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

**Meeting Report  
for  
TSG CT WG3  
meeting: 112e**

**e-meeting, e-meeting, 2020-11-04 to 2020-11-13**

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## 1 Opening of the meeting

## 2 Agenda/Schedule

**C3-205016 Way of Working for CT3#112e Electronic Meeting**

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

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

### 2.1 Approval of the agenda

**C3-205000 Draft Agenda for the CT3#112 e-Meeting**

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

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

### 2.2 Proposed Schedule

**C3-205001 INFO Proposed Schedule for CT3#112e**

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

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

## 3 Registration of documents

**C3-205002 Allocation of documents to agenda items (at Deadline)**

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

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

**C3-205003 Allocation of documents to agenda items (Start of Day 1)**

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

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

**C3-205004 Allocation of documents to agenda items (Start of Day 2)**

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

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

**C3-205005 Allocation of documents to agenda items (Start of Day 3)**

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

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

**C3-205006 Allocation of documents to agenda items (Start of Day 4)**

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

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

**C3-205007 Allocation of documents to agenda items (Start of Day 5)**

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

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

**C3-205008 Allocation of documents to agenda items (Start of Day 6)**

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

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

**C3-205009 Allocation of documents to agenda items (Start of Day 7)**

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

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

**C3-205010 Allocation of documents to agenda items (Start of Day 8)**

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

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

**C3-205011 Allocation of documents to agenda items (End of Day 8)**

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

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

**C3-205364 Allocation of documents to agenda items (after email approval)**

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

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

## 4 Reports

### 4.1 Report from previous CT3 meeting

**C3-205013 Minutes of CT3#111e**

*Type: report For: Approval  
 Source: MCC*

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

### 4.2 Report from previous CT plenary

**C3-205095 Summary of CT#89e related to CT3**

*Type: report For: Approval  
 Source: CT3 chairman*

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

### 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

### 5.4 Other items for immediate consideration

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.

## 6 Received Liaison Statements

**C3-205017 LS on the stage 2 aspects of MINT**

*Type: LS in For: Discussion  
 Original outgoing LS: -, to TSG SA, cc TSG CT, SA2, SA3, CT3, CT4  
 Source: CT1*

**Discussion:**

Action proposed by Chair:

CT3 is copied and no specific action is required till the normative work is ready. Note the LS.

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

**C3-205018 LS on Media Feature Tag for IMS Data Channel**

*Type: LS in For: Discussion  
 Original outgoing LS: -, to CT3, SA4, cc SA2  
 Source: CT1*

**Discussion:**

Action proposed by Chair:

CT3 received the SA4 LS (C3-204021) and sent own LS reply to SA4 in C3-204168. The LS can be noted.

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

**C3-205019 LS on Event Configuration Synchronization between 4G&5G**

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

**Discussion:**

Action proposed by Chair:

CT3 is copied. No identified impact in CT3. The LS can be noted.

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

**C3-205020 LS on information of stage 3 aspects for AKMA**

*Type: LS in For: Discussion  
 Original outgoing LS: -, to TSG SA, SA WG3, cc CT WG1, CT WG3, CT WG4, CT WG6  
 Source: CT*

**Discussion:**

Action proposed by Chair:

CT3 is copied. CT3 will work according to the WID scope in Release 17. The LS can be noted.

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

**C3-205021 LS Reply on clarification on TSN for Vertical\_LAN**

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

**Discussion:**

SA2 has updated TS 23.503 based on the request from CT3.

Action proposed by Chair:

Check if there are CRs to cover these changes.

Nokia: SA2 included the CT3 request in 23.503. There is no further AI for CT3, because the requirement was specified in 29.521 already. Therefore, the LS can be noted.

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

**C3-205022 LS Response on Bulk operation of LCS-service**

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

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

**C3-205023 Reply LS on Key Management procedure in SEAL**

*Type: LS in For: Discussion  
 Original outgoing LS: -, to CT3, cc SA6, CT1  
 Source: SA3*

**Discussion:**

Action proposed by Chair:

Ask CT3 if any immediate action can be taken or updates in SA3 specifications are needed first.

No foreseen impacts in CT3.

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

**C3-205024 Reply LS on Reply PAP/CHAP and other point-to-point protocols usage in 5GS**

*Type: LS in For: Discussion  
 Original outgoing LS: -, to SA2, CT1, CT3, cc CT4  
 Source: SA3*

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

**C3-205025 LS on New function for Network Slice PA and Management Charging**

*Type: LS in For: Discussion  
 Original outgoing LS: -, to SA2, cc CT3  
 Source: SA5*

**Discussion:**

Nokia: this is from SA5 point of view fine. What is the current SA2 status (CT3 is in cc)?

There are CRs in this CT3 meeting. CT3 would be aligned with SA2. No need to reply SA5.

Huawei: SA2 agreed the CR as S2-2008015 in SA2#114E meeting, to define CEF as one consumer of NWDAF services.

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

**C3-205026 Reply LS on the stage 2 aspects of MINT**

*Type: LS in For: Discussion  
 Original outgoing LS: -, to CT1, cc TSG CT, SA2, SA3, CT3, CT4  
 Source: SA*

**Discussion:**

Action proposed by Chair:

CT3 is copied and no specific action is required till the normative work is ready. Note the LS.

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

**C3-205029 LS on Completion of WT-456 and WT-470**

*Type: LS in For: Discussion  
 Original outgoing LS: -, to BBF, cc CableLabs, CT WG1, CT WG3, CT WG4  
 Source: SA2*

**Discussion:**

Action proposed by Chair:

CT3 is copied. No additions should be expected in the context of Release 16. No action required. Note the LS.

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

**C3-205030 Reply LS on 'Event Configuration Synchronization between 4G&5G'**

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

**Discussion:**

Action proposed by Chair:

CT3 is copied. No impacts foreseen in CT3. Note the LS.

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

**C3-205031 LS Response on Bulk operation of LCS-service**

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

**Discussion:**

There could be impacts based on further analysis. No CRs in this meeting.

Offline discussions to see if an LS to SA2 is required for possibly identified mistakes.

Huawei: As a follow up to my comment during today’s conf. call on this reply LS from SA2, please find below a summary of my point:

- In the answer to point 4, SA2 states that “This will be reported in a Nnef\_Location\_EventNotify towards NEF or LCS Service Response towards LCS Client”. This is in our view not the correct service operation used in this case, it is rather the Nnef\_EventExposure\_Notify service operation.

- The related SA2 agreed CR in attachment (i.e. S2-2008230) also contains the same mistake in clause 6.8, steps 6b-2 and 11b-2 of the description part below the figure, whereas the correct service operation is used for the same steps in the associated Figure 6.8.1. This needs to be corrected.

- Now there are 2 possibilities, either send a reply LS to SA2 to point out this issue to them or do it via a revision or a company CR in the next SA2 meeting or SA plenary. I am fine with both approaches and would be happy to draft the LS reply in case the first option is preferred.

CRs will be sent directly to SA2.

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

**C3-205085 Reply LS on clarification on using PAP/CHAP for 5GS**

*Type: LS in For: Discussion  
 Original outgoing LS: C1-206650, to CT3, cc CT4  
 Source: CT1*

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

**C3-205086 LS on APIs in EDGEAPP**

*Type: LS in For: Discussion  
 Original outgoing LS: S6-202009, to CT1, CT3, cc CT4  
 Source: SA6*

**Discussion:**

Action proposed by Chair:

Analyse the approach from SA6 and discuss a possible answer. See C3-205335 & C3-205344.

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

**C3-205335 Reply to LS on APIs in EDGEAPP**

*Type: LS out For: Approval  
 to SA6, cc CT1, CT4  
 Source: Samsung Electronics Iberia SA*

**Discussion:**

Work offline on the addressed comments.

Qualcomm:

Based on the discussion yesterday, I find it reasonable that CT3 doesn’t ask about the reasoning for the design choice, given EDGE-1/4 will have no CT3 impact.

There still remains one question that I asked yesterday which would be very nice to have more details on: what exactly is meant by unifying services? There is one example given to unify EEC and EAS discovery, but it this opens many more questions as to how and why would these services be unified? In my opinion, a wrong choice of “unifying” a service could be very problematic for stage-3 work, especially also if it badly impacts CT1/3 work split. I think if CT3 has more and concrete information on what SA6 would like to attempt with unification of services, CT3 with quite some experience in defining SBIs would be able to provide concrete and constructive feedback on this issue. So a proposed concrete question would be:

CT3 would like to understand exactly which APIs could be modelled as unified service and which service consumers are served by such APIs? Based on this information, CT3 would be able to provide concrete feedback on the design choice.

I think answering this question does not slow down SA6 work in any way; on the contrary it would be helpful to CT1/3 and SA6.

Huawei: agrees with the proposed question sent to SA6.

Ericsson: Basically, the API based design should not limit what \*client\* should be served. It doesn’t matter whether it is a client in the UE or a client in the network.

In the past (e.g. SEAL), SA6 didn’t include a client in the UE as service consumer. This already cause issues (see below discussion paper in this meeting), i.e. different CT groups specified different protocols for the same service provided by the SEAL server.

In the LS sent from SA6, for EDGE-1/4, the ECS/EES should be able to provide API for EEC.

In addition, for certain APIs with multiple consumers, e.g. EAS discovery, CT groups are expected to produce unified API.

Of course, SA6 should make it clear in TS 23.558. Hope it clarifies.

Huawei: The protocol selection and definition of EDGE-1/EDGE-4 are under CT1’s responsibility, my understanding is that CT1 will reply SA6’s LS in next CT1 meeting.

I don’t see any reason that CT3 should ask any question and give any reply to SA6 on EDGE-1/EDGE-4 interfaces, on behalf of CT1.

I don’t understand why stage 2 already decided the protocol selection for stage 3 implementation either, since the detailed protocol selection is always up to stage 3 as I know, for example, we study on analytics and selection on 5GC interface protocol at the beginning of 5G WI in Rel-15 even SA2 already specifies service based architecture.

I agree with Qualcomm’s question from CT3’s point of view, if we still don’t fully understand stage 2 requirement which EDGE interfaces could be modelled as unified service either, we should ask stage 2 for further clarification firstly. Then, we can decide which protocol is most suitable for stage 3 design of EDGE interfaces under CT3’s scope.

Qualcomm to Ericsson: how you explained in the following does make sense, however the sentence in LS itself is not clear as such “Also note that some APIs (e.g. EAS discovery) may be modelled as unified service which serves multiple consumers (e.g. EEC and EAS)”, so it is worthwhile to ask and get clarification what SA6 exactly means by unification of services so that we have a common understanding.

Samsung: To our understanding, the intent of unifying API is to ensure that the applicable services with multiple consumers have unified API definition, and not the unification of interfaces. Currently, “EAS Discovery” and “Target EAS Discovery” are the services defined by SA6, where both EEC and EAS are the API consumers and single API suffices. Both the EEC and EAS perform EAS discovery for different purposes. EEC performs EAS discovery to enable Application Client to establish communication with the EAS, while EAS does it to find target EAS in case of service continuity scenarios. Since both the operations are to obtain EAS information from EES, there were discussions in SA6 to reuse the same EES functionality/API towards both EEC and the EAS. Hence the probable need for a uniform API towards both EEC and EAS. As this unification is still under discussion in SA6, SA6 mentioned a probable need for unified API model.

Got this background from our SA6 delegate. Ericsson, please add if something is missing. Not sure, in response to our question, SA6 will have additional information than what is clarified by here.

Qualcomm: the advantage of sending the question related to this ambiguity is that the question will be discussed with the whole group instead of individual delegates discussing this, which will lead to better clarity and uniformity of understanding in both SA6 and CT3.

Samsung: I am fine if you need more clarification from SA6. Please find the revision updated with the highlighted text below.

CT3 would like to understand exactly which APIs could be modelled as unified service and which service consumers are served by such APIs? Based on this information, CT3 would be able to provide concrete feedback on the unification of the APIs.

This TDOC is revised to C3-205439. Final version will be uploaded without revision marks after we agree on the LS response text.

Let me know.

Qualcomm is fine with this LS version.

Samsung asks for Ericsson & Huawei’s opinion.

Huawei: In the 1st sentence of 2nd para., the reference points towards the EEC are EDGE-1/4 based on the architecture of 23.558, right? Which should be out of CT3’s scope.

I would suggest to remove ‘CT3 noted that the reference points towards the Edge Enabler Client shall be exposed as APIs. CT3 would like to inform SA6 that wherever applicable, CT3 will consider unifying the definition of APIs that are exposed for multiple consumers and any coordination with other working groups.’, since it’s already mentioned that ‘CT3 would be able to provide concrete feedback on the unification of the APIs’ when receives reply LS from SA6.

Samsung will make a revision.

Samsung: As discussed in the conference call, the first sentence simply states that CT3 does not see any issue in defining edge-1 and EDGE-4 APIs from CT3 point of view. Detailed feedback can be provided by CT1 in their response. Also, if we seek clarification on unification of the APIs, CT3 first needs to acknowledge that the APIs can be on EDGE-1 and edge-4. Is the below proposal, removing the second sentence, ok?

CT3 would like to thank SA6 for sending the “LS on APIs for EDGEAPP” in S6-202009 (C3-205086).

CT3 noted that the reference points towards the Edge Enabler Client shall be exposed as APIs. CT3 would like to inform SA6 that wherever applicable, CT3 will consider unifying the definition of APIs that are exposed for multiple consumers and any coordination with other working groups. CT3 would like to understand exactly which APIs could be modelled as unified service and which service consumers are served by such APIs? Based on this information, CT3 would be able to provide concrete feedback on the unification of the APIs.

Huawei: I disagree with keeping the sentence “CT3 noted that the reference points towards the Edge Enabler Client shall be exposed as APIs.”. to mention that CT3 does not see any issue in the EDGE interfaces from CT3 point of view, which are actually under CT1 scope.

That’s true SA6 send the LS to inform CT1 and CT3 about the API decision, but it’s up to CT1/CT3 to final decide whether it’s suitable and how to implement for stage 3 implementation. As I said, similar as 5G WI, SA2 doesn’t touch the protocol decision but stage 3.

And as I know, CT1 doesn’t take any CT3 decision on our EDGE interfaces, why we makes CT1’s decision or reply on behalf of CT1?

Ericsson: I see Samsung’s point and it makes sense to just mention CT3 \*noted\* the API serving consumer EEC.

We just acknowledge what SA6 decided and CT1 still has the chance to question SA6 decision about SBI design vs. interface design.

Note that SA2 also mentioned “service API” or “API” in 23.501 & 23.502. But SA2 doesn’t make any recommendation for the protocol selection. In fact, stage 3 can choose what protocol suits best for service API design. CT3 & CT4 discussed a lot in the past for 5GC API.

Here SA6 in the LS doesn’t mention any protocol either.

If CT1 & CT3 need to work together to come up with a full set of EDGEAPP APIs, of course, both groups need to have aligned view in selection of protocol and serialization format, just like what CT3 and CT4 did in the past. SA5 also adopt such protocol practice in designing the stage 3 charging API.

Therefore, it is fine to keep such sentence.

Huawei: According to working group responsibilities, CT3 are not in the position on making decision on EDGE-1 or EDGE-4 period. Why CT3 reply LS mentioned the information which is actually sent to CT1. CT1 will reply SA6 by themselves. Right?

I will not change my mind to remove the sentence and follow the principle that we should only focus on CT3 scope. We all agreed about that during the first day conference call.

SA6 would like to know CT1's and CT3's opinion on whether the decision or requirement is suitable or clear enough, especially in current stage, the requirement is still unstable and not normative.

I am fine with both following two solutions:

1. Not send the LS to SA6 since CT3 just obey SA6’s decision

2. Send the LS but remove the sentence I indicated.

I fully know you want all CT group obey SA6’s decision due to you attend SA6, but we should keep CT3’s working responsibility clearly in our mind when attending CT3. It’s not CT3’s job on EDGE-1 or EDGE-4.

If you want to reply SA6 on behalf of CT1, please go to CT1 for further discussion.

Samsung: The intent of the first sentence is to just acknowledge SA6. We are not providing any technical feedback on EDGE-1/4, which as you mentioned and we agreed in opening call, is in CT1’s purview to discuss and respond. As per text from SA6 LS, both CT1 and CT3 are addressed and requested for feedback. Hence, the first sentence. However, If you still think it is not needed, to make progress, we are ok with the following, if the group agrees to.

CT3 would like to thank SA6 for sending the “LS on APIs for EDGEAPP” in S6-202009 (C3-205086).

CT3 would like to understand exactly which APIs could be modelled as unified service and which service consumers are served by such APIs? Based on this information, CT3 would be able to provide concrete feedback on the unification of the APIs.

Huawei is fine with the proposal.

**Decision:** The document was **revised to C3-205439**.

**C3-205344 Draft Reply LS on APIs in EDGEAPP**

*Type: LS out For: Approval  
 to SA6, cc CT1  
 Source: Qualcomm Incorporated*

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

**C3-205391 Alignment of API Versioning System with Semantic Versioning**

*Type: LS in For: Discussion  
 Original outgoing LS: C4-205484, to SA5, CT3, cc -  
 Source: CT4*

**Discussion:**

At CT4#101e meeting, CT4 agreed the attached CR#0094 to 3GPP TS 29.501, related to the API versioning system used by the 5GC SBA APIs.

This change is motivated after CT4 became aware of several misalignments between the versioning system described in 3GPP TS 29.501 and the syntax (ABNF) defined in the Semantic Versioning Specification (https://semver.org).

In short, the change affects 3GPP WGs mainly in the naming of the pre-release versions, which should follow the syntax:

"x.y.z-alpha.n"

with <n> being an integer incremented after each API increment during the pre-release phase.

Note that the current syntax in 3GPP TS 29.501 differs from this new syntax in the placement of the "-" and "." characters.

CT4 asks CT3 and SA5 groups to take into account the agreed changes in the attached CR and apply them during the development of SBA APIs from Release-17 onwards.

Action proposed by Chair:

Ask rapporteurs to update the APIs accordingly for APIs impacted/new in Release 17

Rapporteurs will bring CRs for next meeting for existing APIs for Release 17.

New APIs being defined in this meeting will already include the new version format.

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

**C3-205439 Reply to LS on APIs in EDGEAPP**

*Type: LS out For: Approval  
 to SA6, cc CT1, CT4  
 Source: Samsung Electronics Iberia SA*

(Replaces C3-205335)

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

**C3-205495 Reply LS on support of stateless NFs**

*Type: LS in For: Discussion  
 Original outgoing LS: C4-205487, to CT3, cc SA5  
 Source: CT4*

**Discussion:**

To be discussed in the conference.

Ericsson:

As per the LS reply from CT4 the CRs are impacted as follows:

- Based on the replies to change of NF service consumer:

o CT4 answer to Q1

As an add-on implementation option and when supported by the corresponding API, if the NF service consumer does not support handling the notifications as described above, when the NF service consumer changes, the new NF service consumer should update NF service producers with the new Notification URI.

I’ll remove any update in the service APIs to support the update of the notification URI by the NFsc, if applied and not supported previously

- Based on the replies to change of NF service producer:

o CT4 answer to Q1

Most APIs do not support sending a notification request including a new (subscription) resource URI, and the above mechanisms were deemed sufficient. Accordingly, this option was removed from clause 6.5.3.3 of TS 29.500.

I’ll remove any update in the service APIs to support the update of the provided (subscription) resource URI with a new (subscription) resource URI.

o CT4 answer to Q4

I’ll keep the definition of 307/308 errors as proposed in the submitted CRs.

Please, let me know if you have a major objection to these proposed main lines above.

The CRs will be updated accordingly and shared during this afternoon for your detailed check and further comments.

Offline discussions. In principle there is enough information to proceed with the CRs.

Huawei: Ok with the first two aspects. For the last one: The only change maybe is to use the “ProblemDetails” data type as an optional body content of the 3xx responses. This is also what CT4 is doing (cf. C4-205123/5124, 5153/5154, etc.) and is related to SCP to SCP redirections.

Also, CT4 defines a new feature to control the support of 3xx responses in their related CRs. We should maybe do the same to be consistent.

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

**C3-205559 LS on Support of L2TP on SGi/N6 with Control and User Plane Separation**

*Type: LS in For: Discussion  
 Original outgoing LS: C4-205478, to SA2, cc SA3, CT3  
 Source: CT4*

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

### 8.1 Release 8 IMS/CS Work Items

### 8.2 Release 8 Packet Core Work Items

### 9.1 Release 9 IMS/CS Work Items

### 9.2 Release 9 Packet Core Work Items

### 10.1 Release 10 IMS/CS Work Items

### 10.2 Release 10 Packet Core Work Items

### 11.1 Release 11 IMS/CS Work Items

### 11.2 Release 11 Packet Core Work Items

### 12.1 Release 12 IMS/CS Work Items

### 12.2 Release 12 Packet Core Work Items

### 13.1 Release 13 IMS/CS Work Items

### 13.2 Release 13 Packet Core Work Items

### 14.1 Release 14 IMS/CS Work Items

### 14.2 Release 14 Packet Core Work Items

### 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]

**C3-205357 Discussion on Immediate report of PRA**

*Type: discussion For: Discussion  
 Source: China Mobile Communications Group Co.,Ltd.*

**Discussion:**

CP-183243 (CT1 leading)

There are CRs for Rel-15 in N7 in this meeting.

If CT4 allows to have this information available at subscription, it is ok to support PRA immediate report in Release 15.

Check CT4 TSs.

ZTE:

For N15 interface, we have following CRs on TS 29.507/29.525 rel-17 related to this issue:

- C3-204296/4297 to support the report of initial presence status for PRA.

Note that whenever the PRA\_CH trigger is provisoned, in Create response/Update response/UpdateNotify request, the initial presence status should be reported via Update request.

- C3-205472/5473 to support immediate report for location related triggers (e.g. LOC\_CH, ACCESS\_TYPE\_CH)

Different than PRA status, user location and access type shall be provided when available at Policy association creation, but if the PCRT is not provided immediately the location may have changed at the moment the trigger is provisioned. Therefore, these CRs to support reporting current value for user location via Update request when the PCRT is provided in Update response/UpdateNotify request. Note that when the PCRT is provided in Create response, the current value report is not required.

- C3-205474/5475 to support immediate report in UpdateNotify response

200 OK controlled by a new added feature is added for UpdateNotify response, when PRA\_CH, LOC\_CH or ACESS\_TYPE\_CH is provided UpdateNotify request, the current value is reported immediately in response.

In my point of view, PRA initial report could be supported from Rel-15 as an essential correction, that is , C3-204296/4297 apply to Rel-15 and Rel-16. But the rest C3-205472/5473 and C3-205474/5475 that are considered as enhancement, are not appropriate for Rel-15 and Rel-16.

Ericsson: For N7 interface, 5120 includes this text in the description of the PRA\_CH: “This report includes reporting the initial status at the time the request for reports is initiated”. Which would cover the request presented in the DP. Honestly, I did not consider this change an essential correction, but a clarification that we could add within the CR.

About the end to end support, my reading of Namf\_EventExposure (29.518 v15.8.0, 5.3.1) is that it is supported the report of the current presence status at subscription time. For other location events than PRA changes, the description of the subscription with Namf\_EventExposure provides the same support: at the time the SMF performs the subscription, the SMF receives the current value.

The Immediate Report Flag enables it.

For the N15 interface: my interpretation was that it was unspecified whether the AMF, at PCF subscription of PRA changes, returns the current presence state, but that most implementations would do it (because of reuse of code/logic developed for EventExposure specified behavior and the experience with Gx interface).

That’s also the reason why I considered that the specification for N15 for PRA report of the initial status or current location/access type, etc., was more a clarification than a correction and was enough for Rel-17. But if there are multiple interpretations and interoperability problems, then this decision should be revisited.

CT3 agrees to provide the PRA status in the reply from Release 15. ZTE will provide CRs in this meeting.

Add CMCC as cosigner.

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

#### 15.2.1 Technical Report (TR 29.890)

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

**C3-205590 report initial presence status for PRA**

*Type: CR For: Agreement  
 29.507 v15.7.0 CR-0146 Cat: F (Rel-15)  
  
 Source: ZTE, China Mobile*

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

**C3-205591 report initial presence status for PRA**

*Type: CR For: Agreement  
 29.507 v16.5.0 CR-0147 Cat: A (Rel-16)  
  
 Source: ZTE, China Mobile*

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

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

**C3-205197 Corrections on resourceURI**

*Type: CR For: Agreement  
 29.508 v15.7.0 CR-0108 Cat: F (Rel-15)  
  
 Source: ZTE*

**Decision:** The document was **revised to C3-205459**.

**C3-205198 Corrections on resourceURI**

*Type: CR For: Agreement  
 29.508 v16.5.0 CR-0109 Cat: A (Rel-16)  
  
 Source: ZTE*

**Decision:** The document was **revised to C3-205460**.

**C3-205199 Corrections on resourceURI**

*Type: CR For: Agreement  
 29.508 v17.0.0 CR-0110 Cat: A (Rel-17)  
  
 Source: ZTE*

**Decision:** The document was **revised to C3-205461**.

**C3-205459 Corrections on resourceURI**

*Type: CR For: Agreement  
 29.508 v15.7.0 CR-0108 rev 1 Cat: F (Rel-15)  
  
 Source: ZTE*

(Replaces C3-205197)

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

**C3-205460 Corrections on resourceURI**

*Type: CR For: Agreement  
 29.508 v16.5.0 CR-0109 rev 1 Cat: A (Rel-16)  
  
 Source: ZTE*

(Replaces C3-205198)

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

**C3-205461 Corrections on resourceURI**

*Type: CR For: Agreement  
 29.508 v17.0.0 CR-0110 rev 1 Cat: A (Rel-17)  
  
 Source: ZTE*

(Replaces C3-205199)

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

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

**C3-205108 Correction to modification of dynamic PCC rules**

*Type: CR For: Agreement  
 29.512 v15.8.0 CR-0589 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Discussion:**

CP-183243 (CT1 leading)

Huawei: Please find my following comments below.

1) As specified in current text, “If the PCF needs to modify the attribute(s) within a PCC rule, the PCF shall include the modified attributes(s) with the new value(s) within the PccRule data instance. Previously supplied attributes not supplied in the modified PCC rule instance shall remain valid." So we shall not change the principle already agreed

2) Although it is not aligned with stage 2 requirement, we don't see any interoperability issue.

Ericsson: On 1) the proposal specifies a procedure that would simplify the update logic in the SMF, by replacing the whole PCC rule information. The same occurred with Gx and the update of the PCC rule, with the same exception for conditioned rules

On 2) if there are implementations reusing the Gx logic which might experience some interoperability issue if they decided to follow the stage 2 requirement even if not specified by stage 3. It seems as if it is a requirement that we overlooked more than intentionally specified behavior.

Huawei: I remember we defined such kind of procedure for GX interface because the can’t PCF removes the activation time and deactivation time via Diameter protocol. Now PCF can remove the activation time and deactivation by setting the attribute to NULL. That’s the reason we decided not to define the same procedure as Gx interface. So I think reusing Gx logic is a not strong argument to change the decision in Rel-15.

Ericsson: The req comes from stage 2, inherited from 23.203, and refers to modification of activation and/or deactivation time.

When modifying a dynamic PCC rule by setting, modifying or clearing its deferred activation and/or deactivation time or by changing any other attribute of a PCC rule having a deferred activation and/or deactivation time, the PCF shall provide all attributes of that PCC rule, including attributes that have not changed.

NOTE 2: In this case, the PCF omission of an attribute that has a prior value will erase that attribute from the rule.

Which was implemented by Gx (29.212, 4.5.13):

The PCRF may modify a currently installed PCC rule, including setting, modifying or clearing its deferred activation and/or deactivation time. When modifying a dynamic PCC rule with a prior and/or new deferred activation and/or deactivation time, the PCRF shall provide all attributes of that rule in the Charging-Rule-Definition AVP, including attributes that have not changed.

NOTE 4: In this case, the PCRF omission of an attribute that has a prior value will erase that attribute from the PCC rule.

And, note that the removal of conditions imply that the rule starts to apply at that moment. So, if further partial changes in the PCC rule accompany to this removal it creates clear uncertainties about the info to consider for the modification of the QoS flow in relation to the currently active PCC rule.

Huawei: Could you please point out the issue in the current procedure? Why do you think it can’t support the installation and modification of PCC rule with the activation time and deactivation?

Ericsson: My understanding is that a QoS flow is modified by updating the parameters corresponding to the changed PCC rule parameters.

If a conditioned PCC rule stops being conditioned by configuration (e.g. stops being to be applied in the future to be applied right now), and is bound to an existing QoS flow, the QoS flow update would need to consider the whole PCC rule.

If at the same time that the PCC rule stops being conditioned some PCC rule attributes need to be replaced (instead of replacing the whole rule), there is a double processing/checking in the SMF prone to errors that can be avoided.

Huawei: What you describe blow is an implementation issue absolutely. E.g. The SMF can update the PCC rule based on the current solution internally and then enforce the PCC rule.

Ericsson: Yes, it is an implementation issue inherited from Gx and required by 23.503.

If we don’t apply the change from Rel-15 I foresee that there will be implementation problems because of the inconsistency we’re creating with regards existing Gx deployments and SA2 requirements. It was much more straight forward. At least I tried it.

Would it be ok to include it from Rel-16 on with feature control?

Huawei: An implementation issue is not FASMO. But if we change it from 16, it would be inconsistent between rel-15 and rel-16. I think it would be worse.

Ericsson: It is PCC behavior overlooked for Rel-15, unspecified, that contradicts requirements from SA2, which were brought for consistency with previous releases. It is a “hole” in the specification.

I’d also like to think it will not create frequent and serious mis-operations. But it will.

A feature support at least would make everyone aware of what it is in, what is not in, and why.

It is a reasonable trade off to unblock this blocked discussion, don’t you think so?

Huawei: We have agreed in rel-15 that previously supplied attributes not supplied in the modified PCC rule instance shall remain valid. Modification of the PCC rule referring to a condition data is not specified especially that all the attributes including attributes that have not changed shall be provisioned. If we agree to change it, we will have two different logic in the PCF for PCC rule modification.

Ericsson: If it is the only trade off we can find, I’d accept it.

Subject to (optional) feature control.

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

**C3-205109 Correction to modification of dynamic PCC rules**

*Type: CR For: Agreement  
 29.512 v16.6.0 CR-0590 Cat: A (Rel-16)  
  
 Source: Ericsson*

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

**C3-205110 Correction to modification of dynamic PCC rules**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0591 Cat: A (Rel-17)  
  
 Source: Ericsson*

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

**C3-205111 Correction to policy based on revalidation time**

*Type: CR For: Agreement  
 29.512 v15.8.0 CR-0592 Cat: F (Rel-15)  
  
 Source: Ericsson*

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

**C3-205112 Correction to policy based on revalidation time**

*Type: CR For: Agreement  
 29.512 v16.6.0 CR-0593 Cat: A (Rel-16)  
  
 Source: Ericsson*

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

**C3-205113 Correction to policy based on revalidation time**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0594 Cat: A (Rel-17)  
  
 Source: Ericsson*

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

**C3-205114 Correction to session rule**

*Type: CR For: Agreement  
 29.512 v15.8.0 CR-0595 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205508**.

**C3-205115 Correction to session rule**

*Type: CR For: Agreement  
 29.512 v16.6.0 CR-0596 Cat: A (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205509**.

**C3-205116 Correction to session rule**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0597 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205510**.

**C3-205117 Correction to usage monitoring control**

*Type: CR For: Agreement  
 29.512 v15.8.0 CR-0598 Cat: F (Rel-15)  
  
 Source: Ericsson*

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

**C3-205118 Correction to usage monitoring control**

*Type: CR For: Agreement  
 29.512 v16.6.0 CR-0599 Cat: A (Rel-16)  
  
 Source: Ericsson*

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

**C3-205119 Correction to usage monitoring control**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0600 Cat: A (Rel-17)  
  
 Source: Ericsson*

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

**C3-205120 Correction to PRA**

*Type: CR For: Agreement  
 29.512 v15.8.0 CR-0601 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205511**.

**C3-205136 Correction to usage report during the policy association termination**

*Type: CR For: Agreement  
 29.512 v15.8.0 CR-0608 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205445**.

**C3-205137 Correction to usage report during the policy association termination**

*Type: CR For: Agreement  
 29.512 v16.6.0 CR-0609 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205446**.

**C3-205138 Correction to usage report during the policy association termination**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0610 Cat: A (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205447**.

**C3-205445 Correction to usage report during the policy association termination**

*Type: CR For: Agreement  
 29.512 v15.8.0 CR-0608 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces C3-205136)

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

**C3-205446 Correction to usage report during the policy association termination**

*Type: CR For: Agreement  
 29.512 v16.6.0 CR-0609 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces C3-205137)

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

**C3-205447 Correction to usage report during the policy association termination**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0610 rev 1 Cat: A (Rel-17)  
  
 Source: Huawei*

(Replaces C3-205138)

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

**C3-205508 Correction to session rule**

*Type: CR For: Agreement  
 29.512 v15.8.0 CR-0595 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson*

(Replaces C3-205114)

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

**C3-205509 Correction to session rule**

*Type: CR For: Agreement  
 29.512 v16.6.0 CR-0596 rev 1 Cat: A (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-205115)

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

**C3-205510 Correction to session rule**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0597 rev 1 Cat: A (Rel-17)  
  
 Source: Ericsson*

(Replaces C3-205116)

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

**C3-205511 Correction to PRA**

*Type: CR For: Agreement  
 29.512 v15.8.0 CR-0601 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson, China Mobile Com. Corporation*

(Replaces C3-205120)

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

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

**C3-205139 Correction to ACCESS\_TYPE\_CHANGE**

*Type: CR For: Agreement  
 29.514 v15.7.0 CR-0264 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**C3-205140 Correction to ACCESS\_TYPE\_CHANGE**

*Type: CR For: Agreement  
 29.514 v16.6.0 CR-0265 Cat: A (Rel-16)  
  
 Source: Huawei*

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

**C3-205200 Corrections to referred attributes**

*Type: CR For: Agreement  
 29.514 v15.7.0 CR-0268 Cat: F (Rel-15)  
  
 Source: ZTE*

**Decision:** The document was **revised to C3-205462**.

**C3-205201 Corrections to referred attributes**

*Type: CR For: Agreement  
 29.514 v16.6.0 CR-0269 Cat: A (Rel-16)  
  
 Source: ZTE*

**Decision:** The document was **revised to C3-205463**.

**C3-205462 Corrections to referred attributes**

*Type: CR For: Agreement  
 29.514 v15.7.0 CR-0268 rev 1 Cat: F (Rel-15)  
  
 Source: ZTE*

(Replaces C3-205200)

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

**C3-205463 Corrections to referred attributes**

*Type: CR For: Agreement  
 29.514 v16.6.0 CR-0269 rev 1 Cat: A (Rel-16)  
  
 Source: ZTE*

(Replaces C3-205201)

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

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

**C3-205141 Correction to PFD retrieval in PULL mode**

*Type: CR For: Agreement  
 29.513 v15.8.0 CR-0202 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**C3-205142 Correction to PFD retrieval in PULL mode**

*Type: CR For: Agreement  
 29.513 v16.5.0 CR-0203 Cat: A (Rel-16)  
  
 Source: Huawei*

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

**C3-205143 Correction to PFD retrieval in PULL mode**

*Type: CR For: Agreement  
 29.513 v17.0.0 CR-0204 Cat: A (Rel-17)  
  
 Source: Huawei*

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

**C3-205202 Correction to traffic influence procedures**

*Type: CR For: Agreement  
 29.513 v15.8.0 CR-0206 Cat: F (Rel-15)  
  
 Source: ZTE*

**Decision:** The document was **revised to C3-205464**.

**C3-205203 Correction to traffic influence procedures**

*Type: CR For: Agreement  
 29.513 v16.5.0 CR-0207 Cat: A (Rel-16)  
  
 Source: ZTE*

**Decision:** The document was **revised to C3-205465**.

**C3-205204 Correction to traffic influence procedures**

*Type: CR For: Agreement  
 29.513 v17.0.0 CR-0208 Cat: A (Rel-17)  
  
 Source: ZTE*

**Decision:** The document was **revised to C3-205466**.

**C3-205464 Correction to traffic influence procedures**

*Type: CR For: Agreement  
 29.513 v15.8.0 CR-0206 rev 1 Cat: F (Rel-15)  
  
 Source: ZTE*

(Replaces C3-205202)

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

**C3-205465 Correction to traffic influence procedures**

*Type: CR For: Agreement  
 29.513 v16.5.0 CR-0207 rev 1 Cat: A (Rel-16)  
  
 Source: ZTE*

(Replaces C3-205203)

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

**C3-205466 Correction to traffic influence procedures**

*Type: CR For: Agreement  
 29.513 v17.0.0 CR-0208 rev 1 Cat: A (Rel-17)  
  
 Source: ZTE*

(Replaces C3-205204)

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

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

**C3-205226 Correction to notificationURI attribute**

*Type: CR For: Agreement  
 29.520 v15.7.0 CR-0224 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205440**.

