  
 Source: Qualcomm UK Ltd*

(Replaces C3-195403)

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

**C3-195039 Coverage and Handover Enhancements for Media (CHEM)**

*Type: CR For: Agreement  
 29.212 v16.1.0 CR-1692 rev 3 Cat: B (Rel-16)  
  
 Source: Qualcomm UK Ltd*

(Replaces C3-194467)

**Abstract:**

Maximum Packet Loss Rate AVPs can be configured to support both RAN-Support-Info feature or CHEM feature

**Discussion:**

Ericsson noted that in the feature was not restricted to voice communication. The BCF internal logic would have to cope with this. But was this really necessary? The procedural part of the spec was based on local configuration only. This new feature was therefore unnecessary.

Qualcomm observed that further changes would be needed to justify the logic.

**Decision:** The document was **revised to C3-195313**.

**C3-195313 Coverage and Handover Enhancements for Media (CHEM)**

*Type: CR For: Agreement  
 29.212 v16.1.0 CR-1692 rev 4 Cat: B (Rel-16)  
  
 Source: Qualcomm UK Ltd*

(Replaces C3-195039)

**Abstract:**

Revision 4:

• CHEM feature tag is removed

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

**C3-195044 Coverage and Handover Enhancements for Media (CHEM)**

*Type: CR For: Agreement  
 29.514 v16.2.0 CR-0148 Cat: B (Rel-16)  
  
 Source: Qualcomm India Pvt Ltd*

**Abstract:**

Added a section to describe CHEM feature attributes- PLR\_adapt, Maxe2e-PLR in SDP offer and answer

**Discussion:**

The same diiscussion applied.

**Decision:** The document was **revised to C3-195314**.

**C3-195314 Coverage and Handover Enhancements for Media (CHEM)**

*Type: CR For: Agreement  
 29.514 v16.2.0 CR-0148 rev 1 Cat: B (Rel-16)  
  
 Source: Qualcomm India Pvt Ltd*

(Replaces C3-195044)

**Abstract:**

Revision 1:

• Added maxPacketLossRateUl attribute and maxPacketLossRateUl attribute in Media-Component-Description AVP

**Discussion:**

Ericsson identified a problem in the third change. There should be no AVP. Theer were a number of instances. And the type Meida Component was missing.

**Decision:** The document was **revised to C3-195444**.

**C3-195444 Coverage and Handover Enhancements for Media (CHEM)**

*Type: CR For: Agreement  
 29.514 v16.2.0 CR-0148 rev 2 Cat: B (Rel-16)  
  
 Source: Qualcomm India Pvt Ltd*

(Replaces C3-195314)

**Abstract:**

Revision 2:

• Changed description of Media-Component-Description AVP to attribute

• removed changes to 5.6.2.27 and added 5.6.2.7

• Updated B.2 with maxPacketLossRateDl attribute and maxPacketLossRateUl attribute

**Discussion:**

The names of attributes should have replaced the AVPs.

**Decision:** The document was **revised to C3-195446**.

**C3-195446 Coverage and Handover Enhancements for Media (CHEM)**

*Type: CR For: Agreement  
 29.514 v16.2.0 CR-0148 rev 3 Cat: B (Rel-16)  
  
 Source: Qualcomm India Pvt Ltd*

(Replaces C3-195444)

**Discussion:**

A (repeated) typo was spotted.

**Decision:** The document was **revised to C3-195447**.

**C3-195447 Coverage and Handover Enhancements for Media (CHEM)**

*Type: CR For: Agreement  
 29.514 v16.2.0 CR-0148 rev 4 Cat: B (Rel-16)  
  
 Source: Qualcomm India Pvt Ltd*

(Replaces C3-195446)

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

**C3-195045 Coverage and Handover Enhancements for Media (CHEM)**

*Type: CR For: Agreement  
 29.513 v16.1.0 CR-0098 Cat: B (Rel-16)  
  
 Source: Qualcomm India Pvt Ltd*

**Abstract:**

The QoS attributes- MaxPacketLossRateDl and MaxPacketLossRateUl AVPs calculations rules for the CHEM feature were specified.

**Discussion:**

The same diiscussion applied. Ericsson drew attention to one of their CRs, and this needed to be coordinated dwith Qualcomm.

**Decision:** The document was **revised to C3-195315**.

**C3-195315 Coverage and Handover Enhancements for Media (CHEM)**

*Type: CR For: Agreement  
 29.513 v16.1.0 CR-0098 rev 1 Cat: B (Rel-16)  
  
 Source: Qualcomm India Pvt Ltd*

(Replaces C3-195045)

**Discussion:**

This revision created the tables from the original Qualcomm and Ericsson CRs, although there was no collision. This implied a revision of the Ericsson CR.

It was necessary to change "can" to "may".

**Decision:** The document was **revised to C3-195434**.

**C3-195434 Coverage and Handover Enhancements for Media (CHEM)**

*Type: CR For: Agreement  
 29.513 v16.1.0 CR-0098 rev 2 Cat: B (Rel-16)  
  
 Source: Qualcomm India Pvt Ltd*

(Replaces C3-195315)

**Abstract:**

Revision 2:

• CR 5435 to 29.513 will merge the C3-195405-CR 0102 and the proposed changes in this CR- maxPacketLossRateDl attribute and maxPacketLossRateUl attribute in Media-Component-Description AVP

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

**C3-195046 Coverage and Handover Enhancements for Media (CHEM)**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0373 Cat: B (Rel-16)  
  
 Source: Qualcomm India Pvt Ltd*

**Abstract:**

Maximum Packet Loss Rate AVPs can be configured to support both RAN-Support-Info feature or CHEM feature

**Discussion:**

The same diiscussion applied.

**Decision:** The document was **revised to C3-195316**.

**C3-195316 Coverage and Handover Enhancements for Media (CHEM)**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0373 rev 1 Cat: B (Rel-16)  
  
 Source: Qualcomm India Pvt Ltd*

(Replaces C3-195046)

**Abstract:**

Revision 1:

CHEM feature tag is removed

**Discussion:**

A corrected reference was needed.

**Decision:** The document was **revised to C3-195436**.

**C3-195436 Coverage and Handover Enhancements for Media (CHEM)**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0373 rev 2 Cat: B (Rel-16)  
  
 Source: Qualcomm India Pvt Ltd*

(Replaces C3-195316)

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

**C3-195047 Increasing the maximum MDBV value**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0345 rev 2 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated / Lena*

(Replaces C3-194285)

**Abstract:**

- new feature “EMDBV” (Extended Maximum Data Burst Volume) was introduced

- a new extMaxDataBurstVol attribute using the new ExtMaxDataBurstVol data type was added in all data structures which currently include the maxDataBurstVol attribute

- a new subclause specifying the use of the new extMaxDataBurstVol attribute by the PCF was added

- the OpenAPI annex was updated accordingly

**Discussion:**

The CR history box on the cover sheet provided the justification for this new version of the CR.

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

**C3-195056 Update to NIDD APIs for RDS Dynamic Port Management**

*Type: CR For: Agreement  
 29.122 v16.3.0 CR-0158 rev 6 Cat: B (Rel-16)  
  
 Source: Intel*

(Replaces C3-193173)

**Abstract:**

Add functionality to manage port numbers dynamically and associate them with different applications as part of NIDD configuration.

**Discussion:**

Qualcomm had received extensive off line comments.

**Decision:** The document was **revised to C3-195317**.

**C3-195317 Update to NIDD APIs for RDS Dynamic Port Management**

*Type: CR For: Agreement  
 29.122 v16.3.0 CR-0158 rev 7 Cat: B (Rel-16)  
  
 Source: Intel*

(Replaces C3-195056)

**Decision:** The document was **revised to C3-195425**.

**C3-195425 Update to NIDD APIs for RDS Dynamic Port Management**

*Type: CR For: Agreement  
 29.122 v16.3.0 CR-0158 rev 8 Cat: B (Rel-16)  
  
 Source: Intel*

(Replaces C3-195317)

**Discussion:**

Wrong tdoc number and wrong CR rev number shown on cover.

**Decision:** The document was **revised to C3-195448**.

**C3-195448 Update to NIDD APIs for RDS Dynamic Port Management**

*Type: CR For: Agreement  
 29.122 v16.3.0 CR-0158 rev 9 Cat: B (Rel-16)  
  
 Source: Intel*

(Replaces C3-195425)

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

**C3-195099 PFD partial failure notification**

*Type: CR For: Agreement  
 29.122 v16.3.0 CR-0212 rev 2 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-194374)

**Abstract:**

1) In the procedure, if the SCEF receives the location area(s) of PCEF/TDF which can not enforce the PFD(s) from the PFDF, the SCEF shall include the location area(s) within the "locationArea" attribute of the PFD report(s).

2) Remove the editor’s note to allow the 3GPP network area to be exposed to the 3rd party.

3) Update the OpenAPI files

**Discussion:**

Some editorial improvements were noted. Ericsson proposed to change data structure to data type. The data type which was updated affected the yaml code. There was some doubt over the alignemnt with the table.

**Decision:** The document was **revised to C3-195318**.

**C3-195318 PFD partial failure notification**

*Type: CR For: Agreement  
 29.122 v16.3.0 CR-0212 rev 3 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-195099)

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

**C3-195100 PFD partial failure notification**

*Type: CR For: Agreement  
 29.522 v16.1.0 CR-0096 rev 3 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-194421)

**Abstract:**

In the partial failure case, the NEF may include the location area(s) of the UPF(s) which can not enforce the PFD(s) within the "locationArea" attribute of the PFD report(s)

**Discussion:**

Similar considerations applied as to the previoius CR.

Ericsson believed the new text should not appear in this TS but elsewhere. But the Chairman questioned how this could really be accomplished. Also, the caching time was not reported in the notification but in the initial response.

**Decision:** The document was **revised to C3-195319**.

**C3-195319 PFD partial failure notification**

*Type: CR For: Agreement  
 29.522 v16.1.0 CR-0096 rev 4 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-195100)

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

**C3-195122 Correct the redirection server address to support dual stack UE**

*Type: CR For: Agreement  
 29.212 v16.1.0 CR-1694 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Have separate Diameter AVP to support additional redirection server information.

**Discussion:**

Wuawei did not think the new AVP was needed. Multiple instances of the single AVP were permitted. Ericsson checked this off line.

**Decision:** The document was **revised to C3-195343**.

**C3-195343 Correct the redirection server address to support dual stack UE**

*Type: CR For: Agreement  
 29.212 v16.1.0 CR-1694 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-195122)

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

**C3-195124 LS on new AVP in TS 29.212**

*Type: LS out For: Approval  
 to CT4  
 Source: Ericsson*

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

### 16.31 OpenAPI version updates

**C3-195034 Update of TS version\_Rel-16**

*Type: CR For: Agreement  
 29.519 v16.1.1 CR-0155 Cat: F (Rel-16)  
  
 Source: Huawei*

**Abstract:**

Update the TS version in externalDocs field to Policy Data and Application Data of Nudr\_DataRepository API.

**Discussion:**

There was some doubt over whether the new externalDocs versions were correct. This was checked off line.

**Decision:** The document was **revised to C3-195338**.

**C3-195338 Update of TS version\_Rel-16**

*Type: CR For: Agreement  
 29.519 v16.1.1 CR-0155 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-195034)

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

**C3-195072 Update of API version and TS version in OpenAPI file**

*Type: CR For: Agreement  
 29.122 v16.3.0 CR-0213 Cat: F (Rel-16)  
  
 Source: Huawei*

**Discussion:**

This CR would be approved by email after the meeting.

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

**C3-195073 Update of API version and TS version in OpenAPI file**

*Type: CR For: Agreement  
 29.522 v16.1.0 CR-0110 Cat: F (Rel-16)  
  
 Source: Huawei*

**Discussion:**

This CR could be approved by email after the meeting.

**Decision:** The document was **revised to C3-195368**.

**C3-195368 Update of API version and TS version in OpenAPI file**

*Type: CR For: Agreement  
 29.522 v16.1.0 CR-0110 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-195073)

**Discussion:**

The Chairman approved of the explit mention of the Release.

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

**C3-195075 OpenAPI version update of Rel-16 Nudr\_DataRepository API**

*Type: discussion For: Information  
 Source: Huawei*

**Discussion:**

It was believed that there were other CRs to include. CT4 needed to be informed. Therefore Huawei believed it needed to be approved during the meeting.

**Decision:** The document was **revised to C3-195366**.

**C3-195366 OpenAPI version update of Rel-16 Nudr\_DataRepository API**

*Type: discussion For: Information  
 Source: Huawei*

(Replaces C3-195075)

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

**C3-195111 Update of API version and TS version in OpenAPI file**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0385 Cat: F (Rel-16)  
  
 Source: Huawei*

**Abstract:**

The Npcf\_PolicyAuthorization Service API version incremented from value "1.1.0.alpha-3" to value "1.1.0.alpha-4".

The TS version number in the "description" field of the "externalDocs" object is changed to "16.3.0".

**Decision:** The document was **revised to C3-195367**.

**C3-195367 Update of API version and TS version in OpenAPI file**

*Type: CR For: Agreement  
 29.512 v16.2.0 CR-0385 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-195111)

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

**C3-195344 Update of API version and TS version in OpenAPI file**

*Type: CR For: Agreement  
 29.514 v16.2.0 CR-0161 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**C3-195345 Update of API version and TS version in OpenAPI file**

*Type: CR For: Agreement  
 29.525 v16.1.0 CR-0069 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

The the Npcf\_UEPolicyControl API version is incremented from value "1.1.0.alpha-2" to value "1.1.0.alpha-3".

The TS version number in the "description" field of the "externalDocs" object is changed to "16.2.0".

**Discussion:**

Ericsson had checked the CRs and the list was correct.

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

**C3-195349 Update of API version and TS version in OpenAPI file**

*Type: CR For: Agreement  
 29.525 v16.1.0 CR-0070 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

(Withdrawn, duplicate of '5345)

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

**C3-195346 Update of API version and TS version in OpenAPI file**

*Type: CR For: Agreement  
 29.521 v16.1.0 CR-0054 Cat: F (Rel-16)  
  
 Source: China Mobile*

**Discussion:**

Email agreement, see details in C3-195351.

**ACTION: To make available.  
 (action on: Nokia / due by: 2019-11-20)**

**ACTION: To review.  
 (action on: All delegates / due by: 2019-11-22)**

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

**C3-195347 Update of API version and TS version in OpenAPI file**

*Type: CR For: Agreement  
 29.520 v16.1.0 CR-0107 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

(Wrong document uploaded)

**Decision:** The document was **revised to C3-195385**.

**C3-195385 Update of API version and TS version in OpenAPI file**

*Type: CR For: Agreement  
 29.520 v16.1.0 CR-0107 rev 1 Cat: F (Rel-16)  
  
 Source: China Mobile*

(Replaces C3-195347)

**Discussion:**

Email agreement, see details in C3-195351.

**ACTION: To make available.  
 (action on: China Mobile / due by: 2019-11-20)**

**ACTION: To review.  
 (action on: All delegates / due by: 2019-11-22)**

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

**C3-195348 Update of API version and TS version in OpenAPI file**

*Type: CR For: Agreement  
 29.122 v16.3.0 CR-0218 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to C3-195398**.

**C3-195398 Update of API version and TS version in OpenAPI file**

*Type: CR For: Agreement  
 29.122 v16.3.0 CR-0218 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces C3-195348)

**Discussion:**

Effectively, this CR was superseded by that in C3-195398.

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

**C3-195350 Update of API version and TS version in OpenAPI file**

*Type: CR For: Agreement  
 29.507 v16.1.0 CR-0096 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

The Npcf\_AMPolicyControl API version is incremented from value "1.1.0.alpha-2" to value "1.1.0.alpha-3".

The TS version number in the "description" field of the "externalDocs" object is changed to "16.2.0".

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

**C3-195351 Update of API version and TS version in OpenAPI file**

*Type: CR For: Agreement  
 29.222 v16.0.0 CR-0121 Cat: F (Rel-16)  
  
 Source: Samsung*

**Discussion:**

The CR would be proveded for email approval and would include all the API changes stemming from this meeting. To be available by Wednesday 20 Nov, comments by Friday 12h CET.

**ACTION: To make available.  
 (action on: Samsung / due by: 2019-11-20)**

**ACTION: To review.  
 (action on: All delegates / due by: 2019-11-22)**

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

**C3-195360 Update of API version and TS version in OpenAPI file**

*Type: CR For: Agreement  
 29.508 v16.1.0 CR-0064 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

The Nsmf\_EventExposure API version is incremented from value "1.1.0.alpha-2" to value "1.1.0.alpha-3".

The TS version number in the "description" field of the "externalDocs" object is changed to "16.2.0".

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

**C3-195361 Update of API version and TS version in OpenAPI file**

*Type: CR For: Agreement  
 29.554 v16.1.0 CR-0037 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

## 17 Work Organisation

### 17.1 Work Plan Review

**C3-195009 Status of CT3 Work Items**

*Type: Work Plan For: Information  
 Source: CT3 chairman*

**Abstract:**

Status at start of meeting

**Discussion:**

The Chairman needed to add 5G SRVCC to the list of Wis addressed by CT3. That WI is under the control of CT4.

**Decision:** The document was **revised to C3-195433**.

**C3-195433 Status of CT3 Work Items**

*Type: Work Plan For: Information  
 Source: CT3 chairman*

(Replaces C3-195009)

**Abstract:**

Status at end of meeting

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

**C3-195012 WI status report from MCC**

*Type: Work Plan For: Information  
 Source: MCC*

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

### 17.2 Specification Review

### 17.3 Next meetings, allocation of hosts

### 17.4 Calendar

**C3-195013 Meeting Calendar**

*Type: other For: Information  
 Source: MCC*

**Discussion:**

The Chairman wondered if there was thought to be a need for an ad hoc in July 2020. That meeting would address Rel-17. The Secretary urged that ad hocs should preferably be held at or close to ETSI HQ to be assured of MCC support.

Huawei believed it would be good to retain this meeting and cancel the August "ordinary" meeting since this was in the US, which was difficult for some Chinese delegates. But this was not acceptable.

There was no strong support for retaining the July ad hoc. A firm decision would be made in February 2020.