**C3-205227 Correction to notificationURI attribute**

*Type: CR For: Agreement  
 29.520 v16.5.0 CR-0225 Cat: A (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205441**.

**C3-205228 Correction to notificationURI attribute**

*Type: CR For: Agreement  
 29.520 v17.0.0 CR-0226 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205442**.

**C3-205440 Correction to notificationURI attribute**

*Type: CR For: Agreement  
 29.520 v15.7.0 CR-0224 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson*

(Replaces C3-205226)

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

**C3-205441 Correction to notificationURI attribute**

*Type: CR For: Agreement  
 29.520 v16.5.0 CR-0225 rev 1 Cat: A (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-205227)

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

**C3-205442 Correction to notificationURI attribute**

*Type: CR For: Agreement  
 29.520 v17.0.0 CR-0226 rev 1 Cat: A (Rel-17)  
  
 Source: Ericsson*

(Replaces C3-205228)

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

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

**C3-205144 Correction on the Acct-Session-Id**

*Type: CR For: Agreement  
 29.561 v15.5.0 CR-0059 Cat: F (Rel-15)  
  
 Source: Huawei, Ericsson*

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

**C3-205145 Correction on the Acct-Session-Id**

*Type: CR For: Agreement  
 29.561 v16.5.0 CR-0060 Cat: A (Rel-16)  
  
 Source: Huawei, Ericsson*

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

**C3-205284 Correct TWAN-Identifer applicability and 3GPP SGSN address**

*Type: CR For: Agreement  
 29.561 v15.5.0 CR-0063 Cat: F (Rel-15)  
  
 Source: Ericsson*

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

**C3-205309 Correction on PAPCHAP supporting Rel-15 N1 mode UE**

*Type: CR For: Agreement  
 29.561 v15.5.0 CR-0071 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Discussion:**

Huawei: I have following comments.

1) The CR agreed in CT1 adds the informative text in Rel-15 as a compromise. We can’t interpret that it is a requirement from CT3 point of view.

2) The wording in the current CR is not fully aligned with CT1 agreed text. We need to discuss whether CT3 also can accept an informative NOTE.

Ericsson:

TS 24.008 v15.9.0 includes TC1 approved CR3228, adding below NOTE in the Table 10.5.154/3GPP TS 24.008: Protocol configuration options information element:

“NOTE 3: If PAP/CHAP protocol is supported by the UE in N1 mode, the UE can use the PAP/CHAP protocol identifiers in the extended protocol configuration options information element in N1 mode.”

NOTE in Table is Normative, wording in the current CR is aligned CT1 agreed text.

China Telecom:

The “Reason for change” mentioned the C1-205328 (proposed by Vodafone), adding an informative NOTE to TS24.008.

("If PAP/CHAP protocol is supported by the UE in N1 mode, the UE can use the PAP/CHAP protocol identifiers in the extended protocol configuration options information element in N1 mode.")

I want to clarify that this NOTE uses “can”, which means there is no enforcement requirement; Since this is a modification to the deeply frozen R15 version, only one note like this can be added. However, in this CR , the NOTEs use “may”, which are different:

(NOTE x: The N1 mode UE may provide PAP/CHAP user credentials in the ePCO IE when accessing to 5GS on 3GPP and non-3GPP IP accesses. If such information is provided to the SMF, the SMF may perform user authentication based on these credentials.)

This CR intended to add some Table NOTE to TS29.561 of R15, which is not the FASMO correction and should not be done to the deeply frozen R15 version.

Ericsson: While TS 24.008 Rel-15 CR 3228 in subclause 10.5.6.3.1 defined the NOTE in Table is normative.

The is the essential correction for exception case, that SA2 and SA3 LS reply for the legacy application with legacy DN-AAA server do not support EAP, then PAP/CHAP is allowed to support Rel-15 N1 mode UE.

This CR with NOTE in Table use “may” aligned with the NOTE in Table normative description for the option, i.e. FASMO in Rel-15 in CT3, aligned with the CT1 Rel-15 CR agreed upon FASMO.

Huawei: I check with my CT1 colleague, the wording “can” means informative text.

Qualcomm: The added CT1 text is in an normative clause, so I think it would be very clear that it is by definition normative spec text. Use of shall/may just specifies the mandate of using this.

China Telecom:

Please check the LS C3-203609 & C1-C1-204567, the conclusion is :

CT3’s Answer: CT3 has reviewed its current specifications related to the question above and the summary of the current status is in the following:

…

For the authentication, if PCO includes PAP/CHAP, SMF doesn’t currently support using RADIUS/Diameter protocol including the corresponding PAP/CHAP information elements directly for interaction with external DN-AAA server, in the current release 15 and 16, but a combo-SMF+PGW node can support Radius/Diameter interface through its PGW component.

And after receiving this LS from CT3, Vodafone proposed the CR (C1-205328).

And the WID of R17 ” CT aspects on PAP/CHAP protocols usage in 5GS” (CP-202251) has clearly stated: “In the new 5GS network deployment, e.g. with standalone SMF, it may also has the potential requirements for access to corporate networks, e.g. support of PAP/CHAP in DN-AAA server or LNS owned by 3rd parties. ”

Therefore,

1) If UE access the external network which requires PAP/CHAP via 5G network of R15/R16 , a combo-SMF+PGW through its PGW component should be selected.

2) If UE access the external network which requires PAP/CHAP via 5G network of R17, a combo-SMF+PGW or a stand-alone SMF which supports PAP/CHAP can be selected.

So the NOTE added in this CR and C3-205310 is no need .

Qualcomm:

To review, for Rel-15/16 we have two solutions on table:

1. Qualcomm in 5340 proposes using PGW-C for secondary authentication of PAP/CHAP in ePCO, as also proposed in last meeting.

2. Ericsson (what we are discussing here) using SMF for secondary authentication of PAP/CHAP in ePCO.

To the extent that I see, Ericsson solution is quite similar to Rel-17 solutions. The way forward I see is to adapt one of the two. Qualcomm would be favorable to any of these solutions which is preferred in general by people in CT3 group. Your comments on this are welcome.

Vodafone: Although the solutions are quite similar, using the PGW-C seems to us to give some control over which UEs are allowed to use PAP/CHAP by using subscription data to direct PAP/CHAP secondary authentication data to a PGW-C. For this reason, we prefer 5340.

Huawei: It was check by CT1 MCC that the text agreed in CT1 CR is informative text when the CT1 CR was agreed. So we can accept a similar NOTE in CT3 too.

Qualcomm: The discussion yesterday was paused in the favor of finding an offline solution on this vs. 5340. I haven’t seen any further discussions on this. To review, the main issue to address regardless of the debate on informative vs normative is which solution to opt for, the one in which SMF resolves the secondary authentication in this case or a PGW-C component of a combo node? What is your opinion in this regard and how do we resolve this?

China Telecom:

I agree with the opinion proposed by Vodafone:

Although the solutions are quite similar, using the PGW-C seems to us to give some control over which UEs are allowed to use PAP/CHAP by using subscription data to direct PAP/CHAP secondary authentication data to a PGW-C. For this reason, we prefer 5340.

C1-206712 on PAP/CHAP was also adopted at CT1 126# eMeeting,

which is the CR of class "B", that is, CT1 also recognized that PAP/CHAP is a new feature added to 5G.

Therefore, I think there should be consensus on this topic among CT1 and CT3:

Adding the support for PAP/CHAP feature to stand-alone SMF should be started in R17 version.

Meanwhile, for supporting PAP/CHAP in 5g network of R15/R16, we can select a combo-SMF+PGW

node which can support Radius/Diameter interface through its PGW component.

Huawei: From my point of view, it is a new feature for the SMF to support the PAP/CHAP. So we can accept 5340 as a way forward.

China Telecom:

Since the “Reason for change” in this CR refered to TS 24.008 Rel-15 CR 3228 (C1-205328) , and Maria stated

“This CR with NOTE in Table use “may” aligned with the NOTE in Table normative description for the option, i.e. FASMO in Rel-15 in CT3, aligned with the CT1 Rel-15 CR agreed upon FASMO.”

While I am the CT1 delegate of China Telecom, and I am well aware of the whole process by which this CR was approved, so let me tell you some information from CT1:

1) The delegate of Vodafone(Yang.Lu) had agreed that “ PAP/CHAP can only be supported in EPS interworking scenario in R15.” by emails, and then it was reflected in the “Reason for change” of C1-205328:

“In Rel-15 in order to support PAP/CHAP over 5GS from an end-to-end process perspective, the network operators need to deploy the combined SMF/PGW in their core networks (see incoming LS from CT3 in C1-204567/C3-203609).”

2) The delegate of Vodafone had accepted to make the NOTE added by C1-205328 as informative without containing normative wording by emails.

Furthermore, I can provide those public emails as evidence if you want to confirm that.

Therefore, It’s very clear that the “Reason for change “in this CR(C3-205309) (SMF function in a combined PGW-C/SMF and standalone SMF supporting PAP/CHAP in ePCO for Rel-15 UE is needed) is not correct and misleading.

And the NOTEs added in this CR and C3-205310 are not correct.

China Telecom: To find a way forward, I would like to make a compromise and suggest 5309&5310 should be revised to:

NOTE x: The N1 mode UE can provide PAP/CHAP user credentials in the ePCO IE when

accessing to 5GS on 3GPP and non-3GPP IP accesses. If such information is provided to

the SMF, the SMF can perform user authentication based on these credentials. How to perform authentication is implementation specific.

Can this wording be acceptable for you all? Please let me know.

Qualcomm:

To Ericsson: we especially need your input on this issue as the chair had suggested last week to converge using offline communication.

Before this last info from China Telecom in the following, all companies except Ericsson had expressed support for Qualcomm proposal in 5340. If we need to now change our stance again then we quickly need to express this clearly to be able to resolve this.

From my side I am not clear too much on difference of ETSI drafting keywords may and can as proposed in the following; the difference I see is rather subtle (possibility vs. permission), so simply speaking I don’t see much difference here. Also, in absence of any other specification, “How to perform authentication is implementation specific” is already implied by the specification, since if it is not specified, it is implementation specific. If China Telecom indeed wants to add this, this sentence is too ambiguous and clarification is needed in the proposed sentence as to who (e.g. the SMF) is to perform what (i.e. user-) authentication with whom?

If we cannot converge by noon today I would request Chair to please assign some time on this today for discussion in meeting.

Ericsson: I’d summarize the key points of other Groups LS/CR on this topic,

SA2 LS recommends to support (e)PCO parameters related with PAP or CHAP for Rel-15 UE over 5GS with legacy deployment.

SA3 LS described SA3 recommends use of secondary authentication instead of PAP/CHAP using ePCO unless there are legacy applications requiring it, and Warning should be specified to PAP/CHAP.

CT1 LS (C3-205085) described SMF handling the PDU Session Establishment. For a given DNN, it is the SMF which determines whether PAP/CHAP or EAP based secondary authentication/authorization is to be used.

CT1 TS 24.008 Rel-15 CR 3228 (C1-205328) in Table 10.5.154 adding “NOTE 3: If PAP/CHAP protocol is supported by the UE in N1 mode, the UE can use the PAP/CHAP protocol identifiers in the extended protocol configuration options information element in N1 mode.”.

Hence comes out the reason for this CR fulfilling SMF function handling PDU Session supporting Rel-15 N1 mode UE.

Thanks China Telecom suggestion, in which I could accept the alignment for the NOTE contents within the table.

R1 is made available.

Ericsson to Qualcomm: SMF is the NF handling PDU Session establishment, SMF is the NF handling N1 mode UE in 5GS.

Huawei: . I propose some rewording to reflect the concern from Waqar and merge two notes.

NOTE x: The N1 mode UE can provide PAP/CHAP user credentials in the ePCO IE when accessing to 5GS on 3GPP and non-3GPP IP accesses. If such information is provided to the SMF, the SMF can perform user authentication with the DN-AAA based on these credentials, How to perform authentication by the SMF and DN-AAA is implementation specific.

External network operators intending to use PAP/CHAP without proper underlying protection for authentication are warned about the respective vulnerabilities of PAP and CHAP protocols from a security point of view. It’s up to the external network operator to perform the risk assessment if PAP/CHAP is used for authentication.

China Telecom: In my understanding, I suggested that 5309&5310 use “can’ instead of “may”, because these CRs are proposed to align with C1-205328(which used “can”) ;

Besides, I suggested that 5311 and 5135 (these two CR are supposed to be merged), because these CRs are proposed to align with

the Specification of 4G (29.061)(which used “may”).

Qualcomm & Vodafone would cosign this CR.

Ericsson makes r2 available.

Vodafone: I think NOTE y should be the same in both Table 8.2.2.2-1: IPv4 address allocation and parameter configuration use cases and Table 8.2.2.3-1: IPv6 prefix allocation and parameter configuration use cases. I would prefer this wording that does not use the term "implementation specific":

NOTE y: The N1 mode UE can provide PAP/CHAP user credentials in the ePCO IE when accessing to 5GS on 3GPP and non-3GPP IP accesses. If such information is provided to the SMF, the SMF can perform user authentication based on these credentials. How to perform authentication is not specified in this release.

**Decision:** The document was **revised to C3-205566**.

**C3-205310 Correction on PAPCHAP supporting Rel-15 N1 mode UE**

*Type: CR For: Agreement  
 29.561 v16.5.0 CR-0072 Cat: A (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205567**.

**C3-205311 Correction on PAPCHAP supporting Rel-15 N1 mode UE**

*Type: CR For: Agreement  
 29.561 v16.5.0 CR-0073 Cat: A (Rel-17)  
  
 Source: Ericsson*

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

**C3-205340 Clarification on using PAP/CHAP for 5GS interoperability**

*Type: CR For: Agreement  
 29.561 v15.5.0 CR-0038 rev 1 Cat: F (Rel-15)  
  
 Source: Qualcomm Incorporated, Vodafone*

(Replaces C3-204045)

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

**C3-205566 Correction on PAPCHAP supporting Rel-15 N1 mode UE**

*Type: CR For: Agreement  
 29.561 v15.5.0 CR-0071 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson, Qualcomm, Vodafone*

(Replaces C3-205309)

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

**C3-205567 Correction on PAPCHAP supporting Rel-15 N1 mode UE**

*Type: CR For: Agreement  
 29.561 v16.5.0 CR-0072 rev 1 Cat: A (Rel-16)  
  
 Source: Ericsson, Qualcomm, Vodafone*

(Replaces C3-205310)

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

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

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

**C3-205146 Correction to PFD retrieval in PULL mode**

*Type: CR For: Agreement  
 29.551 v15.6.0 CR-0044 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205496**.

**C3-205147 Correction to PFD retrieval in PULL mode**

*Type: CR For: Agreement  
 29.551 v16.5.0 CR-0045 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205497**.

**C3-205148 Correction to PFD retrieval in PULL mode**

*Type: CR For: Agreement  
 29.551 v17.0.0 CR-0046 Cat: A (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205498**.

**C3-205149 Correction to notification URI of PFD change notification**

*Type: CR For: Agreement  
 29.551 v15.6.0 CR-0047 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**C3-205150 Correction to notification URI of PFD change notification**

*Type: CR For: Agreement  
 29.551 v16.5.0 CR-0048 Cat: A (Rel-16)  
  
 Source: Huawei*

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

**C3-205151 Correction to notification URI of PFD change notification**

*Type: CR For: Agreement  
 29.551 v17.0.0 CR-0049 Cat: A (Rel-17)  
  
 Source: Huawei*

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

**C3-205496 Correction to PFD retrieval in PULL mode**

*Type: CR For: Agreement  
 29.551 v15.6.0 CR-0044 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces C3-205146)

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

**C3-205497 Correction to PFD retrieval in PULL mode**

*Type: CR For: Agreement  
 29.551 v16.5.0 CR-0045 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces C3-205147)

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

**C3-205498 Correction to PFD retrieval in PULL mode**

*Type: CR For: Agreement  
 29.551 v17.0.0 CR-0046 rev 1 Cat: A (Rel-17)  
  
 Source: Huawei*

(Replaces C3-205148)

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

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

**C3-205270 Faliure response correction**

*Type: CR For: Agreement  
 29.522 v15.5.0 CR-0229 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**C3-205286 Solve IP address overlapping for AF traffic influence**

*Type: CR For: Agreement  
 29.522 v15.5.0 CR-0230 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205480**.

**C3-205287 Solve IP address overlapping for AF traffic influence**

*Type: CR For: Agreement  
 29.522 v16.5.0 CR-0231 Cat: A (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205481**.

**C3-205480 Solve IP address overlapping for AF traffic influence**

*Type: CR For: Agreement  
 29.522 v15.5.0 CR-0230 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson, Huawei, China Mobile*

(Replaces C3-205286)

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

**C3-205481 Solve IP address overlapping for AF traffic influence**

*Type: CR For: Agreement  
 29.522 v16.5.0 CR-0231 rev 1 Cat: A (Rel-16)  
  
 Source: Ericsson, Huawei, China Mobile*

(Replaces C3-205287)

**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)

**C3-205224 Correction to notifUri attribute**

*Type: CR For: Agreement  
 29.594 v15.7.0 CR-0063 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205502**.

**C3-205225 Correction to notifUri attribute**

*Type: CR For: Agreement  
 29.594 v16.3.0 CR-0064 Cat: A (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205503**.

**C3-205502 Correction to Intermediate spending limit report retrieval**

*Type: CR For: Agreement  
 29.594 v15.7.0 CR-0063 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson*

(Replaces C3-205224)

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

**C3-205503 Correction to Intermediate spending limit report retrieval**

*Type: CR For: Agreement  
 29.594 v16.3.0 CR-0064 rev 1 Cat: A (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-205225)

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

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

**C3-205194 Correction to Policy Update Notification**

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

**Decision:** The document was **revised to C3-205454**.

**C3-205195 Correction to Policy Update Notification**

*Type: CR For: Agreement  
 29.525 v16.5.0 CR-0125 Cat: A (Rel-16)  
  
 Source: ZTE*

**Decision:** The document was **revised to C3-205455**.

**C3-205196 Correction to Policy Update Notification**

*Type: CR For: Agreement  
 29.525 v17.0.0 CR-0126 Cat: A (Rel-17)  
  
 Source: ZTE*

**Decision:** The document was **revised to C3-205456**.

**C3-205454 Correction to Policy Update Notification**

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

(Replaces C3-205194)

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

**C3-205455 Correction to Policy Update Notification**

*Type: CR For: Agreement  
 29.525 v16.5.0 CR-0125 rev 1 Cat: A (Rel-16)  
  
 Source: ZTE*

(Replaces C3-205195)

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

**C3-205456 Correction to Policy Update Notification**

*Type: CR For: Agreement  
 29.525 v17.0.0 CR-0126 rev 1 Cat: A (Rel-17)  
  
 Source: ZTE*

(Replaces C3-205196)

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

**C3-205592 report initial presence status for PRA**

*Type: CR For: Agreement  
 29.525 v15.5.0 CR-0133 Cat: F (Rel-15)  
  
 Source: ZTE, China Mobile*

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

**C3-205593 report initial presence status for PRA**

*Type: CR For: Agreement  
 29.525 v16.5.0 CR-0134 Cat: A (Rel-16)  
  
 Source: ZTE, China Mobile*

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

#### 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]

**C3-205192 Corrections related to Notification via Websocket**

*Type: CR For: Agreement  
 29.122 v15.8.0 CR-0297 Cat: F (Rel-15)  
  
 Source: ZTE*

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

**C3-205193 Corrections related to Notification via Websocket**

*Type: CR For: Agreement  
 29.122 v16.7.0 CR-0298 Cat: A (Rel-16)  
  
 Source: ZTE*

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

**C3-205256 Faliure authorization result of BDT reference Id for ChargeableParty API request**

*Type: CR For: Agreement  
 29.122 v15.8.0 CR-0302 Cat: F (Rel-15)  
  
 Source: Huawei, Havelsan*

**Discussion:**

This CR introduces a backwards compatible correction to the OpenAPI file of ChargeableParty API.

Ericsson: The description for servAuthInfo should add “supplied by the SCEF”.

The change for ChargeablePartyPatch data type is not needed, because the patched result in 200 OK will be returned in ChargeableParty data type.

We’ve further comments,

since the AF already knows the Transfer Policy applicability scope (time window, network area) because the PCF indicates so during the negotiation,

it is not essential that the PCF indicates it again to the AF when the AF requests the application of the BDT policy. It would be convenient, but not essential.

Hence not FASMO, please only apply Rel-17 CR accordingly.

Huawei: The AF may well know the information (e.g. the time window, area etc.) for the selected BDT policy indicated by the reference Id before sending the ChargeableParty API request to the SCEF, but during the ChargeableParty API procedure, there is no BDT policy negotiation anymore.

When the PCRF receives this reference Id from the SCEF/AF and if the PCRF can’t retrieve the BDT policy indicated by the reference Id from the SPR, then the PCRF shall respond to the SCEF why the selected BDT policy can’t be activated as defined in 4G/5G. Meanwhile, the PCRF makes the policy decision without considering the selected BDT policy.

In this case, how the AF knows if the BDT policy indicated by the reference Id is not used by the PCRF?

Ongoing discussions

Ericsson: The TP\_NOT\_KNOWN indicates that the PCF cannot retrieve the transfer policy because it is not known in the UDR, i.e., it does not exist, it has already been deleted because deemed obsolete and thus not even the time window can be checked.

Note that the procedure is not about error handling (e.g. failure in the UDR service interface), but about service specification for Transfer Policies. That’s why it is not reported as error, but as info in a successful result.

Huawei: I am fine to define it from Rel-17. I will request to not pursued 5256+5257.

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

**C3-205257 Faliure authorization result of BDT reference Id for ChargeableParty API request**

*Type: CR For: Agreement  
 29.122 v16.7.0 CR-0303 Cat: A (Rel-16)  
  
 Source: Huawei, Havelsan*

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

**C3-205258 Successful response code for Event Notification**

*Type: CR For: Agreement  
 29.122 v15.8.0 CR-0304 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**C3-205259 Successful response code for Event Notification**

*Type: CR For: Agreement  
 29.122 v16.7.0 CR-0305 Cat: A (Rel-16)  
  
 Source: Huawei*

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

**C3-205260 Failure response for SCEF northbound APIs**

*Type: CR For: Agreement  
 29.122 v15.8.0 CR-0306 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205556**.

**C3-205261 Failure response for SCEF northbound APIs**

*Type: CR For: Agreement  
 29.122 v16.7.0 CR-0307 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205557**.

**C3-205263 Payload during event notification via Websocket**

*Type: CR For: Agreement  
 29.122 v15.8.0 CR-0309 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205516**.

**C3-205292 Solve IP address overlapping for Chargeable Party**

*Type: CR For: Agreement  
 29.122 v15.8.0 CR-0311 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205482**.

**C3-205293 Solve IP address overlapping for Chargeable Party**

*Type: CR For: Agreement  
 29.122 v16.7.0 CR-0312 Cat: A (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205483**.

**C3-205312 Correction to NIDD configuration cancellation procedure**

*Type: CR For: Agreement  
 29.122 v15.8.0 CR-0313 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205568**.

**C3-205313 Correction to NIDD configuration cancellation procedure**

*Type: CR For: Agreement  
 29.122 v16.7.0 CR-0314 Cat: A (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205569**.

**C3-205314 Correction to device triggering recall procedure**

*Type: CR For: Agreement  
 29.122 v15.8.0 CR-0315 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205576**.

**C3-205315 Correction to device triggering recall procedure**

*Type: CR For: Agreement  
 29.122 v16.7.0 CR-0316 Cat: A (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205578**.

**C3-205316 Corrections to support 405 error status code**

*Type: CR For: Agreement  
 29.122 v15.8.0 CR-0317 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Discussion:**

This CR introduces backward compatible corrections into the OpenAPI files applicable to Data Types applicable to several APIs, MonitoringEvent API and NIDD API.

Huawei: I don’t think it’s BC changes, right?

Huawei will check.

Huawei: My comments are the changes are NBC, right?

Ericsson: Now r1 is BC change.

Huawei: I don’t think the CRs are FASMO due to 403 Forbidden is still workable well in frozen Rel-15/Rel-16. And no need to define two 4xx codes to share one application error.

We can use 405 into new APIs from Rel-17 whenever needed.

Ericsson: For this case, 403 Forbidden wrongly used to “Indicates the HTTP method is not supported” has problem as our product reported.

405 Method Not Allowed shall be specified according to RFC 7231 definition and TS 29.500 allowed 405 Method Not Allowed as service specific.

This is FASMO with essential correction.

That’s why the initial CR with 405 Method Not Allowed replacing 403 Forbidden to correctly “Indicates the HTTP method is not supported”, aligned with the normative reference RFC7231 and TS 29.500.

Would you suggest better way to solve current problem?

Considering other CRs corner NBC ->BC practices,

Would you accept I could add NOTE to describe the applicability of the correct error code “Indicates the HTTP method is not supported”?

Huawei: In frozen Rel-15/16, already mentioned that 403 No Forbidden shall be used with "OPERATION\_PROHIBITED" error to only indicate the method is not supported.

I agree that 405 is more suitable to indicate the error in this case, but 403 Forbidden is specified as mandatory error code to be provided. Upon receipt of 403 Forbidden with the cause indicates OPERATION\_PROHIBITED, the client will not reject the 403 message, but quite aware of the error and will not try their request again due to prohibited operation. Hence, I don’t see any severe problem by using 403, no necessary to introduce 405 into the frozen releases.

Nokia: I think it is a NBC change not required. I agree with Huawei.

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

**C3-205317 Corrections to support 405 error status code**

*Type: CR For: Agreement  
 29.122 v16.7.0 CR-0318 Cat: A (Rel-16)  
  
 Source: Ericsson*

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

**C3-205318 Corrections to misusage of 500 status code**

*Type: CR For: Agreement  
 29.122 v15.8.0 CR-0319 Cat: F (Rel-15)  
  
 Source: Ericsson*

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

**C3-205319 Corrections to misusage of 500 status code**

*Type: CR For: Agreement  
 29.122 v16.7.0 CR-0320 Cat: A (Rel-16)  
  
 Source: Ericsson*

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

**C3-205482 Solve IP address overlapping for Chargeable Party**

*Type: CR For: Agreement  
 29.122 v15.8.0 CR-0311 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson, Huawei*

(Replaces C3-205292)

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

**C3-205483 Solve IP address overlapping for Chargeable Party**

*Type: CR For: Agreement  
 29.122 v16.7.0 CR-0312 rev 1 Cat: A (Rel-16)  
  
 Source: Ericsson, Huawei*

(Replaces C3-205293)

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

**C3-205516 Payload during event notification via Websocket**

*Type: CR For: Agreement  
 29.122 v15.8.0 CR-0309 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei, ZTE*

(Replaces C3-205263)

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

**C3-205556 Failure response for SCEF northbound APIs**

*Type: CR For: Agreement  
 29.122 v15.8.0 CR-0306 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei, Ericsson*

(Replaces C3-205260)

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

**C3-205557 Failure response for SCEF northbound APIs**

*Type: CR For: Agreement  
 29.122 v16.7.0 CR-0307 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei, Ericsson*

(Replaces C3-205261)

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

**C3-205568 Correction to NIDD configuration cancellation procedure**

*Type: CR For: Agreement  
 29.122 v15.8.0 CR-0313 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson*

(Replaces C3-205312)

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

**C3-205569 Correction to NIDD configuration cancellation procedure**

*Type: CR For: Agreement  
 29.122 v16.7.0 CR-0314 rev 1 Cat: A (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-205313)

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

**C3-205576 Correction to device triggering recall procedure**

*Type: CR For: Agreement  
 29.122 v15.8.0 CR-0315 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson*

(Replaces C3-205314)

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

**C3-205578 Correction to device triggering recall procedure**

*Type: CR For: Agreement  
 29.122 v16.7.0 CR-0316 rev 1 Cat: A (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-205315)

**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]

### 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]

**C3-205290 Correct inconsistency in SecurityNotification**

*Type: CR For: Agreement  
 29.222 v15.7.0 CR-0161 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205491**.

**C3-205291 Correct inconsistency in SecurityNotification**

*Type: CR For: Agreement  
 29.222 v16.4.0 CR-0162 Cat: A (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205492**.

**C3-205491 Correct inconsistency in SecurityNotification**

*Type: CR For: Agreement  
 29.222 v15.7.0 CR-0161 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson*

(Replaces C3-205290)

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

**C3-205492 Correct inconsistency in SecurityNotification**

*Type: CR For: Agreement  
 29.222 v16.4.0 CR-0162 rev 1 Cat: A (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-205291)

**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

### 15.18 OpenAPI version updates

**C3-205488 Update of OpenAPI version and TS version in externalDocs field**

*Type: CR For: Agreement  
 29.122 v15.8.0 CR-0321 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**C3-205489 Update of OpenAPI version and TS version in externalDocs field**

*Type: CR For: Agreement  
 29.522 v15.5.0 CR-0235 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**C3-205617 Update of OpenAPI version and TS version in externalDocs field**

*Type: CR For: Agreement  
 29.507 v15.7.0 CR-0149 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**C3-205618 Update of OpenAPI version and TS version in externalDocs field**

*Type: CR For: Agreement  
 29.525 v15.5.0 CR-0137 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

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

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

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

**C3-205087 Correction of the condition for the Credit Reallocation event**

*Type: CR For: Agreement  
 29.512 v16.6.0 CR-0575 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Correction of the condition for the Credit Reallocation event

**Decision:** The document was **revised to C3-205579**.

**C3-205088 Correction of the condition for the Credit Reallocation event**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0576 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Correction of the condition for the Credit Reallocation event

**Decision:** The document was **revised to C3-205580**.

**C3-205089 Disambiguation of the reporting and handling of triggers for PCC rule bases**

*Type: CR For: Agreement  
 29.512 v16.6.0 CR-0577 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Disambiguation of the reporting and handling of triggers for PCC rule bases

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

**C3-205102 Correction to access type conditioned session AMBR**

*Type: CR For: Agreement  
 29.512 v16.6.0 CR-0583 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205403**.

**C3-205103 Correction to access type conditioned session AMBR**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0584 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205404**.

**C3-205104 Correction to PolicyDecisionErrorHandling feature**

*Type: CR For: Agreement  
 29.512 v16.6.0 CR-0585 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205405**.

**C3-205105 Correction to PolicyDecisionErrorHandling feature**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0586 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205406**.

**C3-205106 Correction to SamePcf Feature**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0587 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205407**.

**C3-205107 Correction to SamePcf Feature**

*Type: CR For: Agreement  
 29.512 v16.6.0 CR-0588 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205408**.

**C3-205229 Correction to subscription's expiry time**

*Type: CR For: Agreement  
 29.594 v16.3.0 CR-0065 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**C3-205276 discussion on subscription resource creation operation processing**

*Type: discussion For: Discussion  
 Source: Huawei*

**Discussion:**

Ericsson: All the APIs that define a collection resource face the same situation as Nchf\_SpendingLimitControl when controlling the creation of a new resource.

Why does Nchf\_SpendingLimitControl need to tackle this problem in a different way?

Huawei: What a different way you are mention?

In fact TS29.512 already specifies the SMF as NF service consumer may provide SMF Id and S-NSSAI in Npcf\_SMPolicyControl\_Create Service Operation for Npcf\_SMPolicyControl Service.

Ericsson: What I mean is that the PCF does not reject a SMF request based on the determination that it is a retry.

Huawei: In fact I’m fine for CHF return a success response or an error response after it get known the PCF request is a retried one.

Ericsson agrees it is not possible to allow multiple subscriptions per SUPI. Could be solved with a correlation id. Further check.

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

**C3-205277 Correction to subscription create service operation**

*Type: CR For: Agreement  
 29.594 v16.3.0 CR-0066 Cat: F (Rel-16)  
  
 Source: Huawei*

**Discussion:**

This CR introduces backward compatible corrections on the OpenAPI file for Nchf\_SpendingLimitControl API.

Ericsson: Client requests, with correct semantics and syntaxis shall always be accepted by NFsp, as specified for any other APIs, or specified procedures for resource creation within a resource collections. The NFsp cannot determine whether the NFsc retry should be rejected.

How PCF and CHF deal with slices is unspecified. Note that so far a PCF may serve more than one slice, and a UE may have more than one allowed slices. I.e., there might be different combinations affecting the UE and they do not need to be visible in the API.

Huawei: There is 2 steps need to take when receiving a create request, the first step is to create a subscription resource and second step is to generate and send a response.

For the second step there are 2 options:

1) every create request shall be simply accepted, the only exception is the request message has some semantics and syntax

2) to carefully check whether the corresponding subscription resource has been created or not. If yes return an error response.

And your preference is option1, right?

Then how about for the first step, there is also 2 options

A. a new resource is to be created to replace the existing one

B. no new resource is created, and the existing resource is returned if needed

For the case a UE have more than one allowed slices and every slice has different PCF, different PCFs may have concern of different policy counter. For example, PCF1 want counter1, PCF2 want counter2, which is very possibly considering that different slices is for different type service, e.g. MBB, IoT…

When PCF1 send create request to retrieve counter1 status, a subscription resource is created and CHF plan to send notify counter1 status change during this subscription lifetime. Then PCF2 also start its own processing, i.e. it send create request to retrieve counter2 status. After that what will happen?

For option A, a new subscription resource is created with counter2 and the existing subscription resource with counter1 is replaced. At the same time, the PCF1 notifyUri is also replaced by the PCF2 notifyUri. Consequently PCF1 cannot receive notification any more.

For option B, the existing subscription resource with counter1 is kept and is returned in the response. PCF2 will be confused as the received status is for counter1 while what it want is counter2.

I fully agree that there is possibly multiple combinations for network slices and PCF deployment. The intention of this CR is not make such combination visible in the interface, but just provide network slice information to help PCF and CHF to correctly subscribe/notify policy counter status.

Ericsson: I’m not aware of any API that works according 2), could you please indicate if there is any?

For A, I’d say that a new resource is to created. Whether the existing one is replaced or not is implementation specific.

For B, from specifications point of view, a new one is created, or alternatively, if there is implementation specific logic to detect that it is exactly the same resource, a redirection can be done. Again, implementation specific.

why does not enter into this picture different CHFs? Why don’t we have into account that the PCF may request different subscriptions per S-NSSAI for specific counters? Why is the CHF going to replace one subscription by another?

For A, we were commenting that it is not a good idea the server decides to replace any subscription indicated by the consumer(s)

For B, I don’t think PCF2 will be confused with counter1, it simply will ignore it… And if PCF2 only wants to receive info about the policy counters it recognizes, the PCF2 only has to indicate them during the subscription.

Huawei: Different CHF might be also possibly, but there is no limitation that cannot have a single CHF for different slices/PCFs. Now specification have principle that the SUPI represents the subscription correlation Id and PCF retrieve policy counter status information per UE. So one SUPI can have only one corresponding subscription resource. That’s why we propose to include S-NSSAI in subscription request. The intention is to help PCF to request different subscriptions per S-NSSAI for specific counters.

For A, my understanding that now the assumption is the existing subscription resource is kept without any change after receiving PCF2 request.

For B, PCF2 certainly can indicate it want counter2 by sending a request, but when CHF try to processing the request, issues occur. Now specification states the SUPI represents the subscription correlation Id, so one SUPI can have only one corresponding subscription resource. As discussion above, the existing subscription resource kept without any change, i.e. the subscription resource PCF2 get is still for counter1

Ericsson: Agrees that different CHFs might also be possible but there is no limitation that cannot have a single CHF for different slices/PCFs.

I see your point now. As it is specified, a SUPI can only have one subscription resource in a PCF. I agree that this is something to fix.

Instead of including S-NSSAI, I’d be more fond of adding a notification correlation Id, or the CHF returning the subscription id allocated to the subscription as subscription correlation Id. But I would not define anything else, because it might not be sufficient for other scenarios, as it has happened with the SUPI.

ZTE: I fully agree with Ericsson, adding a notification correlation Id is a better solution as notfiUri&notfiCorreld combination can uniquely identify a subscription request.

Huawei: now it’s specified CHF allocate and return subscription id back to PCF in subscription create response. How CHF use it to distinguish the received subscription request is from the single PCF for different slices or a retried one? And would you please provide more information regarding notification correlation Id?

Ericsson:

- Coversheet:

o Reason for change:

Replace second and third paragraph by:

Based on currently specified information included in the HTTP POST request, where the SUPI is the subscription correlation identifier, and considering that a single PCF serves simultaneously mupltiple network slices, and network slice could be dynamically allocated, and that then it might be that the PCF requires different subscriptions for changes of policy counter status per slice, the currently specified information for the PCF can correlate a subscription with its corresponding notification might not be enough.

o Summary of change: add an optional “notifId” attribute, a notification correlation Id, which might be included by the PCF if the notificationUri does not encode as an URI fragment the notification correlation Id, and which is needed by the PCF to correlate the received notification with a given subscription.

o Update clauses affected as per comments below

- First change:

o Remove it

- Second change:

o Replace current “the PCF id encoded…” by “If the feature “NotificationCorrelation” is supported, a Notification Correlation Identifier assigned by the NF service consumer for the requested notifications as "notifId" attribute, if the “notifUri” does not encode withing the provided URI a fragment with the notification correlation Id.

o Remove the paragraph “If a subscription resource…” and the NOTE below

- Third change

o Remove it

o Add a new change to include 4.2.4.2 and to indicate:

The SpendingLimitStatus data structure provided in the request body shall include:

- Subscriber Identity in the "supi" attribute; and

- if the feature “NotificationCorrelation” is supported, the notification correlation ID in the “notified” attribute if received in the SpendingLimitContext data structure provided in the creation of the subscription.

- when the feature "SubscriptionExpirationTimeControl" is not supported, Policy counters status in the "statusInfos" map, where every PolicyCounterInfo entry shall include:

- Forth change

Remove the already added attributes and add a notifId attribute.

O Include a new change in 5.6.2.3-1 table.

O Include a new change, 5.8, with the new feature, NotifiationCorrelationId, which indicates the support of the explicit indication of the notification correlation id

o Change the OpenAPI accordingly

Huawei:

I only have following questions:

1) The existing statement “the SUPI is the subscription correlation identifier” become incorrect if the new attribute notifId is introduced. Therefore it need to be removed.

2) It’s good to clarify that the new added attribute is applicable when PCF requires multiple subscriptions for the same SUPI. However for the scenario UE have different network slices and each slices have different PCF, one PCF may not know there will be multiple subscriptions for a single SUPI. And The value of notifId shall be unique per subscription for a given CHF.

3) no slice information is provided to CHF and network slice can be allocated dynamically. Possible result is PCF cannot create subscription and get counters per slice, if there is one PCF serve multiple slices at the same time.

Do you think that to have notifId and S-NSSAI both as new added attributes is a possible solution?

Ericsson:

1) ok

2) the notifId is unique per NFsc. It is the combination notifUri and NotifId which makes everything globally unique. Nothing else is required.

3) PCF can create/update a subscription indicating the counters it needs or requires, based on slice, location, time of day, or any other policy. I don’t see anything specific for the slice that requires any update in the interface

In addition, please, in relation to the suggested text “if the “notifUri” does not encode within the provided URI a fragment with the notification correlation Id” remove “a fragment” because it might be ok to include it as part of the URI path, at least it has not been specified before. It would look like as follows “if the “notifUri” does not encode within the provided URI the notification correlation Id”

Huawei: “the SUPI is the subscription correlation identifier” is removed.

And I add some description regarding new attribute “notifId” is used in CHF to decide whether the request is a retried request, which could make the new attribution purpose more clear.

For “notifId” can also be used by PCF to correlate the received notification and a given subscription, maybe it’s true but it’s not been discussed in this CR.

Ericsson: Please, consider the following comments below:

- Coversheet:

o Summary of change: which might be included by the PCF if the notificationUri does not encode as an URI fragment the notification correlation Id.

O Consequences if not approved: Lack of flexibility in the PCF to request multiple subscriptions to counter changes for a same SUPI.

- General: Please, use the correct format for the quotation marks “NotificationCorrelation” . They cannot be the curly ones. E.g. "notifUri"

- 4.2.2.2, please remove “The notifuri and notifId is used for CHF to decide whether the received create request is a tried one or multiple subscriptions for a single UE” . We have already discussed that it is implementation specific what the CHF does to detect potential duplicated requests.

Please, see below some suggestions for rewording:

If the feature “NotificationCorrelation” is supported, a Notification Correlation Identifier assigned by the NF service consumer for the requested notifications as encoded in the "notifId" attribute, if the “notifUri” does not encode within the provided URI with the notification correlation Id. The notifuri and notifId is used for CHF to decide whether the received create request is a tried one or multiple subscript-ions for a single UE.

- It is missing the impact in the notification. Note that the notifId has to be included in the SpendingLimitStatus, as indicated before.

- OpenAPI file:

o Tabs cannot be used. Use blank spaces instead

Huawei: Some statement is added to show the uniqueness of notifId shall be ensured.

And for “notifId” included in SpendingLimitStatus, as I already replied, my understanding is it’s be used by PCF to correlate the received notification and a given subscription. But I do not see there is scenario in N28 and it’s not the intention of this CR.

Ericsson: Please, move to a NOTE the sentence “NF service consumer (i.e.PCF) shall ensures the combination of notifuri and notifId is unifque per subscription in the whole network, including multiple network slices scenario.”

About:

it’s be used by PCF to correlate the received notification and a given subscription

And so, if the notifId (correlation) is not included in the SpendingLimitStatus (notification) it is completely useless to include it in the SpendingLimitContext (subscription)… I.e., the CR is incorrect.

Ericsson provides a list of editorials to be corrected.

ZTE finds some editorials.

ZTE: Just realize a new feature introduced, please update the other comments in coversheet:

This CR introduces a backward compatible feature in the OpenAPI file.

ZTE: change category to B

Huawei: For the Category, I’m not sure whether B or F is more appreciate since the intention is to resolve the problem that PCF cannot have multiple subscriptions while multiple subscriptions are needed in some scenario. And whether it’s allowed to introduce a Category B CR in R16.

Ericsson: Since Rel-16 is frozen, and it is good to have this functionality specified since this release, CAT F indicating correction is correct.

**Decision:** The document was **revised to C3-205615**.

**C3-205615 Correction to subscription create service operation**

*Type: CR For: Agreement  
 29.594 v16.3.0 CR-0066 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-205277)

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

**C3-205355 Location change (serving cell) for Policy Control Request Trigger**

*Type: CR For: Agreement  
 29.512 v16.6.0 CR-0630 Cat: F (Rel-16)  
  
 Source: China Mobile Communications Group Co.,Ltd., Ericsson*

**Decision:** The document was **revised to C3-205582**.

**C3-205356 Location change (serving cell) for Policy Control Request Trigger**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0631 Cat: A (Rel-17)  
  
 Source: China Mobile Communications Group Co.,Ltd., Ericsson*

**Decision:** The document was **revised to C3-205583**.

**C3-205403 Correction to access type conditioned session AMBR**

*Type: CR For: Agreement  
 29.512 v16.6.0 CR-0583 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-205102)

**Decision:** The document was **revised to C3-205600**.

**C3-205404 Correction to access type conditioned session AMBR**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0584 rev 1 Cat: A (Rel-17)  
  
 Source: Ericsson*

(Replaces C3-205103)

**Decision:** The document was **revised to C3-205602**.

**C3-205405 Correction to PolicyDecisionErrorHandling feature**

*Type: CR For: Agreement  
 29.512 v16.6.0 CR-0585 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-205104)

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

**C3-205406 Correction to PolicyDecisionErrorHandling feature**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0586 rev 1 Cat: A (Rel-17)  
  
 Source: Ericsson*

(Replaces C3-205105)

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

**C3-205407 Correction to SamePcf Feature**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0587 rev 1 Cat: A (Rel-17)  
  
 Source: Ericsson*

(Replaces C3-205106)

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

**C3-205408 Correction to SamePcf Feature**

*Type: CR For: Agreement  
 29.512 v16.6.0 CR-0588 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-205107)

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

**C3-205579 Correction of the condition for the Credit Reallocation event**

*Type: CR For: Agreement  
 29.512 v16.6.0 CR-0575 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces C3-205087)

**Abstract:**

Correction of the condition for the Credit Reallocation event

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

**C3-205580 Correction of the condition for the Credit Reallocation event**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0576 rev 1 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces C3-205088)

**Abstract:**

Correction of the condition for the Credit Reallocation event

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

**C3-205582 Location change (serving cell) for Policy Control Request Trigger**

*Type: CR For: Agreement  
 29.512 v16.6.0 CR-0630 rev 1 Cat: F (Rel-16)  
  
 Source: China Mobile Communications Group Co.,Ltd., Ericsson, Huawei*

(Replaces C3-205355)

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

**C3-205583 Location change (serving cell) for Policy Control Request Trigger**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0631 rev 1 Cat: A (Rel-17)  
  
 Source: China Mobile Communications Group Co.,Ltd., Ericsson, Huawei*

(Replaces C3-205356)

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

**C3-205600 Correction to access type conditioned session AMBR**

*Type: CR For: Agreement  
 29.512 v16.6.0 CR-0583 rev 2 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-205403)

**Decision:** The document was **revised to C3-205620**.

**C3-205620 Correction to access type conditioned session AMBR**

*Type: CR For: Agreement  
 29.512 v16.6.0 CR-0583 rev 3 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-205600)

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

**C3-205602 Correction to access type conditioned session AMBR**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0584 rev 2 Cat: A (Rel-17)  
  
 Source: Ericsson*

(Replaces C3-205404)

**Decision:** The document was **revised to C3-205621**.

**C3-205621 Correction to access type conditioned session AMBR**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0584 rev 3 Cat: A (Rel-17)  
  
 Source: Ericsson*

(Replaces C3-205602)

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

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

**C3-205152 Discussion on BDT policy re-negotiation**

*Type: discussion For: Agreement  
 Source: Huawei*

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

**C3-205153 Correction to the BDT policy re-negotiation**

*Type: CR For: Agreement  
 29.512 v16.6.0 CR-0611 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205449**.

**C3-205154 Correction to the BDT policy re-negotiation**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0612 Cat: A (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205450**.

**C3-205155 Correction to the BDT policy re-negotiation**

*Type: CR For: Agreement  
 29.519 v16.5.0 CR-0219 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205451**.

**C3-205156 Correction to the BDT policy re-negotiation**

*Type: CR For: Agreement  
 29.519 v17.0.0 CR-0220 Cat: A (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205452**.

**C3-205157 Correction to the BDT policy re-negotiation**

*Type: CR For: Agreement  
 29.525 v16.5.0 CR-0120 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205393**.

**C3-205158 Correction to the BDT policy re-negotiation**

*Type: CR For: Agreement  
 29.525 v17.0.0 CR-0121 Cat: A (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205394**.

**C3-205159 Correction to the BDT policy re-negotiation**

*Type: CR For: Agreement  
 29.554 v16.4.0 CR-0054 Cat: F (Rel-16)  
  
 Source: Huawei*

**Discussion:**

This CR introduces a backwards compatible correction to the OpenAPI file.

Ericsson:

• CR cover page: wrong TS version;

• clause 4.2.3.2, bullet starting with "may invoke the Nudr\_DataRepository\_Update …": adding reference to clause 5.2.9.3.2 from TS 29.519 is incorrect for the case of transfer policy re-negotiation and selection of new background transfer policy from the offered candidate list since clause 5.2.9.3.2 decribes creation of an IndividualBdtData resource, and table 5.2.9.3.2-3 specifies that 403 response will be returned in case of resource modification (and with cause" attribute within the "ProblemDetails" data structure set to "MODIFICATION\_NOT\_ALLOWED");

• clause 4.2.3.2: "and" is missing at the end of new bullet starting with "may invoke the Nudr\_DataRepository\_Delete …";

• clause 4.2.4.2: if the PCF determines that the invalid BDT policy does not impact the new BDT policy decision why the PCF should defer to calculate one or more new candidate BDT policies? The change should be that the PCF does not consider the invalid BDT policies for determining the new candidates. The PCF should not defer (wait) the calculation of the candidate policies until the invalid BDT policy is re-negotiated. Also, DBT should be corrected.

• clause 4.2.4.2, bullet starts with "if the PCF has not locally stored the background transfer policies …": adding reference to clause 5.2.9.3.2 from TS 29.519 is incorrect since clause 5.2.9.3.2 decribes creation of an IndividualBdtData resource, and table 5.2.9.3.2-3 specifies that 403 response will be returned in case of resource modification (and with cause" attribute within the "ProblemDetails" data structure set to "MODIFICATION\_NOT\_ALLOWED").

Huawei:

First bullet, ok.

Second bullet, I will update the clause 5.2.9.3.2 of 29.519 to support the BDT policy update..

Third bullet: If the PCF determines that the invalid BDT policy(i.e. the BDT policy is being negotiated) doesn’t impact the new BDT policy decision, the PCF don’t need to defer to calculate the candidate BDT policy. But if the PCF determines that the BDT policy which is being negotiated may impact the new BDT policy decision, the PCF shall wait for the result of the negotiation; otherwise, the re-negotiated BDT may be conflict with the new BDT policy.

Same comment for last bullet.

Ericsson: With regard to your response related to update the clause 5.2.9.3.2 of 29.519 to support the BDT policy update, I prefer to discuss this within C3-205155, and once we agree on solution for modification of an IndividualBdtData resource we can accordingly update 29.554.

Coming back to comment on clause 4.2.4.2, we do not agree on explanation and believe the PCF should not defer (wait) the calculation of the candidate policies until the invalid BDT policy is re-negotiated.

If the PCF defer to calculate one or more new candidate BDT policies, this means the AF will not receive new candidate BDT policies and will not be able to select new policy, so the invalid policy will not be possible replaced with a new one.

If more BDT policies were impacted because of network degradation and all of them are now considered invalid, there is no possibility to change status of any of them, if for each of them PCF(s) will defer offering a new candidate list to AF and all of them will stay invalid.

Huawei:

Ok to discuss Nudr in the applicable CR.

For the deferral comment, the invalid BDT policy is being re-negotiated by another PCF. The AF can receive the candidate BDT policy determined by this another PCF. But current PCF shall defer to determine the candidate BDT Policy until the invalid BDT policy re-negotiation by another PCF.

The handling of the UDR is performed in the sequence based on the request from the different PCF. Here is an example. PCF1 makes BDT Policy1, PCF 2 makes BDT Policy 2 and PCF 3 makes BDT policy 3. If PCF1 retrieves the BDT policy in the UDR and invalidate the BDT policy 1 firstly. PCF1 can calculate the candidate BDT policy because there is no in validate BDT policy. Then PCF2 retrieves the BDT policy in the UDR and invalidate the BDT policy 2 secondly. The PCF 2 can retrieve the BDT policy and invalid BDT policy 1 and calculate the BDT policy when the BDT policy 1 re-negotiation is completed. At last, PCF 3 retrieves the BDT policy in the UDR and invalidate the BDT policy 3. PCF 3 can calculate the BDT policy when the BDT policy 1 and BDT policy 2 re-negotiations are completed.

If the each PCF make the BDT policy without considering the invalid BDT policy. It will be a ping-pang scenario. For example, PCF3 calculate the candidate the BDT policy without consider invalid BDT policy 1and BDT policy 2. BDT policy 3 may be impact the re-negotiated BDT policy 1 and BDT policy 2. The performance of network is still bad. The PCF 1,PCF 2 and PCF 3 have to negotiate BDT policy again. But as they always negotiate the BDT policy simultaneously without considering other’s behavior, issue is still there.

Ericsson: We disagree that the PCF defers determination of list of the candidate BDT policies until other invalid BDT policy is replaced by another PCF. The AF may not answer to the re-negotiation notification to that another PCF, hence there is no guarantee the AF will select new policy. The PCF can’t wait to determine the new BDT policy until another BDT policy re-negotiation is completed. The PCF shall calculate list of candidate BDT policies as the invalid BDT policy does not exist.

The AF may not answer to the re-negotiation notification to the PCF1 and then the PCF2 and the PCF3 will not create own candidate lists and will not offer them. Therefore, the PCF shall not take into account invalid BDT policy and shall not defer creation of candidate policies list.

Huawei: If the AF doesn’t select any candidate BDT policies, the AF will inform of the another PCF no policy is selected. In this case, the invalid BDT policy is removed. Then the current PCF will make the BDT policy without considering the invalid BDT policy. I see there’s a NOTE to describe that it is possible that AF does not answer the notification. But firstly, it is just a NOTE, secondly, it is also described that the PCF can remove the invalid BDT policy based on operator configurable time. In this case, the current PCF also can know the final result of the BDT policy re-negotiation.

PCF1 can remove the invalid BDT policy based on an operator configurable time as the NOTE says if the AF does not answer the re-negotiation notification. In this case, the PCF2 and PCF3 can continue to perform the BDT re-negotiation.

Huawei:

I check 23.503 and 23.502, it is clearly specified as follows:

1) the AF selects any of the new Background Data Transfer policies and indicates it to the PCF

2) the AF doesn't select any of the new Background Data Transfer policies and indicates that none of the candidate Background Data Transfer policies is acceptable to the PCF

3) NOTE: The PCF can also remove the no longer valid BDT policy after an operator configurable time for the case that the AF does not respond.

Regarding NOTE, it would be an error case from my understanding. But even in this case, the PCF can be configured a timer to remove the invalid BDT policy. So anyway the result of the invalid BDT policy will be informed to all others PCFs. I don’t see the problem which you have pointed out.

Ericsson: The invalidation of a BDT policy is just a mechanism SA2 brought (as described in S2-2006222 and S2-2006223) to avoid the duplication of signaling (e.g. updating URSPs, PDU session) that would be generated if the BDT policy is truly deleted, right?

If it is so, from the negotiation point of view the BDT policy should be treated as it does not exist meaning that the PCF should not defer (wait) the calculation of the candidate policies until the invalid BDT policy is re-negotiated.

Otherwise the negotiation procedure complicates unnecessarily without any benefit (or is there any benefit?).

If my understanding is correct you agreed that if the PCF determines that the invalid BDT policy does not impact the new BDT policy decision the PCF should not defer to calculate one or more new candidate BDT policies, right?

However, you indicated:

• But if the PCF determines that the BDT policy which is being negotiated may impact the new BDT policy decision, the PCF shall wait for the result of the negotiation; otherwise, the re-negotiated BDT may be conflict with the new BDT policy.

Why this sentence applies only to the negotiation IF there is an invalid policy? Or you believe that it applies always? And how would it be controlled?

Can you provide an example of when taking into account the invalid BDT policy improves the procedure?

Huawei: Invalidation of a BDT policy means that the PCF can’t determine the policy based on this BDT policy because it is being re-negotiated. Then the duplication of signaling can be avoided if the new BDT policy is determined or the BDT policy is removed. If we assume that the BDT policy is truly deleted, we can just remove it rather than invalidate it.

For example, BDT policy1 requires 10G bitrates in TA1, and BDT policy2 also requires 10G bitrates in TA1. The network only supports 15G bitrates in TA1. Now the BDT policy1 is invalidated and being negotiated by the PCF1 when the PCF2 retrieved the BDT policy for the decision of BDT policy 2. According to your logic, the PCF 2 authorize the 10G bitrates to BDT policy2 without considering the invalidated BDT policy1. The PCF1 also authorizes the 10G bitrates for BDT policy1. When the BDT policy1 and BDT policy2 are enforced in the network, the performance of the network is downgraded. The PCF1 and PCF2 will be notified to update the BDT policy and then the PCF1 and PCF2 will repeat above procedure.

Continue above example, if BDT policy1 requires 10G bitrates in TA1, and BDT policy2 also requires 10G bitrates in TA2, we can consider that invalid BDT policy1 doesn’t impact the BDT policy 2 decision as their network areas are not overlapping. If the BDT policy1 and BDT plicy2 require different desired time window, we also can consider invalid BDT policy1 doesn’t impact the BDT policy 2 decision. Anyway, it will be implementation specific issue for the PCF to determine the invalid BDT policy doesn’t impact the new BDT policy decision.

continue above example, the PCF1 firstly invalidates the BDT policy1, retrieves all the existing BDT policy and performs the BDT re-negotiation. The PCF 2 invalidates the BDT policy2 and retrieves the existing BDT policy including invalid BDT policy1 later.( Although the PCF1 and PCF2 may request BDT policy simultaneously from the UDR, the UDR writes and reads the record sequentially) . Now the PCF2 defers to determine the BDT policy2 because of the invalid BDT policy1. When the PCF1 authorizes 10G bitrates to the BDT policy1 and the PC 2 is informed the BDT policy1, the PCF2 know it can’t authorize 10G bitrates to the BDT policy2 as network only can support 5G bitrates. The PCF may determine a policy applicable to current network situation or just remove the invalid BDT policy2.

Ericsson: once a BDT policy has been invalidated it is not valid anymore (not for the same location area and time window). The BDT policy is invalidated due to a re-negotiation process (triggered by an indication about NW performance degradation) and in this re-negotiation process new BDT candidate policies are provided to the AF. From that point, the re-negotiation process is completely similar to a new negotiation process.

Note that 23.503 clause 6.1.2.4 specifies in case the PCF can’t provide new candidates the existing policy is NOT invalidated i.e. the previously negotiated BDT policy shall be kept and no interaction with the AF shall occur.

Deferring the identification and communication of candidates until all the existing BDT policies are got NO Invalid implies a problem, because the removal of invalid BDT policies in the UDR might take long time if the corresponding AF doesn’t answer. In this case, the corresponding PCF has not been able to notify the corresponding AF about the NW degradation and potential candidates, so it can happen that AF triggers the activation of the BDT while the NW performance is really degraded. So, it is not a good solution to defer the notification and identification of candidates.

Additionally, we think your reasoning is not valid since where there is a notification about NW performance degradation (even to multiple PCFs), the BDT policies that are invalidated won’t collide with the new potential candidates, since the PCF shouldn’t provide a new candidate for a time window where the NWDAF has already identified a NW performance degradation. Last, if there was a previous NWDAF notification about NW degradation and there are some BDT set as inactive in the UDR due to that, they shouldn’t collide either with the new candidates, since again the PCF shouldn’t provide a new candidate for a time window where the NWDAF has already identified a NW performance degradation.

Are you thinking to invalidate the BDT policy due to any other reason than upon notification from NWDAF?

As for the example, we think the example is wrong. If the BDT policy1 has been invalidated this means it is not valid anymore and new BDT candidates are provided. It seems an error that the BDT policy1 is authorized after it has been invalidated. Once BDT policy1 has been invalidated, the PCF will provide new candidates (this means candidates with new time windows, charging Rate and optionally new maximum aggregated bit rate) to the AF.

Huawei: In the re-negotiation process due to the NW performance degradation case, it would be a normal scenario that multiple BDT polices are re-negotiated simultaneously from my point of view. We need to consider that different PCFs decide conflict policies.

In case the PCF can’t provide new candidates, other PCFs will retrieve the valid BDT policy and will not defer the BDT decision based on it.

AF not answering is just a NOTE. If you think it has real impacts, we also can have a NOTE to address if the PCF doesn’t receive the result of the BDT policy re-negotiation during configured time period, the PCF shall make a decision immediately. I understand the AF shall reply the negotiation quickly if they implement according to the specification. The different PCFs may decide the multiple BDT policy with same time window. It will make the NW performance degraded. In addition to Nw performance, other reason may be operator policy is changed.

BDT policy is determined based on the AF request. Let me make example more clear. AF1 requires 10G bitrates in TA1 and PCF1 authorizes the BDT policy1 with 10G in TA1. AF2 requires 10G bitrates in TA1 and PCF2 authorizes the BDT policy2 with 10G in TA1. When the BDT policy negotiation is needed, the PCF1 and PCF2 may authorize a same new time window for AF1 and AF2. But in that in time window, The network only supports 15G bitrates in TA1.

Huawei made a proposal and will update the CR.

Huawei makes r1 available.

Ericsson: we still think that deferring the decision (i.e. wait until the invalidated BDT policies are removed or make valid again) is not a good/valid option.

Different PCFs may decide different policy candidates that might conflict, exactly in the same way than if different AFs request BDT Initial negotiation in parallel towards different PCFs. However, the problem shouldn’t be that a PCF provide a candidate in the same location area and timewindow that an invalidated BDT but there are different PCFs providing BDT candidates in parallel. So, I think there is no really reason for a PCF in a re-negotiation to wait until some invalidated BDT policies are removed. Once the BDT policy gets invalidated this BDT policy shouldn’t be visible for other PCFs in a negotiation or re-negotiation process. The BDT policy should be really removed instead of invalidated, but it is maintained invalidated to avoid sending twice URSPs to affected UEs in some scenarios.

Additionally, take into account that in case NWDAF notifies about a NW performance degradation to different PCFs, most likely the first PCF receiving the notification will be the one that will identify the affected BDT policies, select the new candidates for all these affected policies and will be the one invalidating the BDT policies in UDR.

In case HW still thinks the parallel negotiation or re-negotiation is still a problem because several PCFs can provide conflicting candidates may be they need to propose a different solution (e.g. to storing in UDR the BDT candidates so other PCFs can check if there are conflicting candidates).

Huawei: The scenario where different AFs request BDT Initial negotiation in parallel towards different PCFs is not a frequent scenario from my point of view. But the scenario of the NW performance degradation is a valid scenario and shall be considered.

The PCF usually subscribes the event with a location area which is derived from the network area requested by the AF. So the PCFs which receive the notification will all identify the affected BDT policies.

I agree they are potential conflict between different candidates provided by different PCFs which might be re-negotiating in parallel. But PCF can’t know whether they are conflict until re-negotiation is completed.

Huawei: Now I describe the handling that the PCF defer to calculate the BDT policy in a NOTE. R2 is made available.

Ericsson: As stated in yesterday’s conference call Ericsson cannot accept to defer a notification and identification of candidates BDT policies to the AF since we believe such proposal is not a good option.

Are you going to provide a new CR version and consider to accept other comments provided on r0 version?

**Decision:** The document was **revised to C3-205616**.

**C3-205616 Correction to the BDT policy re-negotiation**

*Type: CR For: Agreement  
 29.554 v16.4.0 CR-0054 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-205159)

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

**C3-205218 Removal of trailing forward slash in resource URI**

*Type: CR For: Agreement  
 29.517 v16.2.0 CR-0023 Cat: F (Rel-16)  
  
 Source: ZTE*

**Decision:** The document was **revised to C3-205476**.

**C3-205219 Correct TS title in externalDocs field**

*Type: CR For: Agreement  
 29.591 v16.2.0 CR-0027 Cat: F (Rel-16)  
  
 Source: ZTE*

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

**C3-205254 Mapping of expected analytics types and exception Ids**

*Type: CR For: Agreement  
 29.520 v16.5.0 CR-0227 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-205255 Mapping of expected analytics types and exception Ids**

*Type: CR For: Agreement  
 29.520 v17.0.0 CR-0228 Cat: A (Rel-17)  
  
 Source: Huawei*

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

**C3-205272 Analytics report correction**

*Type: CR For: Agreement  
 29.520 v16.5.0 CR-0229 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205540**.

**C3-205273 Analytics report correction**

*Type: CR For: Agreement  
 29.520 v17.0.0 CR-0230 Cat: A (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205541**.

**C3-205274 Error response for statistics request**

*Type: CR For: Agreement  
 29.520 v16.5.0 CR-0231 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205610**.

**C3-205275 Error response for statistics request**

*Type: CR For: Agreement  
 29.520 v17.0.0 CR-0232 Cat: A (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205611**.

**C3-205280 S-NSSAI applicability**

*Type: CR For: Agreement  
 29.520 v16.5.0 CR-0233 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-205281 S-NSSAI applicability**

*Type: CR For: Agreement  
 29.520 v17.0.0 CR-0234 Cat: A (Rel-17)  
  
 Source: Huawei*

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

**C3-205282 Feature for nsiLevelThrds attribute**

*Type: CR For: Agreement  
 29.520 v16.5.0 CR-0235 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205395**.

**C3-205283 Feature for nsiLevelThrds attribute**

*Type: CR For: Agreement  
 29.520 v17.0.0 CR-0236 Cat: A (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205396**.

**C3-205320 Corrections to Subscription Request in AnalyticsExposure API**

*Type: CR For: Agreement  
 29.522 v16.5.0 CR-0232 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205379**.

**C3-205321 Corrections to snssai dnn and appId exposed in AnalyticsExposure API**

*Type: CR For: Agreement  
 29.522 v16.5.0 CR-0233 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205380**.

**C3-205322 Corrections to any UE of Service Experience Analytics**

*Type: CR For: Agreement  
 29.520 v16.5.0 CR-0237 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205381**.

**C3-205323 Corrections to any UE of Service Experience Analytics**

*Type: CR For: Agreement  
 29.520 v17.0.0 CR-0238 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205382**.

**C3-205324 Updates CEF as NWDAF consumer of Nnwdaf\_EventsSubscription service**

*Type: CR For: Agreement  
 29.520 v16.5.0 CR-0239 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205383, C3-205384**.

**C3-205325 Updates CEF as NWDAF consumer of Nnwdaf\_EventsSubscription service**

*Type: CR For: Agreement  
 29.520 v17.0.0 CR-0240 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205385**.

**C3-205326 Corrections to location area usage**

*Type: CR For: Agreement  
 29.517 v16.2.0 CR-0025 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205386**.

**C3-205327 Corrections to location area usage**

*Type: CR For: Agreement  
 29.591 v16.2.0 CR-0029 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205387**.

**C3-205328 Corrections to location area usage**

*Type: CR For: Agreement  
 29.522 v16.5.0 CR-0234 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205388**.

**C3-205330 Corrections to Validity Period**

*Type: CR For: Agreement  
 29.520 v17.0.0 CR-0242 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205612**.

**C3-205331 Correctionsn to Threshold**

*Type: CR For: Agreement  
 29.520 v16.5.0 CR-0243 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205601**.

**C3-205332 Correctionsn to Threshold**

*Type: CR For: Agreement  
 29.520 v17.0.0 CR-0244 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205603**.

**C3-205333 Correction to SvcExperience**

*Type: CR For: Agreement  
 29.517 v16.2.0 CR-0026 Cat: F (Rel-17)  
  
 Source: Ericsson, China Mobile*

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

**C3-205379 Corrections to Subscription Request in AnalyticsExposure API**

*Type: CR For: Agreement  
 29.522 v16.5.0 CR-0232 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-205320)

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

**C3-205380 Correction to appId exposed in AnalyticsExposure API**

*Type: CR For: Agreement  
 29.522 v16.5.0 CR-0233 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-205321)

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

**C3-205381 Correction to suips of Service Experience Analytics**

*Type: CR For: Agreement  
 29.520 v16.5.0 CR-0237 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-205322)

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

**C3-205382 Correction to supis of Service Experience Analytics**

*Type: CR For: Agreement  
 29.520 v17.0.0 CR-0238 rev 1 Cat: A (Rel-17)  
  
 Source: Ericsson*

(Replaces C3-205323)

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

**C3-205383 Updates CEF as NWDAF consumer of Nnwdaf\_EventsSubscription service**

*Type: CR For: Agreement  
 29.520 v16.5.0 CR-0239 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson, Huawei*

(Replaces C3-205324)

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

**C3-205384 Updates CEF as NWDAF consumer of Nnwdaf\_EventsSubscription service**

*Type: CR For: Agreement  
 29.520 v16.5.0 CR-0239 rev 2 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-205324)

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

**C3-205385 Updates CEF as NWDAF consumer of Nnwdaf\_EventsSubscription service**

*Type: CR For: Agreement  
 29.520 v17.0.0 CR-0240 rev 1 Cat: A (Rel-17)  
  
 Source: Ericsson, Huawei*

(Replaces C3-205325)

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

**C3-205386 Corrections to location area usage**

*Type: CR For: Agreement  
 29.517 v16.2.0 CR-0025 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson*

(Replaces C3-205326)

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

**C3-205387 Corrections to location area usage**

*Type: CR For: Agreement  
 29.591 v16.2.0 CR-0029 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson*

(Replaces C3-205327)

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

**C3-205388 Corrections to location area usage**

*Type: CR For: Agreement  
 29.522 v16.5.0 CR-0234 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson*

(Replaces C3-205328)

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

**C3-205393 Correction to the BDT policy re-negotiation**

*Type: CR For: Agreement  
 29.525 v16.5.0 CR-0120 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-205157)

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

**C3-205394 Correction to the BDT policy re-negotiation**

*Type: CR For: Agreement  
 29.525 v17.0.0 CR-0121 rev 1 Cat: A (Rel-17)  
  
 Source: Huawei*

(Replaces C3-205158)

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

**C3-205395 Feature for nsiLevelThrds attribute**

*Type: CR For: Agreement  
 29.520 v16.5.0 CR-0235 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Ericsson*

(Replaces C3-205282)

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

**C3-205396 Feature for nsiLevelThrds attribute**

*Type: CR For: Agreement  
 29.520 v17.0.0 CR-0236 rev 1 Cat: A (Rel-17)  
  
 Source: Huawei, Ericsson*

(Replaces C3-205283)

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

**C3-205449 Correction to the BDT policy re-negotiation**

*Type: CR For: Agreement  
 29.512 v16.6.0 CR-0611 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-205153)

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

**C3-205450 Correction to the BDT policy re-negotiation**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0612 rev 1 Cat: A (Rel-17)  
  
 Source: Huawei*

(Replaces C3-205154)

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

**C3-205451 Correction to the BDT policy re-negotiation**

*Type: CR For: Agreement  
 29.519 v16.5.0 CR-0219 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Ericsson*

(Replaces C3-205155)

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

**C3-205452 Correction to the BDT policy re-negotiation**

*Type: CR For: Agreement  
 29.519 v17.0.0 CR-0220 rev 1 Cat: A (Rel-17)  
  
 Source: Huawei, Ericsson*

(Replaces C3-205156)

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

**C3-205476 Removal of trailing forward slash in resource URI**

*Type: CR For: Agreement  
 29.517 v16.2.0 CR-0023 rev 1 Cat: F (Rel-16)  
  
 Source: ZTE*

(Replaces C3-205218)

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

**C3-205540 Analytics report correction**

*Type: CR For: Agreement  
 29.520 v16.5.1 CR-0229 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-205272)

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

**C3-205541 Analytics report correction**

*Type: CR For: Agreement  
 29.520 v17.0.0 CR-0230 rev 1 Cat: A (Rel-17)  
  
 Source: Huawei*

(Replaces C3-205273)

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

**C3-205601 Correctionsn to Threshold**

*Type: CR For: Agreement  
 29.520 v16.5.1 CR-0243 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson, China Mobile*

(Replaces C3-205331)

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

**C3-205603 Correctionsn to Threshold**

*Type: CR For: Agreement  
 29.520 v17.0.0 CR-0244 rev 1 Cat: A (Rel-17)  
  
 Source: Ericsson, China Mobile*

(Replaces C3-205332)

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

**C3-205610 Error response for statistics request**

*Type: CR For: Agreement  
 29.520 v16.5.1 CR-0231 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Ericsson*

(Replaces C3-205274)

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

**C3-205611 Error response for statistics request**

*Type: CR For: Agreement  
 29.520 v17.0.0 CR-0232 rev 1 Cat: A (Rel-17)  
  
 Source: Huawei, Ericsson*

(Replaces C3-205275)

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

**C3-205612 Corrections to Validity Period**

*Type: CR For: Agreement  
 29.520 v17.0.0 CR-0242 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson*

(Replaces C3-205330)

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

### 16.5 CT aspects on eSBA [5G\_eSBA]

**C3-205037 TS 29.513 Usage of PCF Group ID for PCF selection when delegated discovery is used**

*Type: CR For: Agreement  
 29.513 v16.5.0 CR-0193 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205493**.

**C3-205038 TS 29.513 Usage of PCF Group ID for PCF selection when delegated discovery is used**

*Type: CR For: Agreement  
 29.513 v17.0.0 CR-0194 Cat: A (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205494**.

**C3-205072 Discussion on handling of Binding Headers for subscriptions on behalf of another NF**

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

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

**C3-205073 Correction to support NEF binding indication**

*Type: CR For: Agreement  
 29.519 v16.5.0 CR-0217 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205409**.

**C3-205074 Correction to support NEF binding indication**

*Type: CR For: Agreement  
 29.519 v17.0.0 CR-0218 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205410**.

**C3-205121 Correction to PCF Discovery and Selection**

*Type: CR For: Agreement  
 29.513 v16.5.0 CR-0197 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**C3-205122 Correction to PCF Discovery and Selection**

*Type: CR For: Agreement  
 29.513 v17.0.0 CR-0198 Cat: A (Rel-17)  
  
 Source: Ericsson*

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

**C3-205299 Correction to support redirection codes and callback URI and subsc correl updates**

*Type: CR For: Agreement  
 29.514 v16.6.0 CR-0273 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205430**.

**C3-205300 Correction to support Stateless NFs**

*Type: CR For: Agreement  
 29.523 v16.3.0 CR-0038 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205431**.

**C3-205301 Correction to support Stateless NFs**

*Type: CR For: Agreement  
 29.523 v17.0.0 CR-0039 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205432**.

**C3-205302 Correction to support redirection codes and the update of the Callback URI**

*Type: CR For: Agreement  
 29.554 v16.4.0 CR-0056 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205433**.