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

## 18 Joint Sessions

**C3-195048 Increasing the maximum MDBV value**

*Type: discussion For: Information  
 Source: Qualcomm Incorporated / Lena*

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

**C3-195049 CT impacts of support for NR accessing through unlicensed bands (NR-U) in 5GS**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated / Lena*

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

**C3-195050 Adding support for NR and E-UTRA accessing through unlicensed bands**

*Type: discussion For: Information  
 Source: Qualcomm Incorporated / Lena*

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

**C3-195215 Fourth field of API versions**

*Type: discussion For: Discussion  
 Source: Ericsson, Verizon, Nokia, Nokia Shanghai Bell*

**Abstract:**

CR 0068 on 29.501 in C4-195066. Release 16 mirror CR not cloned to CT3, available in C4-195067.

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

**C3-195217 DNN Network Identifier and Operator Identifier**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

CR 0161 on 29.571 in C4-195254.

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

**C3-195218 DNN Network Identifier and Operator Identifier**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

CR 0161 on 29.571 in C4-195254.

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

**C3-195219 Discussion on DNN**

*Type: discussion For: Agreement  
 Source: Huawei*

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

**C3-195220 CR 29.571 Definition of Dnn**

*Type: discussion For: Agreement  
 Source: Huawei*

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

## 19 Summary of results

The Chairman's notes recording her remarks and the document status at the end of the meeting were in document C3-195008.

## 20 Any other business

## 21 Closing of the meeting

The Chairman thanked the delegates for their hard work and wished them a safe journey home.