**C3-205409 Correction to support NEF binding indication**

*Type: CR For: Agreement  
 29.519 v16.5.0 CR-0217 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-205073)

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

**C3-205410 Correction to support NEF binding indication**

*Type: CR For: Agreement  
 29.519 v17.0.0 CR-0218 rev 1 Cat: A (Rel-17)  
  
 Source: Ericsson*

(Replaces C3-205074)

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

**C3-205430 Correction to support redirection codes and callback URI and subsc correl updates**

*Type: CR For: Agreement  
 29.514 v16.6.0 CR-0273 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-205299)

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

**C3-205431 Correction to support Stateless NFs**

*Type: CR For: Agreement  
 29.523 v16.3.0 CR-0038 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-205300)

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

**C3-205432 Correction to support Stateless NFs**

*Type: CR For: Agreement  
 29.523 v17.0.0 CR-0039 rev 1 Cat: A (Rel-17)  
  
 Source: Ericsson*

(Replaces C3-205301)

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

**C3-205433 Correction to support redirection codes and the update of the Callback URI**

*Type: CR For: Agreement  
 29.554 v16.4.0 CR-0056 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-205302)

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

**C3-205493 TS 29.513 Usage of PCF Group ID for PCF selection when delegated discovery is used**

*Type: CR For: Agreement  
 29.513 v16.5.0 CR-0193 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Ericsson*

(Replaces C3-205037)

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

**C3-205494 TS 29.513 Usage of PCF Group ID for PCF selection when delegated discovery is used**

*Type: CR For: Agreement  
 29.513 v17.0.0 CR-0194 rev 1 Cat: A (Rel-17)  
  
 Source: Huawei, Ericsson*

(Replaces C3-205038)

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

### 16.6 CT aspects of Access Traffic Steering, Switch and Splitting support in 5G system [ATSSS]

**C3-205027 refUmN3gData yaml correction**

*Type: CR For: Agreement  
 29.512 v16.6.0 CR-0569 Cat: F (Rel-16)  
  
 Source: Hewlett-Packard Enterprise*

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

**C3-205028 refUmN3gData yaml correction**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0570 Cat: A (Rel-17)  
  
 Source: Hewlett-Packard Enterprise*

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

**C3-205230 MA Support indication within UE Context policy control subscription information**

*Type: CR For: Agreement  
 29.519 v16.5.0 CR-0224 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**C3-205231 MA Support indication within UE Context policy control subscription information**

*Type: CR For: Agreement  
 29.519 v17.0.0 CR-0225 Cat: A (Rel-17)  
  
 Source: Ericsson*

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

### 16.7 CT aspects of 5GS enhanced support of vertical and LAN services [Vertical\_LAN]

**C3-205091 Remove NW-TT ports from TsnBridgeInfo type**

*Type: CR For: Agreement  
 29.512 v16.6.0 CR-0579 Cat: F (Rel-16)  
  
 Source: Intel / Thomas*

**Discussion:**

CP-201174 (CT1 leading)

This CR introduces a backwards compatible feature to the OpenAPI file.

Huawei: As the NW-TT ports are removed from the bridge info, so the bridge info will not be update during the PDU session modification. The bridge info can be removed from the policy control request trigger.

Prefer to merge with 5160/5161 and take the 5160/5161 as the basis.

Ericsson: Ericsson also agrees that it might be simpler if it is assumed that the dsttPortNumber, dsttResidTime, dsttAddr and bridgeId associated to a PDU session don’t change during the PDU session lifetime, and thus with Huawei proposal.

Intel: Intel is fine to merge 5091/5092 into 5160/5161.

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

**C3-205092 Remove NW-TT ports from TsnBridgeInfo type**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0580 Cat: A (Rel-17)  
  
 Source: Intel / Thomas*

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

**C3-205160 Remove the NW-TT port from the TSN bridge info**

*Type: CR For: Agreement  
 29.512 v16.6.0 CR-0613 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205512**.

**C3-205161 Remove the NW-TT port from the TSN bridge info**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0614 Cat: A (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205513**.

**C3-205162 Remove the NW-TT port from the TSN bridge info**

*Type: CR For: Agreement  
 29.514 v16.6.0 CR-0266 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205514**.

**C3-205163 URSP for VN Group**

*Type: CR For: Agreement  
 29.525 v16.5.0 CR-0122 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-205164 URSP for VN Group**

*Type: CR For: Agreement  
 29.525 v17.0.0 CR-0123 Cat: A (Rel-17)  
  
 Source: Huawei*

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

**C3-205296 Correct network identifier for SNPN**

*Type: CR For: Agreement  
 29.561 v16.5.0 CR-0067 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**C3-205351 Modification of UE Policy related clauses to support URSP rules for 5G VN Group**

*Type: CR For: Agreement  
 29.513 v16.5.0 CR-0213 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205411**.

**C3-205352 Modification of UE Policy related clauses to support URSP rules for 5G VN Group**

*Type: CR For: Agreement  
 29.513 v17.0.0 CR-0214 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205412**.

**C3-205353 Correction to URSP rules, support of 5G VN services**

*Type: CR For: Agreement  
 29.525 v16.5.0 CR-0131 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205413**.

**C3-205354 Correction to URSP rules, support of 5G VN services**

*Type: CR For: Agreement  
 29.525 v17.0.0 CR-0132 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205414**.

**C3-205411 Modification of UE Policy related clauses to support URSP rules for 5G VN Group**

*Type: CR For: Agreement  
 29.513 v16.5.0 CR-0213 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-205351)

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

**C3-205412 Modification of UE Policy related clauses to support URSP rules for 5G VN Group**

*Type: CR For: Agreement  
 29.513 v17.0.0 CR-0214 rev 1 Cat: A (Rel-17)  
  
 Source: Ericsson*

(Replaces C3-205352)

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

**C3-205413 Correction to URSP rules, support of 5G VN services**

*Type: CR For: Agreement  
 29.525 v16.5.0 CR-0131 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson, Huawei*

(Replaces C3-205353)

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

**C3-205414 Correction to URSP rules, support of 5G VN services**

*Type: CR For: Agreement  
 29.525 v17.0.0 CR-0132 rev 1 Cat: A (Rel-17)  
  
 Source: Ericsson, Huawei*

(Replaces C3-205354)

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

**C3-205512 Remove the NW-TT port from the TSN bridge info**

*Type: CR For: Agreement  
 29.512 v16.6.0 CR-0613 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Intel*

(Replaces C3-205160)

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

**C3-205513 Remove the NW-TT port from the TSN bridge info**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0614 rev 1 Cat: A (Rel-17)  
  
 Source: Huawei, Intel*

(Replaces C3-205161)

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

**C3-205514 Remove the NW-TT port from the TSN bridge info**

*Type: CR For: Agreement  
 29.514 v16.6.0 CR-0266 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-205162)

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

### 16.8 CT aspects of Enhancing Topology of SMF and UPF in 5G Networks [ETSUN]

### 16.9 CT aspects of System enhancements for Provision of Access to Restricted Local Operator Services by Unauthenticated Ues [PARLOS]

### 16.10 CT aspects on enhancement of network slicing [eNS]

### 16.11 CT aspects of Enhancement to the 5GC LoCation Services [5G\_eLCS]

**C3-205093 Essential Corrections to eLCS related monitoring events**

*Type: CR For: Agreement  
 29.122 v16.7.0 CR-0294 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205443**.

**C3-205094 Essential corrections and alignments**

*Type: CR For: Agreement  
 29.522 v16.5.0 CR-0220 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205444**.

**C3-205262 Correction on Location Service via NEF**

*Type: CR For: Agreement  
 29.122 v16.7.0 CR-0308 Cat: F (Rel-16)  
  
 Source: Huawei, KDDI*

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

**C3-205443 Essential Corrections to eLCS related monitoring events**

*Type: CR For: Agreement  
 29.122 v16.7.0 CR-0294 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-205093)

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

**C3-205444 Essential corrections and alignments**

*Type: CR For: Agreement  
 29.522 v16.5.0 CR-0220 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-205094)

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

**C3-205448 LS on the input parameters of the LCS subscription request from an AF via the NEF**

*Type: LS out For: Approval  
 to SA2, cc CT4  
 Source: Huawei*

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

### 16.12 CT Aspects of Media Handling for RAN Delay Budget Reporting in MTSI [E2E\_DELAY]

### 16.13 Cellular IoT support and evolution for the 5G System [5G\_CIoT]

**C3-205034 PCC control for DDD status and availability after DDN failure events**

*Type: CR For: Agreement  
 29.512 v16.6.0 CR-0571 Cat: F (Rel-16)  
  
 Source: CATT*

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

**C3-205035 PCC control for DDD status and availability after DDN failure events**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0572 Cat: A (Rel-17)  
  
 Source: CATT*

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

**C3-205165 Correction to ddd status when the SMF buffers the data**

*Type: CR For: Agreement  
 29.508 v16.5.0 CR-0106 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-205166 Correction to ddd status when the SMF buffers the data**

*Type: CR For: Agreement  
 29.508 v17.0.0 CR-0107 Cat: A (Rel-17)  
  
 Source: Huawei*

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

**C3-205167 PCC control for DDD status and availability after DDN failure events**

*Type: CR For: Agreement  
 29.512 v16.6.0 CR-0615 Cat: F (Rel-16)  
  
 Source: Huawei*

**Discussion:**

This CR introduces a backwards compatible correction to the OpenAPI file.

Ericsson: agrees on taking these CRs as base CRs for the merge with 5034/5035 .

In addition, please consider the following questions for clarifications and comments to these CRs:

• As per stage 2 requirements, it is allowed that the SMF (on behalf of the AF), for the same SDF, requests notifications about both, DDN Delivery status and DDN Failure events. Do you agree with it? If this is the case the PCC rule should allow the indication of the subscription to both types of notification.

• The SmPolicyUpdateContextData needs to indicate, per trafficDescriptor, whether it is related to DDN Delivery status or DDN failure, and the type of notification in case it is related to DDN Delivery status

• Editorials in 4.2.4.27, , upon reception of the HTTP POST message, Upon reception of the HTTP POST message,

• Clause 5.6.3.6 needs to be updated accordingly

Huawei: 29.122 only supports one monitoring type within one event subscription. It means that the AF can’t subscribe DDN failure and DDD status change simultaneously in one event subscription. In this case, it is not a good implementation for the PCF to aggregates the two events within one PCC rule. R1 is made available.

Ericsson: I don’t follow the explanation.

Can an AF subscribe to both events for a SDF? If the reply is YES (I understand it is YES) it would not be relevant for this discussion whether the AF does it with one subscription or with two, because what would matter for the SMF is the info that it stores per PCC rule about the notifications it has to trigger to the NEF…

Editorials in 4.2.4.27,-> note that there is repetition of text , upon reception of the HTTP POST message, Upon reception of the HTTP POST message,

Offline discussions to see if both data can be provided in the same PCC rule.

Huawei: The AF can subscribe to both events for a SDF, but it has to invoke separate subscriptions because only one instance of monitoring type is included in the MonitoringEventSubscription in 29.122. As the SMF report the event triggered by the subscription, it is not a good implementation to include both events in one notification.

Ericsson: My understanding is that the AF, e.g., could first subscribe to DDD status and then, for the same SDFs, for availability after DDN failure, if the SMF detects whether 4 in 4.15.3.2.8-1 and/or 6 in 4.15.3.2.9-1 based on the PCC rule info, the PCC rule needs to be able to keep info about both kind of notifications.

Huawei: What you described blow is not described in stage 2. We need more time to consider it. Can we resolve it in the next meeting?

Ericsson is fine with postponing it to next meeting.

Huawei: I mean we agree current version and resolve the issue you indicated in the next meeting.

Ericsson: The Rel-16 is frozen, and no editor’s can be added. Partial information cannot be included either.

This CR was to cover the impacts in PCC rules to support DDD status and availability after DDN failure events, and there are reasonable doubts to agree on anything on this meeting. What’s the problem with postponing it to next meeting?

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

**C3-205168 PCC control for DDD status and availability after DDN failure events**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0616 Cat: A (Rel-17)  
  
 Source: Huawei*

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

**C3-205205 Corrections to MonitoringEventReport**

*Type: CR For: Agreement  
 29.122 v16.7.0 CR-0299 Cat: F (Rel-16)  
  
 Source: ZTE*

**Decision:** The document was **revised to C3-205468**.

**C3-205206 notifId provided by the UDM for CIoT events**

*Type: CR For: Agreement  
 29.508 v16.5.0 CR-0111 Cat: F (Rel-16)  
  
 Source: ZTE*

**Decision:** The document was **revised to C3-205546**.

**C3-205207 notifId provided by the UDM for CIoT events**

*Type: CR For: Agreement  
 29.508 v17.0.0 CR-0112 Cat: A (Rel-17)  
  
 Source: ZTE*

**Decision:** The document was **revised to C3-205547**.

**C3-205267 Difference between 4G and 5G for ECRControl API**

*Type: CR For: Agreement  
 29.522 v16.5.0 CR-0227 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-205268 PDU session status**

*Type: CR For: Agreement  
 29.522 v16.5.0 CR-0228 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-205269 PDU session establishment**

*Type: CR For: Agreement  
 29.508 v16.5.0 CR-0113 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-205468 Corrections to MonitoringEventReport**

*Type: CR For: Agreement  
 29.122 v16.7.0 CR-0299 rev 1 Cat: F (Rel-16)  
  
 Source: ZTE, Huawei*

(Replaces C3-205205)

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

**C3-205546 notifId provided by the UDM for CIoT events**

*Type: CR For: Agreement  
 29.508 v16.5.0 CR-0111 rev 1 Cat: F (Rel-16)  
  
 Source: ZTE*

(Replaces C3-205206)

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

**C3-205547 notifId provided by the UDM for CIoT events**

*Type: CR For: Agreement  
 29.508 v17.0.0 CR-0112 rev 1 Cat: A (Rel-17)  
  
 Source: ZTE*

(Replaces C3-205207)

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

### 16.14 CT aspects on wireless and wireline convergence for the 5G system architecture [5WWC]

**C3-205288 Correct PEI for 5G-RG**

*Type: CR For: Agreement  
 29.561 v16.5.0 CR-0065 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Discussion:**

CP-192079 (CT1 leading)

Huawei: In the first change, it is described “For 5G-RG, the 3GPP-MAC-Address as permanent equipment id may be sent in Accounting-Request START/Interim-Update/STOP message.” But PEI is not defined 29.561. Why does the AAA need to know this MAC address is a PEI.

Huawei will check.

Ericsson: In TS 29.061, 3GPP-IMEI is representing PEI in pre-5G in accounting.

For 5G-RG, the PEI is in the form of MAC address.

Is this answering your question?

Huawei: In PCC specification, e.g. 29.512, we have following statements:

- The PEI that may be included within the "pei" attribute shall have one of the following representations:

i. When the UE supports only wireline access, the PEI shall be a MAC address.

NOTE: When the PEI includes an indication that the MAC address cannot be used as Equipment identifier, the PEI cannot be trusted for regulatory purposes and cannot be used for equipment based policy evaluation.

ii. When the UE supports at least one 3GPP access technology, the PEI shall be the allocated IMEI or IMEISV.

I think 29.561 is better to align with other specifications.

Ericsson: When GPSI is introduced in 5G, TS 29.561 uses different attributes for GPSI (i.e. Calling-Station-Id and external-id).

We already have 3GPP-IMEI and 3GPP-MAC-ADDRESS, why a new PEI attribute is needed which includes already defined IE?

Huawei: What I mean is that:

1) 3GPP-IMEISV can include the MAC address When the UE supports only wireline access

2) 3GPP-IMEISV can include the IMEI or IMEISV when the UE supports at least one 3GPP access technology.

So you only need to indicate above differences in the definition of 3GPP-IMEISV.

Ericsson: If you check TS 29.061, you will see it is not possible to have BC update to extend the existing 3GPP-IMEISV.

Huawei: Refers to PEI definition in TS 29.571. Ericsson’s proposal can’t support that definition.

Ericsson: Currently, whether accounting is applicable for N5GC device needs further study.

Once this requirement is identified, a new EUI-64 type MAC address can be added (but not now).

Huawei: I don’t find the requirement that accounting is applicable for 5G-RG either. 3GPP-UE-MAC-Address can only be used to indicate a MAC address. We can have following clarification: For 5G-RG, 3GPP-UE-MAC-Address represents the MAC address of 5G-RG.

Ericsson: The AAA accounting requirement is in CT3 remit, and according to 23.316, 5G-RG supports different accesses. At first, you said existing 3GPP-IMEISV can be improved, then you said TS 29.561 shall align with 29.571 definition to support different PEI formats.

Having only clarification without using it in appropriate message is not solving the problem.

Huawei: If you can’t accept to improve the 3GPP-IMEISV to carry other information, I prefer not to mention PEI and just to clarify that for 5G-RG, 3GPP-UE-MAC-Address represents the MAC address of 5G-RG.

Ericsson: Could you show me how to improve 3GPP-IMEISV to include other info (with backward compatibility in mind)?

Huawei makes a proposal to reuse the IMEISV: when the SMF receives the PEI containing the MAC address as defined in 29.502 for 5G-RG case, the SMF shall encod the MAC address as permanent equipment id according to IETF RFC 7042 where n=6.

Ericsson: I see. But this can only be done in non-frozen release.

Imaging the old AAA receives the 3GPP-IMEISV with MAC encoding, it cannot decode it because it checks whether length field has value 16 to 18 and whether the all content field has value 0-9 (i.e. digit).

Huawei: It doesn’t depend on which release we define it in. Even we define it in rel-17, the SMF is still not sure that the DN-AAA can recognize it unless we define a new supported feature.

In your original proposal, the old AAA treats the information contained in the 3GPP-MAC-Address as a MAC address rather than a PEI.

Ericsson: The BC rule is that the legacy behavior is not impacted. If the legacy AAA can decode the IE correctly, it shall not be disturbed by new MAC in 3GPP-IMEISV.

In my original proposal, if accounting AAA can process the new IE, it will react accordingly, the old AAA which doesn’t support the new IE keeps existing behavior and will not recognize the new IE.

This is important concept for BC, what do you think?

Huawei: When we extent the existing attribute, the legacy entity can’t decode the new value. Do you think there is any problem? The DN-AAA will reject the request or just ignore this attribute?

Ericsson: It is depending on how you extend the value.For instance, if we have value 0-5 reserved, and 6 is used to indicate a meaning in one release.

Then in the next release, value 5 is used to indicate something else it is BC.

In 3GPP-IMEISV, it has length limitation (only 16, 17 & 18 are valid options) in a TLV encoding.

Huawei: We usually add new values or new attribute in rel-15 with a BC CR when we think there are some errors need to be corrected. I still think BC or NBC is not related to the release.

Huawei will further think about it.

Huawei: I can accept 3GPP-MAC-Address now. But I have following question:

In the definition of 3GPP-UE-MAC-Address, the 3GPP-MAC-Address can be sent in the Accounting-Request Interim-Update. If I understand correctly, it shall be also included in Accounting-Request START/STOP. Right? Is there something missing in the current description?

Ericsson: Please check 5288\_r0 again, accounting-Request start/stop is mentioned.

Huawei: What I mean is that Access-Request START/STOP shall be include for 3GPP-MAC-Addresss when it was defined. I don’t think it is correct the 3GPP-MAC-Addresss is only applicable to the Interim-Update before.

Ericsson: it is also in r0, table 11.3-3. If not, could you be specific what subclause you were refereeing to?

Huawei: Before you introduce the CR, the 3GPP-MAC-Address is only applicable to the Accounting-Request Interim-Update as follows:

When sending from the SMF to the DN-AAA, it indicates UE MAC addresses in use. Multiple 3GPP-MAC-Address sub-attributes may be sent in one RADIUS Access-Request or Accounting-Request Interim-Update message.

Could you please clarify that UE MAC address is only applicable to the Accounting-Request Interim-Update, while the 5G-RG is applicable to accounting-Request start/stop and Interim-Update?

Ericsson: The legacy text is applicable for Ethernet PDU session.

The new text is applicable for 5G-RG.

To answer your question, it doesn’t say “UE MAC address is only applicable”, it says “it may be sent”, please double check.

Huawei: But in the table, there’s no Accounting-Request start/stop applicable to the 3GPP-MAC-Address before you introduce the CR.

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

**C3-205289 Correct applicability for User Location extension**

*Type: CR For: Agreement  
 29.561 v16.5.0 CR-0066 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205487**.

**C3-205307 Updates to IPv6 Prefix Delegation**

*Type: CR For: Agreement  
 29.561 v16.5.0 CR-0069 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**C3-205487 Correct applicability for User Location extension**

*Type: CR For: Agreement  
 29.561 v16.5.0 CR-0066 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-205289)

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

### 16.15 Volume Based Charging Aspects for VoLTE [VBCLTE]

### 16.16 CT aspects of optimisations on UE radio capability signalling [RACS]

**C3-205294 Correct UCMF id**

*Type: CR For: Agreement  
 29.675 v16.2.0 CR-0017 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205484**.

**C3-205295 Correct UCMF id**

*Type: CR For: Agreement  
 29.675 v17.0.0 CR-0018 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205485**.

**C3-205484 Correct UCMF id**

*Type: CR For: Agreement  
 29.675 v16.2.0 CR-0017 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-205294)

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

**C3-205485 Correct UCMF id**

*Type: CR For: Agreement  
 29.675 v17.0.0 CR-0018 rev 1 Cat: A (Rel-17)  
  
 Source: Ericsson*

(Replaces C3-205295)

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

### 16.17 Service Based Interface Protocol Enhancement [SBIProtoc16]

**C3-205039 TS 29.122 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.122 v16.7.0 CR-0291 Cat: F (Rel-16)  
  
 Source: Huawei*

**Discussion:**

CP-191060 (CT4 leading)

Ericsson: has the following comments:

• This CR does not contain any FASMO correction. Should be release 17 CR, work item SBIProtoc17.

• General comment: if the word "shall" is used in the sentence (i.e. not in the formal bullet list) then "shall" should not be deleted to avoid making unclear requirements. For example:

o - in 4.4.2.2.2.2: "shall" in the last sentence should not be removed because it will be unclear if the SCEF respond or shall not.

o - in 4.4.2.2.2.3: the 1st sentence after bullet list: "shall" should not be removed because it will be unclear if the SCEF shall respond or shall not.

• Clause 4.4.2.2.2.3: the 2nd bullet: should be HTTP response, not PUT response with 200 OK. Also, in the 1st bullet HTTP POST response should be also corrected and aligned with the 3rd bullet.

• Clause 5.3.4: style not corrected to TAL.

• Clause 5.6.3.1: style incorrectly changed, not TAL.

• Missing update of clause 5.12.3.1.

Huawei:

1st comment: We do not agree. Cf. my answer to your similar comment on 5042.

2nd comment: I do not agree with your analysis. The first “shall” in both these sentences applies for all the actions that come after it. No need to repeat it each time.

Rest of comments accepted. R1 is made available.

CT3 agrees:

\*To use “subclause” for existing TSs created before Rel-16 and following releases (mirrors).

\*For TSs that use already “clause”, clause should continue being used.

\*For TSs that already use both, correct “subclause” to “clause” if the TS was created in Release 16. Rapporteur (or another delegate if accepted by rapporteur) uses an existing FASMO Rel-16 CR to do the change.

\*For new TSs in Rel-17, “clause” is to be used.

**Decision:** The document was **revised to C3-205517**.

**C3-205040 TS 29.222 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.222 v16.4.0 CR-0160 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205518**.

**C3-205041 TS 29.486 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.486 v16.1.0 CR-0012 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205519**.

**C3-205042 TS 29.507 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.507 v16.5.0 CR-0136 Cat: F (Rel-16)  
  
 Source: Huawei*

**Discussion:**

Nokia: In the CR “sub” is removed from the word subclause (In the past there was the strategy to use clause for high level headings, but subclause for lower level headings. At one time this usage was changes to clause, probably for new specifications. I cannot remember exactly when.). This morning I revised seven CRs (e.g. C3-205075 and mirror, same for 29.508, 29.594 and 29.525) in which I reintroduced(kept) the “sub” for a subheading based on Nevenka’s comment for ETSI Forge CRs (“…in this TS we are using subclause. Therefore, should be subclause 5.3.1, not clause 5.3.1.”).

Based on this we should keep subclause for lower level headings. Could be this also holds true for other CRs named “essential correction” I did not check this in detail.

Ericsson: This CR does not contain any FASMO correction. Alignment with SBI template with the proposed changes should be done for release 17 only, therefore this CR should not be agreed.

See Nokias’s comment in 5043.

Huawei: I agree to revert the changes related to “subclause” vs “clause” for this CR, as TS 29.507 is indeed an “old” specification that should maybe keep the wording “subclause”. However, we need to discuss all together to clarify this topic and agree on a common rule/handling, i.e.:

- Should we keep the wording “subclause” for “old” specifications only regardless of the release? This means that we should update it for all the “new” specifications that were introduced in Rel-16.

- Another way could be to agree that we should keep it for Rel-15 and Rel-16 specifications (including the new ones introduced in Rel-16) and start updating to “clause”, as recommended in CT4 (I remember that it was a recommendation from CT), starting from Rel-16 or Rel-17.

Huawei: We do not agree that the changes proposed in this CR should be introduced only starting from Rel-17 for the following reasons:

- Regarding the changes related to the resource URI that should contain a relative URI below root in the “Resources and methods overview”:

o Clause 5.1 defines already the API URI and its base URI part, i.e. {apiRoot}/<apiName>/<apiVersion>/, with the values of apiName and apiVersion specified, knowing that apiRoot is a variable. It also clearly states that “<apiSpecificResourceUriPart> shall be set as described in subclause 5.3”. In this sense, the current clause 5.3 is not aligned with 5.1, which could create confusions and be a source of errors.

o This misalignment is present since Rel-15 in CT3 specifications. I understand that we should not change it from Rel-15 as it is deeply frozen, that is actually why we did not propose it starting from Rel-15, but we think that it should be corrected from Rel-16 onwards to avoid confusions and also align with CT4 specifications that are using a relative URI below root.

o I think that it is highly important to keep consistency across CT SBI specifications on these common aspects.

- Regarding the changes related to the “Notifications overview” tables:

o Regardless of any discussion on the alignment with the SBI TS skeleton, the titles of the some columns of the tables are simply wrong and highly confusing!

o As an example, a notification URI is not a “Custom operation URI” and “POST” is an HTTP method, not a “Mapped HTTP method”. In addition, as CT3 uses several “custom” notifications (e.g. {notificationUri}/update), the new title of the third column, i.e. “HTTP method or custom operation”, takes all its meaning.

o In addition, CT4 agreed to correct the same tables in all their specifications starting from Rel-16 in the previous CT4 meeting last August at the same time as agreeing the CR (C4-204384) that updates the SBI TS template. I see it natural that CT3 aligns with this new template, especially that these are serious errors as explained above, during this meeting.

- In addition to the above, as Rel-16 is not yet that deeply frozen, we should take the chance to correct such errors starting from Rel-16. CT4 is doing the same on several topics (e.g. eSBA) and we are also doing the same in other WIs.

R1 is made available. See 5043.

Nokia: The following comment holds true for several CRs. So I will not repeat it again and again.

I must agree with Ericsson that these changes are not FASMO and we said in the last meeting we will start this meeting not to accept non-FASMO CRs as a general guideline for Release 16. For developers it is obvious to use a notification in the right way independent whether the title in the table (e.g. 5.5.1-1 with Mapped HTTP method or HTTP method or custom operation) is misleading or whether the word update or terminate is mentioned in a notification line.

For the Resource URI we could discuss to change the resource URI to the relative part from Release 17 onwards. I can agree to do such change from Release 17 onwards and I already accepted it for C3-205223-r2 (R17 onwards) to be consistent as we said during the phone discussion last week.

On the other hand, based on the groups decision I can accept the changes.

After thinking about subclause or clause I prefer to keep the decision as Ericsson mentions. Specifications created in Release 15 and upgraded to further releases shall keep the word subclause and the word clause for highest level headline, because the specification guidelines were used existing at that time, but new specifications can use clause always due to guidelines changed later. Therefore, if a specification with the usage of subclause exists, we should not change subclause to clause. I think a developer will understand the intension in both cases. Therefore, I cannot agree to change the term subclause to clause. So thank you to remove the subclause change from the CR.

Nokia: I would prefer to keep it for specifications created in Release 15 generally , because the specification were created based on the writing guidelines. That means, there is no update required for the following release for such specifications as well. I think, this would fit to your first bullet and CT4 makes a recommendation only. If it would be not be a recommendation the question occurs, who is responsible for the update, MCC or rapporteur? Of course new specifications should use the latest writing guidelines.

Ericsson to Huawei:

1st bullet: I do not agree that these clauses are not aligned. First in SBI "{apiRoot}/<apiName>/<apiVersion>" is shown in figure 6.1.3.1-1 (and then in every SBI CT3 and CT4 TSs in the corresponding figures). Therefore I cannot agree with the statement that e.g. for TS 29.507 clause 5.1 is not aligned with 5.3 when according to SBI template figure 5.3.1-1 shows "{apiRoot}/npcf-am-policy-control/v1", especially that it can be source of errors.

2nd bullet: This is not completely correct. When agreed this change CT4 only corrected Rel-16 CT4 TSs as they believed such change is not FASMO. Please check rel-15 versions of CT4 TSs.

3rd bullet: I do not understand about which serious errors you are talking about.

Drafting rules does not make any differences between frozen releases and do not specify definition of deeply frozen release. My understanding of CT3 is that only FASMO errors are considered for release 16. We made this exception only for the first meeting after release 16 freeze, which was August meeting, but even this exception was agreed in CT3 conference call and was not applicable for every change.

If CT3 agrees for this meeting to made similar exception then fine, but should be discussed in conference call.

Huawei to Nokia: These are just an assumptions in my opinion. The way I see it, it is first of all just wrong and can be really misleading. We should not develop standards based on assumptions of what developers will understand, we should rather make sure that everything is clear as much as possible.

In addition, CT4 just did similar corrections during the previous CT4 e-meeting last august. As they are leading these common SBI aspects, it is natural that CT3 aligns in the CT3 e-meeting that comes right afterwards, especially knowing that Rel-16 is still not deeply frozen. Also, if we do not make these changes starting from Rel-16, we will have inconsistencies between CT3 and CT4 specifications, which is not desirable for the overall consistency of the CT SBI specifications.

Further clarification on why resource URI can be changed to the relative part from Release 17 onwards

For last point, I have reverted the related changes as already mentioned. Please check new version of the CRs. I am just saying that we need to have a discussion as a group on how we handle this matter.

Huawei: Table 5.3.1-1 is aligned with the SBI skeleton as you have stated, which is normal because it shows the resource structure. My statement was related to Table 5.3.1-1, which is clearly not aligned.

Some CT4 specifications (e.g. TS 29.503, TS 29.540) are aligned with the SBI skeleton all the way from Rel-15, and CT4 took the chance to align all the others in Rel-16. I think we should simply do the same as it is still time!

Nokia to Huawei’s question: Because it is in the definition row of the table.

Ongoing discussions on whether this is FASMO or not and whether this can be acceptable in Rel-16. Huawei will make a summary of the open aspects and the motivation to have the functionality part of Release 16.

**Decision:** The document was **revised to C3-205520**.

**C3-205043 TS 29.507 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.507 v17.0.0 CR-0137 Cat: A (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205521**.

**C3-205044 TS 29.508 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.508 v16.5.0 CR-0102 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205522**.

**C3-205045 TS 29.508 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.508 v17.0.0 CR-0103 Cat: A (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205523**.

**C3-205046 TS 29.512 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.512 v16.6.0 CR-0573 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-205047 TS 29.512 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0574 Cat: A (Rel-17)  
  
 Source: Huawei*

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

**C3-205048 TS 29.514 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.514 v16.6.0 CR-0262 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205524**.

**C3-205049 TS 29.517 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.517 v16.2.0 CR-0021 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205525**.

**C3-205050 TS 29.519 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.519 v16.5.0 CR-0215 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-205051 TS 29.519 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.519 v17.0.0 CR-0216 Cat: A (Rel-17)  
  
 Source: Huawei*

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

**C3-205052 TS 29.520 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.520 v16.5.0 CR-0222 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205526**.

**C3-205053 TS 29.520 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.520 v17.0.0 CR-0223 Cat: A (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205527**.

**C3-205054 TS 29.521 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.521 v16.5.0 CR-0093 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205528**.

**C3-205055 TS 29.522 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.522 v16.5.0 CR-0219 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205529**.

**C3-205056 TS 29.523 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.523 v16.3.0 CR-0032 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205530**.

**C3-205057 TS 29.523 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.523 v17.0.0 CR-0033 Cat: A (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205531**.

**C3-205058 TS 29.525 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.525 v16.5.0 CR-0114 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205532**.

**C3-205059 TS 29.525 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.525 v17.0.0 CR-0115 Cat: A (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205533**.

**C3-205060 TS 29.549 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.549 v16.1.0 CR-0010 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205534**.

**C3-205061 TS 29.551 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.551 v16.5.0 CR-0040 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205535**.

**C3-205062 TS 29.551 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.551 v17.0.0 CR-0041 Cat: A (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205536**.

**C3-205063 TS 29.554 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.554 v16.4.0 CR-0053 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205537**.

**C3-205064 TS 29.591 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.591 v16.2.0 CR-0025 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205538**.

**C3-205065 TS 29.594 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.594 v16.3.0 CR-0061 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205539**.

**C3-205066 TS 29.675 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.675 v16.2.0 CR-0013 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-205067 TS 29.675 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.675 v17.0.0 CR-0014 Cat: A (Rel-17)  
  
 Source: Huawei*

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

**C3-205068 TS 29.513 Wrong references correction**

*Type: CR For: Agreement  
 29.513 v16.5.0 CR-0195 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-205069 TS 29.513 Wrong references correction**

*Type: CR For: Agreement  
 29.513 v17.0.0 CR-0196 Cat: A (Rel-17)  
  
 Source: Huawei*

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

**C3-205075 Storage of YAML files in 3GPP Forge**

*Type: CR For: Agreement  
 29.507 v16.5.0 CR-0138 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to C3-205370**.

**C3-205076 Storage of YAML files in 3GPP Forge**

*Type: CR For: Agreement  
 29.508 v16.5.0 CR-0104 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to C3-205371**.

**C3-205077 Storage of YAML files in 3GPP Forge**

*Type: CR For: Agreement  
 29.525 v16.5.0 CR-0116 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to C3-205372**.

**C3-205078 Storage of YAML files in 3GPP Forge**

*Type: CR For: Agreement  
 29.594 v16.3.0 CR-0062 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to C3-205373**.

**C3-205079 Storage of YAML files in 3GPP Forge**

*Type: CR For: Agreement  
 29.507 v17.0.0 CR-0139 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to C3-205374**.

**C3-205080 Storage of YAML files in 3GPP Forge**

*Type: CR For: Agreement  
 29.508 v17.0.0 CR-0105 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to C3-205375**.

**C3-205081 Storage of YAML files in 3GPP Forge**

*Type: CR For: Agreement  
 29.525 v17.0.0 CR-0117 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to C3-205376**.

**C3-205169 Storage of YAML files in 3GPP Forge**

*Type: CR For: Agreement  
 29.486 v16.1.0 CR-0013 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-205170 Storage of YAML files in 3GPP Forge**

*Type: CR For: Agreement  
 29.512 v16.6.0 CR-0617 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-205171 Storage of YAML files in 3GPP Forge**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0618 Cat: A (Rel-17)  
  
 Source: Huawei*

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

**C3-205185 Storage of YAML files in 3GPP Forge**

*Type: CR For: Agreement  
 29.122 v16.7.0 CR-0296 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-205186 Storage of YAML files in 3GPP Forge**

*Type: CR For: Agreement  
 29.517 v16.2.0 CR-0022 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-205187 Storage of YAML files in 3GPP Forge**

*Type: CR For: Agreement  
 29.519 v16.5.0 CR-0221 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-205188 Storage of YAML files in 3GPP Forge**

*Type: CR For: Agreement  
 29.519 v17.0.0 CR-0222 Cat: A (Rel-17)  
  
 Source: Huawei*

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

**C3-205189 Storage of YAML files in 3GPP Forge**

*Type: CR For: Agreement  
 29.522 v16.5.0 CR-0222 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-205190 Storage of YAML files in 3GPP Forge**

*Type: CR For: Agreement  
 29.591 v16.2.0 CR-0026 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-205220 Storage of YAML files in 3GPP Forge**

*Type: CR For: Agreement  
 29.551 v16.5.0 CR-0052 Cat: F (Rel-16)  
  
 Source: ZTE*

**Decision:** The document was **revised to C3-205477**.

**C3-205221 Storage of YAML files in 3GPP Forge**

*Type: CR For: Agreement  
 29.551 v17.0.0 CR-0053 Cat: A (Rel-17)  
  
 Source: ZTE*

**Decision:** The document was **revised to C3-205478**.

**C3-205232 Storage of YAML files in ETSI Forge**

*Type: CR For: Agreement  
 29.514 v16.6.0 CR-0272 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205415**.

**C3-205233 Storage of YAML files in ETSI Forge**

*Type: CR For: Agreement  
 29.523 v16.3.0 CR-0034 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205416**.

**C3-205234 Storage of YAML files in ETSI Forge**

*Type: CR For: Agreement  
 29.523 v17.0.0 CR-0035 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205417**.

**C3-205235 Storage of YAML files in ETSI Forge**

*Type: CR For: Agreement  
 29.554 v16.4.0 CR-0055 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205418**.

**C3-205236 Storage of YAML files in ETSI Forge**

*Type: CR For: Agreement  
 29.675 v16.2.0 CR-0015 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205419**.

**C3-205237 Storage of YAML files in ETSI Forge**

*Type: CR For: Agreement  
 29.675 v17.0.0 CR-0016 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205420**.

**C3-205246 Callback URI correction**

*Type: CR For: Agreement  
 29.122 v16.7.0 CR-0301 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205545**.

**C3-205247 Callback URI correction**

*Type: CR For: Agreement  
 29.517 v16.2.0 CR-0024 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205549**.

**C3-205248 Callback URI correction**

*Type: CR For: Agreement  
 29.519 v16.5.0 CR-0226 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205550**.

**C3-205249 Callback URI correction**

*Type: CR For: Agreement  
 29.519 v17.0.0 CR-0227 Cat: A (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205551**.

**C3-205250 Callback URI correction**

*Type: CR For: Agreement  
 29.522 v16.5.0 CR-0224 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205552**.

**C3-205251 Callback URI correction**

*Type: CR For: Agreement  
 29.591 v16.2.0 CR-0028 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205553**.

**C3-205336 Storage of YAML files in 3GPP Forge**

*Type: CR For: Agreement  
 29.222 v16.4.0 CR-0163 Cat: F (Rel-16)  
  
 Source: Samsung Electronics Iberia SA*

**Decision:** The document was **revised to C3-205437**.

**C3-205337 Storage of YAML files in 3GPP Forge**

*Type: CR For: Agreement  
 29.549 v16.1.0 CR-0012 Cat: F (Rel-16)  
  
 Source: Samsung Electronics Iberia SA*

**Decision:** The document was **revised to C3-205438**.

**C3-205370 Storage of YAML files in 3GPP Forge**

*Type: CR For: Agreement  
 29.507 v16.5.0 CR-0138 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces C3-205075)

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

**C3-205371 Storage of YAML files in 3GPP Forge**

*Type: CR For: Agreement  
 29.508 v16.5.0 CR-0104 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces C3-205076)

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

**C3-205372 Storage of YAML files in 3GPP Forge**

*Type: CR For: Agreement  
 29.525 v16.5.0 CR-0116 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces C3-205077)

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

**C3-205373 Storage of YAML files in 3GPP Forge**

*Type: CR For: Agreement  
 29.594 v16.3.0 CR-0062 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces C3-205078)

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

**C3-205374 Storage of YAML files in 3GPP Forge**

*Type: CR For: Agreement  
 29.507 v17.0.0 CR-0139 rev 1 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces C3-205079)

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

**C3-205375 Storage of YAML files in 3GPP Forge**

*Type: CR For: Agreement  
 29.508 v17.0.0 CR-0105 rev 1 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces C3-205080)

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

**C3-205376 Storage of YAML files in 3GPP Forge**

*Type: CR For: Agreement  
 29.525 v17.0.0 CR-0117 rev 1 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces C3-205081)

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

**C3-205415 Storage of YAML files in ETSI Forge**

*Type: CR For: Agreement  
 29.514 v16.6.0 CR-0272 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-205232)

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

**C3-205416 Storage of YAML files in ETSI Forge**

*Type: CR For: Agreement  
 29.523 v16.3.0 CR-0034 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-205233)

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

**C3-205417 Storage of YAML files in ETSI Forge**

*Type: CR For: Agreement  
 29.523 v17.0.0 CR-0035 rev 1 Cat: A (Rel-17)  
  
 Source: Ericsson*

(Replaces C3-205234)

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

**C3-205418 Storage of YAML files in ETSI Forge**

*Type: CR For: Agreement  
 29.554 v16.4.0 CR-0055 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-205235)

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

**C3-205419 Storage of YAML files in ETSI Forge**

*Type: CR For: Agreement  
 29.675 v16.2.0 CR-0015 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-205236)

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

**C3-205420 Storage of YAML files in ETSI Forge**

*Type: CR For: Agreement  
 29.675 v17.0.0 CR-0016 rev 1 Cat: A (Rel-17)  
  
 Source: Ericsson*

(Replaces C3-205237)

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

**C3-205437 Storage of YAML files in 3GPP Forge**

*Type: CR For: Agreement  
 29.222 v16.4.0 CR-0163 rev 1 Cat: F (Rel-16)  
  
 Source: Samsung Electronics Iberia SA*

(Replaces C3-205336)

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

**C3-205438 Storage of YAML files in 3GPP Forge**

*Type: CR For: Agreement  
 29.549 v16.1.0 CR-0012 rev 1 Cat: F (Rel-16)  
  
 Source: Samsung Electronics Iberia SA*

(Replaces C3-205337)

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

**C3-205477 Storage of YAML files in 3GPP Forge**

*Type: CR For: Agreement  
 29.551 v16.5.0 CR-0052 rev 1 Cat: F (Rel-16)  
  
 Source: ZTE*

(Replaces C3-205220)

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

**C3-205478 Storage of YAML files in 3GPP Forge**

*Type: CR For: Agreement  
 29.551 v17.0.0 CR-0053 rev 1 Cat: A (Rel-17)  
  
 Source: ZTE*

(Replaces C3-205221)

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

**C3-205517 TS 29.122 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.122 v16.7.0 CR-0291 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-205039)

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

**C3-205518 TS 29.222 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.222 v16.4.0 CR-0160 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-205040)

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

**C3-205519 TS 29.486 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.486 v16.1.0 CR-0012 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-205041)

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

**C3-205520 TS 29.507 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.507 v16.5.0 CR-0136 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-205042)

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

**C3-205521 TS 29.507 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.507 v17.0.0 CR-0137 rev 1 Cat: A (Rel-17)  
  
 Source: Huawei*

(Replaces C3-205043)

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

**C3-205522 TS 29.508 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.508 v16.5.0 CR-0102 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-205044)

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

**C3-205523 TS 29.508 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.508 v17.0.0 CR-0103 rev 1 Cat: A (Rel-17)  
  
 Source: Huawei*

(Replaces C3-205045)

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

**C3-205524 TS 29.514 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.514 v16.6.0 CR-0262 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-205048)

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

**C3-205525 TS 29.517 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.517 v16.2.0 CR-0021 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-205049)

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

**C3-205526 TS 29.520 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.520 v16.5.0 CR-0222 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-205052)

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

**C3-205527 TS 29.520 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.520 v17.0.0 CR-0223 rev 1 Cat: A (Rel-17)  
  
 Source: Huawei*

(Replaces C3-205053)

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

**C3-205528 TS 29.521 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.521 v16.5.0 CR-0093 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-205054)

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

**C3-205529 TS 29.522 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.522 v16.5.0 CR-0219 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-205055)

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

**C3-205530 TS 29.523 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.523 v16.3.0 CR-0032 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-205056)

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

**C3-205531 TS 29.523 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.523 v17.0.0 CR-0033 rev 1 Cat: A (Rel-17)  
  
 Source: Huawei*

(Replaces C3-205057)

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

**C3-205532 TS 29.525 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.525 v16.5.0 CR-0114 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-205058)

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

**C3-205533 TS 29.525 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.525 v17.0.0 CR-0115 rev 1 Cat: A (Rel-17)  
  
 Source: Huawei*

(Replaces C3-205059)

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

**C3-205534 TS 29.549 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.549 v16.1.0 CR-0010 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-205060)

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

**C3-205535 TS 29.551 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.551 v16.5.0 CR-0040 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-205061)

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

**C3-205536 TS 29.551 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.551 v17.0.0 CR-0041 rev 1 Cat: A (Rel-17)  
  
 Source: Huawei*

(Replaces C3-205062)

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

**C3-205537 TS 29.554 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.554 v16.4.0 CR-0053 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-205063)

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

**C3-205538 TS 29.591 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.591 v16.2.0 CR-0025 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, ZTE*

(Replaces C3-205064)

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

**C3-205539 TS 29.594 Essential Corrections and alignments**

*Type: CR For: Agreement  
 29.594 v16.3.0 CR-0061 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-205065)

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

**C3-205545 Callback URI correction**

*Type: CR For: Agreement  
 29.122 v16.7.0 CR-0301 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, ZTE*

(Replaces C3-205246)

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

**C3-205549 Callback URI correction**

*Type: CR For: Agreement  
 29.517 v16.2.0 CR-0024 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-205247)

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

**C3-205550 Callback URI correction**

*Type: CR For: Agreement  
 29.519 v16.5.0 CR-0226 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-205248)

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

**C3-205551 Callback URI correction**

*Type: CR For: Agreement  
 29.519 v17.0.0 CR-0227 rev 1 Cat: A (Rel-17)  
  
 Source: Huawei*

(Replaces C3-205249)

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

**C3-205552 Callback URI correction**

*Type: CR For: Agreement  
 29.522 v16.5.0 CR-0224 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-205250)

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

**C3-205553 Callback URI correction**

*Type: CR For: Agreement  
 29.591 v16.2.0 CR-0028 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-205251)

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

### 16.18 CT aspects of eV2XARC [eV2XARC]

**C3-205172 Correction to Alternative QoS Parameter**

*Type: CR For: Agreement  
 29.122 v16.7.0 CR-0295 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205453**.

**C3-205173 Correction to Alternative QoS Parameter**

*Type: CR For: Agreement  
 29.522 v16.5.0 CR-0221 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-205174 Correction to Alternative QoS Parameter**

*Type: CR For: Agreement  
 29.512 v16.6.0 CR-0619 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205457**.

**C3-205175 Correction to Alternative QoS Parameter**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0620 Cat: A (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205458**.

**C3-205176 Correction to Alternative QoS Parameter**

*Type: CR For: Agreement  
 29.514 v16.6.0 CR-0267 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205467**.

**C3-205347 Correction to Alternative QoS parameter mapping**

*Type: CR For: Agreement  
 29.513 v16.5.0 CR-0209 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**C3-205348 Correction to Alternative QoS parameter mapping**

*Type: CR For: Agreement  
 29.513 v17.0.0 CR-0210 Cat: A (Rel-17)  
  
 Source: Ericsson*

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

**C3-205349 Correction to Alternative QoS as binding parameter**

*Type: CR For: Agreement  
 29.513 v16.5.0 CR-0211 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205434**.

**C3-205350 Correction to Alternative QoS as binding parameter**

*Type: CR For: Agreement  
 29.513 v17.0.0 CR-0212 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205435**.

**C3-205434 Correction to Alternative QoS as binding parameter**

*Type: CR For: Agreement  
 29.513 v16.5.0 CR-0211 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-205349)

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

**C3-205435 Correction to Alternative QoS as binding parameter**

*Type: CR For: Agreement  
 29.513 v17.0.0 CR-0212 rev 1 Cat: A (Rel-17)  
  
 Source: Ericsson*

(Replaces C3-205350)

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

**C3-205453 Correction to Alternative QoS Parameter**

*Type: CR For: Agreement  
 29.122 v16.7.0 CR-0295 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-205172)

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

**C3-205457 Correction to Alternative QoS Parameter**

*Type: CR For: Agreement  
 29.512 v16.6.0 CR-0619 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-205174)

**Decision:** The document was **revised to C3-205607**.

**C3-205458 Correction to Alternative QoS Parameter**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0620 rev 1 Cat: A (Rel-17)  
  
 Source: Huawei*

(Replaces C3-205175)

**Decision:** The document was **revised to C3-205608**.

**C3-205467 Correction to Alternative QoS Parameter**

*Type: CR For: Agreement  
 29.514 v16.6.0 CR-0267 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-205176)

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

**C3-205607 Correction to Alternative QoS Parameter**

*Type: CR For: Agreement  
 29.512 v16.6.0 CR-0619 rev 2 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-205457)

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

**C3-205608 Correction to Alternative QoS Parameter**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0620 rev 2 Cat: A (Rel-17)  
  
 Source: Huawei*

(Replaces C3-205458)

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

### 16.19 CT aspects of 5G URLLC [5G\_URLLC]

**C3-205208 Corrections on QoS monitoring**

*Type: CR For: Agreement  
 29.514 v16.6.0 CR-0270 Cat: F (Rel-16)  
  
 Source: ZTE*

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

**C3-205209 array QosMonitoringReport**

*Type: CR For: Agreement  
 29.522 v16.5.0 CR-0223 Cat: F (Rel-16)  
  
 Source: ZTE*

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

**C3-205210 QoS monitoring report at PDU session termination**

*Type: CR For: Agreement  
 29.512 v16.6.0 CR-0625 Cat: F (Rel-16)  
  
 Source: ZTE*

**Decision:** The document was **revised to C3-205469**.

**C3-205211 QoS monitoring report at PDU session termination**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0626 Cat: A (Rel-17)  
  
 Source: ZTE*

**Decision:** The document was **revised to C3-205470**.

**C3-205212 QoS monitoring report at PDU session termination**

*Type: CR For: Agreement  
 29.514 v16.6.0 CR-0271 Cat: F (Rel-16)  
  
 Source: ZTE*

**Decision:** The document was **revised to C3-205471**.

**C3-205238 Incorrect definition of QosMonitoringInformation**

*Type: CR For: Agreement  
 29.122 v16.7.0 CR-0300 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205421**.

**C3-205239 QoS Monitoring corrections**

*Type: CR For: Agreement  
 29.512 v16.6.0 CR-0627 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205422**.

**C3-205240 QoS Monitoring corrections**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0628 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205423**.

**C3-205421 Incorrect definition of QosMonitoringInformation**

*Type: CR For: Agreement  
 29.122 v16.7.0 CR-0300 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-205238)

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

**C3-205422 QoS Monitoring corrections**

*Type: CR For: Agreement  
 29.512 v16.6.0 CR-0627 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-205239)

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

**C3-205423 QoS Monitoring corrections**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0628 rev 1 Cat: A (Rel-17)  
  
 Source: Ericsson*

(Replaces C3-205240)

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

**C3-205469 QoS monitoring report at PDU session termination**

*Type: CR For: Agreement  
 29.512 v16.6.0 CR-0625 rev 1 Cat: F (Rel-16)  
  
 Source: ZTE*

(Replaces C3-205210)

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

**C3-205470 QoS monitoring report at PDU session termination**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0626 rev 1 Cat: A (Rel-17)  
  
 Source: ZTE*

(Replaces C3-205211)

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

**C3-205471 QoS monitoring report at PDU session termination**

*Type: CR For: Agreement  
 29.514 v16.6.0 CR-0271 rev 1 Cat: F (Rel-16)  
  
 Source: ZTE*

(Replaces C3-205212)

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

### 16.20 Enhancement of 3GPP Northbound APIs [eNAPIs]

**C3-205271 Protocol or application errors**

*Type: CR For: Agreement  
 29.122 v16.7.0 CR-0310 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205479**.

**C3-205479 Protocol or application errors**

*Type: CR For: Agreement  
 29.122 v16.7.0 CR-0310 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-205271)

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

### 16.21 CT Aspects of 5GS Transfer of Policies for Background Data [xBDT]

### 16.22 CT aspects of SBA interactions between IMS and 5GC [eIMS5G\_SBA]

**C3-205082 SBI Message Priority mechanism for emergency session**

*Type: CR For: Agreement  
 29.514 v16.6.0 CR-0263 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to C3-205378**.

**C3-205378 SBI Message Priority mechanism for emergency session**

*Type: CR For: Agreement  
 29.514 v16.6.0 CR-0263 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces C3-205082)

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

### 16.23 CT aspects of application layer support for V2X services[V2XAPP]

### 16.24 xMB extension for mission critical services [MC\_XMB-CT]

### 16.25 CT aspects of enhancements for Common API Framework for 3GPP Northbound APIs [eCAPIF]

### 16.26 CT aspects of Service Enabler Architecture Layer for Verticals [SEAL]

**C3-205266 Immediate reporting**

*Type: CR For: Agreement  
 29.549 v16.1.0 CR-0011 Cat: F (Rel-16)  
  
 Source: Huawei*

**Discussion:**

CP-192255 (CT1 leading)

This CR introduces backward compatible corrections into the OpenAPI file for SS\_Events API.

Ericsson: Basically, I’m OK with the explanation in coversheet, but adding a feature for the response data is too heavy in my view.

Huawei is fine with removing the feature. R1 is made available.

Ericsson is fine with r1.

Samsung: In continuation to our discussions from the previous meeting, SEAL APIs being exposed and open for developers community of the third party applications, we need to stick with RESTful principle the “Subscription” resource should be kept separate from “notifications” resource. This will lead to clean design. We understand, “Immediate Reporting” feature was used in various other specifications to include event report in the subscription response message, however for external interfaces this can be avoided.

For the “ReportingInformation: immRep” IE from 29.523, that the 29.549 refers to, there is no indication of having the events reported in the response of the POST for subscription creation. It states that at the time of subscription creation if the server has an event matching the criteria then readily report it without waiting for another event dynamically to happen in order for it to report (i.e. the trigger for reporting is not the 1st dynamic event occurrence in the future). Also, I don’t see 29.523 including eventdetails inside the response to POST for subscription creation

Another reason why having both “notificationDestination” and “immRep” in SEALEventSubscription, would lead to problem. Imagine that the consumer which creates the subscription is different than the consumer which is supposed to receive the events at “notificationDestination” (i.e. you have two different endpoints). In this case unless it is clearly stated what the producer is supposed to do, we may end up with the situation in which some initial events go to one endpoint (the one created the subscription) and the rest of the events to the “notificationDestination” endpoint. The behavior of the producer is not clear, on what to with the events if the two endpoints are different (e.g. ignore “notificationDestination” or ignore “immRep” flag or do as it is implied; i.e. part of the events go to one place and the rest to another!!!) and can lead to interoperability issues. However, if we go with the existing interpretation of 29.523 as shown in the table above, everything is in-line with the RESTful principles of keeping subscription resource separate from the events resource.

AT&T: My view is the same as what was stated by Samsung.

Huawei: Including the available reports within the corresponding HTTP response as I know is still RESTful and fully align with stage 2 requirement.

Many SBI APIs including internal interfaces (e.g. Namf as defined in CT4’s TS 29.518, Nnwdaf as defined in TS 29.520, Nnef as defined in TS 29.591, Naf defined in TS 29.517, Nudm as defined in CT4’s TS 29.503) or external interfaces (i.e. SCEF/NEF northbound APIs which always support including the event reports in the corresponding HTTP response in both stage 2 and stage 3) which supports immediate reporting, similar approach as this CR.

TS 29.523 is the specification which defines the ReportingInformation data at the beginning of 5G in Rel-15, unfortunate, the logic of immediate reporting doesn’t align with stage 2 which I mentioned in the coverpage as follows:

As described in TS 23.502, if the immediate reporting flag is set, the first corresponding event report is included in the response, if corresponding information is available at the reception of the subscription request of the event.

And it’s quite late to correct it due to NBC issue in Rel-16.

But for other APIs which support immediate reporting and even reusing the ReportingInformation data as defined by TS 29.523, it still clearly mentioned that if the immediate reporting flag is included, the event details shall be provided in the response if available.

AT&T: I don’t believe stage 2 (23.502) statement was meant to be interpreted as a stage 3 requirement and how it should be specified in RESTful APIs framework (e.g. we have noticed this kind of interpretation issues of stage 2 in the past in as you remember regarding TLTRI). my view, the SA2’s intention is to meet the requirement that if such a “Immediate reporting flag” is set in the subscription creation then report the event immediately, if available, and not where to report it to (at which endpoint).

Again in my view, by having the “Immediate reporting flag” set, the client ensures that, the server doesn’t wait unnecessarily for anything else before reporting (i.e. indicates need events reported real time, no wait…).

If we are to literally interpret the above stage 2 statement, then it leads to stage 3 implications which should be left to CT3 and what it means when specified in stage 3 using RESTful principles.

Also you listed, a few other spec’s interpreting the above SA2 statement literally (as we already knew); well this should not mean we should blindly follow others if we for good reasons (as stated in earlier email below), believe it leads to issues. Whereas if we interpret the above SA2 statement as has been interpreted by 29.523, then not only the 23.502 requirement of immediate reporting is met but also potential issues are avoided (e.g. some initial events not reported to one endpoint (notification-endpoint) and the rest to another if the Notification-endpoint is different than the endpoint of the consumer making the request for creating the subscription).

If you still think differently, then I’d suggest an LS to be sent to SA2 for clarification.

Huawei: The background of using immediate reporting handling as proposed by the CR, is that we agreed to reuse SS\_Events API to implement SS\_LocationInfoRetrieval API in previous meeting, also as defined in TS 29.549 currently. But the immediate reporting handling is still unclear yet.

As defined in TS 23.434, the SS\_LocationInfoRetrieval API is request/response type which just support to obtain the location information, Huawei proposed to use GET or POST to implement the API at the beginning of the TS specification, but finally CT3 considered to reuse SS\_Events API via immediate reporting flag sets to true, and including the location information if available in the response.

Ericsson: Just for your info, SA2 also defined that in Nudm\_SDM\_Subscribe service the subscription data can be returned in the service response (not via a separate notification) directly if immediate report is required.

For SEAL LM, if the one time reporting and immediate report are requested, the consumer doesn’t need to include any notification address because the response will include the report directly.

Ericson to AT&T: it is true that the notification destination is M, not C.

Nnef\_EventExposure\_Subscribe operation is another SA2 service as example where the notification address is required in service operation input and output may include the 1st event report. As output: First corresponding event report is included, if available (see clause 4.15.1).

I understand your concern.

To me, “notification address” and “immediate report in service response” are mutually exclusive,

If all event reports are required to be sent to a designated location, indeed, there is no need to include immediate report in the service response.

You said: Why are we creating a subscription to events if we want a one-time query?

Here the event subscription resource is not created if it is one-time query and immediate report.

AT&T: Proposed change (in Table 7.5.1.4.2.2-1: Definition of type SEALEventSubscription) introduces the optional flag “eventReq:immRep” which if set to true then “eventDetails” can be included while we have “notificationDestination” parameter as mandatory. Since this is a subscription to events operation, then “notificationDestination” parameter has to be present all the time and if we are to avoid the situation where some initial events end up at one endpoint (requester of the subscription) and the remaining events at “notificationDestination”, then the optional flag “eventReq:immRep” has to always be set to false. Then why should we have it (the flag) at all?

In my view, mixing subscription (to events) and one-time query is causing this undesirable headache. What are we trying to gain (less number of operations? Less number of REST resources)? Why are we creating a subscription to events if we want a one-time query?

AT&T to Ericsson: Perhaps (guessing), there is a past history in the way SA2 is mixing the two (providing notification endpoint in subscription creation request and including events in the response to subscription request) and now this idea making its way to 5G RESTful APIs…

However, if we in stage 3 see no reason for it, it provides no benefit and causes potential issues, why don’t we start doing what’s right for the new APIs we are specifying?

AT&T to Huawei: As indicated earlier, it seems to me that this undesirable RESTful API design issue can be avoided by separating the subscription-to-events resource from one-time-location query resource.

Huawei: I am fine to mention that for SS\_LocationInfoRetrieval API, if immediate reporting flag sets to true by reusing SS\_Events API, then the notification destination is omitted or shall not be present. I think the solution is also fully align with stage 2 requirement that SS\_LocationInfoRetrieval API is request/response type.

But for other specifications or APIs which using subscribe/notify type, my understanding is nothing can do due to already defined in stage 3 and also align with stage 2.

AT&T to Huawei: You are right in that stage 2 has defined this as “Request /Response” but in stage 3 we are trying to use the response to “subscription/notify” to patch the much needed missing operation (i.e. SS\_LocationInfoRetrieval).

In believe, we should shy away from patch work. We should do this right by specifying a missing resource which allows a Req/Rsp in fulfilling the associated stage 2 SS\_LocationInfoRetrieval.

For other APIs, We can leave them alone for now and revisit those when opportunity arises.

Huawei: I don’t understand about you concern now, reusing the SS\_Events API by using one-time and immediate report to implement SS\_LocationInfoRetrieval API, no resource will be created in the server, and no notification either, it’s request/response communication, right?

For current release (which is already frozen), two following solutions are considered from my side to make the current specification complete:

1. Clearly mention that for SS\_LocationInfoRetrieval API, immediate reporting flag sets to true, notification destination shall not be present.

2. Remove the definition of SS\_LocationInfoRetrieval API

Either way is fine to me.

It’s quite late in current stage to change the solution to dedicated RPC or simple GET method as Huawei proposed at the beginning.

We can consider whether we really need a new solution for SS\_LocationInfoRetrieval API, but it can only be considered in Rel-17 if needed.

Ericsson: Now I recall there is a CR agreed in SA6 meeting (for eV2XAPP R17) emphasizing the “immediate report in subscription response”: S6-202013.

To AT&T: do you think we should take the discussion in stage 2?

AT&T: Understanding we don’t have the time to fix this properly in Rel16, let’s go with short-term fix, option 1 (i.e. use immediate reporting flag to include event details in the response and make notification destination from “Mandatory” to “optional”, so that if the flag is set to true, notification destination shall not be present) while we’ll pursue the long-term fix in Rel 17 by first taking this up with SA6 folks.

Ericsson: Well, the API major version needs upgrade then.

Huawei: We can put notification destination is ignored if provided for SS\_LocationInfoRetrieval API to avoid NBC issue.

Samsung: To progress on this issue, the workaround looks ok me. Can say, notification destination is ignored and event report is sent in the subscription response, if available.

To Ericsson: On NBC change, adding an additional optional IE (event report) is also NBC right? Also, on notification destination, making an IE Mandatory to Optional, the older version of consumer can still communicate with newer version of Producer right? A newer version of consumer may not interact with older version of producer. If my above understanding is correct then it is a BC change right? Let me know otherwise.

Ericsson:

I agree with the proposal to make further clarification: in order to keep presence condition unchanged the notification address is not processed (i.e. ignored) in the SEAL server if immediate report is sent via response.

To Samsung: Adding optional IE is BC.

But changing existing IE presence in the request message from M to O/C is NBC.

AT&T is ok with the proposal.

Huawei makes r2 available.

Ericsson: Only a minor suggestion in the 1st change:

SEALEventSubscription data => SEALEventSubscription data type.

Huawei makes r3 available.

AT&T: The eventDetails description in the table is not clear as it doesn’t say that eventDetails attribute is provided by the server’s response (not present in the request). Wording provided.

Huawei: I am fine with the rewording, but suggest to not mention ‘SEAL server’ but only ‘server’, since for SS\_LocationInfoRetrieval API, the server is not SEAL server but the Location Management Server. R4 is made available.

**Decision:** The document was **revised to C3-205377**.

**C3-205297 SEAL stage 3 specification duplication**

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

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

**C3-205298 LS on SEAL stage 3 requirements overlap**

*Type: LS out For: Approval  
 to CT1  
 Source: Ericsson*

**Discussion:**

Huawei: CT1 is already aware of the issue as Ericsson tabled 3 CRs to CT1 on this topic. As I know, CT1 is fine to remove these procedures in CT1, but Ericsson’s CRs failed to give the reason that the whole E2E procedure work well after removing these procedures directly in the last CT1 meeting.

Hence, Huawei do not see any reason for this LS from CT3 actually since CT1 are aware.

Ericsson:

I check with my CT1 colleague, he told me “CT1 is fine to remove these procedures in CT1” is not true. Huawei indicated that they do not want duplication, but Samsung objected removal of CT1 parts.

If Huawei is fine to remove the duplication (either in CT3 or CT1, we can discuss on the call), shouldn’t we at least inform CT1 about what is happening to have better coordination between groups?

Huawei: If CT1 aware it and Ericsson already provided the CRs in CT1, why we need to inform CT1? Similar as V2XAPP issue as we discussed in previous meeting.

Samsung: We see the issue being presented by you. However, we think, let stage 2 (SA6) discuss in Rel-17, to enhance the procedures defined by the enabler layer entities as APIs only. Then, stage 3 can be aligned in Rel-17 SEAL work. Currently, CT1 and CT3 specifications are aligned to stage 2 procedures/specifications (procedure and API based). We do not see the need to send this LS.

Ericsson: So far, for the same function, CT1 specified HTTP/XML and CT3 specified HTTP/JSON.

CT4 and CT3 agreed (by the time of R15) to only use HTTP/JSON in the 5GC service API (see LS CP-172074) which is also used in CT3 northbound API and middleware API (e.g. V2XAPP, SEAL).

Is there any technical justification in your mind that HTTP/XML shall be supported as well?

Ericsson: To clarify my statement:

“for the same function” -> this means the SEAL-S reference point between VAL server and SEAL server.

e.g. In TS 24.548, why CT1 also specified the following APIs with HTTP/XML (which has corresponding 1:1 relationship with procedure described in TS 23.434 clause 14.3.3 and information flow in clause 14.3.2)? Does Samsung assume that HTTP/JSON is not satisfying stage 2 requirement?

Samsung: I had discussion with SA6 SEAL rapporteur, for Rel-16, the intent of stage 2 is to define both procedures and APIs for SEAL-S interface as it is evident from the specifications also. So, in the stage 3 SEAL WID objectives, SEAL-S was included in CT1 scope to define procedures, APIs in CT3, and the same were implemented. If we remove CT1 specification, we are deviating from the agreed WID objectives. Also, for legacy verticals that use HTTP/XML, they should also be supported by SEAL, as SEAL being framework. Regarding your question on “Does Samsung assume that HTTP/JSON is not satisfying stage 2 requirement?”, APIs are part of stage 2 requirement, but not the only way as per stage 2 framework requirement.

Ericsson: Can I ask for further clarification for below statement?

So, in the stage 3 SEAL WID objectives, SEAL-S was included in CT1 scope to define procedures, APIs in CT3.

Does it imply CT1 only needs to specify \*procedure\* and CT3 needs to specify API?

Which means CT1 should remove HTTP/XML from their TS and CT3 should remove procedure from 29.549?

Also below justification is not convincing:

for legacy verticals that use HTTP/XML, they should also be supported by SEAL.

If using IMS application as example, I can understand the importance to \*maintain\* Rx also in 5G for legacy application compatibility.

The SEAL is newly specified in R16, there is no legacy vertical using HTTP/XML over SEAL-S.

Continue the discussion offline. Check with SA6/CT1 delegates.

Samsung: During WID discussion companies insisted to reuse existing specification (i.e. MC specifications). SEAL specification aligned to MC specification in CT1 as it was discussed during discussion paper (C1-194516 in CT1#119). Based on above discussion paper we added NOTE 2 also in the WID. SEAL is based on MC work and in MC we have interaction between GMS and MC server using HTTP/XML. Considering this - SEAL-S was planned to be implemented in CT1 as per WID. Also, considering MC specifications, interaction between SEAL server (for ex: SNRM-S) and VAL server were kept using HTTP/XML in CT1. Both CT1 and CT3 specifications are implemented as per agreed WID objectives.

With respect to your query on how this rationale applies to other works like EDGEAPP, SEAL was special case reusing MC procedures and we see this constraint doesn’t apply to other works like EDGEAPP.

Ericsson: I understood the intention from the discussion paper to re-use applicable and similar procedure when drafting SEAL specifications, we in CT3 also did the same in N33 drafting.

For NOTE 2 in the WID about re-using existing specifications, could you point out which MC stage 3 TS was re-used during SEAL work?

Especially for NRM function, TS 23.280 doesn’t have NRM, how to re-use? Where is the legacy MC application supporting NRM interaction?

Ericsson: For technical part, could you share your company view whether the duplication issue shall be solved?

For the process part, as you might know, there is an eSEAL WID in R17, we should make CT3 view clear about which work should be within CT3 remit.

From Ericsson point of view, we just want to make things clear and we don’t want to argue who was wrong in the past.

Also I see no harm to inform CT1 what CT3 thought no matter what the final decision is in CT1.

For V2XAPP, I agreed that there is no need to send LS since the V2XAPP WID has clear work separation for CT1 & CT3, there is no overlapping in WID.

For SEAL, as I explained in the DP, SEAL WID CP-192255 didn’t describe clearly for the SEAL-S reference point. Therefore it is good to utilize the LS to check with CT1 about the use case in their mind and try to avoid issues in the future work.

Samsung: The discussion was to reuse existing procedures if available. And if not, procedures need to be implemented newly and align with existing SEAL-S procedures. It was not discussed that if procedures do not exists in MC specification, then only APIs will be implemented in CT3. As HTTP/XML based procedure are used for interaction between other SEAL servers (GMS, LMS, CMS, etc) and VAL server based on MC specifications, to align with the approach, HTTP/XML has been used for NRM server and VAL server too.

I hope this provides further clarifications.

Ericsson: You said: It was not discussed that if procedures do not exists in MC specification, then only APIs will be implemented in CT3.

Good, you pointed out an unclear part and this can be further checked with CT1.

 , to align with the approach, HTTP/XML has been used for NRM server and VAL server too.

This is incorrect assumption.

CT1 can re-use the GMS, LMS, CMS for MC application server but shall not assume MC application server also needs to support NRM by HTTP/XML. <= this function is ONLY applicable in SEAL and supporting HTTP/XML is not justified.

Let me know what LS content you want to address to CT1.

In addition, I received information from my CT1 colleague that the MC LM function is not implemented in stage 3. And TS 23.280 doesn’t have NRM function.

This means there is no legacy MC application using LM and NRM, so the concern of keeping HTTP/XML compatible for legacy MC application vanished.

Please let me know how to make progress for the LS, any revision proposal is welcome!

Huawei: As I know, C1-2074621 etc. are provided into next CT1 meeting and will be discussed the issue. It’s up to CT1 to decide whether the CR has a complete solution to make sure the procedure still works well if removing the duplication description.

Ericsson: Could Huawei re-state the position whether the duplication issue shall be solved?

There is no harm to inform CT1 what CT3 thought and/or consult for a different view, LS is a good tool to coordinate.

Huawei: Actually, we still not convinced why the LS is needed since CT1 already aware the issue and the DP was discussed in CT1 before.

But Huawei can also live with the LS to inform CT1 which just only inform CT1 about some duplication between CT1 and CT3 groups.

The DP is unnecessary to be attached due to already submitted into CT1. And for the action, we prefer to change it to:

To CT1

ACTION: CT3 kindly asks CT1 to take above duplication issue into account note the CT3 preferred removal of duplicated and overlapping stage 3 requirements for SEAL and update their TS(es) if necessaryunder CT1 remit accordingly.

As I know, we should NEVER attach a DP in a LS as had no formal status.

In addition the LS should have a “value” – just no harm LSs have no value and function just overload WGs and get noted.

Ericsson:

To Huawei: To attach additional material to explain is fine in the LS. SA6 did that when asking SA2 to support “IP address translation to GPSI”.

But I’m fine to avoid long background explanation in the DP.

I made a condensed version with observation and CT3 view, CT1 can finally decide what they want.

R1 is made available.

Samsung: We are discussing on this and will get back to you soon.

Huawei: After checking the revision, we still think the LS is no necessary due to it’s just to inform CT1 the overlapping issue but CT1 fully already aware of it, and Ericsson also provides the contributions in CT1 for discussion.

The LS will not push CT1 to agree the CR only if the CR have a complete and suitable solution as I know.

Ericsson: I’m confused because you have changed your position so quickly. The LS is not just to inform CT1 the overlapping issue, it includes more information. The revision was provided based on your comment and suggested wording. And I compromised to remove strong request towards CT1 by:

- Just stating the fact of duplication; and

- CT3’s view to keep existing TS 29.549 unchanged.

- Detailed analysis of overlapping clauses in different TSes.

If you have better suggestion please let me know; otherwise I do not see any technical concern of not moving forward.

Huawei: Changing the position happens quite often before and also in this meeting, CRs are changed due to round of discussion with more consideration, and take eLCS SA2 LS as an example, at the beginning it was agreed to send the reply LS to inform SA2’s specification has error, but some company change their mind to no send but just prefer to send the company CRs directly to SA2.

We said we can compromise but we never consider it’s really necessary to send the LS just for informative.

As we said just no harm LSs have no value and function just overload WGs and get noted. I really don’t know what’s the difference if CT1 receives the LS or not?

If CT1 prefer to change the definition of TS 29.549. From the procedure point of view, CT1 should send LS to CT3 in last CT1 meeting. But as I know, CT1 didn’t reject or postponed Ericsson’s tabled CRs in last CT1 meeting but just concerned the solution is not so completed to be agreed. Ericsson again provides some CRs in this CT1 meeting which will be discussed.