## Annex A: List of contribution documents

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Decision | Replaces | Replaced by |
| C3-195000 | Draft Agenda for the CT3#107 Meeting | CT3 chairman | approved |  |  |
| C3-195001 | Proposed Schedule for CT3#107 | CT3 chairman | noted |  |  |
| C3-195002 | Allocation of documents to agenda items (at Deadline) | CT3 chairman | noted |  |  |
| C3-195003 | Allocation of documents to agenda items (Start of Day 1) | CT3 chairman | noted |  |  |
| C3-195004 | Allocation of documents to agenda items (Start of Day 2) | CT3 chairman | noted |  |  |
| C3-195005 | Allocation of documents to agenda items (Start of Day 3) | CT3 chairman | noted |  |  |
| C3-195006 | Allocation of documents to agenda items (Start of Day 4) | CT3 chairman | noted |  |  |
| C3-195007 | Allocation of documents to agenda items (Start of Day 5) | CT3 chairman | noted |  |  |
| C3-195008 | Allocation of documents to agenda items (End of Day 5) | CT3 chairman | noted |  |  |
| C3-195009 | Status of CT3 Work Items | CT3 chairman | revised |  | C3-195433 |
| C3-195010 | reserved | CT3 chairman | withdrawn |  |  |
| C3-195011 | Minutes of CT3#106 | MCC | approved |  |  |
| C3-195012 | WI status report from MCC | MCC | noted |  |  |
| C3-195013 | Meeting Calendar | MCC | noted |  |  |
| C3-195014 | Interworking of Local Number Format in From Header Field | Deutsche Telekom / Michael | revised |  | C3-195294 |
| C3-195015 | Partial update of IPTVConfiguration API | Huawei | agreed | C3-194406 |  |
| C3-195016 | Work plan for eNA | Huawei | noted |  |  |
| C3-195017 | Enhance the Nnwdaf\_EventsSubscription service to support User Data Congestion | Huawei | revised | C3-194440 | C3-195225 |
| C3-195018 | AnalyticsEventNotif and AnalyticsExposureSubsc Data Types | Huawei | agreed | C3-194442 |  |
| C3-195019 | Inclusion of QoS requirements and thresholds for QoS sustainability | Huawei | agreed | C3-194461 |  |
| C3-195020 | Reference correction to BdtReferenceId | Huawei | agreed |  |  |
| C3-195021 | OpenAPI file for AnalyticsExposure API | Huawei | agreed |  |  |
| C3-195022 | OpenAPI file Update for Nnwdaf\_EventsSubscription API | Huawei | revised |  | C3-195237 |
| C3-195023 | OpenAPI file Update for Nnwdaf\_AnalyticsInfo API | Huawei | agreed |  |  |
| C3-195024 | Slice identification for all analytics types | Huawei | revised |  | C3-195363 |
| C3-195025 | Corrections on 5GLANParameterProvision API | Huawei | revised |  | C3-195257 |
| C3-195026 | Corrections on Naf\_EventExposure Service | Huawei | revised |  | C3-195226 |
| C3-195027 | Transport of TSN information and containers between SMF and PCF | Nokia, Nokia Shanghai Bell | revised |  | C3-195258 |
| C3-195028 | Transport of TSC assistance information between SMF and PCF | Nokia, Nokia Shanghai Bell | revised |  | C3-195259 |
| C3-195029 | Transport of TSN information and containers between PCF and AF | Nokia, Nokia Shanghai Bell | revised |  | C3-195296 |
| C3-195030 | Transport of TSC assistance information between PCF and AF | Nokia, Nokia Shanghai Bell | revised |  | C3-195297 |
| C3-195031 | CT aspects of Cellular IoT support and evolution for the 5G System | QUALCOMM Europe Inc. - Italy | revised |  | C3-195372 |
| C3-195032 | OpenAPI file Update for Naf\_EventExposure API | Huawei | revised |  | C3-195238 |
| C3-195033 | Update of TS version\_Rel-15 | Huawei | revised |  | C3-195333 |
| C3-195034 | Update of TS version\_Rel-16 | Huawei | revised |  | C3-195338 |
| C3-195035 | CHF addresses as apiRoot in the form of an FQDN | Nokia, Nokia Shanghai Bell | agreed |  |  |
| C3-195036 | CHF addresses as apiRoot in the form of an FQDN | Nokia, Nokia Shanghai Bell | agreed |  |  |
| C3-195037 | Coverage and Handover Enhancements for Media (CHEM) | Qualcomm UK Ltd | revised | C3-194465 | C3-195311 |
| C3-195038 | Coverage and Handover Enhancements for Media (CHEM) | Qualcomm UK Ltd | revised | C3-194466 | C3-195312 |
| C3-195039 | Coverage and Handover Enhancements for Media (CHEM) | Qualcomm UK Ltd | revised | C3-194467 | C3-195313 |
| C3-195040 | Discussion for 5G\_SRVCC WID update | China Unicom, ZTE | noted |  |  |
| C3-195041 | Revised WID on CT aspect of single radio voice continuity from 5GS to 3G | China Unicom, ZTE | revised | CP-191062 | C3-195223 |
| C3-195042 | Indication of PS to CS Handover for 5G SRVCC from SMF to PCF | ZTE | revised |  | C3-195288 |
| C3-195043 | Indication of PS to CS Handover for 5G SRVCC from PCF to AF | ZTE | revised |  | C3-195221 |
| C3-195044 | Coverage and Handover Enhancements for Media (CHEM) | Qualcomm India Pvt Ltd | revised |  | C3-195314 |
| C3-195045 | Coverage and Handover Enhancements for Media (CHEM) | Qualcomm India Pvt Ltd | revised |  | C3-195315 |
| C3-195046 | Coverage and Handover Enhancements for Media (CHEM) | Qualcomm India Pvt Ltd | revised |  | C3-195316 |
| C3-195047 | Increasing the maximum MDBV value | Qualcomm Incorporated / Lena | agreed | C3-194285 |  |
| C3-195048 | Increasing the maximum MDBV value | Qualcomm Incorporated / Lena | noted |  |  |
| C3-195049 | CT impacts of support for NR accessing through unlicensed bands (NR-U) in 5GS | Qualcomm Incorporated / Lena | noted |  |  |
| C3-195050 | Adding support for NR and E-UTRA accessing through unlicensed bands | Qualcomm Incorporated / Lena | noted |  |  |
| C3-195051 | RACS CT work plan | Qualcomm Incorporated / Lena | noted |  |  |
| C3-195052 | MCS Priority Level | FirstNet | revised |  | C3-195339 |
| C3-195053 | MCS Priority Level | FirstNet | revised |  | C3-195340 |
| C3-195054 | MCS Priority Level | FirstNet | revised |  | C3-195341 |
| C3-195055 | MCS Priority Level | FirstNet | revised |  | C3-195342 |
| C3-195056 | Update to NIDD APIs for RDS Dynamic Port Management | Intel | revised | C3-193173 | C3-195317 |
| C3-195057 | P-CSCF restoration in 5GS | Ericsson | revised |  | C3-195292 |
| C3-195058 | P-CSCF restoration in 5GS | Ericsson | revised |  | C3-195293 |
| C3-195059 | Additional-Identity header in REFER request | Ericsson | agreed |  |  |
| C3-195060 | Definition of BdtData in OpenAPI | Ericsson | agreed |  |  |
| C3-195061 | Definition of BdtData in OpenAPI | Ericsson | agreed |  |  |
| C3-195062 | Usage of BdtReferenceId data type | Ericsson | agreed |  |  |
| C3-195063 | Removal of non-breaking spaces, TABs and $ref descriptions | Ericsson | agreed |  |  |
| C3-195064 | Removal of TABs from OpenAPI file | Ericsson | agreed |  |  |
| C3-195065 | BDT renegotiation upon the network conditions change | Ericsson | postponed |  |  |
| C3-195066 | Modification of "IndividualBdtData" resource | Ericsson | revised |  | C3-195227 |
| C3-195067 | BDT renegotiation upon the network conditions change | Ericsson | revised |  | C3-195228 |
| C3-195068 | Definition of EventsSubs in OpenAPI | Ericsson | approved |  |  |
| C3-195069 | Definition of AfResultInfo in OpenAPI | Ericsson | agreed |  |  |
| C3-195070 | Retrieval of BDT policy data for a set of BDT reference identifiers | Ericsson | agreed | C3-194329 |  |
| C3-195071 | Revised WID on CT aspects on wireless and wireline convergence for the 5G system architecture | Huawei, HiSilicon /Christian | revised | CP-192079 | C3-195387 |
| C3-195072 | Update of API version and TS version in OpenAPI file | Huawei | agreed |  |  |
| C3-195073 | Update of API version and TS version in OpenAPI file | Huawei | revised |  | C3-195368 |
| C3-195074 | OpenAPI version update of Rel-15 Nudr\_DataRepository API | Huawei | revised |  | C3-195334 |
| C3-195075 | OpenAPI version update of Rel-16 Nudr\_DataRepository API | Huawei | revised |  | C3-195366 |
| C3-195076 | Request of SM Policy Association Termination during the Update procedure | Oracle Corporation | not pursued |  |  |
| C3-195077 | Request of SM Policy Association Termination during the Update procedure | Oracle Corporation | revised |  | C3-195304 |
| C3-195078 | correction to PLMN change trigger | ZTE | revised |  | C3-195299 |
| C3-195079 | store BDT reference ID in SMPolicyData | ZTE | revised |  | C3-195251 |
| C3-195080 | the behavior of V-PCF for 202 ATTEMPTING response | ZTE | revised |  | C3-195329 |
| C3-195081 | the behavior of V-PCF for 202 ATTEMPTING response | ZTE | revised |  | C3-195330 |
| C3-195082 | include S-NSSAI and DNN in Application Data for xBDT | ZTE | revised |  | C3-195254 |
| C3-195083 | remove 204 response on PUT request for AppliedBDTPolicyData | ZTE | agreed |  |  |
| C3-195084 | make the storage of traffic influence request in the UDR mandatory | ZTE | revised |  | C3-195325 |
| C3-195085 | make the storage of traffic influence request in the UDR mandatory | ZTE | revised |  | C3-195326 |
| C3-195086 | misssing ASP id in AF request for xBDT | ZTE | revised |  | C3-195253 |
| C3-195087 | remove EN related to BDT reference ID storage in SMPolicyData | ZTE | revised |  | C3-195255 |
| C3-195088 | Correction for setting condition of the contact hedaer field | NTT corporation | revised |  | C3-195295 |
| C3-195089 | Correction to delete a PCC rule requested by the UE | Huawei | agreed |  |  |
| C3-195090 | Correction to delete a PCC rule requested by the UE | Huawei | agreed |  |  |
| C3-195091 | Termination action | Huawei | agreed |  |  |
| C3-195092 | Termination action | Huawei | agreed |  |  |
| C3-195093 | New cause value of association termination for xBDT | Huawei | revised | C3-194415 | C3-195256 |
| C3-195094 | QoS Handling for V2X Communication | Huawei | revised | C3-194468 | C3-195300 |
| C3-195095 | QoS Handling for V2X Communication | Huawei | revised | C3-194460 | C3-195301 |
| C3-195096 | AMF change in the HR scenario | Huawei | revised |  | C3-195284 |
| C3-195097 | Same PCF selection for the same UE ID, S-NSSAI and DNN combination | Huawei | revised |  | C3-195286 |
| C3-195098 | Same PCF selection for the same UE ID, S-NSSAI and DNN combination | Huawei | revised |  | C3-195285 |
| C3-195099 | PFD partial failure notification | Huawei | revised | C3-194374 | C3-195318 |
| C3-195100 | PFD partial failure notification | Huawei | revised | C3-194421 | C3-195319 |
| C3-195101 | OpenAPI file corrections | Huawei | revised |  | C3-195320 |
| C3-195102 | Reception Report | Huawei | agreed |  |  |
| C3-195103 | Resource deletion | Huawei | revised |  | C3-195321 |
| C3-195104 | Supported Features | Huawei | revised |  | C3-195322 |
| C3-195105 | VAE\_V2X\_Application\_Requirement service | Huawei | revised |  | C3-195323 |
| C3-195106 | VAE\_V2X\_Application\_Requirement OpenAPI file | Huawei | revised |  | C3-195324 |
| C3-195107 | VAE\_V2X\_Dynamic\_Group service | Huawei | postponed |  |  |
| C3-195108 | VAE\_V2X\_Dynamic\_Group OpenAPI file | Huawei | postponed |  |  |
| C3-195109 | 5G\_URLLC CT work plan | Huawei | noted |  |  |
| C3-195110 | Correction to the QoS monitoring Control | Huawei | revised |  | C3-195298 |
| C3-195111 | Update of API version and TS version in OpenAPI file | Huawei | revised |  | C3-195367 |
| C3-195112 | 5G CIoT work plan for CT3 | QUALCOMM Europe Inc. - Italy | noted |  |  |
| C3-195113 | Format for FEC framework configuration information in MB2 | ENENSYS, Ericsson | agreed | C3-190446 |  |
| C3-195114 | Format for FEC framework configuration information in xMB | ENENSYS, Ericsson | agreed | C3-190457 |  |
| C3-195115 | Format for FEC framework configuration information in xMB | ENENSYS, Ericsson | agreed |  |  |
| C3-195116 | Correct cardinality in traffic influence | Ericsson | agreed |  |  |
| C3-195117 | Correct cardinality in traffic influence | Ericsson | agreed |  |  |
| C3-195118 | Correct VLAN tag description | Ericsson | agreed |  |  |
| C3-195119 | Correct VLAN tag description | Ericsson | agreed |  |  |
| C3-195120 | Pseudo-CR on Clarify NEF southbound services | Ericsson | revised |  | C3-195274 |
| C3-195121 | Support query source verification in cascaded CAPIF discovery | Ericsson | revised |  | C3-195267 |
| C3-195122 | Correct the redirection server address to support dual stack UE | Ericsson | revised |  | C3-195343 |
| C3-195123 | Correct the redirection server address to support dual stack UE | Ericsson | agreed |  |  |
| C3-195124 | LS on new AVP in TS 29.212 | Ericsson | not pursued |  |  |
| C3-195125 | Correct application port | Ericsson | revised |  | C3-195276 |
| C3-195126 | Correct application port | Ericsson | revised |  | C3-195277 |
| C3-195127 | Correct transit failure code for UE suspension | Ericsson | agreed |  |  |
| C3-195128 | Correct transit failure code for UE suspension | Ericsson | agreed |  |  |
| C3-195129 | LS on transit failure code in TS 29.212 | Ericsson | approved |  |  |
| C3-195130 | Support API capability change based on API filter | Ericsson | revised |  | C3-195275 |
| C3-195131 | Pseudo-CR on Clarify target UE identity | Ericsson | revised |  | C3-195229 |
| C3-195132 | Internal Group id in notification | Ericsson | revised |  | C3-195230 |
| C3-195133 | Support updated BDT policy in notification | Ericsson | revised |  | C3-195231 |
| C3-195134 | Support updated BDT policy in notification | Ericsson | revised |  | C3-195232 |
| C3-195135 | Supported feature in API publish service | Ericsson | revised |  | C3-195373 |
| C3-195136 | URSP provisioning for xBDT | Huawei, ZTE | revised | C3-194290 | C3-195252 |
| C3-195137 | eCAPIF work plan | Samsung | noted |  |  |
| C3-195138 | Updates to Service Architecture and functional entities | Samsung | revised | C3-194358 | C3-195268 |
| C3-195139 | API invoker details update – Service Definition | Samsung | revised |  | C3-195269 |
| C3-195140 | API invoker details update – API Definition | Samsung | revised |  | C3-195270 |
| C3-195141 | API Provider Registration and Update – Service Definition | Samsung | revised |  | C3-195271 |
| C3-195142 | API Provider Registration and Update – API Definition | Samsung | revised |  | C3-195272 |
| C3-195143 | Support for 3rd party API provider domain | Samsung | revised |  | C3-195273 |
| C3-195144 | SEAL APIs work plan | Samsung | noted |  |  |
| C3-195145 | Correction to PolicyUpdate | Ericsson, ZTE | agreed |  |  |
| C3-195146 | Correction to PolicyUpdate | Ericsson, ZTE | agreed |  |  |
| C3-195147 | Correction on 307 error, 29.507 | Ericsson | revised |  | C3-195265 |
| C3-195148 | Correction on 307 error, 29.507 | Ericsson | revised |  | C3-195266 |
| C3-195149 | Correction on 307 error, 29.508 | Ericsson | revised |  | C3-195302 |
| C3-195150 | Correction on 307 error, 29.508 | Ericsson | revised |  | C3-195303 |
| C3-195151 | Correction on 307 error, 29.525 | Ericsson | revised |  | C3-195327 |
| C3-195152 | Correction on 307 error, 29.525 | Ericsson | revised |  | C3-195328 |
| C3-195153 | Correction of AF Charging Identifier data type | Ericsson | revised |  | C3-195305 |
| C3-195154 | Correction of AF Charging Identifier data type | Ericsson | revised |  | C3-195306 |
| C3-195155 | Corrections to several mistakes | Ericsson | agreed |  |  |
| C3-195156 | Corrections to several mistakes | Ericsson | agreed |  |  |
| C3-195157 | Group and Configuration management – API and Service operations | Samsung | agreed |  |  |
| C3-195158 | Clarification of PEI format, TS 29.525 | Ericsson, CableLabs | revised |  | C3-195239 |
| C3-195159 | Wireline location information | Ericsson | revised |  | C3-195240 |
| C3-195160 | Support of simultaneous registration in multiple accesses | Ericsson | revised |  | C3-195241 |
| C3-195161 | Support of S-NSSAI for non-3GPP access | Ericsson | revised |  | C3-195242 |
| C3-195162 | Support of 5WWC, Service Area Restrictions | Ericsson, CableLabs | revised |  | C3-195243 |
| C3-195163 | Clarification of PEI format, 29.507 | Ericsson, CableLabs | revised |  | C3-195244 |
| C3-195164 | HFC node Id in Location information | Ericsson | revised |  | C3-195245 |
| C3-195165 | Report of Wireline Location Information | Ericsson, CableLabs | revised |  | C3-195246 |
| C3-195166 | Support of 5WWC, supported PEI format | Ericsson, CableLabs | revised |  | C3-195247 |
| C3-195167 | Support of Trusted non-3GPP accesses | Ericsson | revised |  | C3-195248 |
| C3-195168 | Clarification of PEI format, TS 29.512 | Ericsson, CableLabs | revised |  | C3-195249 |
| C3-195169 | HFC node Id in Location information, TS 29.512 | Ericsson | revised |  | C3-195250 |
| C3-195170 | Group management – Service definition | Samsung | revised |  | C3-195260 |
| C3-195171 | Group management – API definition | Samsung | revised |  | C3-195261 |
| C3-195172 | Configuration management – Service definition | Samsung | revised |  | C3-195262 |
| C3-195173 | Reply LS to LS on maximum value of MDBV | CT4 | noted |  |  |
| C3-195174 | LS on NID structure and length | CT4 | noted |  |  |
| C3-195175 | LS on Support of Network Address Translation in the User Plane function | CT4 | noted |  |  |
| C3-195176 | LS on Enhanced coverage restriction | CT4 | noted |  |  |
| C3-195177 | Reply LS on Nudr\_DM evolution | CT4 | noted |  |  |
| C3-195178 | Reply LS on "SMF Event Exposure enhancement for service experience" | SA2 | postponed |  |  |
| C3-195179 | Reply LS on N6 routing information in AF acknowledgement | SA2 | postponed |  |  |
| C3-195180 | Reply LS on Nsmf\_EventExposure and Nnef\_EventExposure service handling of the "Downlink data delivery status" and "Availability after DDN Failure" events. | SA2 | postponed |  |  |
| C3-195181 | Reply LS on LS on maximum value of MDBV | SA2 | noted |  |  |
| C3-195182 | Reply LS on AUSF role in slice specific authentication | SA2 | noted |  |  |
| C3-195183 | LS on QoS mapping procedure | SA4 | postponed |  |  |
| C3-195184 | Configuration management – API definition | Samsung | revised |  | C3-195263 |
| C3-195185 | Common design aspects - Data types | Samsung | approved |  |  |
| C3-195186 | Using Common API Framework | Samsung | revised |  | C3-195264 |
| C3-195187 | Coversheet for Information | Samsung | revised |  | C3-195443 |
| C3-195188 | Subscription and notification to data changes related to a subset of resource data, Policy Data set | Ericsson | postponed |  |  |
| C3-195189 | Feature Negotiation for OperatorSpecificData resource | Ericsson | agreed |  |  |
| C3-195190 | Feature Negotiation for Influence Data resource | Ericsson | agreed |  |  |
| C3-195191 | Interworking of Local Number Format in Generic Number | Deutsche Telekom | agreed | C3-194401 |  |
| C3-195192 | Support of BDT reference Id within Session Management data | Ericsson | agreed | C3-194416 |  |
| C3-195193 | Correction to SUPI attribute | Samsung | postponed |  |  |
| C3-195194 | Correction to SUPI attribute | Samsung | postponed |  |  |
| C3-195195 | Reply LS on NID structure and length | SA2 | noted |  |  |
| C3-195196 | NF Load analytics generalities | Orange | revised |  | C3-195233 |
| C3-195197 | Event Subscribe | China Mobile Communications Group Co.,Ltd. , Huawei | revised |  | C3-195234 |
| C3-195198 | Support of Abnormal behaviour | China Mobile Communications Group Co.,Ltd. , Huawei | revised |  | C3-195235 |
| C3-195199 | Patch Report to Nudr\_DataRepository API for Policy data | China Mobile Communications Group Co.,Ltd. , Huawei | withdrawn |  |  |
| C3-195200 | Adding Caller and Callee information | China Mobile Communications Group Co.,Ltd. | revised |  | C3-195290 |
| C3-195201 | Adding Caller and Callee information | China Mobile Communications Group Co.,Ltd. | revised |  | C3-195291 |
| C3-195202 | Support of UE communication | China Mobile Communications Group Co.,Ltd. , Huawei | revised |  | C3-195236 |
| C3-195203 | Correction of AF Charging Identifier data type | Ericsson | agreed |  |  |
| C3-195204 | P-CSCF restoration | Ericsson | revised |  | C3-195308 |
| C3-195205 | Support of Maximum Supported Bandwidth and Minimum Desired Bandwidth | Ericsson | agreed |  |  |
| C3-195206 | Support of the RAN-NAS Release Cause | Ericsson | agreed | C3-194277 |  |
| C3-195207 | QoS Monitoring for Service Data Flows | Ericsson, Cisco | agreed | C3-194430 |  |
| C3-195208 | QoS Parameter mapping at AF, N5 interface | Ericsson | revised |  | C3-195405 |
| C3-195209 | Skeleton for Annex B, Signalling Flows for IMS | Ericsson | revised |  | C3-195309 |
| C3-195210 | Add reference to TS 29.524 | Orange | revised |  | C3-195331 |
| C3-195211 | Correct the notificationDestination of ServiceSecurity object in yaml file | China Mobile Communications Group Co.,Ltd. | agreed |  | C3-195278 |
| C3-195212 | Correct the notificationDestination of ServiceSecurity object in yaml file | China Mobile Communications Group Co.,Ltd. | revised |  | C3-195279 |
| C3-195213 | Align the API name of Initiate\_Authentication | China Mobile Communications Group Co.,Ltd. | revised |  | C3-195280 |
| C3-195214 | Align the API name of Initiate\_Authentication | China Mobile Communications Group Co.,Ltd. | revised |  | C3-195281 |
| C3-195215 | Fourth field of API versions | Ericsson, Verizon, Nokia, Nokia Shanghai Bell | noted |  |  |
| C3-195216 | Serving 4G only UEs by SMF+PGW-C | Vodafone Romania S.A. | revised | C3-194425 | C3-195287 |
| C3-195217 | DNN Network Identifier and Operator Identifier | Ericsson | withdrawn |  |  |
| C3-195218 | DNN Network Identifier and Operator Identifier | Ericsson | noted |  |  |
| C3-195219 | Discussion on DNN | Huawei | noted |  |  |
| C3-195220 | CR 29.571 Definition of Dnn | Huawei | noted |  |  |
| C3-195221 | Indication of PS to CS Handover for 5G SRVCC from PCF to AF | ZTE | revised | C3-195043 | C3-195289 |
| C3-195222 | SMF callback URI update | Huawei | postponed |  |  |
| C3-195223 | Revised WID on CT aspect of single radio voice continuity from 5GS to 3G | China Unicom, ZTE | revised | C3-195041 | C3-195415 |
| C3-195224 | LS | CT3 (Huawei) | withdrawn | - | - |
| C3-195225 | Enhance the Nnwdaf\_EventsSubscription service to support User Data Congestion | Huawei | agreed | C3-195017 | - |
| C3-195226 | Corrections on Naf\_EventExposure Service | Huawei | agreed | C3-195026 | - |
| C3-195227 | Modification of "IndividualBdtData" resource | Ericsson | postponed | C3-195066 | - |
| C3-195228 | BDT renegotiation upon the network conditions change | Ericsson | postponed | C3-195067 | - |
| C3-195229 | Pseudo-CR on Clarify target UE identity | Ericsson | not pursued | C3-195131 | - |
| C3-195230 | Internal Group id in notification | Ericsson | not pursued | C3-195132 | - |
| C3-195231 | openAPI correction for ExNotification | Ericsson | agreed | C3-195133 | - |
| C3-195232 | openAPI correction for ExNotification | Ericsson | agreed | C3-195134 | - |
| C3-195233 | NF Load analytics generalities | Orange | revised | C3-195196 | C3-195376 |