Ericsson: The DP includes detailed analysis identifying overlapping parts which was not seen in CT1.

Now the LS\_r1 includes the trimmed version of DP showing the findings. If you have any technical concern please let me know.

We hope to make progress aiming for high 3GPP TS quality.

If CT1 thought differently after reading the analysis in the LS, they can point it out to us as well.

Huawei: As I said, we should never attach a DP in a LS as had no formal status.

A DP only states a view from a company and not necessarily entire group thus send it to another WG may just cause confusion.

Sending LS is not just technical issue but have ‘value’. Similar as Ericsson suggest not to send the reply eLCS LS to SA2 but provide companies CRs directly into the SA2 in this meeting, you can provide the DP into CT1 directly (btw, I don’t see any issue if not send the DP into CT1)

Samsung: I believe CT1 has contributions for upcoming meeting on the same and will be discussed there.

However, if you want to send the LS, then please find the revision here.

Ericsson is fine with the proposal.

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

**C3-205338 SEAL Group configuration corrections**

*Type: CR For: Agreement  
 29.549 v16.1.0 CR-0013 Cat: F (Rel-16)  
  
 Source: Samsung Electronics Iberia SA*

**Decision:** The document was **revised to C3-205506**.

**C3-205377 Immediate reporting**

*Type: CR For: Agreement  
 29.549 v16.1.0 CR-0011 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-205266)

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

**C3-205506 SEAL Group configuration corrections**

*Type: CR For: Agreement  
 29.549 v16.1.0 CR-0013 rev 1 Cat: F (Rel-16)  
  
 Source: Samsung Electronics Iberia SA*

(Replaces C3-205338)

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

### 16.27 CT aspect of single radio voice continuity from 5GS to 3G [5G\_SRVCC]

### 16.28 Technical Enhancements and Improvements [TEI16]

**C3-205177 Correction to access network information report**

*Type: CR For: Agreement  
 29.512 v16.6.0 CR-0621 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-205178 Correction to access network information report**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0622 Cat: A (Rel-17)  
  
 Source: Huawei*

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

**C3-205179 Location change (serving cell) for Policy Control Request Trigger**

*Type: CR For: Agreement  
 29.512 v16.6.0 CR-0623 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-205180 Location change (serving cell) for Policy Control Request Trigger**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0624 Cat: A (Rel-17)  
  
 Source: Huawei*

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

#### 16.28.1 TEI16 for IMS/CS

#### 16.28.2 TEI16 for Packet Core

**C3-205096 Correction to PRA**

*Type: CR For: Agreement  
 29.507 v16.5.0 CR-0140 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205424**.

**C3-205097 Correction to PRA**

*Type: CR For: Agreement  
 29.507 v17.0.0 CR-0141 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205425**.

**C3-205098 Correction to PRA**

*Type: CR For: Agreement  
 29.525 v16.5.0 CR-0118 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205426**.

**C3-205099 Correction to PRA**

*Type: CR For: Agreement  
 29.525 v17.0.0 CR-0119 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205427**.

**C3-205100 Correction to PRA**

*Type: CR For: Agreement  
 29.512 v16.6.0 CR-0581 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205428**.

**C3-205101 Correction to PRA**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0582 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205429**.

**C3-205264 Combination of DNN and S-NSSAI**

*Type: CR For: Agreement  
 29.523 v16.3.0 CR-0036 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-205265 Combination of DNN and S-NSSAI**

*Type: CR For: Agreement  
 29.523 v17.0.0 CR-0037 Cat: A (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205554**.

**C3-205285 Correct SGSN address**

*Type: CR For: Agreement  
 29.561 v16.5.0 CR-0064 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205486**.

**C3-205305 Corrections to Delegated-IPv6-Prefix**

*Type: CR For: Agreement  
 29.061 v16.1.0 CR-0528 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**C3-205339 Clarification on using PAP/CHAP for 5GS interoperability**

*Type: CR For: Agreement  
 29.561 v16.5.0 CR-0037 rev 1 Cat: A (Rel-16)  
  
 Source: Qualcomm Incorporated, Vodafone*

(Replaces C3-204044)

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

**C3-205389 Corrections to Delegated-IPv6-Prefix**

*Type: CR For: Agreement  
 29.061 v17.0.0 CR-0529 rev 1 Cat: A (Rel-17)  
  
 Source: Ericsson*

(Replaces C3-205306)

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

**C3-205424 Correction to PRA**

*Type: CR For: Agreement  
 29.507 v16.5.0 CR-0140 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-205096)

**Decision:** The document was **revised to C3-205598**.

**C3-205425 Correction to PRA**

*Type: CR For: Agreement  
 29.507 v17.0.0 CR-0141 rev 1 Cat: A (Rel-17)  
  
 Source: Ericsson*

(Replaces C3-205097)

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

**C3-205426 Correction to PRA**

*Type: CR For: Agreement  
 29.525 v16.5.0 CR-0118 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-205098)

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

**C3-205427 Correction to PRA**

*Type: CR For: Agreement  
 29.525 v17.0.0 CR-0119 rev 1 Cat: A (Rel-17)  
  
 Source: Ericsson*

(Replaces C3-205099)

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

**C3-205428 Correction to PRA**

*Type: CR For: Agreement  
 29.512 v16.6.0 CR-0581 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-205100)

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

**C3-205429 Correction to PRA**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0582 rev 1 Cat: A (Rel-17)  
  
 Source: Ericsson*

(Replaces C3-205101)

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

**C3-205486 Correct SGSN address**

*Type: CR For: Agreement  
 29.561 v16.5.0 CR-0064 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-205285)

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

**C3-205598 Correction to PRA**

*Type: CR For: Agreement  
 29.507 v16.5.0 CR-0140 rev 2 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-205424)

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

### 16.29 OpenAPI version updates

**C3-205500 Update of OpenAPI version and TS version in externalDocs field**

*Type: CR For: Agreement  
 29.512 v16.6.0 CR-0632 Cat: F (Rel-16)  
  
 Source: Huawei Technologies R&D UK*

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

**C3-205504 Update of OpenAPI version and TS version in externalDocs field**

*Type: CR For: Agreement  
 29.549 v16.1.0 CR-0014 Cat: F (Rel-16)  
  
 Source: Samsung Electronics Iberia SA*

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

**C3-205505 Update of OpenAPI version and TS version in externalDocs field**

*Type: CR For: Agreement  
 29.554 v16.4.0 CR-0057 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**C3-205558 Update of OpenAPI version and TS version in externalDocs field**

*Type: CR For: Agreement  
 29.122 v16.7.0 CR-0322 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-205560 Update of OpenAPI version and TS version in externalDocs field**

*Type: CR For: Agreement  
 29.522 v16.5.0 CR-0236 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-205562 Update of OpenAPI version and TS version in externalDocs field**

*Type: CR For: Agreement  
 29.591 v16.2.0 CR-0030 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-205563 Update of TS version in externalDocs field**

*Type: CR For: Agreement  
 29.519 v16.5.0 CR-0228 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-205565 OpenAPI version update of Nudr\_DataRepository API**

*Type: discussion For: (not specified)  
 Source: Huawei*

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

**C3-205587 Update of OpenAPI version and TS version in externalDocs field**

*Type: CR For: Agreement  
 29.520 v16.5.1 CR-0245 Cat: F (Rel-16)  
  
 Source: China Mobile Com. Corporation*

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

**C3-205594 Update of OpenAPI version and TS version in externalDocs field**

*Type: CR For: Agreement  
 29.525 v16.5.0 CR-0135 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**C3-205595 Update of OpenAPI version and TS version in externalDocs field**

*Type: CR For: Agreement  
 29.594 v16.3.0 CR-0068 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**C3-205604 Update of OpenAPI version and TS version in externalDocs field**

*Type: CR For: Agreement  
 29.514 v16.6.0 CR-0274 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**C3-205605 Update of OpenAPI version and TS version in externalDocs field**

*Type: CR For: Agreement  
 29.523 v16.3.0 CR-0040 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**C3-205609 Update of OpenAPI version and TS version in externalDocs field**

*Type: CR For: Agreement  
 29.517 v16.2.0 CR-0027 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-205619 Update of OpenAPI version and TS version in externalDocs field**

*Type: CR For: Agreement  
 29.507 v16.5.0 CR-0150 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

### 17.1 Rel-17 Work Items

**C3-205341 Discussion paper on FS\_ID\_UAS**

*Type: discussion For: Information  
 Source: Qualcomm Incorporated*

**Discussion:**

Offline discussions on the possible impacts for specific KIs.

Qualcomm will bring the corresponding WID when the work is stable in stage 2.

Qualcomm:

On your question on the observation in the DP “Other than Key issue #1 and Key issue #2, all candidate solutions have core network impact” as to why these two do not have a CN impact: with the recent update in the SA2 meeting, now Key issue #1 and Key issue #2 do have a CN impact. When my colleagues described the core network impact in the draft, there was no clear way forward in SA2 which solution would be adopted for the conclusion. For example, if key issue #1 would be concluded as in one of the user plane based proposal, then there would have been no impact on core network. However, now that SA2 has decided in the last meeting that Key issue#1 is concluded with control plane based solution, the core network impact is clear now. In other words, now Key issue #1 and Key issue #2 do have CN impact. Hope this clarifies.

Samsung: My comment were based on latest SA2 conclusions and I agree with your explanation.

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

**C3-205345 Discussion on 5GS and EPS interworking support with DN-AAA server**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Discussion:**

Nokia is fine with working on this.

CT proposes to extend the scope of PAP/CHAP WID.

Huawei proposes to include these impacts as corrections from Rel-15. Unclear what the impacts would be.

Continue offline discussions with the proposed impacts.

China Telecom:

Hence several issues exist in the 5GS and EPS interworking scenarios:

1) When UE moves from EPC to 5GC, it’s not clear/specified whether secondary authorization/authentication should be performed and how to be handled.

In our understanding, as for the secondary authorization/authentication procedure involved in the 4/5G interoperability scenario, the relatively unusual scenarios include:

Suppose in 4G system a UE passes the PAP/CHAP secondary authentication with external network, when the UE switches to 5G network, the PDN connection of UE is smoothly switched over, so no secondary authentication is required. Even though one more secondary authentication is required, since the WID “CT aspects on PAP/CHAP protocols usage in 5GS”has been approved, which means UE can continue to use PAP/CHAP with external network for secondary authentication in 5G.

2) If DN-AAA initiates re-authorization but UE has moved from 5GC to EPC, such re-authorization will not be supported.

Another special scenario maybe:

A UE accesses the external network via 5G, using EAP based authentication as the secondary authentication, When the UE switches to 4G, if DN-AAA initiates re-authentication, since the 4G system does not support EAP based authentication, such re-authentication maybe not successful. Alternatively, depending on the configuration of DN-AAA, DN-AAA can be set to initiate re-authentication of PAP/CHAP for the UE which has migrated to 4G.

3) Some special authentication and authorization attributes for 5G PDU Session defined in TS29.561 are not supported in EPS

Can you clarify what these special attributes are?

4) TS 29.561 still misses the 5GS and EPS interworking scenario description to consistenly support the secondary authentication/authorization with DN-AAA server.

In our opinion, only some related descriptions need to be added in TS29.561, and these work can be included in the WID of PAP/CHAP, which can extend the objective scope of the WID , so there is no necessary to start a new separate WID.

Qualcomm:

I would also like to understand more details on the 2nd case:

2) If DN-AAA initiates re-authorization but UE has moved from 5GC to EPC, such re-authorization will not be supported.

I have these 2 questions:

A. What is meant by re-authorization, and how is it related to secondary authentication?

B. Is the scenario focusing on the case when a process is initiated in 5GC but still not concluded, and UE moves from 5GC to EPC?

Vodafone:

I support that C3-205345 raises issues that need to be considered in Rel-17, and I think we should also consider how an operator can migrate subscribers from PAP/CHAP to EAP secondary authentication. The network will have to be able to handle a mix of UEs, some supporting EAP and some PAP/CHAP. We might also consider whether EAP should be added to EPC and whether a UE could support both PAP/CHAP and EAP.

I think it would be OK to add these considerations to the PAP/CHAP WID, although the current PAP/CHAP WID says nothing about EAP.

Vodafone supports the work.

Ericsson:

To summarize, this DP focusing on EAP based secondary authentication/authorization enhancement, including UE interworking between 5GS and EPS, with secondary

In which PAP/CHAP do not support the EAP messages procedure, do not support the secondary re-authentication, do not support the authorization and re-authorization, which is covered by EAP based secondary authentication/authorization scope, especially needed for 5GC new services e.g. 5G LAN services 5G VN Group Management etc.

This proposal is not conflict with PAP\_CHAP WID, since PAP\_CHAP does not supporting TS 23.501, 23.502, 33.501 and related new services TS defined EAP based secondary authentication/authorization.

And the anticipated efforts are not just simple description, Hence needs on CT protocol EAP enhancement to fulfill these with new WID.

Maybe we could brief discus some consideration in today CC, and could continue the offline discussions before next meeting.

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

#### 17.1.1 New or revised Work Items

**C3-205036 New WID on Reliable Data Service Serialization Indication**

*Type: WID new For: Endorsement  
 Source: Intel*

**Abstract:**

New Rel-17 WID was presented at CT1 #126-e mtg in Oct and deemed technically correct, though postponed, waiting for CT3 endorsement, before being agreed at next CT1 mtg in Nov.

**Discussion:**

Nokia: only a general proposal in order to make a plenary presentation easier, because CT1 will not approve the WID before November 20th. If CT3 agrees that CT3 related comments can no more included after end of CT3 at November 13th CT3. An endorsement in CT3 may allow an easier plenary this WID could finally be endorsed during the meeting by presentation, because of the usage of the CT1 version.

Huawei: C3-205084 is submitted under TEI17 WI, and my understanding is that the CR can solve the same issue. If agreed, the WID is no need.

CT3 agrees to use the same WI as in SA2.

Related CR should use the name WI code.

Clarify objective.

Intel: Makes a r2 available.

Huawei: Please find my following comments on v2:

For CT3 part, the objective are quite general and unclear to us, which seems only impact 4G T8 interface. But my understanding is the WID not only impact T8 but also 5G N33 interface, right? And as I known, the WID will only impact NIDD API not the whole T8/N33 interface. Please update the revision with more clear and precisely description.

I would prefer the WID also in the Justification or Objective part list the few CRs agreed in stage 2 which already mentioned in 5084.

Intel: Have updated the CT3 objectives accordingly.

Generally, we don’t list the specific stage-2 CR numbers in the WID.

However, I have listed the affected stage-2 specifications and the clauses in the justification as indicated in 5084.

R3 is made available.

Huawei: Only comment on v3 from our side is to remove ’ The serialization format can be reserved by the SCS/AS, the reserved serialization formats can be queried by the SCS/AS and the SCEF can notify the reserved serialization formats.’ since not only 4G (SCS/AS, SCEF) is impacted but also 5G (AF, NEF)

Intel: The changes have been incorporated and C3-205036 is revised to C3-205542.

Huawei: I am fine with C3-205542.

**Decision:** The document was **revised to C3-205542**.

**C3-205071 New WID on CT aspects of enhanced support of industrial IoT**

*Type: WID new For: Endorsement  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Nokia: A general explanation to the remark, included in the WID (and in general for CT WIDs with dependency on on-going SA2 work/studies and for which there isn't yet a parent WID approved at SA): The normative SA Feature WID is expected to be approved at SA#90e. Therefore, there is no further add-on done to this WID after the last CT1 meeting.

Since SA#90e is scheduled for December 2020, CT3 (and the other CT groups) have different possibilities for the WID agreement/approval process. It is possible to endorse this WID leaded by CT1 this CT3 meeting of course. On the other hand we will have the normative SA feature WID after the CT3 meeting and the usual procedure would be to approve the parent WID first. This would mean that the WID will be approved/endorsed in Q1/2020, but with the content of a parent normative WID approved at plenary level.

If this general strategy would be acceptable to all companies and all groups, this WID would be presented for information in CT3#112e, but it should be clear that such a general way forward should be used CT wide (don’t know whether this was discussed in CT4 already) and should hold true for all Release 17 work items, which are in a similar status.

Independent from the way forward Nokia would like to lead the work for IIoT.

Huawei thinks it is too early for agreeing on it now.

Parent WID is not approved yet.

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

**C3-205334 New WID on CT aspects for enabling Edge Applications**

*Type: WID new For: Approval  
 Source: Samsung Electronics Iberia SA*

**Discussion:**

This version includes the comments in the last CT1 meeting.

Parent WID approved in SP-200109.

Ericsson:

Since the WID is re-opened for discussion, you can find the comments below:

1) This statement for northbound API impact puts dependency with SA2 work:

830032 Study on enhancement of support for Edge Computing in 5GC

- Potential clarification to re-use the 3GPP northbound reference points, which are specified in 3GPP TS 29.522 and 3GPP TS 29.122, for EDGE-2, EDGE-7 and EDGE-8, including any enhancements in Rel-17.

I guess that was the concern raised saying SA2 WID is not approved in SA plenary.

2) For NOTE 2, if it is related to the “unified API with multiple consumers”, it is not so clear about the work split. For instance, it can be proposed that CT3 specifies such APIs also covering EDGE-1 interaction triggered by EEC.

NOTE 2: To ensure consistent and harmonized development of APIs exposed by an Edge Function (e.g. EES) which may be specified across different CT groups, coordination between the groups is necessary.

1) I don’t fully understand purpose for NOTE 3, the Annex. C in TS 23.558 is informative only, what is the impact in CT group in relation to the aspect?

NOTE 3: Relationship of EDGE-3 and EDGE-9 with other standards bodies e.g. ETSI ISG MEC, will be based on normative aspects specified in 3GPP TS 23.558.

Samsung:

On 1) The SA2 study dependency was added to consider to any impacts resulting from the current discussions between SA2 and SA6 on UE identifier feature. This was also added based on companies comments. Will this note help?

NOTE : For any enhancements to EDGEAPP APIs that are dependent on SA2 outcome, will be progressed once SA2 normative work is available.

On 2) The note is to ensure that look and feel of the APIs is same across TSs developed by CT1 and CT3.

On 3) This note was added based on comments received and the intent is to handle any normative impacts from 3GPP TS 23.558.

Motorola:

As previously noted in the CT1 discussion, and in this meeting, the WID in C3-205334 is still dependent on SA2 which is only in the study phase. This is clearly indicated by the inclusion of the SA2 study in clause 2.3.

We maintain our position that the proposal in C3-205334 is premature for approval in this CT3 meeting.

I believe the argument that this work in CT3 and CT1 is solely dependent on the already approved work item (SP-200109) is inaccurate at best, and somewhat duplicitous. When SP-200109 was approved, SA2 had not taken into account the work of SA6 that would be created in TS 23.558.

I believe as part of the normative work in SA2 that will follow the study in 830032, SA2 will indeed take into account the work from TS 23.558. By taking this work into account any modification to existing references points that SA2 has already specifed for EDGE will be impacted. Therefore the SA2 normative work in Rel-17 on EDGE will be needed in order to map reference points from TS 23.558 to changes in 29.222, 29.122, 29.522. These existing references points are within SA2's scope.

So either all references to SA2 should be removed from this WID (including proposed changes to existing specification in CT1 and CT3) or this WID should be postponed until after the conclusions from the study in SA2 are finalized and the normative WID in SA2 has been approved and the scope of the changes in SA2 are know.

Samsung will check if it is possible to limit the scope of the WID to SA6.

Samsung:Overall, the comments were on SA2 study dependency and work split between CT1 and CT3.

On SA2 study dependency,

As mentioned during the call, the SA2 study was included in related work item, as SA2 and SA6 are currently discussing on UE identifier API aspect. Overall the dependency of SA6 (TS 23.558) on SA2 is very small and that also depends on the outcome of the UE identifier API discussion. However, there are no impacts identified for SCEF and NEF so far from TS 23.558, description of edge-2/7/8 simply says that SA2 specs are reused. EES APIs defined by SA6 are not in SA2 scope. Clause 8.9 in TS 23.558 refers to using SCEF/NEF APIs and all text there is about reusing the SCEF/NEF APIs, which is covered in the objectives. So as per Samsung, we don’t see impacts to 29.122 and 29.522 specifications now.

Dom and Yali, you can please clarify on impacts on 29.122 and 29.522 that are already identified by SA6 work. For clarity on the scope, we are happy to remove them from the impacted specifications list until that is identified.

So, we propose

1. Remove TS 29.122 and TS 29.522 from the impacted specifications.

2. Add a NOTE (“Any enhancements to EDGEAPP APIs that are dependent on SA2 outcome, will be progressed once SA2 normative work is available.”) in objectives to clarify on UE identifier API dependency discussion.

3. Remove SA2 from clause 8 (Aspects that involve other WGs)

4. Aligning to Ericsson’s comment and for clarity purpose, we can remove the trailing part in the following objective.

Potential clarification to re-use the 3GPP northbound reference points, which are specified in 3GPP TS 29.522 and 3GPP TS 29.122, for EDGE-2, EDGE-7 and EDGE-8, including any enhancements in Rel-17

5. Lastly, we are OK to remove the SA2 study from related work items and can visit later. However, we kept it to address any impacts out of UE identifier API discussion, which shouldn’t be stopping us from progressing on EDGEAPP work.

On work split between CT1 and CT3, as clarified during the meeting, the below NOTE is to address the coordination between working groups, to avoid any duplication and maintain consistency in APIs specified across groups. I hope we agree on this. We can look at it further, when SA6 clarifies on APIs that will be unified. The NOTE below is generic and should apply in the context of unifying APIs. If you need further clarification, please propose a text in the note/new note for the same.

NOTE 2: To ensure consistent and harmonized development of APIs exposed by an Edge Function (e.g. EES) which may be specified across different CT groups, coordination between the groups is necessary

The revision 1 is made available.

Ericsson: I made a proposal to reflect a clear work split btw. CT1 & CT3 about the EDGEAPP API. This is important aspect we should agree in both groups.

Also other change to complement the missing part in WID. Ericsson makes a revision available.

Samsung: Agree with the intent and I did some alignments taking the SA6 understanding on unifying APIs into consideration. A new version is made available.

Offline discussions. To be clarified how to do the split between WGs.

Huawei: I can compromise to accept to remove TS 29.122/29.522 as impacted TSs but I prefer to reword NOTE 2/4 as follows:

NOTE 2: To ensure consistent and harmonized development of interfacesAPIs exposed by an Edge Function (e.g. EES) which may be specified across different CT groups, coordination between the groups is necessary

NOTE 4: Any enhancements to EDGEAPP APIs interfaces that are dependent on SA2 outcome, will be progressed once SA2 normative work is available.

Huawei would like to support the WID.

Samsung will make a proposal.

Samsung: R2 is made available. Following are the updates to the revised version.

- As agreed during conference call, removed NOTE 2 (NOTE 2: To ensure consistent and harmonized development of APIs exposed by an Edge Function (e.g. EES) which may be specified across different CT groups and EDGEAPP APIs with identified consumers EEC and EES/EAS, coordination between the groups is necessary)

- As per Ericsson and AT&T’s comment, added “- EDGEAPP APIs with identified consumers EEC and EES/EAS, if any” In CT3 objectives

- Regarding “Protocols” in CT1 scope, there was discussion whether to keep this in scope or not. Some companies wanted and some dint want.

o “Protocols” was added based on company comments in CT1#126e meeting. So, from CT3 perspective, we can keep “Protocols” in CT1 objective and CT1 can decide in CT1#127e meeting.

o Hope this is fine.

- TS 24.501 was added in impacted specs, based on company comments during CT1#126e meeting. CT1 can decide on this in CT1#127e meeting.

Hope this is ok.

- On NOTE4, Huawei preferred interfaces and Ericsson preferred APIs. To keep it generic, updated the note to include reference points.

o NOTE 4: Any enhancements to EDGEAPP APIs reference points that are dependent on SA2 outcome, will be progressed once SA2 normative work is available.

I hope I have addressed all your concerns and you are fine with this revision. Let me know.

Huawei: As I said in yesterday’s CC, I disagree to state in the WID that CT3 will do CT1 work, we need to wait for SA6’s reply LS and also discuss with CT1.

CT1 doesn’t make any decision on behalf of CT3, why CT3 makes decision on behalf of CT1? I really don’t understand.

In summary, I disagree to add the bullet of ‘- EDGEAPP APIs with identified consumers EEC and EES/EAS, if any.’, since for CT3 part, the following two bullets are clear and enough, which already includes all of the interfaces under CT3 scope.

-.Potential clarification to re-use the 3GPP northbound reference points, which are specified in 3GPP TS 29.522 and 3GPP TS 29.122, for EDGE-2, EDGE-7 and EDGE-8

-To define new APIs (with identified consumer EES/EAS in the EDN) for interactions specified in EDGE-3, EDGE-6, and EDGE-9 interfaces.

Besides, I don’t know why so hurry to establish the WID, it’s too premature to start the WID, since the TS 23.558 is still not approved by SA plenary, no stable normative requirement from CT3 point of view, and how to cooperate with SA2 is also unclear either, e.g. how to support the E2E procedure on EDGE requirement, e.g. UE identification API?

Samsung: I thought we agreed to the bullet in the conference call. If not, then, since we wait for SA6 response, as common ground, will the following note instead of the bullet help?

NOTE: If any EDGEAPP APIs are identified with consumers as EEC and EES/EAS, coordination between the CT groups will be necessary.

Ericsson: Can I ask what is the real issue by proposing:

EDGEAPP APIs with identified consumers EEC and EES/EAS, if any.

Any technical concern?

It is a pity that we don’t have common session with CT1.

Huawei: The NOTE in the WID is listed under CT3 responsibility, my question is:

EDGE-1/4 are the EDGEAPP interfaces (protocol or APIs) towards EEC which is CT1 scope, why should be defined under CT3 responsibility?

=========

For CT3:

…

- EDGEAPP APIs with identified consumers EEC and EES/EAS, if any.

…

Same issue on Nudr API, even CT4 is the leading group of the unified Nudr API , according to the working group responsibilities, still CT3 defines the Policy Data/Application Data/Exposure Data and CT4 defines the common definition of Nudr API and Subscription Data.

It still far to reach any agreement that CT3 can take all the work with consumers EEC and EES/EAS.

Huawei: The NOTE is unnecessary at current stage. Let’s wait for SA6’s reply and then decide whether we need coordination across CT groups.

The WID can always be updated if necessary.

In addition, I disagree to add ‘with the only identified consumer EEC in the UE’ and ‘with identified consumer EES/EAS in the EDN’ in the WID, since it’s quite clear about the work split on the CT1 EDGE-1/4 interfaces and CT3’s EDGE-2/3/6/7/8/9 interfaces.

We should not change the CT1 part and makes decision on CT1.

Samsung: To make progress, r3 is revised with removal of sentences as suggested by Huawei. Since there is no clarity on common APIs that can be specified in both CT1 and CT3, and a LS may be sent to SA6 on that, let us wait to hear back from SA6 and update the WID accordingly.

Revision is made available.

Huawei: Huawei is fine with v3 but please remove the extra annotations and comments in the WID in next revision.

And Huawei would like to support the WID as we mentioned before.

Ericsson: Sooner or later we will need to discuss the work split with CT1, current proposed draft is NOT OK to me.

A trade-off would be to group all API impacts under CT1 & CT3 in the WID.

Qualcomm is fine with r3.

Ericsson: Based on the conf. call discussion, I tried to put EDGEAPP APIs in a generic object under both CT1 & CT3, further details will be discussed in the joint session with CT1.

Huawei: We strong disagree these changes as I mentioned in the CC, we should not makes decision on behalf of CT1 and keep CT1 part unchanged if not discussed with CT1 yet.

Qualcomm: I share Yali’s concern in some regards: I am not sure how customary it is for CT3 to be casually changing the already-discussed part of a WID in another working group, given a large number of companies are already aligned to that text in that other group (CT1 in this case). So I share the concern that it may make it more difficult to agree on by both groups. Just consider it the other way around: if another group would make such changes, we will end up repeating lengthy discussions. Further, as the note already indicates quite unequivocally that the shared work will be discussed between the groups, I don’t understand the reason for worrying too much about this issue before the joint session that is already happening just to address this issue.

Qualcomm: I have discussed the current status with my SA2/6 and CT1 teams and one issue pointed is the following: there is no need to indicate SA2 WI dependence as this WI will result in a separate stage-3 work not covered by the current WID.

Ericsson:

You said => I am not sure how customary it is for CT3 to be casually changing the already-discussed part of a WID in another working group, given a large number of companies are already aligned to that text in that other group. I don’t want to say yes or no but this is cited from CT1 meeting report.

the WID was not endorsed in CT1 which means some companies had concern and requested more time to do further analysis about the concrete impacts.

I respect what CT1 have discussed but as you heard in yesterday’s call, we had different voices in CT3 so I’m trying to make it neutral and put EES APIs and ECS APIs under both groups.

We can discuss further in today’s call.

Besides, if SA2 dependency is totally removed, potential impact for 24.501 should disappear.

Samsung provides a new version on top of Ericsson’s version. This version keeps the CT1 and CT3 objectives as per rev 3, with an additional note to consider the coordination.

Also, as requested by Qualcomm, the SA2 study from related work item was removed.

Huawei:

We try our best to make a proposal to get the WID approved in this CT3 meeting. And We are fine with others under CT3 objective in the WID except the following NOTE 1.

NOTE 1 is incorrect and unacceptable to us, since CT3 should not take decision between protocol/APIs/both and work split. And whether CT1 will chose APIs for EDGE-1 and 4 are under CT1 discussion now. Currently, we can’t assume that EDGE-1 and 4 will be APIs for CT3 work. The notion of APIs serving multiple EDGE reference points requires more clarification from SA6 and also CT1, so adding it to WID is premature.

NOTE 1: Decision between protocols/APIs/both and work split between CT1 and CT3 on EES APIs and ECS APIs serving multiple EDGE reference points (e.g. EDGE-1 and 3) will require coordination between CT1 and CT3 based on APIs identified by SA6 with both, EEC and EAS/EES, as known consumers, if any.

I don’t think we needed such NOTE in the formal WID.

The note is removed in the last distributed version, r4.

CT3 considers that further discussions between CT1 & CT3 may be required for the final work split.

**Decision:** The document was **revised to C3-205570**.

**C3-205342 Revised WID on Authentication and key management for applications based on 3GPP credential in 5G**

*Type: WID revised For: Approval  
 Source: Qualcomm Incorporated*

**Discussion:**

Huawei: The contribution fully clashes with C3-205358. Need to consider how to merge.

Huawei prefer to use 5358 as basis due to provided by the Rapporteur.

Qualcomm: I am fine either way but we submitted this also in CT4 and there are some good CT4 related comments (including some from Huawei) already integrated in a revision. So wouldn’t it be straightforward that we merge all changes in 5342 and reflect them in CT4?

This document will be used as a basis. Add China Mobile as co-source.

Qualcomm: Revision with CT4 stable changes merged is available here for checking. I have taken a revision number (not yet applied, will send another email): C3-205342 will be revised to C3-205490.

China Mobile is fine with the revision.

Huawei is fine with r1.

Chair confirms the WID can be agreed in this CT3 meeting.

Qualcomm: C3-205342 revised to C3-205490 is in the inbox.

**Decision:** The document was **revised to C3-205490**.

**C3-205358 Revised WID on AKMA-CT**

*Type: WID revised For: Agreement  
 Source: China Mobile Communications Group Co.,Ltd.*

(Replaces CP-202254)

**Discussion:**

Revision of CP-202254

Huawei: The contribution fully clashes with C3-205342. Need to consider how to merge.

Huawei prefer to use 5358 as basis due to provided by the Rapporteur.

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

**C3-205362 New WID on enhancement of inter PLMN Roaming**

*Type: WID new For: Endorsement  
 Source: Huawei*

**Discussion:**

Wait for further discussions in CT4 to see the final scope of the WID.

CT3 is not impacted.

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

**C3-205490 Revised WID on Authentication and key management for applications based on 3GPP credential in 5G**

*Type: WID revised For: Approval  
 Source: Qualcomm Incorporated, China Mobile Communications Group Co.,Ltd.*

(Replaces C3-205342)

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

**C3-205542 New WID on Reliable Data Service Serialization Indication**

*Type: WID new For: Endorsement  
 Source: Intel*

(Replaces C3-205036)

**Abstract:**

New Rel-17 WID was presented at CT1 #126-e mtg in Oct and deemed technically correct, though postponed, waiting for CT3 endorsement, before being agreed at next CT1 mtg in Nov.

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

**C3-205570 New WID on CT aspects for enabling Edge Applications**

*Type: WID new For: Approval  
 Source: Samsung Electronics Iberia SA*

(Replaces C3-205334)

**Decision:** The document was **revised to C3-205622**.

**C3-205622 New WID on CT aspects for enabling Edge Applications**

*Type: WID new For: Approval  
 Source: Samsung Electronics Iberia SA*

(Replaces C3-205570)

**Decision:** The document was **revised to C3-205624**.

**C3-205624 New WID on CT aspects for enabling Edge Applications**

*Type: WID new For: Approval  
 Source: Samsung Electronics Iberia SA*

(Replaces C3-205622)

**Discussion:**

Samsung: CT1 has endorsed the EDGEAPP WID in CT1#127e meeting. There are no changes to the CT3 objectives and also CT3 impacted specifications which were agreed in CT3#112e meeting.

CT1 discussed on the CT3 agreed WID proposal and updated the CT1 objective and CT1 impacted specifications.

Samsung: No further comments were received during the email approval period.

This version is confirmed as agreed after the email approval process (input from CT1 meeting considered).

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

#### 17.1.2 Contributions on Work Items

### 17.2 Stage 3 of Multimedia Priority Service (MPS) Phase 2 [MPS2]

### 17.3 PFD Management Enhancement [pfdManEnh]

**C3-205070 Corrections to Notification Push procedure**

*Type: CR For: Agreement  
 29.551 v17.0.0 CR-0042 Cat: F (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205369**.

**C3-205133 Optimized Pull mode**

*Type: CR For: Agreement  
 29.251 v16.2.0 CR-0030 Cat: C (Rel-17)  
  
 Source: China Telecom*

**Abstract:**

(1) Add non-updated-flag

(2) Add a delete indicator to indicate PFDF that PCEF delete PFD(s)

(3) Add partial update mechanism in pull mode

**Decision:** The document was **revised to C3-205574**.

**C3-205134 Retrieval PULL**

*Type: CR For: Agreement  
 29.551 v17.0.0 CR-0043 Cat: B (Rel-17)  
  
 Source: China Telecom*

**Abstract:**

Define the resource and data type for retrieval pull; Add new feature and update the OpenAPI file.

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

**C3-205181 PULL mode enhancement**

*Type: CR For: Agreement  
 29.551 v17.0.0 CR-0050 Cat: B (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205515**.

**C3-205182 Remove the PFDs within the PushNotification**

*Type: CR For: Agreement  
 29.551 v17.0.0 CR-0051 Cat: B (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205543**.

**C3-205183 Procedure of PUSH notification**

*Type: CR For: Agreement  
 29.513 v17.0.0 CR-0205 Cat: B (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-205544**.

**C3-205241 NotificationPush data type definition**

*Type: CR For: Agreement  
 29.551 v17.0.0 CR-0054 Cat: F (Rel-17)  
  
 Source: Ericsson*

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

**C3-205369 Corrections to Notification Push procedure**

*Type: CR For: Agreement  
 29.551 v17.0.0 CR-0042 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, Ericsson*

(Replaces C3-205070)

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

**C3-205515 PULL mode enhancement**

*Type: CR For: Agreement  
 29.551 v17.0.0 CR-0050 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei, Ericsson, China Telecom*

(Replaces C3-205181)

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

**C3-205543 Remove the PFDs within the PushNotification**

*Type: CR For: Agreement  
 29.551 v17.0.0 CR-0051 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei, Ericsson*

(Replaces C3-205182)

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

**C3-205544 Procedure of PUSH notification**

*Type: CR For: Agreement  
 29.513 v17.0.0 CR-0205 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei*

(Replaces C3-205183)

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

**C3-205574 Optimized Pull mode**

*Type: CR For: Agreement  
 29.251 v16.2.0 CR-0030 rev 1 Cat: B (Rel-17)  
  
 Source: China Telecom, Ericsson, Huawei*

(Replaces C3-205133)

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

### 17.4 Service Based Interface Protocol Improvements Release 17 [SBIProtoc17]

**C3-205032 DateTime Enhancement**

*Type: CR For: Agreement  
 29.122 v16.7.0 CR-0290 Cat: F (Rel-17)  
  
 Source: Hewlett-Packard Enterprise*

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

**C3-205242 Non-unique operation identifiers**

*Type: CR For: Agreement  
 29.551 v17.0.0 CR-0055 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205368**.