| C3-195234 | Event Subscribe | China Mobile Communications Group Co.,Ltd. , Huawei | agreed | C3-195197 | - |
| C3-195235 | Support of Abnormal behaviour | China Mobile Communications Group Co.,Ltd. , Huawei | agreed | C3-195198 | - |
| C3-195236 | Support of UE communication | China Mobile Communications Group Co.,Ltd. , Huawei | agreed | C3-195202 | - |
| C3-195237 | OpenAPI file Update for Nnwdaf\_EventsSubscription API | Huawei | agreed | C3-195022 | - |
| C3-195238 | OpenAPI file Update for Naf\_EventExposure API | Huawei | approved | C3-195032 | - |
| C3-195239 | Clarification of PEI format, TS 29.525 | Ericsson, CableLabs | agreed | C3-195158 | - |
| C3-195240 | Wireline location information | Ericsson | agreed | C3-195159 | - |
| C3-195241 | Support of simultaneous registration in multiple accesses | Ericsson | agreed | C3-195160 | - |
| C3-195242 | Support of S-NSSAI for non-3GPP access | Ericsson | revised | C3-195161 | C3-195380 |
| C3-195243 | Support of 5WWC, Service Area Restrictions | Ericsson, CableLabs | agreed | C3-195162 | - |
| C3-195244 | Clarification of PEI format, 29.507 | Ericsson, CableLabs | agreed | C3-195163 | - |
| C3-195245 | HFC node Id in Location information | Ericsson | agreed | C3-195164 | - |
| C3-195246 | Report of Wireline Location Information | Ericsson, CableLabs | agreed | C3-195165 | - |
| C3-195247 | Support of 5WWC, supported PEI format | Ericsson, CableLabs | agreed | C3-195166 | - |
| C3-195248 | Support of Trusted non-3GPP accesses | Ericsson | agreed | C3-195167 | - |
| C3-195249 | Clarification of PEI format, TS 29.512 | Ericsson, CableLabs | revised | C3-195168 | C3-195381 |
| C3-195250 | HFC node Id in Location information, TS 29.512 | Ericsson | agreed | C3-195169 | - |
| C3-195251 | store BDT reference ID in SMPolicyData | ZTE | agreed | C3-195079 | - |
| C3-195252 | URSP provisioning for xBDT | Huawei, ZTE | agreed | C3-195136 | - |
| C3-195253 | misssing required in ApplyingBdtPolicy API file | ZTE | agreed | C3-195086 | - |
| C3-195254 | include S-NSSAI and DNN in Application Data for xBDT | ZTE | agreed | C3-195082 | - |
| C3-195255 | remove EN related to BDT reference ID storage in SMPolicyData | ZTE | agreed | C3-195087 | - |
| C3-195256 | New cause value of association termination for xBDT | Huawei, Vodafone | revised | C3-195093 | C3-195392 |
| C3-195257 | Corrections on 5GLANParameterProvision API | Huawei | agreed | C3-195025 | - |
| C3-195258 | Transport of TSN information and containers between SMF and PCF | Nokia, Nokia Shanghai Bell, Verizon, Ericsson | revised | C3-195027 | C3-195377 |
| C3-195259 | Transport of TSC assistance information between SMF and PCF | Nokia, Nokia Shanghai Bell, Verizon, Ericsson | revised | C3-195028 | C3-195378 |
| C3-195260 | Group management – Service definition | Samsung | approved | C3-195170 | - |
| C3-195261 | Group management – API definition | Samsung | agreed | C3-195171 | C3-195441 |
| C3-195262 | Configuration management – Service definition | Samsung | approved | C3-195172 | - |
| C3-195263 | Configuration management – API definition | Samsung | agreed | C3-195184 | - |
| C3-195264 | Using Common API Framework | Samsung | approved | C3-195186 | - |
| C3-195265 | Correction on 307 error, 29.507 | Ericsson | agreed | C3-195147 | - |
| C3-195266 | Correction on 307 error, 29.507 | Ericsson | agreed | C3-195148 | - |
| C3-195267 | Support query source verification in cascaded CAPIF discovery | Ericsson | not pursued | C3-195121 | - |
| C3-195268 | Updates to Service Architecture and functional entities | Samsung | revised | C3-195138 | C3-195384 |
| C3-195269 | API invoker details update – Service Definition | Samsung | agreed | C3-195139 | - |
| C3-195270 | API invoker details update – API Definition | Samsung | agreed | C3-195140 | - |
| C3-195271 | API Provider Registration and Update – Service Definition | Samsung | agreed | C3-195141 | - |
| C3-195272 | API Provider Registration and Update – API Definition | Samsung | revised | C3-195142 | C3-195371 |
| C3-195273 | Support for 3rd party API provider domain | Samsung | agreed | C3-195143 | - |
| C3-195274 | Pseudo-CR on Clarify NEF southbound services | Ericsson | agreed | C3-195120 | - |
| C3-195275 | Support API capability change based on API filter | Ericsson | agreed | C3-195130 | - |
| C3-195276 | Correct application port | Ericsson | revised | C3-195125 | C3-195399 |
| C3-195277 | Correct application port | Ericsson | agreed | C3-195126 | - |
| C3-195278 | Correct the notificationDestination of ServiceSecurity object in yaml file | China Mobile Communications Group Co.,Ltd. | agreed | C3-195211 | - |
| C3-195279 | Correct the notificationDestination of ServiceSecurity object in yaml file | China Mobile Communications Group Co.,Ltd. | agreed | C3-195212 | - |
| C3-195280 | Align the API name of Initiate\_Authentication | China Mobile Communications Group Co.,Ltd. | agreed | C3-195213 | - |
| C3-195281 | Align the API name of Initiate\_Authentication | China Mobile Communications Group Co.,Ltd. | agreed | C3-195214 | - |
| C3-195282 | Correct SCEF aggregation | Ericsson | agreed | C3-194457 | - |
| C3-195283 | Correct SCEF aggregation | Ericsson | agreed | C3-194458 | - |
| C3-195284 | AMF change in the HR scenario | Huawei | agreed | C3-195096 | - |
| C3-195285 | Same PCF selection for the same UE ID, S-NSSAI and DNN combination | Huawei | revised | C3-195098 | C3-195389 |
| C3-195286 | Same PCF selection for the same UE ID, S-NSSAI and DNN combination | Huawei | revised | C3-195097 | C3-195388 |
| C3-195287 | Serving 4G only UEs by SMF+PGW-C | Huawei, Vodafone Romania S.A. | agreed | C3-195216 | - |
| C3-195288 | Indication of PS to CS Handover for 5G SRVCC from SMF to PCF | ZTE, Ericsson | revised | C3-195042 | C3-195401 |
| C3-195289 | Indication of PS to CS Handover for 5G SRVCC from PCF to AF | ZTE | revised | C3-195221 | C3-195394 |
| C3-195290 | Adding Caller and Callee information | China Mobile Communications Group Co.,Ltd. | revised | C3-195200 | C3-195390 |
| C3-195291 | Adding Caller and Callee information | China Mobile Communications Group Co.,Ltd. | revised | C3-195201 | C3-195391 |
| C3-195292 | P-CSCF restoration in 5GS | Ericsson | revised | C3-195057 | C3-195357 |
| C3-195293 | P-CSCF restoration in 5GS | Ericsson | revised | C3-195058 | C3-195358 |
| C3-195294 | Interworking of Local Number Format in From Header Field | Deutsche Telekom / Michael | agreed | C3-195014 | - |
| C3-195295 | Correction for setting condition of the Contact hedaer field | NTT corporation | not pursued | C3-195088 | - |
| C3-195296 | Transport of TSN information and containers between PCF and AF | Nokia, Nokia S|hanghai Bell, Verizon, Ericsson | revised | C3-195029 | C3-195379 |
| C3-195297 | Transport of TSC assistance information between PCF and AF | Nokia, Nokia Shanghai Bell, Verizon, Ericsson | agreed | C3-195030 | - |
| C3-195298 | Correction to the QoS monitoring Control | Huawei, Cisco | agreed | C3-195110 | - |
| C3-195299 | correction to PLMN change trigger | ZTE | agreed | C3-195078 | - |
| C3-195300 | QoS Handling for V2X Communication | Huawei | agreed | C3-195094 | - |
| C3-195301 | QoS Handling for V2X Communication | Huawei | agreed | C3-195095 | C3-195426 |
| C3-195302 | Correction on 307 error, 29.508 | Ericsson | agreed | C3-195149 | - |
| C3-195303 | Correction on 307 error, 29.508 | Ericsson | agreed | C3-195150 | - |
| C3-195304 | Request of SM Policy Association Termination during the Update procedure | Oracle Corporation | revised | C3-195077 | C3-195375 |
| C3-195305 | Correction of AF Charging Identifier data type | Ericsson | agreed | C3-195153 | - |
| C3-195306 | Correction of AF Charging Identifier data type | Ericsson | agreed | C3-195154 | - |
| C3-195307 | TS 29.549 v0.3.0 | Rapporteur (Narendranath Durga Tangudu) | agreed | - | - |
| C3-195308 | P-CSCF restoration | Ericsson | revised | C3-195204 | C3-195382 |
| C3-195309 | Skeleton for Annex B, Signalling Flows for IMS | Ericsson | revised | C3-195209 | C3-195383 |
| C3-195310 | TS 29.517 v0.5.0 | Rapporteur (Yali Yan) | agreed | - | - |
| C3-195311 | Coverage and Handover Enhancements for Media (CHEM) | Qualcomm UK Ltd | revised | C3-195037 | C3-195402 |
| C3-195312 | Coverage and Handover Enhancements for Media (CHEM) | Qualcomm UK Ltd | revised | C3-195038 | C3-195403 |
| C3-195313 | Coverage and Handover Enhancements for Media (CHEM) | Qualcomm UK Ltd | agreed | C3-195039 | - |
| C3-195314 | Coverage and Handover Enhancements for Media (CHEM) | Qualcomm India Pvt Ltd | revised | C3-195044 | C3-195444 |
| C3-195315 | Coverage and Handover Enhancements for Media (CHEM) | Qualcomm India Pvt Ltd | revised | C3-195045 | C3-195434 |
| C3-195316 | Coverage and Handover Enhancements for Media (CHEM) | Qualcomm India Pvt Ltd | revised | C3-195046 | C3-195436 |
| C3-195317 | Update to NIDD APIs for RDS Dynamic Port Management | Intel | revised | C3-195056 | C3-195425 |
| C3-195318 | PFD partial failure notification | Huawei | agreed | C3-195099 | - |
| C3-195319 | PFD partial failure notification | Huawei | agreed | C3-195100 | - |
| C3-195320 | OpenAPI file corrections | Huawei | agreed | C3-195101 | - |
| C3-195321 | Resource deletion | Huawei | agreed | C3-195103 | - |
| C3-195322 | Supported Features | Huawei | agreed | C3-195104 | - |
| C3-195323 | VAE\_V2X\_Application\_Requirement service | Huawei | agreed | C3-195105 | - |
| C3-195324 | VAE\_V2X\_Application\_Requirement OpenAPI file | Huawei | revised | C3-195106 | C3-195395 |
| C3-195325 | make the storage of traffic influence request in the UDR mandatory | ZTE | agreed | C3-195084 | - |
| C3-195326 | make the storage of traffic influence request in the UDR mandatory | ZTE | agreed | C3-195085 | - |
| C3-195327 | Correction on 307 error, 29.525 | Ericsson | agreed | C3-195151 | - |
| C3-195328 | Correction on 307 error, 29.525 | Ericsson | agreed | C3-195152 | - |
| C3-195329 | the behavior of V-PCF for 202 ATTEMPTING response | ZTE | postponed | C3-195080 | - |
| C3-195330 | the behavior of V-PCF for 202 ATTEMPTING response | ZTE | postponed | C3-195081 | - |
| C3-195331 | Add reference to TS 29.524 | Orange | agreed | C3-195210 | - |
| C3-195332 | LS out on missing cause code mapping | CT3 | revised | - | C3-195374 |
| C3-195333 | Update of TS version\_Rel-15 | Huawei | revised | C3-195033 | C3-195386 |
| C3-195334 | OpenAPI version update of Rel-15 Nudr\_DataRepository API | Huawei | noted | C3-195074 | - |
| C3-195335 | Update of OpenAPI version and TS version in externalDocs | Huawei | revised | - | C3-195414 |
| C3-195336 | Update of OpenAPI version and TS version in externalDocs | Ericsson | agreed | - | - |
| C3-195337 | Update of OpenAPI version and TS version in externalDocs | Huawei | revised | - | C3-195413 |
| C3-195338 | Update of TS version\_Rel-16 | Huawei | agreed | C3-195034 | - |
| C3-195339 | MCS Priority Level | FirstNet | agreed | C3-195052 | - |
| C3-195340 | MCS Priority Level | FirstNet | agreed | C3-195053 | - |
| C3-195341 | MCS Priority Level | FirstNet | revised | C3-195054 | C3-195369 |
| C3-195342 | MCS Priority Level | FirstNet | revised | C3-195055 | C3-195370 |
| C3-195343 | Correct the redirection server address to support dual stack UE | Ericsson | agreed | C3-195122 | - |
| C3-195344 | Update of API version and TS version in OpenAPI file | Ericsson | agreed | - | - |
| C3-195345 | Update of API version and TS version in OpenAPI file | Nokia, Nokia Shanghai Bell | agreed | - | - |
| C3-195346 | Update of API version and TS version in OpenAPI file | China Mobile | agreed | - | - |
| C3-195347 | Update of API version and TS version in OpenAPI file | Nokia, Nokia Shanghai Bell | revised | - | C3-195385 |
| C3-195348 | Update of API version and TS version in OpenAPI file | Nokia, Nokia Shanghai Bell | revised | - | C3-195398 |
| C3-195349 | Update of API version and TS version in OpenAPI file | Nokia, Nokia Shanghai Bell | withdrawn | - | - |
| C3-195350 | Update of API version and TS version in OpenAPI file | Nokia, Nokia Shanghai Bell | agreed | - | - |
| C3-195351 | Update of API version and TS version in OpenAPI file | Samsung | agreed | - | - |
| C3-195352 | TS 29.517 v0.5.0 | Huawei | withdrawn | - | - |
| C3-195353 | TS 29.591 v0.3.0 | Huawei | agreed | - | - |
| C3-195354 | Presentation sheet for TS 29.675 | Ericsson | agreed | - | - |
| C3-195355 | TS 29.675 v0.3.0 | Ericsson | agreed | - | - |
| C3-195356 | TS 29.486 v0.3.0 | Huawei | agreed | - | - |
| C3-195357 | P-CSCF restoration in 5GS | Ericsson | agreed | C3-195292 | - |
| C3-195358 | P-CSCF restoration in 5GS | Ericsson | agreed | C3-195293 | - |
| C3-195359 | Update of API version and TS version in OpenAPI file | Nokia, Nokia Shanghai Bell | agreed | - | - |
| C3-195360 | Update of API version and TS version in OpenAPI file | Nokia, Nokia Shanghai Bell | agreed | - | - |
| C3-195361 | Update of API version and TS version in OpenAPI file | Ericsson | agreed | - | - |
| C3-195362 | Update of API version and TS version in OpenAPI file | Huawei | revised | - | C3-195412 |
| C3-195363 | Slice identification for all analytics types | Huawei | agreed | C3-195024 | - |
| C3-195364 | Presentation sheet for 29.517 | Huawei | agreed | - | - |
| C3-195365 | Update of OpenAPI version and TS version in externalDocs field | Samsung | agreed | - | - |
| C3-195366 | OpenAPI version update of Rel-16 Nudr\_DataRepository API | Huawei | noted | C3-195075 | - |
| C3-195367 | Update of API version and TS version in OpenAPI file | Huawei | agreed | C3-195111 | - |
| C3-195368 | Update of API version and TS version in OpenAPI file | Huawei | agreed | C3-195073 | - |
| C3-195369 | MCS Priority Level | FirstNet | agreed | C3-195341 | - |
| C3-195370 | MCS Priority Level | FirstNet | agreed | C3-195342 | - |
| C3-195371 | API Provider Registration and Update – API Definition | Samsung | revised | C3-195272 | C3-195396 |
| C3-195372 | CT aspects of Cellular IoT support and evolution for the 5G System | QUALCOMM Europe Inc. - Italy | revised | C3-195031 | C3-195400 |
| C3-195373 | Supported feature in API publish service | Ericsson, Huawei | agreed | C3-195135 | - |
| C3-195374 | LS on missing cause code mapping | CT3 | approved | C3-195332 | - |
| C3-195375 | Request of SM Policy Association Termination during the Update procedure | Oracle Corporation | agreed | C3-195304 | - |
| C3-195376 | NF Load analytics generalities | Orange | agreed | C3-195233 | - |
| C3-195377 | Transport of TSN information and containers between SMF and PCF | Nokia, Nokia Shanghai Bell, Verizon, Ericsson | agreed | C3-195258 | - |
| C3-195378 | Transport of TSC assistance information between SMF and PCF | Nokia, Nokia Shanghai Bell, Verizon, Ericsson | agreed | C3-195259 | - |
| C3-195379 | Transport of TSN information and containers between PCF and AF | Nokia, Nokia S|hanghai Bell, Verizon, Ericsson | agreed | C3-195296 | - |
| C3-195380 | Support of S-NSSAI for non-3GPP access | Ericsson, CableLabs | agreed | C3-195242 | - |
| C3-195381 | Clarification of PEI format, TS 29.512 | Ericsson, CableLabs | agreed | C3-195249 | - |
| C3-195382 | P-CSCF restoration | Ericsson | agreed | C3-195308 | - |
| C3-195383 | Skeleton for Annex B, Signalling Flows for IMS | Ericsson | revised | C3-195309 | C3-195406 |
| C3-195384 | Updates to Service Architecture and functional entities | Samsung | agreed | C3-195268 | - |
| C3-195385 | Update of API version and TS version in OpenAPI file | China Mobile | agreed | C3-195347 | - |
| C3-195386 | Update of TS version\_Rel-15 | Huawei | agreed | C3-195333 | - |
| C3-195387 | Revised WID on CT aspects on wireless and wireline convergence for the 5G system architecture | Huawei, HiSilicon /Christian | endorsed | C3-195071 | - |
| C3-195388 | Same PCF selection for the same UE ID, S-NSSAI and DNN combination | Huawei | agreed | C3-195286 | - |
| C3-195389 | Same PCF selection for the same UE ID, S-NSSAI and DNN combination | Huawei | revised | C3-195285 | C3-195404 |
| C3-195390 | Adding Caller and Callee information | China Mobile Communications Group Co.,Ltd. | agreed | C3-195290 | - |
| C3-195391 | Adding Caller and Callee information | China Mobile Communications Group Co.,Ltd. | revised | C3-195291 | C3-195438 |
| C3-195392 | New cause value of association termination for xBDT | Huawei, Vodafone | agreed | C3-195256 | - |
| C3-195393 | Reply LS (S6-192023) on clarifications regarding SEAL services | SA6 | revised | - | C3-195397 |
| C3-195394 | Indication of PS to CS Handover for 5G SRVCC from PCF to AF | ZTE | revised | C3-195289 | C3-195410 |
| C3-195395 | VAE\_V2X\_Application\_Requirement OpenAPI file | Huawei | revised | C3-195324 | C3-195407 |
| C3-195396 | API Provider Registration and Update – API Definition | Samsung | agreed | C3-195371 | - |
| C3-195397 | Reply LS (S6-192023) on clarifications regarding SEAL services | SA6 | noted | C3-195393 | - |
| C3-195398 | Update of API version and TS version in OpenAPI file | Nokia, Nokia Shanghai Bell | not pursued | C3-195348 | - |
| C3-195399 | Correct application port | Ericsson | agreed | C3-195276 | - |
| C3-195400 | CT aspects of Cellular IoT support and evolution for the 5G System | QUALCOMM Europe Inc. - Italy | endorsed | C3-195372 | - |
| C3-195401 | Indication of PS to CS Handover for 5G SRVCC from SMF to PCF | ZTE, Ericsson | revised | C3-195288 | C3-195409 |
| C3-195402 | Coverage and Handover Enhancements for Media (CHEM) | Qualcomm UK Ltd | revised | C3-195311 | C3-195408 |
| C3-195403 | Coverage and Handover Enhancements for Media (CHEM) | Qualcomm UK Ltd | revised | C3-195312 | C3-195437 |
| C3-195404 | Same PCF selection for the same UE ID, S-NSSAI and DNN combination | Huawei | agreed | C3-195389 | - |
| C3-195405 | QoS Parameter mapping at AF, N5 interface | Ericsson | revised | C3-195208 | C3-195435 |
| C3-195406 | Skeleton for Annex B, Signalling Flows for IMS | Ericsson | revised | C3-195383 | C3-195411 |
| C3-195407 | VAE\_V2X\_Application\_Requirement OpenAPI file | Huawei | agreed | C3-195395 | - |
| C3-195408 | Coverage and Handover Enhancements for Media (CHEM) | Qualcomm UK Ltd | agreed | C3-195402 | - |
| C3-195409 | Indication of PS to CS Handover for 5G SRVCC from SMF to PCF | ZTE, Ericsson | agreed | C3-195401 | - |
| C3-195410 | Indication of PS to CS Handover for 5G SRVCC from PCF to AF | ZTE | agreed | C3-195394 | - |
| C3-195411 | Skeleton for Annex B, Signalling Flows for IMS | Ericsson | agreed | C3-195406 | - |
| C3-195412 | Update of API version and TS version in OpenAPI file | Huawei | agreed | C3-195362 | - |
| C3-195413 | Update of OpenAPI version and TS version in externalDocs | Huawei | agreed | C3-195337 | - |
| C3-195414 | Update of OpenAPI version and TS version in externalDocs | Huawei | revised | C3-195335 | C3-195424 |
| C3-195415 | Revised WID on CT aspect of single radio voice continuity from 5GS to 3G | China Unicom, ZTE | endorsed | C3-195223 | - |
| C3-195416 | LS New AVP in 29.214 | CT3 | revised | - | C3-195439 |
| C3-195417 | Corrrection for setting conditrion of the Contact header field | NTT | agreed | - | - |
| C3-195418 | Corrrection for setting conditrion of the Contact header field | NTT | revised | - | C3-195427 |
| C3-195419 | Corrrection for setting conditrion of the Contact header field | NTT | revised | - | C3-195428 |
| C3-195420 | Corrrection for setting conditrion of the Contact header field | NTT | revised | - | C3-195429 |
| C3-195421 | Corrrection for setting conditrion of the Contact header field | NTT | revised | - | C3-195430 |
| C3-195422 | Corrrection for setting conditrion of the Contact header field | NTT | revised | - | C3-195431 |
| C3-195423 | Corrrection for setting conditrion of the Contact header field | NTT | revised | - | C3-195432 |
| C3-195424 | Update of OpenAPI version and TS version in externalDocs | Huawei | agreed | C3-195414 | - |
| C3-195425 | Update to NIDD APIs for RDS Dynamic Port Management | Intel | revised | C3-195317 | C3-195448 |
| C3-195426 | QoS Handling for V2X Communication | Huawei | agreed | C3-195301 | - |
| C3-195427 | Corrrection for setting conditrion of the Contact header field | NTT | agreed | C3-195418 | - |
| C3-195428 | Corrrection for setting conditrion of the Contact header field | NTT | agreed | C3-195419 | - |
| C3-195429 | Corrrection for setting conditrion of the Contact header field | NTT | agreed | C3-195420 | - |
| C3-195430 | Corrrection for setting conditrion of the Contact header field | NTT | agreed | C3-195421 | - |
| C3-195431 | Corrrection for setting conditrion of the Contact header field | NTT | agreed | C3-195422 | - |
| C3-195432 | Corrrection for setting conditrion of the Contact header field | NTT | agreed | C3-195423 | - |
| C3-195433 | Status of CT3 Work Items | CT3 chairman | noted | C3-195009 | - |
| C3-195434 | Coverage and Handover Enhancements for Media (CHEM) | Qualcomm India Pvt Ltd | agreed | C3-195315 | - |
| C3-195435 | QoS Parameter mapping at AF, N5 interface | Ericsson, PerspectaLabs, Qualcomm Incorporated | agreed | C3-195405 | - |
| C3-195436 | Coverage and Handover Enhancements for Media (CHEM) | Qualcomm India Pvt Ltd | agreed | C3-195316 | - |
| C3-195437 | Coverage and Handover Enhancements for Media (CHEM) | Qualcomm UK Ltd | agreed | C3-195403 | - |
| C3-195438 | Adding Caller and Callee information | China Mobile Communications Group Co.,Ltd. | revised | C3-195391 | C3-195442 |
| C3-195439 | LS New AVP in 29.214 | CT3 | revised | C3-195416 | C3-195440 |
| C3-195440 | LS New AVP in 29.214 | CT3 | approved | C3-195439 | - |
| C3-195441 | Group management – API definition | Samsung | agreed | C3-195261 | - |
| C3-195442 | Adding Caller and Callee information | China Mobile Communications Group Co.,Ltd. | revised | C3-195438 | C3-195445 |
| C3-195443 | Presentation of TS 29.549 for information:  Service Enabler Architecture Layer for Verticals (SEAL);Application Programming Interface (API) specification [29.549] | Samsung | agreed | C3-195187 | - |
| C3-195444 | Coverage and Handover Enhancements for Media (CHEM) | Qualcomm India Pvt Ltd | revised | C3-195314 | C3-195446 |
| C3-195445 | Adding Caller and Callee information | China Mobile Communications Group Co.,Ltd. | agreed | C3-195442 | - |
| C3-195446 | Coverage and Handover Enhancements for Media (CHEM) | Qualcomm India Pvt Ltd | revised | C3-195444 | C3-195447 |
| C3-195447 | Coverage and Handover Enhancements for Media (CHEM) | Qualcomm India Pvt Ltd | agreed | C3-195446 | - |
| C3-195448 | Update to NIDD APIs for RDS Dynamic Port Management | Intel | agreed | C3-195425 | - |

## Annex B: List of change requests

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Spec | CR | Rev | Rel | Cat | WI | Decision |
| C3-195114 | Format for FEC framework configuration information in xMB | ENENSYS, Ericsson | 29.116 | 0023 | 3 | Rel-15 | F | TEI15, AE\_enTV-CT | agreed |
| C3-195115 | Format for FEC framework configuration information in xMB | ENENSYS, Ericsson | 29.116 | 0041 | - | Rel-16 | A | TEI15, AE\_enTV-CT | agreed |
| C3-195056 | Update to NIDD APIs for RDS Dynamic Port Management | Intel | 29.122 | 0158 | 6 | Rel-16 | B | CIoT\_Ext, TEI16 | revised |
| C3-195317 | Update to NIDD APIs for RDS Dynamic Port Management | Intel | 29.122 | 0158 | 7 | Rel-16 | B | CIoT\_Ext, TEI16 | revised |
| C3-195425 | Update to NIDD APIs for RDS Dynamic Port Management | Intel | 29.122 | 0158 | 8 | Rel-16 | B | CIoT\_Ext, TEI16 | revised |
| C3-195448 | Update to NIDD APIs for RDS Dynamic Port Management | Intel | 29.122 | 0158 | 9 | Rel-16 | B | CIoT\_Ext, TEI16 | agreed |
| C3-195282 | Correct SCEF aggregation | Ericsson | 29.122 | 0207 | 4 | Rel-15 | F | NAPS-CT | agreed |
| C3-195283 | Correct SCEF aggregation | Ericsson | 29.122 | 0208 | 4 | Rel-16 | A | NAPS-CT | agreed |
| C3-195099 | PFD partial failure notification | Huawei | 29.122 | 0212 | 2 | Rel-16 | B | TEI16, SDCI-CT | revised |
| C3-195318 | PFD partial failure notification | Huawei | 29.122 | 0212 | 3 | Rel-16 | B | TEI16, SDCI-CT | agreed |
| C3-195072 | Update of API version and TS version in OpenAPI file | Huawei | 29.122 | 0213 | - | Rel-16 | F | TEI16 | agreed |
| C3-195125 | Correct application port | Ericsson | 29.122 | 0214 | - | Rel-15 | F | NAPS-CT | revised |
| C3-195276 | Correct application port | Ericsson | 29.122 | 0214 | 1 | Rel-15 | F | NAPS-CT | revised |
| C3-195399 | Correct application port | Ericsson | 29.122 | 0214 | 2 | Rel-15 | F | NAPS-CT | agreed |
| C3-195126 | Correct application port | Ericsson | 29.122 | 0215 | - | Rel-16 | A | NAPS-CT | revised |
| C3-195277 | Correct application port | Ericsson | 29.122 | 0215 | 1 | Rel-16 | A | NAPS-CT | agreed |
| C3-195130 | Support API capability change based on API filter | Ericsson | 29.122 | 0216 | - | Rel-16 | B | 5G\_CIoT | revised |
| C3-195275 | Support API capability change based on API filter | Ericsson | 29.122 | 0216 | 1 | Rel-16 | B | 5G\_CIoT | agreed |
| C3-195133 | Support updated BDT policy in notification | Ericsson | 29.122 | 0217 | - | Rel-16 | B | eNA | revised |
| C3-195231 | openAPI correction for ExNotification | Ericsson | 29.122 | 0217 | 1 | Rel-16 | F | eNA | agreed |
| C3-195348 | Update of API version and TS version in OpenAPI file | Nokia, Nokia Shanghai Bell | 29.122 | 0218 | - | Rel-16 | F | TEI16 | revised |
| C3-195398 | Update of API version and TS version in OpenAPI file | Nokia, Nokia Shanghai Bell | 29.122 | 0218 | 1 | Rel-16 | F | TEI16 | not pursued |
| C3-195362 | Update of API version and TS version in OpenAPI file | Huawei | 29.122 | 0219 | - | Rel-15 | F | TEI15 | revised |
| C3-195412 | Update of API version and TS version in OpenAPI file | Huawei | 29.122 | 0219 | 1 | Rel-15 | F | NAPS-CT | agreed |
| C3-195191 | Interworking of Local Number Format in Generic Number | Deutsche Telekom | 29.163 | 1070 | 4 | Rel-16 | B | TEI16 | agreed |
| C3-195014 | Interworking of Local Number Format in From Header Field | Deutsche Telekom / Michael | 29.163 | 1072 | - | Rel-16 | B | TEI16 | revised |
| C3-195294 | Interworking of Local Number Format in From Header Field | Deutsche Telekom / Michael | 29.163 | 1072 | 1 | Rel-16 | B | TEI16 | agreed |
| C3-195057 | P-CSCF restoration in 5GS | Ericsson | 29.165 | 0994 | - | Rel-15 | F | 5GS\_Ph1-IMSo5G | revised |
| C3-195292 | P-CSCF restoration in 5GS | Ericsson | 29.165 | 0994 | 1 | Rel-15 | F | 5GS\_Ph1-IMSo5G | revised |
| C3-195357 | P-CSCF restoration in 5GS | Ericsson | 29.165 | 0994 | 2 | Rel-15 | F | 5GS\_Ph1-IMSo5G | agreed |
| C3-195058 | P-CSCF restoration in 5GS | Ericsson | 29.165 | 0995 | - | Rel-16 | A | 5GS\_Ph1-IMSo5G | revised |
| C3-195293 | P-CSCF restoration in 5GS | Ericsson | 29.165 | 0995 | 1 | Rel-16 | A | 5GS\_Ph1-IMSo5G | revised |
| C3-195358 | P-CSCF restoration in 5GS | Ericsson | 29.165 | 0995 | 2 | Rel-16 | A | 5GS\_Ph1-IMSo5G | agreed |
| C3-195059 | Additional-Identity header in REFER request | Ericsson | 29.165 | 0996 | - | Rel-16 | B | MuD | agreed |
| C3-195088 | Correction for setting condition of the contact hedaer field | NTT corporation | 29.165 | 0997 | - | Rel-16 | F | NNI\_DV | revised |
| C3-195295 | Correction for setting condition of the Contact hedaer field | NTT corporation | 29.165 | 0997 | 1 | Rel-16 | F | NNI\_DV | not pursued |
| C3-195417 | Corrrection for setting conditrion of the Contact header field | NTT | 29.165 | 0998 | - | Rel-10 | F | NNI\_DV | agreed |
| C3-195418 | Corrrection for setting conditrion of the Contact header field | NTT | 29.165 | 0999 | - | Rel-11 | A | NNI\_DV | revised |
| C3-195427 | Corrrection for setting conditrion of the Contact header field | NTT | 29.165 | 0999 | 1 | Rel-11 | A | NNI\_DV | agreed |
| C3-195419 | Corrrection for setting conditrion of the Contact header field | NTT | 29.165 | 1000 | - | Rel-12 | A | NNI\_DV | revised |
| C3-195428 | Corrrection for setting conditrion of the Contact header field | NTT | 29.165 | 1000 | 1 | Rel-12 | A | NNI\_DV | agreed |
| C3-195420 | Corrrection for setting conditrion of the Contact header field | NTT | 29.165 | 1001 | - | Rel-13 | A | NNI\_DV | revised |
| C3-195429 | Corrrection for setting conditrion of the Contact header field | NTT | 29.165 | 1001 | 1 | Rel-13 | A | NNI\_DV | agreed |
| C3-195421 | Corrrection for setting conditrion of the Contact header field | NTT | 29.165 | 1002 | - | Rel-14 | A | NNI\_DV | revised |
| C3-195430 | Corrrection for setting conditrion of the Contact header field | NTT | 29.165 | 1002 | 1 | Rel-14 | A | NNI\_DV | agreed |
| C3-195422 | Corrrection for setting conditrion of the Contact header field | NTT | 29.165 | 1003 | - | Rel-15 | A | NNI\_DV | revised |
| C3-195431 | Corrrection for setting conditrion of the Contact header field | NTT | 29.165 | 1003 | 1 | Rel-15 | A | NNI\_DV | agreed |
| C3-195423 | Corrrection for setting conditrion of the Contact header field | NTT | 29.165 | 1004 | - | Rel-16 | A | NNI\_DV | revised |
| C3-195432 | Corrrection for setting conditrion of the Contact header field | NTT | 29.165 | 1004 | 1 | Rel-16 | A | NNI\_DV | agreed |
| C3-195039 | Coverage and Handover Enhancements for Media (CHEM) | Qualcomm UK Ltd | 29.212 | 1692 | 3 | Rel-16 | B | TEI16 | revised |
| C3-195313 | Coverage and Handover Enhancements for Media (CHEM) | Qualcomm UK Ltd | 29.212 | 1692 | 4 | Rel-16 | B | TEI16 | agreed |
| C3-195122 | Correct the redirection server address to support dual stack UE | Ericsson | 29.212 | 1694 | - | Rel-16 | F | PCC, TEI16 | revised |
| C3-195343 | Correct the redirection server address to support dual stack UE | Ericsson | 29.212 | 1694 | 1 | Rel-16 | F | PCC, TEI16 | agreed |
| C3-195127 | Correct transit failure code for UE suspension | Ericsson | 29.212 | 1695 | - | Rel-15 | F | TEI15, PS\_DATA\_OFF-CT | agreed |
| C3-195128 | Correct transit failure code for UE suspension | Ericsson | 29.212 | 1696 | - | Rel-16 | A | TEI15, PS\_DATA\_OFF-CT | agreed |
| C3-195200 | Adding Caller and Callee information | China Mobile Communications Group Co.,Ltd. | 29.212 | 1697 | - | Rel-16 | B | VBCLTE | revised |
| C3-195290 | Adding Caller and Callee information | China Mobile Communications Group Co.,Ltd. | 29.212 | 1697 | 1 | Rel-16 | B | VBCLTE | revised |
| C3-195390 | Adding Caller and Callee information | China Mobile Communications Group Co.,Ltd. | 29.212 | 1697 | 2 | Rel-16 | B | VBCLTE | agreed |
| C3-195038 | Coverage and Handover Enhancements for Media (CHEM) | Qualcomm UK Ltd | 29.213 | 0740 | 3 | Rel-16 | B | TEI16 | revised |
| C3-195312 | Coverage and Handover Enhancements for Media (CHEM) | Qualcomm UK Ltd | 29.213 | 0740 | 4 | Rel-16 | B | TEI16 | revised |
| C3-195403 | Coverage and Handover Enhancements for Media (CHEM) | Qualcomm UK Ltd | 29.213 | 0740 | 5 | Rel-16 | B | TEI16 | revised |
| C3-195437 | Coverage and Handover Enhancements for Media (CHEM) | Qualcomm UK Ltd | 29.213 | 0740 | 6 | Rel-16 | B | TEI16 | agreed |
| C3-195037 | Coverage and Handover Enhancements for Media (CHEM) | Qualcomm UK Ltd | 29.214 | 1628 | 3 | Rel-16 | B | TEI16 | revised |
| C3-195311 | Coverage and Handover Enhancements for Media (CHEM) | Qualcomm UK Ltd | 29.214 | 1628 | 4 | Rel-16 | B | TEI16 | revised |
| C3-195402 | Coverage and Handover Enhancements for Media (CHEM) | Qualcomm UK Ltd | 29.214 | 1628 | 5 | Rel-16 | B | TEI16 | revised |
| C3-195408 | Coverage and Handover Enhancements for Media (CHEM) | Qualcomm UK Ltd | 29.214 | 1628 | 6 | Rel-16 | B | TEI16 | agreed |
| C3-195201 | Adding Caller and Callee information | China Mobile Communications Group Co.,Ltd. | 29.214 | 1631 | - | Rel-16 | B | VBCLTE | revised |
| C3-195291 | Adding Caller and Callee information | China Mobile Communications Group Co.,Ltd. | 29.214 | 1631 | 1 | Rel-16 | B | VBCLTE | revised |
| C3-195391 | Adding Caller and Callee information | China Mobile Communications Group Co.,Ltd. | 29.214 | 1631 | 2 | Rel-16 | B | VBCLTE | revised |
| C3-195438 | Adding Caller and Callee information | China Mobile Communications Group Co.,Ltd. | 29.214 | 1631 | 3 | Rel-16 | B | VBCLTE | revised |
| C3-195442 | Adding Caller and Callee information | China Mobile Communications Group Co.,Ltd. | 29.214 | 1631 | 4 | Rel-16 | B | VBCLTE | revised |
| C3-195445 | Adding Caller and Callee information | China Mobile Communications Group Co.,Ltd. | 29.214 | 1631 | 5 | Rel-16 | B | VBCLTE | agreed |
| C3-195138 | Updates to Service Architecture and functional entities | Samsung | 29.222 | 0101 | 2 | Rel-16 | B | eCAPIF | revised |
| C3-195268 | Updates to Service Architecture and functional entities | Samsung | 29.222 | 0101 | 3 | Rel-16 | B | eCAPIF | revised |
| C3-195384 | Updates to Service Architecture and functional entities | Samsung | 29.222 | 0101 | 4 | Rel-16 | B | eCAPIF | agreed |
| C3-195121 | Support query source verification in cascaded CAPIF discovery | Ericsson | 29.222 | 0110 | - | Rel-16 | B | eCAPIF | revised |
| C3-195267 | Support query source verification in cascaded CAPIF discovery | Ericsson | 29.222 | 0110 | 1 | Rel-16 | B | eCAPIF | not pursued |
| C3-195135 | Supported feature in API publish service | Ericsson | 29.222 | 0111 | - | Rel-16 | B | eNAPIs | revised |
| C3-195373 | Supported feature in API publish service | Ericsson, Huawei | 29.222 | 0111 | 1 | Rel-16 | B | eNAPIs | agreed |
| C3-195139 | API invoker details update – Service Definition | Samsung | 29.222 | 0112 | - | Rel-16 | B | eCAPIF | revised |
| C3-195269 | API invoker details update – Service Definition | Samsung | 29.222 | 0112 | 1 | Rel-16 | B | eCAPIF | agreed |
| C3-195140 | API invoker details update – API Definition | Samsung | 29.222 | 0113 | - | Rel-16 | B | eCAPIF | revised |
| C3-195270 | API invoker details update – API Definition | Samsung | 29.222 | 0113 | 1 | Rel-16 | B | eCAPIF | agreed |
| C3-195141 | API Provider Registration and Update – Service Definition | Samsung | 29.222 | 0114 | - | Rel-16 | B | eCAPIF | revised |
| C3-195271 | API Provider Registration and Update – Service Definition | Samsung | 29.222 | 0114 | 1 | Rel-16 | B | eCAPIF | agreed |
| C3-195142 | API Provider Registration and Update – API Definition | Samsung | 29.222 | 0115 | - | Rel-16 | B | eCAPIF | revised |
| C3-195272 | API Provider Registration and Update – API Definition | Samsung | 29.222 | 0115 | 1 | Rel-16 | B | eCAPIF | revised |
| C3-195371 | API Provider Registration and Update – API Definition | Samsung | 29.222 | 0115 | 2 | Rel-16 | B | eCAPIF | revised |
| C3-195396 | API Provider Registration and Update – API Definition | Samsung | 29.222 | 0115 | 3 | Rel-16 | B | eCAPIF | agreed |
| C3-195143 | Support for 3rd party API provider domain | Samsung | 29.222 | 0116 | - | Rel-16 | B | eCAPIF | revised |
| C3-195273 | Support for 3rd party API provider domain | Samsung | 29.222 | 0116 | 1 | Rel-16 | B | eCAPIF | agreed |
| C3-195211 | Correct the notificationDestination of ServiceSecurity object in yaml file | China Mobile Communications Group Co.,Ltd. | 29.222 | 0117 | - | Rel-15 | F | CAPIF-CT | agreed |
| C3-195278 | Correct the notificationDestination of ServiceSecurity object in yaml file | China Mobile Communications Group Co.,Ltd. | 29.222 | 0117 | 1 | Rel-15 | F | CAPIF-CT | agreed |
| C3-195212 | Correct the notificationDestination of ServiceSecurity object in yaml file | China Mobile Communications Group Co.,Ltd. | 29.222 | 0118 | - | Rel-16 | A | CAPIF-CT | revised |
| C3-195279 | Correct the notificationDestination of ServiceSecurity object in yaml file | China Mobile Communications Group Co.,Ltd. | 29.222 | 0118 | 1 | Rel-16 | A | CAPIF-CT | agreed |
| C3-195213 | Align the API name of Initiate\_Authentication | China Mobile Communications Group Co.,Ltd. | 29.222 | 0119 | - | Rel-15 | F | CAPIF-CT | revised |
| C3-195280 | Align the API name of Initiate\_Authentication | China Mobile Communications Group Co.,Ltd. | 29.222 | 0119 | 1 | Rel-15 | F | CAPIF-CT | agreed |
| C3-195214 | Align the API name of Initiate\_Authentication | China Mobile Communications Group Co.,Ltd. | 29.222 | 0120 | - | Rel-16 | A | CAPIF-CT | revised |
| C3-195281 | Align the API name of Initiate\_Authentication | China Mobile Communications Group Co.,Ltd. | 29.222 | 0120 | 1 | Rel-16 | A | CAPIF-CT | agreed |
| C3-195351 | Update of API version and TS version in OpenAPI file | Samsung | 29.222 | 0121 | - | Rel-16 | F | TEI16 | agreed |
| C3-195365 | Update of OpenAPI version and TS version in externalDocs field | Samsung | 29.222 | 0122 | - | Rel-15 | F | TEI15 | agreed |
| C3-195113 | Format for FEC framework configuration information in MB2 | ENENSYS, Ericsson | 29.468 | 0051 | 2 | Rel-15 | F | TEI15, GCSE\_LTE-CT | agreed |
| C3-195147 | Correction on 307 error, 29.507 | Ericsson | 29.507 | 0089 | - | Rel-15 | F | 5GS\_Ph1-CT | revised |
| C3-195265 | Correction on 307 error, 29.507 | Ericsson | 29.507 | 0089 | 1 | Rel-15 | F | 5GS\_Ph1-CT | agreed |
| C3-195148 | Correction on 307 error, 29.507 | Ericsson | 29.507 | 0090 | - | Rel-16 | A | 5GS\_Ph1-CT | revised |
| C3-195266 | Correction on 307 error, 29.507 | Ericsson | 29.507 | 0090 | 1 | Rel-16 | A | 5GS\_Ph1-CT | agreed |
| C3-195160 | Support of simultaneous registration in multiple accesses | Ericsson | 29.507 | 0091 | - | Rel-16 | B | 5WWC | revised |
| C3-195241 | Support of simultaneous registration in multiple accesses | Ericsson | 29.507 | 0091 | 1 | Rel-16 | B | 5WWC | agreed |
| C3-195161 | Support of S-NSSAI for non-3GPP access | Ericsson | 29.507 | 0092 | - | Rel-16 | B | 5WWC | revised |
| C3-195242 | Support of S-NSSAI for non-3GPP access | Ericsson | 29.507 | 0092 | 1 | Rel-16 | B | 5WWC | revised |
| C3-195380 | Support of S-NSSAI for non-3GPP access | Ericsson, CableLabs | 29.507 | 0092 | 2 | Rel-16 | B | 5WWC | agreed |
| C3-195162 | Support of 5WWC, Service Area Restrictions | Ericsson, CableLabs | 29.507 | 0093 | - | Rel-16 | B | 5WWC | revised |
| C3-195243 | Support of 5WWC, Service Area Restrictions | Ericsson, CableLabs | 29.507 | 0093 | 1 | Rel-16 | B | 5WWC | agreed |
| C3-195163 | Clarification of PEI format, 29.507 | Ericsson, CableLabs | 29.507 | 0094 | - | Rel-16 | B | 5WWC | revised |
| C3-195244 | Clarification of PEI format, 29.507 | Ericsson, CableLabs | 29.507 | 0094 | 1 | Rel-16 | B | 5WWC | agreed |
| C3-195164 | HFC node Id in Location information | Ericsson | 29.507 | 0095 | - | Rel-16 | B | 5WWC | revised |
| C3-195245 | HFC node Id in Location information | Ericsson | 29.507 | 0095 | 1 | Rel-16 | B | 5WWC | agreed |
| C3-195350 | Update of API version and TS version in OpenAPI file | Nokia, Nokia Shanghai Bell | 29.507 | 0096 | - | Rel-16 | F | TEI16 | agreed |
| C3-195149 | Correction on 307 error, 29.508 | Ericsson | 29.508 | 0061 | - | Rel-15 | F | 5GS\_Ph1-CT | revised |
| C3-195302 | Correction on 307 error, 29.508 | Ericsson | 29.508 | 0061 | 1 | Rel-15 | F | 5GS\_Ph1-CT | agreed |
| C3-195150 | Correction on 307 error, 29.508 | Ericsson | 29.508 | 0062 | - | Rel-16 | A | 5GS\_Ph1-CT | revised |
| C3-195303 | Correction on 307 error, 29.508 | Ericsson | 29.508 | 0062 | 1 | Rel-16 | A | 5GS\_Ph1-CT | agreed |
| C3-195359 | Update of API version and TS version in OpenAPI file | Nokia, Nokia Shanghai Bell | 29.508 | 0063 | - | Rel-15 | F | 5GS\_PH1-CT | agreed |
| C3-195360 | Update of API version and TS version in OpenAPI file | Nokia, Nokia Shanghai Bell | 29.508 | 0064 | - | Rel-16 | F | TEI16 | agreed |
| C3-195047 | Increasing the maximum MDBV value | Qualcomm Incorporated / Lena | 29.512 | 0345 | 2 | Rel-16 | F | TEI16, 5GS\_Ph1-CT | agreed |
| C3-195093 | New cause value of association termination for xBDT | Huawei | 29.512 | 0355 | 3 | Rel-16 | B | xBDT | revised |
| C3-195256 | New cause value of association termination for xBDT | Huawei, Vodafone | 29.512 | 0355 | 4 | Rel-16 | B | xBDT | revised |
| C3-195392 | New cause value of association termination for xBDT | Huawei, Vodafone | 29.512 | 0355 | 5 | Rel-16 | B | xBDT | agreed |
| C3-195094 | QoS Handling for V2X Communication | Huawei | 29.512 | 0356 | 5 | Rel-16 | B | eV2XARC | revised |
| C3-195300 | QoS Handling for V2X Communication | Huawei | 29.512 | 0356 | 6 | Rel-16 | B | eV2XARC | agreed |
| C3-195216 | Serving 4G only UEs by SMF+PGW-C | Vodafone Romania S.A. | 29.512 | 0358 | 3 | Rel-16 | B | en5GPccSer | revised |
| C3-195287 | Serving 4G only UEs by SMF+PGW-C | Huawei, Vodafone Romania S.A. | 29.512 | 0358 | 4 | Rel-16 | B | en5GPccSer | agreed |
| C3-195027 | Transport of TSN information and containers between SMF and PCF | Nokia, Nokia Shanghai Bell | 29.512 | 0368 | - | Rel-16 | B | Vertical\_LAN | revised |
| C3-195258 | Transport of TSN information and containers between SMF and PCF | Nokia, Nokia Shanghai Bell, Verizon, Ericsson | 29.512 | 0368 | 1 | Rel-16 | B | Vertical\_LAN | revised |
| C3-195377 | Transport of TSN information and containers between SMF and PCF | Nokia, Nokia Shanghai Bell, Verizon, Ericsson | 29.512 | 0368 | 2 | Rel-16 | B | Vertical\_LAN | agreed |
| C3-195028 | Transport of TSC assistance information between SMF and PCF | Nokia, Nokia Shanghai Bell | 29.512 | 0369 | - | Rel-16 | B | Vertical\_LAN | revised |
| C3-195259 | Transport of TSC assistance information between SMF and PCF | Nokia, Nokia Shanghai Bell, Verizon, Ericsson | 29.512 | 0369 | 1 | Rel-16 | B | Vertical\_LAN | revised |
| C3-195378 | Transport of TSC assistance information between SMF and PCF | Nokia, Nokia Shanghai Bell, Verizon, Ericsson | 29.512 | 0369 | 2 | Rel-16 | B | Vertical\_LAN | agreed |
| C3-195035 | CHF addresses as apiRoot in the form of an FQDN | Nokia, Nokia Shanghai Bell | 29.512 | 0370 | - | Rel-15 | F | 5GS\_Ph1-CT | agreed |
| C3-195036 | CHF addresses as apiRoot in the form of an FQDN | Nokia, Nokia Shanghai Bell | 29.512 | 0371 | - | Rel-16 | A | 5GS\_Ph1-CT | agreed |
| C3-195042 | Indication of PS to CS Handover for 5G SRVCC from SMF to PCF | ZTE | 29.512 | 0372 | - | Rel-16 | B | 5G\_SRVCC | revised |
| C3-195288 | Indication of PS to CS Handover for 5G SRVCC from SMF to PCF | ZTE, Ericsson | 29.512 | 0372 | 1 | Rel-16 | B | 5G\_SRVCC | revised |
| C3-195401 | Indication of PS to CS Handover for 5G SRVCC from SMF to PCF | ZTE, Ericsson | 29.512 | 0372 | 2 | Rel-16 | B | 5G\_SRVCC | revised |
| C3-195409 | Indication of PS to CS Handover for 5G SRVCC from SMF to PCF | ZTE, Ericsson | 29.512 | 0372 | 3 | Rel-16 | B | 5G\_SRVCC | agreed |
| C3-195046 | Coverage and Handover Enhancements for Media (CHEM) | Qualcomm India Pvt Ltd | 29.512 | 0373 | - | Rel-16 | B | TEI16 | revised |
| C3-195316 | Coverage and Handover Enhancements for Media (CHEM) | Qualcomm India Pvt Ltd | 29.512 | 0373 | 1 | Rel-16 | B | TEI16 | revised |
| C3-195436 | Coverage and Handover Enhancements for Media (CHEM) | Qualcomm India Pvt Ltd | 29.512 | 0373 | 2 | Rel-16 | B | TEI16 | agreed |
| C3-195052 | MCS Priority Level | FirstNet | 29.512 | 0374 | - | Rel-16 | B | 5GS\_Ph1-CT | revised |
| C3-195339 | MCS Priority Level | FirstNet | 29.512 | 0374 | 1 | Rel-16 | B | en5GPccSer | agreed |
| C3-195063 | Removal of non-breaking spaces, TABs and $ref descriptions | Ericsson | 29.512 | 0375 | - | Rel-16 | F | en5GPccSer | agreed |
| C3-195076 | Request of SM Policy Association Termination during the Update procedure | Oracle Corporation | 29.512 | 0376 | - | Rel-15 | F | 5GS\_Ph1-CT | not pursued |
| C3-195077 | Request of SM Policy Association Termination during the Update procedure | Oracle Corporation | 29.512 | 0377 | - | Rel-16 | A | 5GS\_Ph1-CT | revised |
| C3-195304 | Request of SM Policy Association Termination during the Update procedure | Oracle Corporation | 29.512 | 0377 | 1 | Rel-16 | B | en5GPccSer | revised |
| C3-195375 | Request of SM Policy Association Termination during the Update procedure | Oracle Corporation | 29.512 | 0377 | 2 | Rel-16 | B | en5GPccSer | agreed |
| C3-195089 | Correction to delete a PCC rule requested by the UE | Huawei | 29.512 | 0378 | - | Rel-15 | F | 5GS\_Ph1-CT | agreed |
| C3-195090 | Correction to delete a PCC rule requested by the UE | Huawei | 29.512 | 0379 | - | Rel-16 | A | 5GS\_Ph1-CT | agreed |
| C3-195091 | Termination action | Huawei | 29.512 | 0380 | - | Rel-15 | F | 5GS\_Ph1-CT | agreed |
| C3-195092 | Termination action | Huawei | 29.512 | 0381 | - | Rel-16 | A | 5GS\_Ph1-CT | agreed |
| C3-195096 | AMF change in the HR scenario | Huawei | 29.512 | 0382 | - | Rel-16 | B | en5GPccSer | revised |