**C3-205368 Non-unique operation identifiers**

*Type: CR For: Agreement  
 29.551 v17.0.0 CR-0055 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson*

(Replaces C3-205242)

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

### 17.5 IMS Stage-3 IETF Protocol Alignment [IMSProtoc17]

### 17.6 Study on enhanced IMS to 5GC Integration Phase 2 [FS\_eIMS5G2]

### 17.7 Authentication and key management for applications based on 3GPP credential in 5G [AKMA-CT]

**C3-205252 Procedures of Nnef\_AKMA service**

*Type: CR For: Agreement  
 29.522 v16.5.0 CR-0225 Cat: B (Rel-17)  
  
 Source: Huawei, China Mobile*

**Discussion:**

CP-202254

Ericsson: The resource URI design shall align with other NEF APIs to include {afId} segment;

SA3 required AF FQDN and security protocol id can be included in the HTTP body as 2 attributes corresponding to the stage 2 defined “AF\_ID”.

Samsung:

Some minor comments for clause 4.4.x.2,

 In the following para, can we make the authorization part clear, like the one proposed below

Upon receipt of the corresponding HTTP POST message from the AF, if the AF’s request is authorized by the NEF, then the NEF shall interact with the AAnF to retrieve the AKMA application key by using Naanf\_AKMA service as defined in 3GPP TS 29.535 [TS29535]. After receiving a successful response from the AAnF, the NEF shall respond to the AF with a 200 OK status code, including a KAF and the expiration time of the KAF. If the NEF receives an error code from the AAnF, the NEF shall respond to the AF with a proper error status code

 Please correct the API version from “v1” to “<apiVersion>". This is aligning to earlier agreements on how API version variable needs to be treated in the specifications.

{apiRoot}/3gpp-akma/v1<apiVersion>/retrieve".

Huawei to Ericsson:

The API is not Restful but RPC, which is similar as ECRControl API as defined in TS 29.122. No resource URI is created in the server NEF.

The AF Id is defined in the HTTP body and includes the AF FQDN and security protocol id are already defined in the CR by using the data type AfId data for AF ID in 5253 of Table 5.x.5.4.2-1.

Huawei to Samsung:

On first bullet, ok. On second bullet: I would suggest to keep ‘v1’ as it is to align with other API definition defined in the whole TS 29.522, please let me know whether you are fine.

Samsung: On the <apiVersion>, I am fine to keep it v1 for now. However, like we did for other specifications, I would suggest to align the whole TS 29.522 to the recently agreed SBI convention of using “<apiVersion>” variable instead of “v1”.

Use <apiVersion> for new APIs for new TSs.

Be homogeneous for existing TSs.

Whenever a new API is defined, take the opportunity to update all the APIs to include <apiVersion>. Rapporteurs will do the work in future meetings. Check with CT4 delegates if they find some misalignment.

Discussions progressing.

Still unclear how to define the AF ID. Align with CT1. An EN for alignment with CT1 should be added.

Ericsson: For my comment on Nov 5th, I’ve checked mail again, also checked DAD, seems no further reply. Here Just to add our concerns mentioned in last CC, For below Here just to add what I mentioned in last CC, “||”

is not clear whether as logic “or “ or a connector?

While AF\_ID= FQDN is more clear alignment.

Hence, if LS is planned, before defining the unclear AF\_ID, please add above question on “||”, and also get SA3 opinion whether TS33.535 A.4 shall impact CT3 existing AF\_ID definition?

Huawei: I mentioned during the CC to check discussion on C3-205253.

C3-205253 defines the structure of AF\_ID.

I disagree with you assumption that the AF\_ID just equal to FQDN, since as TS 33.535 as stated in subclause 6.2 and 7.3.2. I also double checked with our SA3 delegates.

Please check the revision of 5253, and provide your comments there.

Ericsson: SA3 new spec. TS 33.535 including AF ID consists of the FQDN of the AF and the Ua\* security protocol identifier, in which Ua\* is new, i.e. existing AF Id do not contains Ua\* security protocol identifier.

Agree you consider LS for C3-205253, please add our concerns on whether “||” as logic “or “ or a connector ? and whether TS33.535 A.4 shall impact CT3 existing AF\_ID definition ?

**Decision:** The document was **revised to C3-205366**.

**C3-205253 API definition of Nnef\_AKMA service**

*Type: CR For: Agreement  
 29.522 v16.5.0 CR-0226 Cat: B (Rel-17)  
  
 Source: Huawei, China Mobile*

**Decision:** The document was **revised to C3-205367**.

**C3-205343 Discussion paper on revised AKMA WID**

*Type: discussion For: Information  
 Source: Qualcomm Incorporated*

**Discussion:**

Nokia: agrees with the discussion in 5343. Therefore, one of the WIDs (5342 or 5358) should be approved.

CT3 agrees the changes are needed.

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

**C3-205359 TS 29.535 Skeleton**

*Type: TS or TR cover For: Approval  
 29.535 v0.0.0  
 Source: China Mobile Communications Group Co.,Ltd.*

**Decision:** The document was **revised to C3-205363, C3-205584**.

**C3-205360 Introduction for AKMA Anchor Service**

*Type: pCR For: Approval  
 29.535 v0.0.0  
 Source: China Mobile Communications Group Co.,Ltd.*

**Decision:** The document was **revised to C3-205585**.

**C3-205361 Naanf\_AKMA Service Description**

*Type: pCR For: Approval  
 29.535 v0.0.0  
 Source: China Mobile Communications Group Co.,Ltd.*

**Decision:** The document was **revised to C3-205586**.

**C3-205363 TS 29.535 Skeleton**

*Type: TS or TR cover For: Approval  
 29.535 v0.0.0  
 Source: China Mobile Communications Group Co.,Ltd.*

(Replaces C3-205359)

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

**C3-205366 Procedures of Nnef\_AKMA service**

*Type: CR For: Agreement  
 29.522 v16.5.0 CR-0225 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei, China Mobile*

(Replaces C3-205252)

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

**C3-205367 API definition of Nnef\_AKMA service**

*Type: CR For: Agreement  
 29.522 v16.5.0 CR-0226 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei, China Mobile*

(Replaces C3-205253)

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

**C3-205584 TS 29.535 Skeleton**

*Type: TS or TR cover For: Approval  
 29.535 v0.0.0  
 Source: China Mobile Communications Group Co.,Ltd.*

(Replaces C3-205359)

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

**C3-205585 Introduction for AKMA Anchor Service**

*Type: pCR For: Approval  
 29.535 v0.0.0  
 Source: China Mobile Communications Group Co.,Ltd.,Huawei*

(Replaces C3-205360)

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

**C3-205586 Naanf\_AKMA Service Description**

*Type: pCR For: Approval  
 29.535 v0.0.0  
 Source: China Mobile Communications Group Co.,Ltd., Huawei*

(Replaces C3-205361)

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

**C3-205623 TS 29.535 v0.1.0**

*Type: draft TS For: Approval  
 29.535 v0.1.0  
 Source: China Mobile Communications Group Co.,Ltd*

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

### 17.8 CT aspects on PAP/CHAP protocols usage in 5GS [PAP/CHAP]

**C3-205132 Adding the abbreviations of PAP/CHAP in TS 29.561**

*Type: CR For: Agreement  
 29.561 v16.5.0 CR-0057 Cat: B (Rel-17)  
  
 Source: China Telecom Corporation Ltd., Huawei*

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

**C3-205135 Adding a note for IPv4/IPv6 Non-transparent access to DN using PAP/CHAP**

*Type: CR For: Agreement  
 29.561 v16.5.0 CR-0058 Cat: B (Rel-17)  
  
 Source: China Telecom Corporation Ltd., Huawei*

**Decision:** The document was **revised to C3-205572**.

**C3-205184 Adding PAP/CHAP in RADIUS message flow(successful case)**

*Type: CR For: Agreement  
 29.561 v16.5.0 CR-0061 Cat: B (Rel-17)  
  
 Source: China Telecom Corporation Ltd., Huawei*

**Decision:** The document was **revised to C3-205575**.

**C3-205191 Adding PAP/CHAP in Diameter message flow(successful case)**

*Type: CR For: Agreement  
 29.561 v16.5.0 CR-0062 Cat: B (Rel-17)  
  
 Source: China Telecom Corporation Ltd., Huawei*

**Decision:** The document was **revised to C3-205577**.

**C3-205572 Adding a note for IPv4/IPv6 Non-transparent access to DN using PAP/CHAP**

*Type: CR For: Agreement  
 29.561 v16.5.0 CR-0058 rev 1 Cat: B (Rel-17)  
  
 Source: China Telecom Corporation Ltd., Huawei, Ericsson*

(Replaces C3-205135)

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

**C3-205573 Adding PAP/CHAP in RADIUS message flow(successful case)**

*Type: CR For: Agreement  
 29.561 v16.5.0 CR-0074 Cat: B (Rel-17)  
  
 Source: China Telecom Corporation Ltd.*

(Replaces C1-205184)

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

**C3-205575 Adding PAP/CHAP in RADIUS message flow(successful case)**

*Type: CR For: Agreement  
 29.561 v16.5.0 CR-0061 rev 1 Cat: B (Rel-17)  
  
 Source: China Telecom Corporation Ltd., Huawei, Ericsson*

(Replaces C3-205184)

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

**C3-205577 Adding PAP/CHAP in Diameter message flow(successful case)**

*Type: CR For: Agreement  
 29.561 v16.5.0 CR-0062 rev 1 Cat: B (Rel-17)  
  
 Source: China Telecom Corporation Ltd., Huawei, Ericsson*

(Replaces C3-205191)

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

### 17.9 Technical Enhancements and Improvements [TEI17]

**C3-205278 discussion on Nchf\_SpendingLimitControl service optimization for 5G VN group communication**

*Type: discussion For: Discussion  
 Source: Huawei*

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

**C3-205279 Nchf\_SpendingLimitControl service optimization for 5G VN group communication**

*Type: CR For: Agreement  
 29.594 v16.3.0 CR-0067 Cat: B (Rel-17)  
  
 Source: Huawei*

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

#### 17.9.1 TEI17 for IMS/CS

**C3-205222 Adding the description of Ix reference point**

*Type: CR For: Agreement  
 29.165 v16.4.0 CR-1016 Cat: F (Rel-17)  
  
 Source: NTT corporation*

**Decision:** The document was **revised to C3-205397**.

**C3-205397 Adding the description of Ix reference point**

*Type: CR For: Agreement  
 29.165 v16.4.0 CR-1016 rev 1 Cat: F (Rel-17)  
  
 Source: NTT corporation*

(Replaces C3-205222)

**Decision:** The document was **revised to C3-205555**.

**C3-205555 Adding the description of Ix reference point**

*Type: CR For: Agreement  
 29.165 v16.4.0 CR-1016 rev 2 Cat: F (Rel-17)  
  
 Source: NTT corporation*

(Replaces C3-205397)

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

#### 17.9.2 TEI17 for Packet Core

**C3-205083 Adding Support for Indicating Serialization Format in RDS**

*Type: CR For: Agreement  
 29.122 v16.7.0 CR-0292 Cat: C (Rel-17)  
  
 Source: Convida Wireless LLC, Intel*

**Abstract:**

Updated the Individual ManagePort Configuration so that the SCS can indicate what sterilization format(s) it supports on the port and so that the SCEF can indicate what sterilization format has been configured/negotiated for the port..

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

**C3-205084 Adding Support for Indicating Serialization Format in RDS**

*Type: CR For: Agreement  
 29.122 v16.7.0 CR-0293 Cat: C (Rel-17)  
  
 Source: Convida Wireless LLC, Intel*

**Abstract:**

Updated the Individual ManagePort Configuration so that the SCS can indicate what serialization format(s) it supports on the port and so that the SCEF can indicate what serialization format has been configured/negotiated for the port.

**Decision:** The document was **revised to C3-205507**.

**C3-205090 Disambiguation of the reporting and handling of triggers for PCC rule bases**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0578 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Disambiguation of the reporting and handling of triggers for PCC rule bases

**Decision:** The document was **revised to C3-205581**.

**C3-205123 Correction to FailureCode and SessionFailureCode**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0602 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205398**.

**C3-205124 Extension of Policy Decision Failure handling**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0603 Cat: B (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205399**.

**C3-205125 Correction to SM Policy Association termination due to session rule error**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0604 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205436**.

**C3-205126 Correction to SessionRuleFailureCode**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0605 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205400**.

**C3-205127 Correction to usage monitoring control**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0606 Cat: F (Rel-17)  
  
 Source: Ericsson*

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

**C3-205128 Correction to SMF definition for LBO**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0607 Cat: F (Rel-17)  
  
 Source: Ericsson*

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

**C3-205129 Correction to Notification response receiver**

*Type: CR For: Agreement  
 29.513 v17.0.0 CR-0199 Cat: F (Rel-17)  
  
 Source: Ericsson*

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

**C3-205130 Correction to pending transactions**

*Type: CR For: Agreement  
 29.513 v17.0.0 CR-0200 Cat: F (Rel-17)  
  
 Source: Ericsson*

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

**C3-205131 Correction to SM policy association modification procedure**

*Type: CR For: Agreement  
 29.513 v17.0.0 CR-0201 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205401**.

**C3-205213 Report current value in Update for location and accessType related triggers**

*Type: CR For: Agreement  
 29.507 v17.0.0 CR-0142 Cat: F (Rel-17)  
  
 Source: ZTE*

**Decision:** The document was **revised to C3-205472**.

**C3-205214 Report current value in Update for location related triggers**

*Type: CR For: Agreement  
 29.525 v17.0.0 CR-0127 Cat: F (Rel-17)  
  
 Source: ZTE*

**Decision:** The document was **revised to C3-205473**.

**C3-205215 Adding 200OK response for UpdateNotify**

*Type: CR For: Agreement  
 29.507 v17.0.0 CR-0143 Cat: B (Rel-17)  
  
 Source: ZTE*

**Decision:** The document was **revised to C3-205474**.

**C3-205216 Adding 200OK response for UpdateNotify**

*Type: CR For: Agreement  
 29.525 v17.0.0 CR-0128 Cat: B (Rel-17)  
  
 Source: ZTE*

**Decision:** The document was **revised to C3-205475**.

**C3-205217 Support of 307&404 response codes for Policy update notification**

*Type: CR For: Agreement  
 29.525 v17.0.0 CR-0129 Cat: B (Rel-17)  
  
 Source: ZTE*

**Decision:** The document was **revised to C3-205589**.

**C3-205223 Data retrieval of multiple policy data sets**

*Type: CR For: Agreement  
 29.519 v17.0.0 CR-0223 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to C3-205365**.

**C3-205243 PolicyAssociationReleaseCause enumeration name**

*Type: CR For: Agreement  
 29.507 v17.0.0 CR-0144 Cat: F (Rel-17)  
  
 Source: Ericsson*

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

**C3-205244 "400 Bad Request" response on notification**

*Type: CR For: Agreement  
 29.507 v17.0.0 CR-0145 Cat: F (Rel-17)  
  
 Source: Ericsson*

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

**C3-205245 "400 Bad Request" response on notification**

*Type: CR For: Agreement  
 29.525 v17.0.0 CR-0130 Cat: F (Rel-17)  
  
 Source: Ericsson*

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

**C3-205303 Corrections to IPv4 and IPv6**

*Type: CR For: Agreement  
 29.061 v17.0.0 CR-0527 Cat: F (Rel-17)  
  
 Source: Ericsson*

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

**C3-205304 Corrections to IPv6**

*Type: CR For: Agreement  
 29.561 v16.5.0 CR-0068 Cat: F (Rel-17)  
  
 Source: Ericsson*

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

**C3-205306 Corrections to Delegated-IPv6-Prefix**

*Type: CR For: Agreement  
 29.061 v17.0.0 CR-0529 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205389**.

**C3-205308 Corrections on SMF directly connecting DN-AAA server**

*Type: CR For: Agreement  
 29.561 v16.5.0 CR-0070 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-205390**.

**C3-205329 Updates with error response indicating unavailable statistics**

*Type: CR For: Agreement  
 29.520 v17.0.0 CR-0241 Cat: F (Rel-17)  
  
 Source: Ericsson*

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

**C3-205346 Updates to support User Location Change**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0629 Cat: B (Rel-17)  
  
 Source: Ericsson, China Mobile*

**Decision:** The document was **revised to C3-205402**.

**C3-205365 Data retrieval of multiple policy data sets**

*Type: CR For: Agreement  
 29.519 v17.0.0 CR-0223 rev 1 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces C3-205223)

**Decision:** The document was **revised to C3-205499**.

**C3-205390 Corrections on SMF directly connecting DN-AAA server**

*Type: CR For: Agreement  
 29.561 v16.5.0 CR-0070 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson*

(Replaces C3-205308)

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

**C3-205392 LS on N28 optimization possible imapct**

*Type: LS out For: Approval  
 to SA2  
 Source: Huawei*

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

**C3-205398 Correction to FailureCode and SessionFailureCode**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0602 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson*

(Replaces C3-205123)

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

**C3-205399 Extension of Policy Decision Failure handling**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0603 rev 1 Cat: B (Rel-17)  
  
 Source: Ericsson*

(Replaces C3-205124)

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

**C3-205400 Correction to SessionRuleFailureCode**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0605 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson*

(Replaces C3-205126)

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

**C3-205401 Correction to SM policy association modification procedure**

*Type: CR For: Agreement  
 29.513 v17.0.0 CR-0201 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson*

(Replaces C3-205131)

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

**C3-205402 Updates to support User Location Change**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0629 rev 1 Cat: B (Rel-17)  
  
 Source: Ericsson, China Mobile*

(Replaces C3-205346)

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

**C3-205436 Correction to SM Policy Association termination due to session rule error**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0604 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson*

(Replaces C3-205125)

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

**C3-205472 Report current value in Update for location and accessType related triggers**

*Type: CR For: Agreement  
 29.507 v17.0.0 CR-0142 rev 1 Cat: F (Rel-17)  
  
 Source: ZTE*

(Replaces C3-205213)

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

**C3-205473 Report current value in Update for location related triggers**

*Type: CR For: Agreement  
 29.525 v17.0.0 CR-0127 rev 1 Cat: F (Rel-17)  
  
 Source: ZTE*

(Replaces C3-205214)

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

**C3-205474 Adding 200OK response for UpdateNotify**

*Type: CR For: Agreement  
 29.507 v17.0.0 CR-0143 rev 1 Cat: B (Rel-17)  
  
 Source: ZTE*

(Replaces C3-205215)

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

**C3-205475 Adding 200OK response for UpdateNotify**

*Type: CR For: Agreement  
 29.525 v17.0.0 CR-0128 rev 1 Cat: B (Rel-17)  
  
 Source: ZTE*

(Replaces C3-205216)

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

**C3-205499 Data retrieval of multiple policy data sets**

*Type: CR For: Agreement  
 29.519 v17.0.0 CR-0223 rev 2 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces C3-205365)

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

**C3-205507 Adding Support for Indicating Serialization Format in RDS**

*Type: CR For: Agreement  
 29.122 v16.7.0 CR-0293 rev 1 Cat: B (Rel-17)  
  
 Source: Convida Wireless LLC, Intel*

(Replaces C3-205084)

**Abstract:**

Updated the Individual ManagePort Configuration so that the SCS can indicate what serialization format(s) it supports on the port and so that the SCEF can indicate what serialization format has been configured/negotiated for the port.

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

**C3-205554 Combination of DNN and S-NSSAI**

*Type: CR For: Agreement  
 29.523 v17.0.0 CR-0037 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei*

(Replaces C3-205265)

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

**C3-205571 Faliure authorization result of BDT reference Id for ChargeableParty API request**

*Type: CR For: Agreement  
 29.122 v16.7.0 CR-0324 Cat: F (Rel-17)  
  
 Source: Huawei, Havelsan*

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

**C3-205581 Disambiguation of the reporting and handling of triggers for PCC rule bases**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0578 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces C3-205090)

**Abstract:**

Disambiguation of the reporting and handling of triggers for PCC rule bases

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

**C3-205589 Support of 307&404 response codes for Policy update notification**

*Type: CR For: Agreement  
 29.525 v17.0.0 CR-0129 rev 1 Cat: B (Rel-17)  
  
 Source: ZTE*

(Replaces C3-205217)

**Decision:** The document was **revised to C3-205614**.

**C3-205614 Support of 307&404 response codes for Policy update notification**

*Type: CR For: Agreement  
 29.525 v17.0.0 CR-0129 rev 2 Cat: B (Rel-17)  
  
 Source: ZTE*

(Replaces C3-205589)

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

### 17.10 OpenAPI version updates

**C3-205501 Update of OpenAPI version and TS version in externalDocs field**

*Type: CR For: Agreement  
 29.512 v17.0.0 CR-0633 Cat: F (Rel-17)  
  
 Source: Huawei Technologies R&D UK*

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

**C3-205548 Update of OpenAPI version and TS version in externalDocs field**

*Type: CR For: Agreement  
 29.551 v17.0.0 CR-0056 Cat: F (Rel-17)  
  
 Source: ZTE*

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

**C3-205561 Update of OpenAPI version and TS version in externalDocs field**

*Type: CR For: Agreement  
 29.122 v16.7.0 CR-0323 Cat: F (Rel-17)  
  
 Source: Huawei*

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

**C3-205564 Update of TS version in externalDocs field**

*Type: CR For: Agreement  
 29.519 v17.0.0 CR-0229 Cat: F (Rel-17)  
  
 Source: Huawei*

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

**C3-205588 Update of OpenAPI version and TS version in externalDocs field**

*Type: CR For: Agreement  
 29.520 v17.0.0 CR-0246 Cat: F (Rel-17)  
  
 Source: China Mobile Com. Corporation*

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

**C3-205596 Update of OpenAPI version and TS version in externalDocs field**

*Type: CR For: Agreement  
 29.507 v17.0.0 CR-0148 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**C3-205597 Update of OpenAPI version and TS version in externalDocs field**

*Type: CR For: Agreement  
 29.525 v17.0.0 CR-0136 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**C3-205599 Update of OpenAPI version and TS version in externalDocs field**

*Type: CR For: Agreement  
 29.594 v16.3.0 CR-0069 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**C3-205606 Update of OpenAPI version and TS version in externalDocs field**

*Type: CR For: Agreement  
 29.523 v17.0.0 CR-0041 Cat: F (Rel-17)  
  
 Source: Ericsson*

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

## 18 Work Organisation

### 18.1 Work Plan Review

**C3-205012 Status of CT3 Work Items**

*Type: Work Plan For: Information  
 Source: CT3 chairman*

**Decision:** The document was **revised to C3-205613**.

**C3-205014 WI status report from MCC**

*Type: Work Plan For: Information  
 Source: MCC*

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

**C3-205613 Status of CT3 Work Items**

*Type: Work Plan For: Information  
 Source: CT3 chairman*

(Replaces C3-205012)