| C3-195284 | AMF change in the HR scenario | Huawei | 29.512 | 0382 | 1 | Rel-16 | B | en5GPccSer | agreed |
| C3-195097 | Same PCF selection for the same UE ID, S-NSSAI and DNN combination | Huawei | 29.512 | 0383 | - | Rel-16 | B | en5GPccSer | revised |
| C3-195286 | Same PCF selection for the same UE ID, S-NSSAI and DNN combination | Huawei | 29.512 | 0383 | 1 | Rel-16 | B | en5GPccSer | revised |
| C3-195388 | Same PCF selection for the same UE ID, S-NSSAI and DNN combination | Huawei | 29.512 | 0383 | 2 | Rel-16 | B | en5GPccSer | agreed |
| C3-195110 | Correction to the QoS monitoring Control | Huawei | 29.512 | 0384 | - | Rel-16 | B | 5G\_URLLC | revised |
| C3-195298 | Correction to the QoS monitoring Control | Huawei, Cisco | 29.512 | 0384 | 1 | Rel-16 | B | 5G\_URLLC | agreed |
| C3-195111 | Update of API version and TS version in OpenAPI file | Huawei | 29.512 | 0385 | - | Rel-16 | F | 5G\_URLLC | revised |
| C3-195367 | Update of API version and TS version in OpenAPI file | Huawei | 29.512 | 0385 | 1 | Rel-16 | F | TEI16 | agreed |
| C3-195123 | Correct the redirection server address to support dual stack UE | Ericsson | 29.512 | 0386 | - | Rel-16 | F | en5GPccSer | agreed |
| C3-195153 | Correction of AF Charging Identifier data type | Ericsson | 29.512 | 0387 | - | Rel-15 | F | 5GS\_Ph1-CT | revised |
| C3-195305 | Correction of AF Charging Identifier data type | Ericsson | 29.512 | 0387 | 1 | Rel-15 | F | 5GS\_Ph1-CT | agreed |
| C3-195154 | Correction of AF Charging Identifier data type | Ericsson | 29.512 | 0388 | - | Rel-16 | A | 5GS\_Ph1-CT | revised |
| C3-195306 | Correction of AF Charging Identifier data type | Ericsson | 29.512 | 0388 | 1 | Rel-16 | A | 5GS\_Ph1-CT | agreed |
| C3-195168 | Clarification of PEI format, TS 29.512 | Ericsson, CableLabs | 29.512 | 0389 | - | Rel-16 | B | 5WWC | revised |
| C3-195249 | Clarification of PEI format, TS 29.512 | Ericsson, CableLabs | 29.512 | 0389 | 1 | Rel-16 | B | 5WWC | revised |
| C3-195381 | Clarification of PEI format, TS 29.512 | Ericsson, CableLabs | 29.512 | 0389 | 2 | Rel-16 | B | 5WWC | agreed |
| C3-195169 | HFC node Id in Location information, TS 29.512 | Ericsson | 29.512 | 0390 | - | Rel-16 | B | 5WWC | revised |
| C3-195250 | HFC node Id in Location information, TS 29.512 | Ericsson | 29.512 | 0390 | 1 | Rel-16 | B | 5WWC | agreed |
| C3-195193 | Correction to SUPI attribute | Samsung | 29.512 | 0391 | - | Rel-15 | F | 5GS\_Ph1-CT | postponed |
| C3-195194 | Correction to SUPI attribute | Samsung | 29.512 | 0392 | - | Rel-16 | A | 5GS\_Ph1-CT | postponed |
| C3-195210 | Add reference to TS 29.524 | Orange | 29.512 | 0393 | - | Rel-16 | F | TEI16 | revised |
| C3-195331 | Add reference to TS 29.524 | Orange | 29.512 | 0393 | 1 | Rel-16 | F | en5GPCCSer | agreed |
| C3-195222 | SMF callback URI update | Huawei | 29.512 | 0394 | - | Rel-16 | B | 5G\_eSBA | postponed |
| C3-195335 | Update of OpenAPI version and TS version in externalDocs | Huawei | 29.512 | 0395 | - | Rel-15 | F | 5GS\_PH1-CT | revised |
| C3-195414 | Update of OpenAPI version and TS version in externalDocs | Huawei | 29.512 | 0395 | 1 | Rel-15 | F | 5GS\_PH1-CT | revised |
| C3-195424 | Update of OpenAPI version and TS version in externalDocs | Huawei | 29.512 | 0395 | 2 | Rel-15 | F | 5GS\_PH1-CT | agreed |
| C3-195045 | Coverage and Handover Enhancements for Media (CHEM) | Qualcomm India Pvt Ltd | 29.513 | 0098 | - | Rel-16 | B | TEI16 | revised |
| C3-195315 | Coverage and Handover Enhancements for Media (CHEM) | Qualcomm India Pvt Ltd | 29.513 | 0098 | 1 | Rel-16 | B | TEI16 | revised |
| C3-195434 | Coverage and Handover Enhancements for Media (CHEM) | Qualcomm India Pvt Ltd | 29.513 | 0098 | 2 | Rel-16 | B | TEI16 | agreed |
| C3-195053 | MCS Priority Level | FirstNet | 29.513 | 0099 | - | Rel-16 | B | 5GS\_Ph1-CT | revised |
| C3-195340 | MCS Priority Level | FirstNet | 29.513 | 0099 | 1 | Rel-16 | B | en5GPccSer | agreed |
| C3-195067 | BDT renegotiation upon the network conditions change | Ericsson | 29.513 | 0100 | - | Rel-16 | B | eNA | revised |
| C3-195228 | BDT renegotiation upon the network conditions change | Ericsson | 29.513 | 0100 | 1 | Rel-16 | B | eNA | postponed |
| C3-195087 | remove EN related to BDT reference ID storage in SMPolicyData | ZTE | 29.513 | 0101 | - | Rel-16 | F | xBDT | revised |
| C3-195255 | remove EN related to BDT reference ID storage in SMPolicyData | ZTE | 29.513 | 0101 | 1 | Rel-16 | F | xBDT | agreed |
| C3-195208 | QoS Parameter mapping at AF, N5 interface | Ericsson | 29.513 | 0102 | - | Rel-16 | B | eIMS5G\_SBA | revised |
| C3-195405 | QoS Parameter mapping at AF, N5 interface | Ericsson | 29.513 | 0102 | 1 | Rel-16 | B | eIMS5G\_SBA | revised |
| C3-195435 | QoS Parameter mapping at AF, N5 interface | Ericsson, PerspectaLabs, Qualcomm Incorporated | 29.513 | 0102 | 2 | Rel-16 | B | eIMS5G\_SBA, TEI16 | agreed |
| C3-195209 | Skeleton for Annex B, Signalling Flows for IMS | Ericsson | 29.513 | 0103 | - | Rel-16 | B | eIMS5G\_SBA | revised |
| C3-195309 | Skeleton for Annex B, Signalling Flows for IMS | Ericsson | 29.513 | 0103 | 1 | Rel-16 | B | eIMS5G\_SBA | revised |
| C3-195383 | Skeleton for Annex B, Signalling Flows for IMS | Ericsson | 29.513 | 0103 | 2 | Rel-16 | B | eIMS5G\_SBA | revised |
| C3-195406 | Skeleton for Annex B, Signalling Flows for IMS | Ericsson | 29.513 | 0103 | 3 | Rel-16 | B | eIMS5G\_SBA | revised |
| C3-195411 | Skeleton for Annex B, Signalling Flows for IMS | Ericsson | 29.513 | 0103 | 4 | Rel-16 | B | eIMS5G\_SBA | agreed |
| C3-195206 | Support of the RAN-NAS Release Cause | Ericsson | 29.514 | 0140 | 2 | Rel-16 | B | eIMS5G\_SBA | agreed |
| C3-195095 | QoS Handling for V2X Communication | Huawei | 29.514 | 0141 | 4 | Rel-16 | B | eV2XARC | revised |
| C3-195301 | QoS Handling for V2X Communication | Huawei | 29.514 | 0141 | 5 | Rel-16 | B | eV2XARC | agreed |
| C3-195426 | QoS Handling for V2X Communication | Huawei | 29.514 | 0141 | 6 | Rel-16 | B | eV2XARC | agreed |
| C3-195207 | QoS Monitoring for Service Data Flows | Ericsson, Cisco | 29.514 | 0142 | 3 | Rel-16 | B | 5G\_URLLC | agreed |
| C3-195029 | Transport of TSN information and containers between PCF and AF | Nokia, Nokia Shanghai Bell | 29.514 | 0145 | - | Rel-16 | B | Vertical\_LAN | revised |
| C3-195296 | Transport of TSN information and containers between PCF and AF | Nokia, Nokia S|hanghai Bell, Verizon, Ericsson | 29.514 | 0145 | 1 | Rel-16 | B | Vertical\_LAN | revised |
| C3-195379 | Transport of TSN information and containers between PCF and AF | Nokia, Nokia S|hanghai Bell, Verizon, Ericsson | 29.514 | 0145 | 2 | Rel-16 | B | Vertical\_LAN | agreed |
| C3-195030 | Transport of TSC assistance information between PCF and AF | Nokia, Nokia Shanghai Bell | 29.514 | 0146 | - | Rel-16 | B | Vertical\_LAN | revised |
| C3-195297 | Transport of TSC assistance information between PCF and AF | Nokia, Nokia Shanghai Bell, Verizon, Ericsson | 29.514 | 0146 | 1 | Rel-16 | B | Vertical\_LAN | agreed |
| C3-195043 | Indication of PS to CS Handover for 5G SRVCC from PCF to AF | ZTE | 29.514 | 0147 | - | Rel-16 | B | 5G\_SRVCC | revised |
| C3-195221 | Indication of PS to CS Handover for 5G SRVCC from PCF to AF | ZTE | 29.514 | 0147 | 1 | Rel-16 | B | 5G\_SRVCC | revised |
| C3-195289 | Indication of PS to CS Handover for 5G SRVCC from PCF to AF | ZTE | 29.514 | 0147 | 2 | Rel-16 | B | 5G\_SRVCC | revised |
| C3-195394 | Indication of PS to CS Handover for 5G SRVCC from PCF to AF | ZTE | 29.514 | 0147 | 3 | Rel-16 | B | 5G\_SRVCC | revised |
| C3-195410 | Indication of PS to CS Handover for 5G SRVCC from PCF to AF | ZTE | 29.514 | 0147 | 4 | Rel-16 | B | 5G\_SRVCC | agreed |
| C3-195044 | Coverage and Handover Enhancements for Media (CHEM) | Qualcomm India Pvt Ltd | 29.514 | 0148 | - | Rel-16 | B | TEI16 | revised |
| C3-195314 | Coverage and Handover Enhancements for Media (CHEM) | Qualcomm India Pvt Ltd | 29.514 | 0148 | 1 | Rel-16 | B | TEI16 | revised |
| C3-195444 | Coverage and Handover Enhancements for Media (CHEM) | Qualcomm India Pvt Ltd | 29.514 | 0148 | 2 | Rel-16 | B | TEI16 | revised |
| C3-195446 | Coverage and Handover Enhancements for Media (CHEM) | Qualcomm India Pvt Ltd | 29.514 | 0148 | 3 | Rel-16 | B | TEI16 | revised |
| C3-195447 | Coverage and Handover Enhancements for Media (CHEM) | Qualcomm India Pvt Ltd | 29.514 | 0148 | 4 | Rel-16 | B | TEI16 | agreed |
| C3-195054 | MCS Priority Level | FirstNet | 29.514 | 0149 | - | Rel-16 | B | 5GS\_Ph1-CT | revised |
| C3-195341 | MCS Priority Level | FirstNet | 29.514 | 0149 | 1 | Rel-16 | B | en5GPccSer | revised |
| C3-195369 | MCS Priority Level | FirstNet | 29.514 | 0149 | 2 | Rel-16 | B | en5GPccSer | agreed |
| C3-195118 | Correct VLAN tag description | Ericsson | 29.514 | 0150 | - | Rel-15 | F | 5GS\_Ph1-CT | agreed |
| C3-195119 | Correct VLAN tag description | Ericsson | 29.514 | 0151 | - | Rel-16 | A | 5GS\_Ph1-CT | agreed |
| C3-195155 | Corrections to several mistakes | Ericsson | 29.514 | 0152 | - | Rel-15 | F | 5GS\_Ph1-CT | agreed |
| C3-195156 | Corrections to several mistakes | Ericsson | 29.514 | 0153 | - | Rel-16 | A | 5GS\_Ph1-CT | agreed |
| C3-195165 | Report of Wireline Location Information | Ericsson, CableLabs | 29.514 | 0154 | - | Rel-16 | B | 5WWC | revised |
| C3-195246 | Report of Wireline Location Information | Ericsson, CableLabs | 29.514 | 0154 | 1 | Rel-16 | B | 5WWC | agreed |
| C3-195166 | Support of 5WWC, supported PEI format | Ericsson, CableLabs | 29.514 | 0155 | - | Rel-16 | B | 5WWC | revised |
| C3-195247 | Support of 5WWC, supported PEI format | Ericsson, CableLabs | 29.514 | 0155 | 1 | Rel-16 | B | 5WWC | agreed |
| C3-195167 | Support of Trusted non-3GPP accesses | Ericsson | 29.514 | 0156 | - | Rel-16 | B | 5WWC | revised |
| C3-195248 | Support of Trusted non-3GPP accesses | Ericsson | 29.514 | 0156 | 1 | Rel-16 | B | 5WWC | agreed |
| C3-195203 | Correction of AF Charging Identifier data type | Ericsson | 29.514 | 0157 | - | Rel-16 | F | eIMS5G\_SBA | agreed |
| C3-195204 | P-CSCF restoration | Ericsson | 29.514 | 0158 | - | Rel-16 | B | eIMS5G\_SBA | revised |
| C3-195308 | P-CSCF restoration | Ericsson | 29.514 | 0158 | 1 | Rel-16 | B | eIMS5G\_SBA | revised |
| C3-195382 | P-CSCF restoration | Ericsson | 29.514 | 0158 | 2 | Rel-16 | B | eIMS5G\_SBA | agreed |
| C3-195205 | Support of Maximum Supported Bandwidth and Minimum Desired Bandwidth | Ericsson | 29.514 | 0159 | - | Rel-16 | B | eIMS5G\_SBA | agreed |
| C3-195336 | Update of OpenAPI version and TS version in externalDocs | Ericsson | 29.514 | 0160 | - | Rel-15 | F | 5GS\_PH1-CT | agreed |
| C3-195344 | Update of API version and TS version in OpenAPI file | Ericsson | 29.514 | 0161 | - | Rel-16 | F | TEI16 | agreed |
| C3-195070 | Retrieval of BDT policy data for a set of BDT reference identifiers | Ericsson | 29.519 | 0144 | 2 | Rel-16 | B | xBDT | agreed |
| C3-195192 | Support of BDT reference Id within Session Management data | Ericsson | 29.519 | 0149 | 3 | Rel-16 | B | xBDT | agreed |
| C3-195015 | Partial update of IPTVConfiguration API | Huawei | 29.519 | 0151 | 3 | Rel-16 | B | 5WWC | agreed |
| C3-195020 | Reference correction to BdtReferenceId | Huawei | 29.519 | 0153 | - | Rel-16 | F | xBDT | agreed |
| C3-195033 | Update of TS version\_Rel-15 | Huawei | 29.519 | 0154 | - | Rel-15 | F | TEI15 | revised |
| C3-195333 | Update of TS version\_Rel-15 | Huawei | 29.519 | 0154 | 1 | Rel-15 | F | TEI15 | revised |
| C3-195386 | Update of TS version\_Rel-15 | Huawei | 29.519 | 0154 | 2 | Rel-15 | F | 5GS\_Ph1-CT | agreed |
| C3-195034 | Update of TS version\_Rel-16 | Huawei | 29.519 | 0155 | - | Rel-16 | F | TEI16 | revised |
| C3-195338 | Update of TS version\_Rel-16 | Huawei | 29.519 | 0155 | 1 | Rel-16 | F | TEI16 | agreed |
| C3-195055 | MCS Priority Level | FirstNet | 29.519 | 0156 | - | Rel-16 | B | 5GS\_Ph1-CT | revised |
| C3-195342 | MCS Priority Level | FirstNet | 29.519 | 0156 | 1 | Rel-16 | B | en5GPccSer | revised |
| C3-195370 | MCS Priority Level | FirstNet | 29.519 | 0156 | 2 | Rel-16 | B | en5GPccSer | agreed |
| C3-195060 | Definition of BdtData in OpenAPI | Ericsson | 29.519 | 0157 | - | Rel-15 | F | 5GS\_Ph1-CT | agreed |
| C3-195061 | Definition of BdtData in OpenAPI | Ericsson | 29.519 | 0158 | - | Rel-16 | A | 5GS\_Ph1-CT | agreed |
| C3-195062 | Usage of BdtReferenceId data type | Ericsson | 29.519 | 0159 | - | Rel-16 | F | en5GPccSer | agreed |
| C3-195066 | Modification of "IndividualBdtData" resource | Ericsson | 29.519 | 0160 | - | Rel-16 | B | eNA | revised |
| C3-195227 | Modification of "IndividualBdtData" resource | Ericsson | 29.519 | 0160 | 1 | Rel-16 | B | eNA | postponed |
| C3-195082 | include S-NSSAI and DNN in Application Data for xBDT | ZTE | 29.519 | 0161 | - | Rel-16 | B | xBDT | revised |
| C3-195254 | include S-NSSAI and DNN in Application Data for xBDT | ZTE | 29.519 | 0161 | 1 | Rel-16 | B | xBDT | agreed |
| C3-195083 | remove 204 response on PUT request for AppliedBDTPolicyData | ZTE | 29.519 | 0162 | - | Rel-16 | F | xBDT | agreed |
| C3-195188 | Subscription and notification to data changes related to a subset of resource data, Policy Data set | Ericsson | 29.519 | 0163 | - | Rel-16 | B | en5GPccSer | postponed |
| C3-195189 | Feature Negotiation for OperatorSpecificData resource | Ericsson | 29.519 | 0164 | - | Rel-16 | B | SBIProtoc16 | agreed |
| C3-195190 | Feature Negotiation for Influence Data resource | Ericsson | 29.519 | 0165 | - | Rel-16 | B | SBIProtoc16 | agreed |
| C3-195017 | Enhance the Nnwdaf\_EventsSubscription service to support User Data Congestion | Huawei | 29.520 | 0056 | 3 | Rel-16 | B | eNA | revised |
| C3-195225 | Enhance the Nnwdaf\_EventsSubscription service to support User Data Congestion | Huawei | 29.520 | 0056 | 4 | Rel-16 | B | eNA | agreed |
| C3-195019 | Inclusion of QoS requirements and thresholds for QoS sustainability | Huawei | 29.520 | 0059 | 4 | Rel-16 | B | eNA | agreed |
| C3-195022 | OpenAPI file Update for Nnwdaf\_EventsSubscription API | Huawei | 29.520 | 0102 | - | Rel-16 | B | eNA | revised |
| C3-195237 | OpenAPI file Update for Nnwdaf\_EventsSubscription API | Huawei | 29.520 | 0102 | 1 | Rel-16 | B | eNA | agreed |
| C3-195023 | OpenAPI file Update for Nnwdaf\_AnalyticsInfo API | Huawei | 29.520 | 0103 | - | Rel-16 | B | eNA | agreed |
| C3-195024 | Slice identification for all analytics types | Huawei | 29.520 | 0104 | - | Rel-16 | B | eNA | revised |
| C3-195363 | Slice identification for all analytics types | Huawei | 29.520 | 0104 | 1 | Rel-16 | B | eNA | agreed |
| C3-195132 | Internal Group id in notification | Ericsson | 29.520 | 0105 | - | Rel-16 | F | eNA | revised |
| C3-195230 | Internal Group id in notification | Ericsson | 29.520 | 0105 | 1 | Rel-16 | F | eNA | not pursued |
| C3-195196 | NF Load analytics generalities | Orange | 29.520 | 0106 | - | Rel-16 | B | eNA | revised |
| C3-195233 | NF Load analytics generalities | Orange | 29.520 | 0106 | 1 | Rel-16 | B | eNA | revised |
| C3-195376 | NF Load analytics generalities | Orange | 29.520 | 0106 | 2 | Rel-16 | B | eNA | agreed |
| C3-195347 | Update of API version and TS version in OpenAPI file | Nokia, Nokia Shanghai Bell | 29.520 | 0107 | - | Rel-16 | F | TEI16 | revised |
| C3-195385 | Update of API version and TS version in OpenAPI file | China Mobile | 29.520 | 0107 | 1 | Rel-16 | F | TEI16 | agreed |
| C3-195098 | Same PCF selection for the same UE ID, S-NSSAI and DNN combination | Huawei | 29.521 | 0053 | - | Rel-16 | B | en5GPccSer | revised |
| C3-195285 | Same PCF selection for the same UE ID, S-NSSAI and DNN combination | Huawei | 29.521 | 0053 | 1 | Rel-16 | B | en5GPccSer | revised |
| C3-195389 | Same PCF selection for the same UE ID, S-NSSAI and DNN combination | Huawei | 29.521 | 0053 | 2 | Rel-16 | B | en5GPccSer | revised |
| C3-195404 | Same PCF selection for the same UE ID, S-NSSAI and DNN combination | Huawei | 29.521 | 0053 | 3 | Rel-16 | B | en5GPccSer | agreed |
| C3-195346 | Update of API version and TS version in OpenAPI file | China Mobile | 29.521 | 0054 | - | Rel-16 | F | TEI16 | agreed |
| C3-195100 | PFD partial failure notification | Huawei | 29.522 | 0096 | 3 | Rel-16 | B | TEI16, SDCI-CT | revised |
| C3-195319 | PFD partial failure notification | Huawei | 29.522 | 0096 | 4 | Rel-16 | B | TEI16, SDCI-CT | agreed |
| C3-195018 | AnalyticsEventNotif and AnalyticsExposureSubsc Data Types | Huawei | 29.522 | 0101 | 3 | Rel-16 | B | eNA | agreed |
| C3-195021 | OpenAPI file for AnalyticsExposure API | Huawei | 29.522 | 0107 | - | Rel-16 | B | eNA | agreed |
| C3-195025 | Corrections on 5GLANParameterProvision API | Huawei | 29.522 | 0108 | - | Rel-16 | B | Vertical\_LAN | revised |
| C3-195257 | Corrections on 5GLANParameterProvision API | Huawei | 29.522 | 0108 | 1 | Rel-16 | D | Vertical\_LAN | agreed |
| C3-195069 | Definition of AfResultInfo in OpenAPI | Ericsson | 29.522 | 0109 | - | Rel-16 | F | 5G\_URLLC | agreed |
| C3-195073 | Update of API version and TS version in OpenAPI file | Huawei | 29.522 | 0110 | - | Rel-16 | F | TEI16 | revised |
| C3-195368 | Update of API version and TS version in OpenAPI file | Huawei | 29.522 | 0110 | 1 | Rel-16 | F | TEI16 | agreed |
| C3-195084 | make the storage of traffic influence request in the UDR mandatory | ZTE | 29.522 | 0111 | - | Rel-15 | F | en5GPccSer | revised |
| C3-195325 | make the storage of traffic influence request in the UDR mandatory | ZTE | 29.522 | 0111 | 1 | Rel-15 | F | 5GS\_Ph1-CT | agreed |
| C3-195085 | make the storage of traffic influence request in the UDR mandatory | ZTE | 29.522 | 0112 | - | Rel-16 | A | en5GPccSer | revised |
| C3-195326 | make the storage of traffic influence request in the UDR mandatory | ZTE | 29.522 | 0112 | 1 | Rel-16 | A | 5GS\_Ph1-CT | agreed |
| C3-195086 | misssing ASP id in AF request for xBDT | ZTE | 29.522 | 0113 | - | Rel-16 | B | xBDT | revised |
| C3-195253 | misssing required in ApplyingBdtPolicy API file | ZTE | 29.522 | 0113 | 1 | Rel-16 | F | xBDT | agreed |
| C3-195116 | Correct cardinality in traffic influence | Ericsson | 29.522 | 0114 | - | Rel-15 | F | 5GS\_Ph1-CT | agreed |
| C3-195117 | Correct cardinality in traffic influence | Ericsson | 29.522 | 0115 | - | Rel-16 | A | 5GS\_Ph1-CT | agreed |
| C3-195134 | Support updated BDT policy in notification | Ericsson | 29.522 | 0116 | - | Rel-16 | B | eNA | revised |
| C3-195232 | openAPI correction for ExNotification | Ericsson | 29.522 | 0116 | 1 | Rel-16 | F | eNA | agreed |
| C3-195337 | Update of OpenAPI version and TS version in externalDocs | Huawei | 29.522 | 0117 | - | Rel-15 | F | 5GS\_PH1-CT | revised |
| C3-195413 | Update of OpenAPI version and TS version in externalDocs | Huawei | 29.522 | 0117 | 1 | Rel-15 | F | 5GS\_PH1-CT | agreed |
| C3-195136 | URSP provisioning for xBDT | Huawei, ZTE | 29.525 | 0054 | 2 | Rel-16 | B | xBDT | revised |
| C3-195252 | URSP provisioning for xBDT | Huawei, ZTE | 29.525 | 0054 | 3 | Rel-16 | B | xBDT | agreed |
| C3-195064 | Removal of TABs from OpenAPI file | Ericsson | 29.525 | 0058 | - | Rel-16 | F | en5GPccSer | agreed |
| C3-195078 | correction to PLMN change trigger | ZTE | 29.525 | 0059 | - | Rel-16 | F | eV2XARC | revised |
| C3-195299 | correction to PLMN change trigger | ZTE | 29.525 | 0059 | 1 | Rel-16 | F | eV2XARC | agreed |
| C3-195079 | store BDT reference ID in SMPolicyData | ZTE | 29.525 | 0060 | - | Rel-16 | B | xBDT | revised |
| C3-195251 | store BDT reference ID in SMPolicyData | ZTE | 29.525 | 0060 | 1 | Rel-16 | B | xBDT | agreed |
| C3-195080 | the behavior of V-PCF for 202 ATTEMPTING response | ZTE | 29.525 | 0061 | - | Rel-15 | F | en5GPccSer | revised |
| C3-195329 | the behavior of V-PCF for 202 ATTEMPTING response | ZTE | 29.525 | 0061 | 1 | Rel-15 | F | 5GS\_Ph1-CT | postponed |
| C3-195081 | the behavior of V-PCF for 202 ATTEMPTING response | ZTE | 29.525 | 0062 | - | Rel-16 | A | en5GPccSer | revised |
| C3-195330 | the behavior of V-PCF for 202 ATTEMPTING response | ZTE | 29.525 | 0062 | 1 | Rel-16 | A | 5GS\_Ph1-CT | postponed |
| C3-195145 | Correction to PolicyUpdate | Ericsson, ZTE | 29.525 | 0063 | - | Rel-15 | F | 5GS\_Ph1-CT | agreed |
| C3-195146 | Correction to PolicyUpdate | Ericsson, ZTE | 29.525 | 0064 | - | Rel-16 | A | 5GS\_Ph1-CT | agreed |
| C3-195151 | Correction on 307 error, 29.525 | Ericsson | 29.525 | 0065 | - | Rel-15 | F | 5GS\_Ph1-CT | revised |
| C3-195327 | Correction on 307 error, 29.525 | Ericsson | 29.525 | 0065 | 1 | Rel-15 | F | 5GS\_Ph1-CT | agreed |
| C3-195152 | Correction on 307 error, 29.525 | Ericsson | 29.525 | 0066 | - | Rel-16 | A | 5GS\_Ph1-CT | revised |
| C3-195328 | Correction on 307 error, 29.525 | Ericsson | 29.525 | 0066 | 1 | Rel-16 | A | 5GS\_Ph1-CT | agreed |
| C3-195158 | Clarification of PEI format, TS 29.525 | Ericsson, CableLabs | 29.525 | 0067 | - | Rel-16 | B | 5WWC | revised |
| C3-195239 | Clarification of PEI format, TS 29.525 | Ericsson, CableLabs | 29.525 | 0067 | 1 | Rel-16 | B | 5WWC | agreed |
| C3-195159 | Wireline location information | Ericsson | 29.525 | 0068 | - | Rel-16 | B | 5WWC | revised |
| C3-195240 | Wireline location information | Ericsson | 29.525 | 0068 | 1 | Rel-16 | B | 5WWC | agreed |
| C3-195345 | Update of API version and TS version in OpenAPI file | Nokia, Nokia Shanghai Bell | 29.525 | 0069 | - | Rel-16 | F | TEI16 | agreed |
| C3-195349 | Update of API version and TS version in OpenAPI file | Nokia, Nokia Shanghai Bell | 29.525 | 0070 | - | Rel-16 | F | TEI16 | withdrawn |
| C3-195065 | BDT renegotiation upon the network conditions change | Ericsson | 29.554 | 0036 | - | Rel-16 | B | eNA | postponed |
| C3-195361 | Update of API version and TS version in OpenAPI file | Ericsson | 29.554 | 0037 | - | Rel-16 | F | TEI16 | agreed |

## Annex C: Lists of liaisons

### C1: Incoming liaison statements

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Original | Title | From | Decision | Reply TDoc |
| C3-195173 | S2-1907955 | Reply LS to LS on maximum value of MDBV | CT4 | noted | (none) |
| C3-195174 |  | LS on NID structure and length | CT4 | noted | (none) |
| C3-195175 |  | LS on Support of Network Address Translation in the User Plane function | CT4 | noted | (none) |
| C3-195176 |  | LS on Enhanced coverage restriction | CT4 | noted | (none) |
| C3-195177 | S2-1908635 | Reply LS on Nudr\_DM evolution | CT4 | noted | (none) |
| C3-195178 | C3-193429 / S2-1908665 | Reply LS on "SMF Event Exposure enhancement for service experience" | SA2 | postponed | (none) |
| C3-195179 | S2-1908667/C3-193643 | Reply LS on N6 routing information in AF acknowledgement | SA2 | postponed | (none) |
| C3-195180 |  | Reply LS on Nsmf\_EventExposure and Nnef\_EventExposure service handling of the "Downlink data delivery status" and "Availability after DDN Failure" events. | SA2 | postponed | (none) |
| C3-195181 |  | Reply LS on LS on maximum value of MDBV | SA2 | noted | (none) |
| C3-195182 | S3 193126/S2-1908714 | Reply LS on AUSF role in slice specific authentication | SA2 | noted | (none) |
| C3-195183 |  | LS on QoS mapping procedure | SA4 | postponed | (none) |
| C3-195195 | S2-1909959 / C4-194332 | Reply LS on NID structure and length | SA2 | noted | (none) |
| C3-195393 | S6-192318 | Reply LS (S6-192023) on clarifications regarding SEAL services | SA6 | revised | (none) |
| C3-195397 | S6-192318 | Reply LS (S6-192023) on clarifications regarding SEAL services | SA6 | noted | ???? |

### C2: Outgoing liaison statements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Document | Title | To | Cc | reply to i/c LS |
| C3-195129 | LS on transit failure code in TS 29.212 | CT4 | - |  |
| C3-195374 | LS on missing cause code mapping | CT4 | CT1 | - |
| C3-195440 | LS New AVP in 29.214 | CT4 | - | - |

## Annex D: List of agreed/approved new and revised Work Items

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Title | Source | new/revised |

## Annex E: List of draft Technical Specifications and Reports

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Spec | vers | Doc title |
| C3-195307 | 29.549 | 0.3.0 | TS 29.549 v0.3.0 |
| C3-195310 | 29.517 | 0.5.0 | TS 29.517 v0.5.0 |
| C3-195352 | 29.517 | 0.5.0 | TS 29.517 v0.5.0 |
| C3-195353 | 29.591 | 0.3.0 | TS 29.591 v0.3.0 |
| C3-195355 | 29.675 | 0.3.0 | TS 29.675 v0.3.0 |
| C3-195356 | 29.486 | 0.3.0 | TS 29.486 v0.3.0 |

## Annex F: List of action items

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Meeting/Number | Agenda item | Document | Details | Responsible | Due by |
| 107/1 | 3 | C3-195007 | Procedure for CT#86 Plenary:  1. Rapporteurs will implement the CRs agreed in the CTx meetings handled in the Plenary cycle in both main body and OpenAPI specification. Changes will be identified with the CR number. Rapporteurs will also generate the yaml file by using a proper text editor (e.g. NotePad++)  2. Rapporteurs will store by Wednesday 20th, 17:00 CET the updated TSs in a zip file that will contain the yaml file in the following directories:  a. CT3: ftp://ftp.3gpp.org/Email\_Discussions/CT3/CT86/Draft  b. CT4: ftp://ftp.3gpp.org/Email\_Discussions/CT4/CT86/Draft  Use EOL account to get access to the repository.  Rapporteurs will indicate in the CTx reflector when the file is available and will also upload the yaml files in ETSI Forge.  The stored version will also include corrections on the topics identified by the rapporteur in the implementation process.  3. All syntax errors identified by the rapporteur or any other delegate after the 3GPP meeting will be solved by bringing company CRs to the CT Plenary.  4. Rapporteurs will provide the updated TS version and yaml file by Wednesday 27th, 17:00 CET in the following directories:  a. CT3: ftp://ftp.3gpp.org/Email\_Discussions/CT3/CT86/Stable  b. CT4: ftp://ftp.3gpp.org/Email\_Discussions/CT4/CT86/Stable  5. After the Plenary, rapporteurs will prepare the final TS version, including yaml file, ensuring that all the approved CRs are implemented and will store them under:  a. ftp://ftp.3gpp.org/Email\_Discussions/CT3/CT86/Final  b. ftp://ftp.3gpp.org/Email\_Discussions/CT4/CT86/Final  6. MCC will ensure that all CRs are correctly implemented and will share the draft TSs by the end of the week after the Plenary. | All delegates | 2019-11-27 |
| 107/2 | 16.31 | C3-195346 | To make available. | Nokia | 2019-11-20 |
| 107/3 | 16.31 | C3-195346 | To review. | All delegates | 2019-11-22 |
| 107/4 | 16.31 | C3-195385 | To make available. | China Mobile | 2019-11-20 |
| 107/5 | 16.31 | C3-195385 | To review. | All delegates | 2019-11-22 |
| 107/6 | 16.31 | C3-195351 | To make available. | Samsung | 2019-11-20 |
| 107/7 | 16.31 | C3-195351 | To review. | All delegates | 2019-11-22 |
| 107/8 | 16.28 | C3-195307 | To make available. | Samsung | 2019-11-20 |
| 107/9 | 16.28 | C3-195307 | To review. | All delegates | 2019-11-22 |
| 107/10 | 16.5 | C3-195310 | To make available. | Huawei | 2019-11-20 |
| 107/11 | 16.5 | C3-195310 | To review. | All delegates | 2019-11-22 |
| 107/12 | 16.5 | C3-195353 | To make available. | Huawei | 2019-11-20 |
| 107/13 | 16.5 | C3-195353 | To review. | All delegates | 2019-11-22 |
| 107/14 | 16.17 | C3-195354 | To make available. | Ericsson | 2019-11-20 |
| 107/15 | 16.17 | C3-195354 | To review. | All delegates | 2019-11-22 |
| 107/16 | 16.17 | C3-195355 | To make available. | Ericsson | 2019-11-20 |
| 107/17 | 16.17 | C3-195355 | To review. | All delegates | 2019-11-22 |
| 107/18 | 16.25 | C3-195356 | To make available. | Huawei | 2019-11-20 |
| 107/19 | 16.25 | C3-195356 | To review. | All delegates | 2019-11-22 |
| 107/20 | 16.5 | C3-195364 | To make available. | Huawei | 2019-11-20 |
| 107/21 | 16.5 | C3-195364 | To review. | All delegates | 2019-11-22 |
| 107/22 | 15.18 | C3-195365 | To make available. | Samsung | 2019-11-20 |
| 107/23 | 15.18 | C3-195365 | To review. | All delegates | 2019-11-22 |

## Annex G: List of decisions

|  |  |  |  |
| --- | --- | --- | --- |
| Meeting/Number | Agenda item | Document | Details |
| 107/1 | 16.15 | C3-195015 | CT3 decided that all future CRs on OpenAPIs shall include the entire yaml file, not just the changed portions. |
| 107/2 | 16.22 | C3-195093 | The CRs in C3-194288, C3-194292, (and C3-195192) were merged into C3-195093. The first two of these, from meeting #106, would have their "agreed" status changed to "merged". |

## Annex H: List of participants

|  |  |  |
| --- | --- | --- |
| Name | Representing | Status (OP) |
| AGHILI, Behrouz | InterDigital France R&D, SAS | 3GPPMEMBER (ETSI) |
| AL-BAKRI, Ban | DOCOMO Communications Lab. | 3GPPMEMBER (ETSI) |
| ARREAGA, Arturo | Rogers Communications Canada | 3GPPMEMBER (ETSI) |
| ASKERUP, Anders | Hewlett-Packard Enterprise | 3GPPMEMBER (ETSI) |
| ATARIUS, Roozbeh | Motorola Mobility Germany GmbH | 3GPPMEMBER (ETSI) |
| AXELL, Jörgen | Ericsson-LG Co., LTD | 3GPPMEMBER (TTA) |
| BAKKER, John-Luc | BlackBerry UK Limited | 3GPPMEMBER (ETSI) |
| BIONDIC, Nevenka | Ericsson GmbH, Eurolab | 3GPPMEMBER (ETSI) |
| BRINKMANN, Horst | Nokia Poland | 3GPPMEMBER (ETSI) |
| BROSZEIT, Marco | Vodafone GmbH | 3GPPMEMBER (ETSI) |
| CHAPONNIERE, Lena | Qualcomm Incorporated | 3GPPMEMBER (ATIS) |
| CHITTURI, Suresh | Samsung Electronics Iberia SA | 3GPPMEMBER (ETSI) |
| DAWES, Peter | Vodafone Romania S.A. | 3GPPMEMBER (ETSI) |
| DOLAN, Michael | FirstNet | 3GPPMEMBER (ATIS) |
| DU, Xiaoning | China Mobile Group Device Co. | 3GPPMEMBER (CCSA) |
| EITOKU, haruka | NTT corporation | 3GPPMEMBER (ETSI) |
| FERNANDEZ, Susana | Ericsson LM | 3GPPMEMBER (ETSI) |
| GARCIA AZORERO, Fuencisla | Ericsson India Private Limited | 3GPPMEMBER (TSDSI) |
| GKATZIKIS, Lazaros | Nokia Hungary | 3GPPMEMBER (ETSI) |
| GULBANI, Giorgi | Huawei Technologies R&D UK | 3GPPMEMBER (ETSI) |
| GUPTA, Nishant | Samsung Electronics Co., Ltd | 3GPPMEMBER (TTA) |
| GUPTA, Varini | SAMSUNG R&D INSTITUTE JAPAN | 3GPPMEMBER (ARIB) |
| GUPTA, Vivek | Intel Russia A/O | 3GPPMEMBER (ETSI) |
| HERRERO-VERON, Christian | HUAWEI TECHNOLOGIES Co. Ltd. | 3GPPMEMBER (ETSI) |
| HIKOSAKA, Maoki | NTT DOCOMO INC. | 3GPPMEMBER (TTC) |
| HOLMSTRÖM, Tomas | Nanjing Ericsson Panda Com Ltd | 3GPPMEMBER (CCSA) |
| HUANG, Zhenning | China Mobile (Suzhou) Software | 3GPPMEMBER (CCSA) |
| INOUE, Yoshihiro | NTT | 3GPPMEMBER (TTC) |
| ISHIKAWA, Hiroshi | NTT DOCOMO INC. | 3GPPMEMBER (ARIB) |
| KIM, Hyesung | BEIJING SAMSUNG TELECOM R&D | 3GPPMEMBER (CCSA) |
| KISS, Krisztian | Apple Hungary Kft. | 3GPPMEMBER (ETSI) |
| KOZA, Yvette | T-Mobile Polska S.A. | 3GPPMEMBER (ETSI) |
| KREIPL, Michael | Telekom Deutschland GmbH | 3GPPMEMBER (ETSI) |
| KRISHAN, Rajiv | Oracle Corporation | 3GPPMEMBER (ETSI) |
| KRUSE, Heiko | IDEMIA | 3GPPMEMBER (ETSI) |
| LANDAIS, Bruno | Nokia France | 3GPPMEMBER (ETSI) |
| LAUSTER, Reinhard | Deutsche Telekom AG | 3GPPMEMBER (ETSI) |
| LAVASANI, Shahab | Huawei Technologies Sweden AB | 3GPPMEMBER (ETSI) |
| LAZARA, Dominic | Motorola Solutions Germany | 3GPPMEMBER (ETSI) |
| LEE, Jay | Verizon UK Ltd | 3GPPMEMBER (ETSI) |
| LEE, Jicheol | Harman GmbH | 3GPPMEMBER (ETSI) |
| LIU, Jennifer | Nokia Shanghai Bell | 3GPPMEMBER (CCSA) |
| LIU, Qingfen | HiSilicon Technologies Co. Ltd | 3GPPMEMBER (CCSA) |
| LOTFALLAH, Osama | Qualcomm Tech. Netherlands B.V | 3GPPMEMBER (ETSI) |
| LU, Fei | Nubia Technology Co.,Ltd | 3GPPMEMBER (CCSA) |
| LU, Yang | Vodafone Telekomünikasyon A.S. | 3GPPMEMBER (ETSI) |
| LUETZENKIRCHEN, Thomas | Intel Ireland | 3GPPMEMBER (ETSI) |
| LUKACS, Don | Perspecta Labs Inc. | 3GPPMEMBER (ATIS) |
| MANGION, Mathieu | ETSI | 3GPPORG\_REP (ETSI) |
| MCKIBBEN, Bernard | CableLabs | 3GPPMEMBER (ETSI) |
| MCNAMARA, Brian | Openet Telecom | 3GPPMEMBER (ETSI) |
| MELLIES, Renaud | Orange Spain | 3GPPMEMBER (ETSI) |
| MEREDITH, John M | ETSI | 3GPPORG\_REP (ETSI) |
| MLADIN, Catalina | Convida Wireless | 3GPPMEMBER (ETSI) |
| MOHAJERI, Shahram | AT&T GNS Belgium SPRL | 3GPPMEMBER (ETSI) |
| MONRAD, Atle | InterDigital Belgium. LLC | 3GPPMEMBER (ETSI) |
| MORAND, Lionel | Orange | 3GPPMEMBER (ETSI) |
| NEAL, Adrian | Vodafone Ireland Plc | 3GPPMEMBER (ETSI) |
| OPRESCU, Val | AT&T | 3GPPMEMBER (ATIS) |
| PATTAN, Basavaraj (Basu) | Samsung Electronics Nordic AB | 3GPPMEMBER (ETSI) |
| PRATURI, Upendra | Qualcomm India Pvt Ltd | 3GPPMEMBER (TSDSI) |
| RV, ANIKETHAN | Samsung Electronics Czech | 3GPPMEMBER (ETSI) |
| SAHIN, Yildirim | Charter Communications, Inc | 3GPPMEMBER (ATIS) |
| SEDLACEK, Ivo | Ericsson France S.A.S | 3GPPMEMBER (ETSI) |
| SHAH, Sapan | Samsung Electronics Benelux BV | 3GPPMEMBER (ETSI) |
| SHU, Lin | Huawei Device Co., Ltd | 3GPPMEMBER (CCSA) |
| SKROCKI, Mariusz | Orange Spain | 3GPPMEMBER (ETSI) |
| SOLOWAY, Alan | QUALCOMM JAPAN LLC. | 3GPPMEMBER (ARIB) |
| SONG, Yue | China Mobile E-Commerce Co. | 3GPPMEMBER (CCSA) |
| SRIVASTAVA, Vimal | Cisco Systems France | 3GPPMEMBER (ETSI) |
| SUH, Kyungjoo Grace | Samsung R&D Institute UK | 3GPPMEMBER (ETSI) |
| TAKAKURA, Tsuyoshi | NEC Corporation | 3GPPMEMBER (TTC) |
| TANGUDU, Narendranath Durga | Samsung Electronics France SA | 3GPPMEMBER (ETSI) |
| TIWARI, Kundan | Samsung R&D Institute India | 3GPPMEMBER (TSDSI) |
| VENKATARAMAN, Vijay | Apple Portugal | 3GPPMEMBER (ETSI) |
| VIRK, Amandeep | Qualcomm Austria RFFE GmbH | 3GPPMEMBER (ETSI) |
| WALLACE, Robert | Oracle Corporation | 3GPPMEMBER (ETSI) |
| WATFA, Mahmoud | QUALCOMM Europe Inc. - Italy | 3GPPMEMBER (ETSI) |
| WEAVER, Farni | SPRINT Corporation | 3GPPMEMBER (ETSI) |
| WIEHE, Ulrich | Nokia Germany | 3GPPMEMBER (ETSI) |
| WILD, Peter A. | Vodafone España SA | 3GPPMEMBER (ETSI) |
| WON, Sung Hwan | Nokia Korea | 3GPPMEMBER (TTA) |
| XU, Wenliang | Ericsson Japan K.K. | 3GPPMEMBER (ARIB) |
| YAMAKITA, Takayuki | Oki Electric Industry Co. Ltd. | 3GPPMEMBER (TTC) |
| YAN, Xiaojian | ZXNE | 3GPPMEMBER (CCSA) |
| ZHANG, Ling | CATT | 3GPPMEMBER (CCSA) |
| ZHOU, Xiaoyun | HuaWei Technologies Co., Ltd | 3GPPMEMBER (CCSA) |

## Annex I: List of future meetings

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Title | Start date | End date (OP) | Town | Country | Reference |
| CT3-Potential Ad-Hoc | 2020-01-13 | 2020-01-17 | TBD |  | C3-ah-36255 |
| CT3#108 | 2020-02-24 | 2020-02-28 | Sophia Antipolis | FR | C3-108 |
| CT3#109 | 2020-04-20 | 2020-04-24 | Dubrovnik | HR | C3-109 |
| CT3#110 | 2020-05-25 | 2020-05-29 | TBD |  | C3-110 |
| CT3-Potential Ad-Hoc | 2020-07-13 | 2020-07-17 | TBD |  | C3-ah-36271 |
| CT3#111 | 2020-08-24 | 2020-08-28 | TBD |  | C3-111 |
| CT3#112 | 2020-10-12 | 2020-10-16 | TBD |  | C3-112 |
| CT3#113 | 2020-11-16 | 2020-11-20 | TBD |  | C3-113 |

Report prepared by: John M Meredith