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

### 18.2 Specification Review

### 18.3 Next meetings, allocation of hosts

### 18.4 Calendar

**C3-205015 Meeting Calendar**

*Type: other For: Information  
 Source: MCC*

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

## 19 Joint Sessions

## 20 Summary of results

## 21 Any other business

**C3-205033 Terms of Reference (ToR) for 3GPP TSG CT WG3 (CT3)**

*Type: ToR For: Agreement  
 Source: CT3 chairman*

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

## 22 Closing of the meeting

Report prepared by: Hao Jing

## Annex A: Contribution documents and status

### A1: List of TDocs

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Decision | Replaces | Replaced by |
| * C3-205000 | * Draft Agenda for the CT3#112 e-Meeting | * CT3 chairman | * noted |  |  |
| * C3-205001 | * INFO Proposed Schedule for CT3#112e | * CT3 chairman | * noted |  |  |
| * C3-205002 | * Allocation of documents to agenda items (at Deadline) | * CT3 chairman | * noted |  |  |
| * C3-205003 | * Allocation of documents to agenda items (Start of Day 1) | * CT3 chairman | * noted |  |  |
| * C3-205004 | * Allocation of documents to agenda items (Start of Day 2) | * CT3 chairman | * noted |  |  |
| * C3-205005 | * Allocation of documents to agenda items (Start of Day 3) | * CT3 chairman | * noted |  |  |
| * C3-205006 | * Allocation of documents to agenda items (Start of Day 4) | * CT3 chairman | * noted |  |  |
| * C3-205007 | * Allocation of documents to agenda items (Start of Day 5) | * CT3 chairman | * noted |  |  |
| * C3-205008 | * Allocation of documents to agenda items (Start of Day 6) | * CT3 chairman | * noted |  |  |
| * C3-205009 | * Allocation of documents to agenda items (Start of Day 7) | * CT3 chairman | * noted |  |  |
| * C3-205010 | * Allocation of documents to agenda items (Start of Day 8) | * CT3 chairman | * noted |  |  |
| * C3-205011 | * Allocation of documents to agenda items (End of Day 8) | * CT3 chairman | * noted |  |  |
| * C3-205012 | * Status of CT3 Work Items | * CT3 chairman | * revised |  | * C3-205613 |
| * C3-205013 | * Minutes of CT3#111e | * MCC | * approved |  |  |
| * C3-205014 | * WI status report from MCC | * MCC | * noted |  |  |
| * C3-205015 | * Meeting Calendar | * MCC | * noted |  |  |
| * C3-205016 | * Way of Working for CT3#112e Electronic Meeting | * CT3 chairman | * noted |  |  |
| * C3-205017 | * LS on the stage 2 aspects of MINT | * CT1 | * noted |  |  |
| * C3-205018 | * LS on Media Feature Tag for IMS Data Channel | * CT1 | * noted |  |  |
| * C3-205019 | * LS on Event Configuration Synchronization between 4G&5G | * CT4 | * noted |  |  |
| * C3-205020 | * LS on information of stage 3 aspects for AKMA | * CT | * noted |  |  |
| * C3-205021 | * LS Reply on clarification on TSN for Vertical\_LAN | * SA2 | * noted |  |  |
| * C3-205022 | * LS Response on Bulk operation of LCS-service | * SA2 | * noted |  |  |
| * C3-205023 | * Reply LS on Key Management procedure in SEAL | * SA3 | * noted |  |  |
| * C3-205024 | * Reply LS on Reply PAP/CHAP and other point-to-point protocols usage in 5GS | * SA3 | * noted |  |  |
| * C3-205025 | * LS on New function for Network Slice PA and Management Charging | * SA5 | * noted |  |  |
| * C3-205026 | * Reply LS on the stage 2 aspects of MINT | * SA | * noted |  |  |
| * C3-205027 | * refUmN3gData yaml correction | * Hewlett-Packard Enterprise | * agreed |  |  |
| * C3-205028 | * refUmN3gData yaml correction | * Hewlett-Packard Enterprise | * agreed |  |  |
| * C3-205029 | * LS on Completion of WT-456 and WT-470 | * SA2 | * noted |  |  |
| * C3-205030 | * Reply LS on 'Event Configuration Synchronization between 4G&5G' | * SA2 | * noted |  |  |
| * C3-205031 | * LS Response on Bulk operation of LCS-service | * SA2 | * noted |  |  |
| * C3-205032 | * DateTime Enhancement | * Hewlett-Packard Enterprise | * agreed |  |  |
| * C3-205033 | * Terms of Reference (ToR) for 3GPP TSG CT WG3 (CT3) | * CT3 chairman | * noted |  |  |
| * C3-205034 | * PCC control for DDD status and availability after DDN failure events | * CATT | * merged |  |  |
| * C3-205035 | * PCC control for DDD status and availability after DDN failure events | * CATT | * merged |  |  |
| * C3-205036 | * New WID on Reliable Data Service Serialization Indication | * Intel | * revised |  | * C3-205542 |
| * C3-205037 | * TS 29.513 Usage of PCF Group ID for PCF selection when delegated discovery is used | * Huawei | * revised |  | * C3-205493 |
| * C3-205038 | * TS 29.513 Usage of PCF Group ID for PCF selection when delegated discovery is used | * Huawei | * revised |  | * C3-205494 |
| * C3-205039 | * TS 29.122 Essential Corrections and alignments | * Huawei | * revised |  | * C3-205517 |
| * C3-205040 | * TS 29.222 Essential Corrections and alignments | * Huawei | * revised |  | * C3-205518 |
| * C3-205041 | * TS 29.486 Essential Corrections and alignments | * Huawei | * revised |  | * C3-205519 |
| * C3-205042 | * TS 29.507 Essential Corrections and alignments | * Huawei | * revised |  | * C3-205520 |
| * C3-205043 | * TS 29.507 Essential Corrections and alignments | * Huawei | * revised |  | * C3-205521 |
| * C3-205044 | * TS 29.508 Essential Corrections and alignments | * Huawei | * revised |  | * C3-205522 |
| * C3-205045 | * TS 29.508 Essential Corrections and alignments | * Huawei | * revised |  | * C3-205523 |
| * C3-205046 | * TS 29.512 Essential Corrections and alignments | * Huawei | * agreed |  |  |
| * C3-205047 | * TS 29.512 Essential Corrections and alignments | * Huawei | * agreed |  |  |
| * C3-205048 | * TS 29.514 Essential Corrections and alignments | * Huawei | * revised |  | * C3-205524 |
| * C3-205049 | * TS 29.517 Essential Corrections and alignments | * Huawei | * revised |  | * C3-205525 |
| * C3-205050 | * TS 29.519 Essential Corrections and alignments | * Huawei | * agreed |  |  |
| * C3-205051 | * TS 29.519 Essential Corrections and alignments | * Huawei | * agreed |  |  |
| * C3-205052 | * TS 29.520 Essential Corrections and alignments | * Huawei | * revised |  | * C3-205526 |
| * C3-205053 | * TS 29.520 Essential Corrections and alignments | * Huawei | * revised |  | * C3-205527 |
| * C3-205054 | * TS 29.521 Essential Corrections and alignments | * Huawei | * revised |  | * C3-205528 |
| * C3-205055 | * TS 29.522 Essential Corrections and alignments | * Huawei | * revised |  | * C3-205529 |
| * C3-205056 | * TS 29.523 Essential Corrections and alignments | * Huawei | * revised |  | * C3-205530 |
| * C3-205057 | * TS 29.523 Essential Corrections and alignments | * Huawei | * revised |  | * C3-205531 |
| * C3-205058 | * TS 29.525 Essential Corrections and alignments | * Huawei | * revised |  | * C3-205532 |
| * C3-205059 | * TS 29.525 Essential Corrections and alignments | * Huawei | * revised |  | * C3-205533 |
| * C3-205060 | * TS 29.549 Essential Corrections and alignments | * Huawei | * revised |  | * C3-205534 |
| * C3-205061 | * TS 29.551 Essential Corrections and alignments | * Huawei | * revised |  | * C3-205535 |
| * C3-205062 | * TS 29.551 Essential Corrections and alignments | * Huawei | * revised |  | * C3-205536 |
| * C3-205063 | * TS 29.554 Essential Corrections and alignments | * Huawei | * revised |  | * C3-205537 |
| * C3-205064 | * TS 29.591 Essential Corrections and alignments | * Huawei | * revised |  | * C3-205538 |
| * C3-205065 | * TS 29.594 Essential Corrections and alignments | * Huawei | * revised |  | * C3-205539 |
| * C3-205066 | * TS 29.675 Essential Corrections and alignments | * Huawei | * agreed |  |  |
| * C3-205067 | * TS 29.675 Essential Corrections and alignments | * Huawei | * agreed |  |  |
| * C3-205068 | * TS 29.513 Wrong references correction | * Huawei | * merged |  |  |
| * C3-205069 | * TS 29.513 Wrong references correction | * Huawei | * merged |  |  |
| * C3-205070 | * Corrections to Notification Push procedure | * Huawei | * revised |  | * C3-205369 |
| * C3-205071 | * New WID on CT aspects of enhanced support of industrial IoT | * Nokia, Nokia Shanghai Bell | * postponed |  |  |
| * C3-205072 | * Discussion on handling of Binding Headers for subscriptions on behalf of another NF | * Ericsson | * noted |  |  |
| * C3-205073 | * Correction to support NEF binding indication | * Ericsson | * revised |  | * C3-205409 |
| * C3-205074 | * Correction to support NEF binding indication | * Ericsson | * revised |  | * C3-205410 |
| * C3-205075 | * Storage of YAML files in 3GPP Forge | * Nokia, Nokia Shanghai Bell | * revised |  | * C3-205370 |
| * C3-205076 | * Storage of YAML files in 3GPP Forge | * Nokia, Nokia Shanghai Bell | * revised |  | * C3-205371 |
| * C3-205077 | * Storage of YAML files in 3GPP Forge | * Nokia, Nokia Shanghai Bell | * revised |  | * C3-205372 |
| * C3-205078 | * Storage of YAML files in 3GPP Forge | * Nokia, Nokia Shanghai Bell | * revised |  | * C3-205373 |
| * C3-205079 | * Storage of YAML files in 3GPP Forge | * Nokia, Nokia Shanghai Bell | * revised |  | * C3-205374 |
| * C3-205080 | * Storage of YAML files in 3GPP Forge | * Nokia, Nokia Shanghai Bell | * revised |  | * C3-205375 |
| * C3-205081 | * Storage of YAML files in 3GPP Forge | * Nokia, Nokia Shanghai Bell | * revised |  | * C3-205376 |
| * C3-205082 | * SBI Message Priority mechanism for emergency session | * Nokia, Nokia Shanghai Bell | * revised |  | * C3-205378 |
| * C3-205083 | * Adding Support for Indicating Serialization Format in RDS | * Convida Wireless LLC, Intel | * withdrawn |  |  |
| * C3-205084 | * Adding Support for Indicating Serialization Format in RDS | * Convida Wireless LLC, Intel | * revised |  | * C3-205507 |
| * C3-205085 | * Reply LS on clarification on using PAP/CHAP for 5GS | * CT1 | * noted |  |  |
| * C3-205086 | * LS on APIs in EDGEAPP | * SA6 | * noted |  |  |
| * C3-205087 | * Correction of the condition for the Credit Reallocation event | * Nokia, Nokia Shanghai Bell | * revised |  | * C3-205579 |
| * C3-205088 | * Correction of the condition for the Credit Reallocation event | * Nokia, Nokia Shanghai Bell | * revised |  | * C3-205580 |
| * C3-205089 | * Disambiguation of the reporting and handling of triggers for PCC rule bases | * Nokia, Nokia Shanghai Bell | * not pursued |  |  |
| * C3-205090 | * Disambiguation of the reporting and handling of triggers for PCC rule bases | * Nokia, Nokia Shanghai Bell | * revised |  | * C3-205581 |
| * C3-205091 | * Remove NW-TT ports from TsnBridgeInfo type | * Intel / Thomas | * merged |  |  |
| * C3-205092 | * Remove NW-TT ports from TsnBridgeInfo type | * Intel / Thomas | * merged |  |  |
| * C3-205093 | * Essential Corrections to eLCS related monitoring events | * Huawei | * revised |  | * C3-205443 |
| * C3-205094 | * Essential corrections and alignments | * Huawei | * revised |  | * C3-205444 |
| * C3-205095 | * Summary of CT#89e related to CT3 | * CT3 chairman | * noted |  |  |
| * C3-205096 | * Correction to PRA | * Ericsson | * revised |  | * C3-205424 |
| * C3-205097 | * Correction to PRA | * Ericsson | * revised |  | * C3-205425 |
| * C3-205098 | * Correction to PRA | * Ericsson | * revised |  | * C3-205426 |
| * C3-205099 | * Correction to PRA | * Ericsson | * revised |  | * C3-205427 |
| * C3-205100 | * Correction to PRA | * Ericsson | * revised |  | * C3-205428 |
| * C3-205101 | * Correction to PRA | * Ericsson | * revised |  | * C3-205429 |
| * C3-205102 | * Correction to access type conditioned session AMBR | * Ericsson | * revised |  | * C3-205403 |
| * C3-205103 | * Correction to access type conditioned session AMBR | * Ericsson | * revised |  | * C3-205404 |
| * C3-205104 | * Correction to PolicyDecisionErrorHandling feature | * Ericsson | * revised |  | * C3-205405 |
| * C3-205105 | * Correction to PolicyDecisionErrorHandling feature | * Ericsson | * revised |  | * C3-205406 |
| * C3-205106 | * Correction to SamePcf Feature | * Ericsson | * revised |  | * C3-205407 |
| * C3-205107 | * Correction to SamePcf Feature | * Ericsson | * revised |  | * C3-205408 |
| * C3-205108 | * Correction to modification of dynamic PCC rules | * Ericsson | * not pursued |  |  |
| * C3-205109 | * Correction to modification of dynamic PCC rules | * Ericsson | * not pursued |  |  |
| * C3-205110 | * Correction to modification of dynamic PCC rules | * Ericsson | * not pursued |  |  |
| * C3-205111 | * Correction to policy based on revalidation time | * Ericsson | * agreed |  |  |
| * C3-205112 | * Correction to policy based on revalidation time | * Ericsson | * agreed |  |  |
| * C3-205113 | * Correction to policy based on revalidation time | * Ericsson | * agreed |  |  |
| * C3-205114 | * Correction to session rule | * Ericsson | * revised |  | * C3-205508 |
| * C3-205115 | * Correction to session rule | * Ericsson | * revised |  | * C3-205509 |
| * C3-205116 | * Correction to session rule | * Ericsson | * revised |  | * C3-205510 |
| * C3-205117 | * Correction to usage monitoring control | * Ericsson | * agreed |  |  |
| * C3-205118 | * Correction to usage monitoring control | * Ericsson | * agreed |  |  |
| * C3-205119 | * Correction to usage monitoring control | * Ericsson | * agreed |  |  |
| * C3-205120 | * Correction to PRA | * Ericsson | * revised |  | * C3-205511 |
| * C3-205121 | * Correction to PCF Discovery and Selection | * Ericsson | * merged |  |  |
| * C3-205122 | * Correction to PCF Discovery and Selection | * Ericsson | * merged |  |  |
| * C3-205123 | * Correction to FailureCode and SessionFailureCode | * Ericsson | * revised |  | * C3-205398 |
| * C3-205124 | * Extension of Policy Decision Failure handling | * Ericsson | * revised |  | * C3-205399 |
| * C3-205125 | * Correction to SM Policy Association termination due to session rule error | * Ericsson | * revised |  | * C3-205436 |
| * C3-205126 | * Correction to SessionRuleFailureCode | * Ericsson | * revised |  | * C3-205400 |
| * C3-205127 | * Correction to usage monitoring control | * Ericsson | * agreed |  |  |
| * C3-205128 | * Correction to SMF definition for LBO | * Ericsson | * agreed |  |  |
| * C3-205129 | * Correction to Notification response receiver | * Ericsson | * agreed |  |  |
| * C3-205130 | * Correction to pending transactions | * Ericsson | * agreed |  |  |
| * C3-205131 | * Correction to SM policy association modification procedure | * Ericsson | * revised |  | * C3-205401 |
| * C3-205132 | * Adding the abbreviations of PAP/CHAP in TS 29.561 | * China Telecom Corporation Ltd., Huawei | * merged |  |  |
| * C3-205133 | * Optimized Pull mode | * China Telecom | * revised |  | * C3-205574 |
| * C3-205134 | * Retrieval PULL | * China Telecom | * merged |  |  |
| * C3-205135 | * Adding a note for IPv4/IPv6 Non-transparent access to DN using PAP/CHAP | * China Telecom Corporation Ltd., Huawei | * revised |  | * C3-205572 |
| * C3-205136 | * Correction to usage report during the policy association termination | * Huawei | * revised |  | * C3-205445 |
| * C3-205137 | * Correction to usage report during the policy association termination | * Huawei | * revised |  | * C3-205446 |
| * C3-205138 | * Correction to usage report during the policy association termination | * Huawei | * revised |  | * C3-205447 |
| * C3-205139 | * Correction to ACCESS\_TYPE\_CHANGE | * Huawei | * agreed |  |  |
| * C3-205140 | * Correction to ACCESS\_TYPE\_CHANGE | * Huawei | * agreed |  |  |
| * C3-205141 | * Correction to PFD retrieval in PULL mode | * Huawei | * agreed |  |  |
| * C3-205142 | * Correction to PFD retrieval in PULL mode | * Huawei | * agreed |  |  |
| * C3-205143 | * Correction to PFD retrieval in PULL mode | * Huawei | * agreed |  |  |
| * C3-205144 | * Correction on the Acct-Session-Id | * Huawei, Ericsson | * agreed |  |  |
| * C3-205145 | * Correction on the Acct-Session-Id | * Huawei, Ericsson | * agreed |  |  |
| * C3-205146 | * Correction to PFD retrieval in PULL mode | * Huawei | * revised |  | * C3-205496 |
| * C3-205147 | * Correction to PFD retrieval in PULL mode | * Huawei | * revised |  | * C3-205497 |
| * C3-205148 | * Correction to PFD retrieval in PULL mode | * Huawei | * revised |  | * C3-205498 |
| * C3-205149 | * Correction to notification URI of PFD change notification | * Huawei | * agreed |  |  |
| * C3-205150 | * Correction to notification URI of PFD change notification | * Huawei | * agreed |  |  |
| * C3-205151 | * Correction to notification URI of PFD change notification | * Huawei | * agreed |  |  |
| * C3-205152 | * Discussion on BDT policy re-negotiation | * Huawei | * noted |  |  |
| * C3-205153 | * Correction to the BDT policy re-negotiation | * Huawei | * revised |  | * C3-205449 |
| * C3-205154 | * Correction to the BDT policy re-negotiation | * Huawei | * revised |  | * C3-205450 |
| * C3-205155 | * Correction to the BDT policy re-negotiation | * Huawei | * revised |  | * C3-205451 |
| * C3-205156 | * Correction to the BDT policy re-negotiation | * Huawei | * revised |  | * C3-205452 |
| * C3-205157 | * Correction to the BDT policy re-negotiation | * Huawei | * revised |  | * C3-205393 |
| * C3-205158 | * Correction to the BDT policy re-negotiation | * Huawei | * revised |  | * C3-205394 |
| * C3-205159 | * Correction to the BDT policy re-negotiation | * Huawei | * revised |  | * C3-205616 |
| * C3-205160 | * Remove the NW-TT port from the TSN bridge info | * Huawei | * revised |  | * C3-205512 |
| * C3-205161 | * Remove the NW-TT port from the TSN bridge info | * Huawei | * revised |  | * C3-205513 |
| * C3-205162 | * Remove the NW-TT port from the TSN bridge info | * Huawei | * revised |  | * C3-205514 |
| * C3-205163 | * URSP for VN Group | * Huawei | * merged |  |  |
| * C3-205164 | * URSP for VN Group | * Huawei | * merged |  |  |
| * C3-205165 | * Correction to ddd status when the SMF buffers the data | * Huawei | * agreed |  |  |
| * C3-205166 | * Correction to ddd status when the SMF buffers the data | * Huawei | * agreed |  |  |
| * C3-205167 | * PCC control for DDD status and availability after DDN failure events | * Huawei | * postponed |  |  |
| * C3-205168 | * PCC control for DDD status and availability after DDN failure events | * Huawei | * postponed |  |  |
| * C3-205169 | * Storage of YAML files in 3GPP Forge | * Huawei | * agreed |  |  |
| * C3-205170 | * Storage of YAML files in 3GPP Forge | * Huawei | * agreed |  |  |
| * C3-205171 | * Storage of YAML files in 3GPP Forge | * Huawei | * agreed |  |  |
| * C3-205172 | * Correction to Alternative QoS Parameter | * Huawei | * revised |  | * C3-205453 |
| * C3-205173 | * Correction to Alternative QoS Parameter | * Huawei | * agreed |  |  |
| * C3-205174 | * Correction to Alternative QoS Parameter | * Huawei | * revised |  | * C3-205457 |
| * C3-205175 | * Correction to Alternative QoS Parameter | * Huawei | * revised |  | * C3-205458 |
| * C3-205176 | * Correction to Alternative QoS Parameter | * Huawei | * revised |  | * C3-205467 |
| * C3-205177 | * Correction to access network information report | * Huawei | * merged |  |  |
| * C3-205178 | * Correction to access network information report | * Huawei | * merged |  |  |
| * C3-205179 | * Location change (serving cell) for Policy Control Request Trigger | * Huawei | * merged |  |  |
| * C3-205180 | * Location change (serving cell) for Policy Control Request Trigger | * Huawei | * merged |  |  |
| * C3-205181 | * PULL mode enhancement | * Huawei | * revised |  | * C3-205515 |
| * C3-205182 | * Remove the PFDs within the PushNotification | * Huawei | * revised |  | * C3-205543 |
| * C3-205183 | * Procedure of PUSH notification | * Huawei | * revised |  | * C3-205544 |
| * C3-205184 | * Adding PAP/CHAP in RADIUS message flow(successful case) | * China Telecom Corporation Ltd., Huawei | * revised |  | * C3-205575 |
| * C3-205185 | * Storage of YAML files in 3GPP Forge | * Huawei | * agreed |  |  |
| * C3-205186 | * Storage of YAML files in 3GPP Forge | * Huawei | * agreed |  |  |
| * C3-205187 | * Storage of YAML files in 3GPP Forge | * Huawei | * agreed |  |  |
| * C3-205188 | * Storage of YAML files in 3GPP Forge | * Huawei | * agreed |  |  |
| * C3-205189 | * Storage of YAML files in 3GPP Forge | * Huawei | * agreed |  |  |
| * C3-205190 | * Storage of YAML files in 3GPP Forge | * Huawei | * agreed |  |  |
| * C3-205191 | * Adding PAP/CHAP in Diameter message flow(successful case) | * China Telecom Corporation Ltd., Huawei | * revised |  | * C3-205577 |
| * C3-205192 | * Corrections related to Notification via Websocket | * ZTE | * merged |  |  |
| * C3-205193 | * Corrections related to Notification via Websocket | * ZTE | * merged |  |  |
| * C3-205194 | * Correction to Policy Update Notification | * ZTE | * revised |  | * C3-205454 |
| * C3-205195 | * Correction to Policy Update Notification | * ZTE | * revised |  | * C3-205455 |
| * C3-205196 | * Correction to Policy Update Notification | * ZTE | * revised |  | * C3-205456 |
| * C3-205197 | * Corrections on resourceURI | * ZTE | * revised |  | * C3-205459 |
| * C3-205198 | * Corrections on resourceURI | * ZTE | * revised |  | * C3-205460 |
| * C3-205199 | * Corrections on resourceURI | * ZTE | * revised |  | * C3-205461 |
| * C3-205200 | * Corrections to referred attributes | * ZTE | * revised |  | * C3-205462 |
| * C3-205201 | * Corrections to referred attributes | * ZTE | * revised |  | * C3-205463 |
| * C3-205202 | * Correction to traffic influence procedures | * ZTE | * revised |  | * C3-205464 |
| * C3-205203 | * Correction to traffic influence procedures | * ZTE | * revised |  | * C3-205465 |
| * C3-205204 | * Correction to traffic influence procedures | * ZTE | * revised |  | * C3-205466 |
| * C3-205205 | * Corrections to MonitoringEventReport | * ZTE | * revised |  | * C3-205468 |
| * C3-205206 | * notifId provided by the UDM for CIoT events | * ZTE | * revised |  | * C3-205546 |
| * C3-205207 | * notifId provided by the UDM for CIoT events | * ZTE | * revised |  | * C3-205547 |
| * C3-205208 | * Corrections on QoS monitoring | * ZTE | * agreed |  |  |
| * C3-205209 | * array QosMonitoringReport | * ZTE | * agreed |  |  |
| * C3-205210 | * QoS monitoring report at PDU session termination | * ZTE | * revised |  | * C3-205469 |
| * C3-205211 | * QoS monitoring report at PDU session termination | * ZTE | * revised |  | * C3-205470 |
| * C3-205212 | * QoS monitoring report at PDU session termination | * ZTE | * revised |  | * C3-205471 |
| * C3-205213 | * Report current value in Update for location and accessType related triggers | * ZTE | * revised |  | * C3-205472 |
| * C3-205214 | * Report current value in Update for location related triggers | * ZTE | * revised |  | * C3-205473 |
| * C3-205215 | * Adding 200OK response for UpdateNotify | * ZTE | * revised |  | * C3-205474 |
| * C3-205216 | * Adding 200OK response for UpdateNotify | * ZTE | * revised |  | * C3-205475 |
| * C3-205217 | * Support of 307&404 response codes for Policy update notification | * ZTE | * revised |  | * C3-205589 |
| * C3-205218 | * Removal of trailing forward slash in resource URI | * ZTE | * revised |  | * C3-205476 |
| * C3-205219 | * Correct TS title in externalDocs field | * ZTE | * merged |  |  |
| * C3-205220 | * Storage of YAML files in 3GPP Forge | * ZTE | * revised |  | * C3-205477 |
| * C3-205221 | * Storage of YAML files in 3GPP Forge | * ZTE | * revised |  | * C3-205478 |
| * C3-205222 | * Adding the description of Ix reference point | * NTT corporation | * revised |  | * C3-205397 |
| * C3-205223 | * Data retrieval of multiple policy data sets | * Nokia, Nokia Shanghai Bell | * revised |  | * C3-205365 |
| * C3-205224 | * Correction to notifUri attribute | * Ericsson | * revised |  | * C3-205502 |
| * C3-205225 | * Correction to notifUri attribute | * Ericsson | * revised |  | * C3-205503 |
| * C3-205226 | * Correction to notificationURI attribute | * Ericsson | * revised |  | * C3-205440 |
| * C3-205227 | * Correction to notificationURI attribute | * Ericsson | * revised |  | * C3-205441 |
| * C3-205228 | * Correction to notificationURI attribute | * Ericsson | * revised |  | * C3-205442 |
| * C3-205229 | * Correction to subscription's expiry time | * Ericsson | * agreed |  |  |
| * C3-205230 | * MA Support indication within UE Context policy control subscription information | * Ericsson | * agreed |  |  |
| * C3-205231 | * MA Support indication within UE Context policy control subscription information | * Ericsson | * agreed |  |  |
| * C3-205232 | * Storage of YAML files in ETSI Forge | * Ericsson | * revised |  | * C3-205415 |
| * C3-205233 | * Storage of YAML files in ETSI Forge | * Ericsson | * revised |  | * C3-205416 |
| * C3-205234 | * Storage of YAML files in ETSI Forge | * Ericsson | * revised |  | * C3-205417 |
| * C3-205235 | * Storage of YAML files in ETSI Forge | * Ericsson | * revised |  | * C3-205418 |
| * C3-205236 | * Storage of YAML files in ETSI Forge | * Ericsson | * revised |  | * C3-205419 |
| * C3-205237 | * Storage of YAML files in ETSI Forge | * Ericsson | * revised |  | * C3-205420 |
| * C3-205238 | * Incorrect definition of QosMonitoringInformation | * Ericsson | * revised |  | * C3-205421 |
| * C3-205239 | * QoS Monitoring corrections | * Ericsson | * revised |  | * C3-205422 |
| * C3-205240 | * QoS Monitoring corrections | * Ericsson | * revised |  | * C3-205423 |
| * C3-205241 | * NotificationPush data type definition | * Ericsson | * agreed |  |  |
| * C3-205242 | * Non-unique operation identifiers | * Ericsson | * revised |  | * C3-205368 |
| * C3-205243 | * PolicyAssociationReleaseCause enumeration name | * Ericsson | * agreed |  |  |
| * C3-205244 | * "400 Bad Request" response on notification | * Ericsson | * agreed |  |  |
| * C3-205245 | * "400 Bad Request" response on notification | * Ericsson | * agreed |  |  |
| * C3-205246 | * Callback URI correction | * Huawei | * revised |  | * C3-205545 |
| * C3-205247 | * Callback URI correction | * Huawei | * revised |  | * C3-205549 |
| * C3-205248 | * Callback URI correction | * Huawei | * revised |  | * C3-205550 |
| * C3-205249 | * Callback URI correction | * Huawei | * revised |  | * C3-205551 |
| * C3-205250 | * Callback URI correction | * Huawei | * revised |  | * C3-205552 |
| * C3-205251 | * Callback URI correction | * Huawei | * revised |  | * C3-205553 |
| * C3-205252 | * Procedures of Nnef\_AKMA service | * Huawei, China Mobile | * revised |  | * C3-205366 |
| * C3-205253 | * API definition of Nnef\_AKMA service | * Huawei, China Mobile | * revised |  | * C3-205367 |
| * C3-205254 | * Mapping of expected analytics types and exception Ids | * Huawei | * agreed |  |  |
| * C3-205255 | * Mapping of expected analytics types and exception Ids | * Huawei | * agreed |  |  |
| * C3-205256 | * Faliure authorization result of BDT reference Id for ChargeableParty API request | * Huawei, Havelsan | * not pursued |  |  |
| * C3-205257 | * Faliure authorization result of BDT reference Id for ChargeableParty API request | * Huawei, Havelsan | * not pursued |  |  |
| * C3-205258 | * Successful response code for Event Notification | * Huawei | * agreed |  |  |
| * C3-205259 | * Successful response code for Event Notification | * Huawei | * agreed |  |  |
| * C3-205260 | * Failure response for SCEF northbound APIs | * Huawei | * revised |  | * C3-205556 |
| * C3-205261 | * Failure response for SCEF northbound APIs | * Huawei | * revised |  | * C3-205557 |
| * C3-205262 | * Correction on Location Service via NEF | * Huawei, KDDI | * agreed |  |  |
| * C3-205263 | * Payload during event notification via Websocket | * Huawei | * revised |  | * C3-205516 |
| * C3-205264 | * Combination of DNN and S-NSSAI | * Huawei | * not pursued |  |  |
| * C3-205265 | * Combination of DNN and S-NSSAI | * Huawei | * revised |  | * C3-205554 |
| * C3-205266 | * Immediate reporting | * Huawei | * revised |  | * C3-205377 |
| * C3-205267 | * Difference between 4G and 5G for ECRControl API | * Huawei | * agreed |  |  |
| * C3-205268 | * PDU session status | * Huawei | * agreed |  |  |
| * C3-205269 | * PDU session establishment | * Huawei | * agreed |  |  |
| * C3-205270 | * Faliure response correction | * Huawei | * agreed |  |  |
| * C3-205271 | * Protocol or application errors | * Huawei | * revised |  | * C3-205479 |
| * C3-205272 | * Analytics report correction | * Huawei | * revised |  | * C3-205540 |
| * C3-205273 | * Analytics report correction | * Huawei | * revised |  | * C3-205541 |
| * C3-205274 | * Error response for statistics request | * Huawei | * revised |  | * C3-205610 |
| * C3-205275 | * Error response for statistics request | * Huawei | * revised |  | * C3-205611 |
| * C3-205276 | * discussion on subscription resource creation operation processing | * Huawei | * noted |  |  |
| * C3-205277 | * Correction to subscription create service operation | * Huawei | * revised |  | * C3-205615 |
| * C3-205278 | * discussion on Nchf\_SpendingLimitControl service optimization for 5G VN group communication | * Huawei | * noted |  |  |
| * C3-205279 | * Nchf\_SpendingLimitControl service optimization for 5G VN group communication | * Huawei | * postponed |  |  |
| * C3-205280 | * S-NSSAI applicability | * Huawei | * agreed |  |  |
| * C3-205281 | * S-NSSAI applicability | * Huawei | * agreed |  |  |
| * C3-205282 | * Feature for nsiLevelThrds attribute | * Huawei | * revised |  | * C3-205395 |
| * C3-205283 | * Feature for nsiLevelThrds attribute | * Huawei | * revised |  | * C3-205396 |
| * C3-205284 | * Correct TWAN-Identifer applicability and 3GPP SGSN address | * Ericsson | * agreed |  |  |
| * C3-205285 | * Correct SGSN address | * Ericsson | * revised |  | * C3-205486 |
| * C3-205286 | * Solve IP address overlapping for AF traffic influence | * Ericsson | * revised |  | * C3-205480 |
| * C3-205287 | * Solve IP address overlapping for AF traffic influence | * Ericsson | * revised |  | * C3-205481 |
| * C3-205288 | * Correct PEI for 5G-RG | * Ericsson | * postponed |  |  |
| * C3-205289 | * Correct applicability for User Location extension | * Ericsson | * revised |  | * C3-205487 |
| * C3-205290 | * Correct inconsistency in SecurityNotification | * Ericsson | * revised |  | * C3-205491 |
| * C3-205291 | * Correct inconsistency in SecurityNotification | * Ericsson | * revised |  | * C3-205492 |
| * C3-205292 | * Solve IP address overlapping for Chargeable Party | * Ericsson | * revised |  | * C3-205482 |
| * C3-205293 | * Solve IP address overlapping for Chargeable Party | * Ericsson | * revised |  | * C3-205483 |
| * C3-205294 | * Correct UCMF id | * Ericsson | * revised |  | * C3-205484 |
| * C3-205295 | * Correct UCMF id | * Ericsson | * revised |  | * C3-205485 |
| * C3-205296 | * Correct network identifier for SNPN | * Ericsson | * agreed |  |  |
| * C3-205297 | * SEAL stage 3 specification duplication | * Ericsson | * noted |  |  |
| * C3-205298 | * LS on SEAL stage 3 requirements overlap | * Ericsson | * not pursued |  |  |
| * C3-205299 | * Correction to support redirection codes and callback URI and subsc correl updates | * Ericsson | * revised |  | * C3-205430 |
| * C3-205300 | * Correction to support Stateless NFs | * Ericsson | * revised |  | * C3-205431 |
| * C3-205301 | * Correction to support Stateless NFs | * Ericsson | * revised |  | * C3-205432 |
| * C3-205302 | * Correction to support redirection codes and the update of the Callback URI | * Ericsson | * revised |  | * C3-205433 |
| * C3-205303 | * Corrections to IPv4 and IPv6 | * Ericsson | * agreed |  |  |
| * C3-205304 | * Corrections to IPv6 | * Ericsson | * agreed |  |  |
| * C3-205305 | * Corrections to Delegated-IPv6-Prefix | * Ericsson | * agreed |  |  |
| * C3-205306 | * Corrections to Delegated-IPv6-Prefix | * Ericsson | * revised |  | * C3-205389 |
| * C3-205307 | * Updates to IPv6 Prefix Delegation | * Ericsson | * agreed |  |  |
| * C3-205308 | * Corrections on SMF directly connecting DN-AAA server | * Ericsson | * revised |  | * C3-205390 |
| * C3-205309 | * Correction on PAPCHAP supporting Rel-15 N1 mode UE | * Ericsson | * revised |  | * C3-205566 |
| * C3-205310 | * Correction on PAPCHAP supporting Rel-15 N1 mode UE | * Ericsson | * revised |  | * C3-205567 |
| * C3-205311 | * Correction on PAPCHAP supporting Rel-15 N1 mode UE | * Ericsson | * merged |  |  |
| * C3-205312 | * Correction to NIDD configuration cancellation procedure | * Ericsson | * revised |  | * C3-205568 |
| * C3-205313 | * Correction to NIDD configuration cancellation procedure | * Ericsson | * revised |  | * C3-205569 |
| * C3-205314 | * Correction to device triggering recall procedure | * Ericsson | * revised |  | * C3-205576 |
| * C3-205315 | * Correction to device triggering recall procedure | * Ericsson | * revised |  | * C3-205578 |
| * C3-205316 | * Corrections to support 405 error status code | * Ericsson | * postponed |  |  |
| * C3-205317 | * Corrections to support 405 error status code | * Ericsson | * postponed |  |  |
| * C3-205318 | * Corrections to misusage of 500 status code | * Ericsson | * merged |  |  |
| * C3-205319 | * Corrections to misusage of 500 status code | * Ericsson | * merged |  |  |
| * C3-205320 | * Corrections to Subscription Request in AnalyticsExposure API | * Ericsson | * revised |  | * C3-205379 |
| * C3-205321 | * Corrections to snssai dnn and appId exposed in AnalyticsExposure API | * Ericsson | * revised |  | * C3-205380 |
| * C3-205322 | * Corrections to any UE of Service Experience Analytics | * Ericsson | * revised |  | * C3-205381 |
| * C3-205323 | * Corrections to any UE of Service Experience Analytics | * Ericsson | * revised |  | * C3-205382 |
| * C3-205324 | * Updates CEF as NWDAF consumer of Nnwdaf\_EventsSubscription service | * Ericsson | * revised |  | * C3-205383, C3-205384 |
| * C3-205325 | * Updates CEF as NWDAF consumer of Nnwdaf\_EventsSubscription service | * Ericsson | * revised |  | * C3-205385 |
| * C3-205326 | * Corrections to location area usage | * Ericsson | * revised |  | * C3-205386 |
| * C3-205327 | * Corrections to location area usage | * Ericsson | * revised |  | * C3-205387 |
| * C3-205328 | * Corrections to location area usage | * Ericsson | * revised |  | * C3-205388 |
| * C3-205329 | * Updates with error response indicating unavailable statistics | * Ericsson | * merged |  |  |
| * C3-205330 | * Corrections to Validity Period | * Ericsson | * revised |  | * C3-205612 |
| * C3-205331 | * Correctionsn to Threshold | * Ericsson | * revised |  | * C3-205601 |
| * C3-205332 | * Correctionsn to Threshold | * Ericsson | * revised |  | * C3-205603 |
| * C3-205333 | * Correction to SvcExperience | * Ericsson, China Mobile | * postponed |  |  |
| * C3-205334 | * New WID on CT aspects for enabling Edge Applications | * Samsung Electronics Iberia SA | * revised |  | * C3-205570 |
| * C3-205335 | * Reply to LS on APIs in EDGEAPP | * Samsung Electronics Iberia SA | * revised |  | * C3-205439 |
| * C3-205336 | * Storage of YAML files in 3GPP Forge | * Samsung Electronics Iberia SA | * revised |  | * C3-205437 |
| * C3-205337 | * Storage of YAML files in 3GPP Forge | * Samsung Electronics Iberia SA | * revised |  | * C3-205438 |
| * C3-205338 | * SEAL Group configuration corrections | * Samsung Electronics Iberia SA | * revised |  | * C3-205506 |
| * C3-205339 | * Clarification on using PAP/CHAP for 5GS interoperability | * Qualcomm Incorporated, Vodafone | * not pursued | * C3-204044 |  |
| * C3-205340 | * Clarification on using PAP/CHAP for 5GS interoperability | * Qualcomm Incorporated, Vodafone | * not pursued | * C3-204045 |  |
| * C3-205341 | * Discussion paper on FS\_ID\_UAS | * Qualcomm Incorporated | * noted |  |  |
| * C3-205342 | * Revised WID on Authentication and key management for applications based on 3GPP credential in 5G | * Qualcomm Incorporated | * revised |  | * C3-205490 |
| * C3-205343 | * Discussion paper on revised AKMA WID | * Qualcomm Incorporated | * noted |  |  |
| * C3-205344 | * Draft Reply LS on APIs in EDGEAPP | * Qualcomm Incorporated | * noted |  |  |
| * C3-205345 | * Discussion on 5GS and EPS interworking support with DN-AAA server | * Ericsson | * noted |  |  |
| * C3-205346 | * Updates to support User Location Change | * Ericsson, China Mobile | * revised |  | * C3-205402 |
| * C3-205347 | * Correction to Alternative QoS parameter mapping | * Ericsson | * agreed |  |  |
| * C3-205348 | * Correction to Alternative QoS parameter mapping | * Ericsson | * agreed |  |  |
| * C3-205349 | * Correction to Alternative QoS as binding parameter | * Ericsson | * revised |  | * C3-205434 |
| * C3-205350 | * Correction to Alternative QoS as binding parameter | * Ericsson | * revised |  | * C3-205435 |
| * C3-205351 | * Modification of UE Policy related clauses to support URSP rules for 5G VN Group | * Ericsson | * revised |  | * C3-205411 |
| * C3-205352 | * Modification of UE Policy related clauses to support URSP rules for 5G VN Group | * Ericsson | * revised |  | * C3-205412 |
| * C3-205353 | * Correction to URSP rules, support of 5G VN services | * Ericsson | * revised |  | * C3-205413 |
| * C3-205354 | * Correction to URSP rules, support of 5G VN services | * Ericsson | * revised |  | * C3-205414 |
| * C3-205355 | * Location change (serving cell) for Policy Control Request Trigger | * China Mobile Communications Group Co.,Ltd., Ericsson | * revised |  | * C3-205582 |
| * C3-205356 | * Location change (serving cell) for Policy Control Request Trigger | * China Mobile Communications Group Co.,Ltd., Ericsson | * revised |  | * C3-205583 |
| * C3-205357 | * Discussion on Immediate report of PRA | * China Mobile Communications Group Co.,Ltd. | * noted |  |  |
| * C3-205358 | * Revised WID on AKMA-CT | * China Mobile Communications Group Co.,Ltd. | * withdrawn | * CP-202254 |  |
| * C3-205359 | * TS 29.535 Skeleton | * China Mobile Communications Group Co.,Ltd. | * revised |  | * C3-205363, C3-205584 |
| * C3-205360 | * Introduction for AKMA Anchor Service | * China Mobile Communications Group Co.,Ltd. | * revised |  | * C3-205585 |
| * C3-205361 | * Naanf\_AKMA Service Description | * China Mobile Communications Group Co.,Ltd. | * revised |  | * C3-205586 |
| * C3-205362 | * New WID on enhancement of inter PLMN Roaming | * Huawei | * not pursued |  |  |
| * C3-205363 | * TS 29.535 Skeleton | * China Mobile Communications Group Co.,Ltd. | * withdrawn | * C3-205359 |  |
| * C3-205364 | * Allocation of documents to agenda items (after email approval) | * CT3 chairman | * noted |  |  |
| * C3-205365 | * Data retrieval of multiple policy data sets | * Nokia, Nokia Shanghai Bell | * revised | * C3-205223 | * C3-205499 |
| * C3-205366 | * Procedures of Nnef\_AKMA service | * Huawei, China Mobile | * agreed | * C3-205252 |  |
| * C3-205367 | * API definition of Nnef\_AKMA service | * Huawei, China Mobile | * agreed | * C3-205253 |  |
| * C3-205368 | * Non-unique operation identifiers | * Ericsson | * agreed | * C3-205242 |  |
| * C3-205369 | * Corrections to Notification Push procedure | * Huawei, Ericsson | * agreed | * C3-205070 |  |
| * C3-205370 | * Storage of YAML files in 3GPP Forge | * Nokia, Nokia Shanghai Bell | * agreed | * C3-205075 |  |
| * C3-205371 | * Storage of YAML files in 3GPP Forge | * Nokia, Nokia Shanghai Bell | * agreed | * C3-205076 |  |
| * C3-205372 | * Storage of YAML files in 3GPP Forge | * Nokia, Nokia Shanghai Bell | * agreed | * C3-205077 |  |
| * C3-205373 | * Storage of YAML files in 3GPP Forge | * Nokia, Nokia Shanghai Bell | * agreed | * C3-205078 |  |
| * C3-205374 | * Storage of YAML files in 3GPP Forge | * Nokia, Nokia Shanghai Bell | * agreed | * C3-205079 |  |
| * C3-205375 | * Storage of YAML files in 3GPP Forge | * Nokia, Nokia Shanghai Bell | * agreed | * C3-205080 |  |
| * C3-205376 | * Storage of YAML files in 3GPP Forge | * Nokia, Nokia Shanghai Bell | * agreed | * C3-205081 |  |
| * C3-205377 | * Immediate reporting | * Huawei | * agreed | * C3-205266 |  |
| * C3-205378 | * SBI Message Priority mechanism for emergency session | * Nokia, Nokia Shanghai Bell | * agreed | * C3-205082 |  |
| * C3-205379 | * Corrections to Subscription Request in AnalyticsExposure API | * Ericsson | * agreed | * C3-205320 |  |
| * C3-205380 | * Correction to appId exposed in AnalyticsExposure API | * Ericsson | * agreed | * C3-205321 |  |
| * C3-205381 | * Correction to suips of Service Experience Analytics | * Ericsson | * agreed | * C3-205322 |  |
| * C3-205382 | * Correction to supis of Service Experience Analytics | * Ericsson | * agreed | * C3-205323 |  |
| * C3-205383 | * Updates CEF as NWDAF consumer of Nnwdaf\_EventsSubscription service | * Ericsson, Huawei | * agreed | * C3-205324 |  |
| * C3-205384 | * Updates CEF as NWDAF consumer of Nnwdaf\_EventsSubscription service | * Ericsson | * withdrawn | * C3-205324 |  |
| * C3-205385 | * Updates CEF as NWDAF consumer of Nnwdaf\_EventsSubscription service | * Ericsson, Huawei | * agreed | * C3-205325 |  |
| * C3-205386 | * Corrections to location area usage | * Ericsson | * agreed | * C3-205326 |  |
| * C3-205387 | * Corrections to location area usage | * Ericsson | * agreed | * C3-205327 |  |
| * C3-205388 | * Corrections to location area usage | * Ericsson | * agreed | * C3-205328 |  |
| * C3-205389 | * Corrections to Delegated-IPv6-Prefix | * Ericsson | * agreed | * C3-205306 |  |
| * C3-205390 | * Corrections on SMF directly connecting DN-AAA server | * Ericsson | * agreed | * C3-205308 |  |
| * C3-205391 | * Alignment of API Versioning System with Semantic Versioning | * CT4 | * noted |  |  |
| * C3-205392 | * LS on N28 optimization possible imapct | * Huawei | * postponed |  |  |
| * C3-205393 | * Correction to the BDT policy re-negotiation | * Huawei | * agreed | * C3-205157 |  |
| * C3-205394 | * Correction to the BDT policy re-negotiation | * Huawei | * agreed | * C3-205158 |  |
| * C3-205395 | * Feature for nsiLevelThrds attribute | * Huawei, Ericsson | * agreed | * C3-205282 |  |
| * C3-205396 | * Feature for nsiLevelThrds attribute | * Huawei, Ericsson | * agreed | * C3-205283 |  |
| * C3-205397 | * Adding the description of Ix reference point | * NTT corporation | * revised | * C3-205222 | * C3-205555 |
| * C3-205398 | * Correction to FailureCode and SessionFailureCode | * Ericsson | * agreed | * C3-205123 |  |
| * C3-205399 | * Extension of Policy Decision Failure handling | * Ericsson | * agreed | * C3-205124 |  |
| * C3-205400 | * Correction to SessionRuleFailureCode | * Ericsson | * agreed | * C3-205126 |  |
| * C3-205401 | * Correction to SM policy association modification procedure | * Ericsson | * agreed | * C3-205131 |  |
| * C3-205402 | * Updates to support User Location Change | * Ericsson, China Mobile | * agreed | * C3-205346 |  |
| * C3-205403 | * Correction to access type conditioned session AMBR | * Ericsson | * revised | * C3-205102 | * C3-205600 |
| * C3-205404 | * Correction to access type conditioned session AMBR | * Ericsson | * revised | * C3-205103 | * C3-205602 |
| * C3-205405 | * Correction to PolicyDecisionErrorHandling feature | * Ericsson | * agreed | * C3-205104 |  |
| * C3-205406 | * Correction to PolicyDecisionErrorHandling feature | * Ericsson | * agreed | * C3-205105 |  |
| * C3-205407 | * Correction to SamePcf Feature | * Ericsson | * agreed | * C3-205106 |  |
| * C3-205408 | * Correction to SamePcf Feature | * Ericsson | * agreed | * C3-205107 |  |
| * C3-205409 | * Correction to support NEF binding indication | * Ericsson | * agreed | * C3-205073 |  |
| * C3-205410 | * Correction to support NEF binding indication | * Ericsson | * agreed | * C3-205074 |  |
| * C3-205411 | * Modification of UE Policy related clauses to support URSP rules for 5G VN Group | * Ericsson | * agreed | * C3-205351 |  |
| * C3-205412 | * Modification of UE Policy related clauses to support URSP rules for 5G VN Group | * Ericsson | * agreed | * C3-205352 |  |
| * C3-205413 | * Correction to URSP rules, support of 5G VN services | * Ericsson, Huawei | * agreed | * C3-205353 |  |
| * C3-205414 | * Correction to URSP rules, support of 5G VN services | * Ericsson, Huawei | * agreed | * C3-205354 |  |
| * C3-205415 | * Storage of YAML files in ETSI Forge | * Ericsson | * agreed | * C3-205232 |  |
| * C3-205416 | * Storage of YAML files in ETSI Forge | * Ericsson | * agreed | * C3-205233 |  |
| * C3-205417 | * Storage of YAML files in ETSI Forge | * Ericsson | * agreed | * C3-205234 |  |
| * C3-205418 | * Storage of YAML files in ETSI Forge | * Ericsson | * agreed | * C3-205235 |  |
| * C3-205419 | * Storage of YAML files in ETSI Forge | * Ericsson | * agreed | * C3-205236 |  |
| * C3-205420 | * Storage of YAML files in ETSI Forge | * Ericsson | * agreed | * C3-205237 |  |
| * C3-205421 | * Incorrect definition of QosMonitoringInformation | * Ericsson | * agreed | * C3-205238 |  |
| * C3-205422 | * QoS Monitoring corrections | * Ericsson | * agreed | * C3-205239 |  |
| * C3-205423 | * QoS Monitoring corrections | * Ericsson | * agreed | * C3-205240 |  |
| * C3-205424 | * Correction to PRA | * Ericsson | * revised | * C3-205096 | * C3-205598 |
| * C3-205425 | * Correction to PRA | * Ericsson | * agreed | * C3-205097 |  |
| * C3-205426 | * Correction to PRA | * Ericsson | * agreed | * C3-205098 |  |
| * C3-205427 | * Correction to PRA | * Ericsson | * agreed | * C3-205099 |  |
| * C3-205428 | * Correction to PRA | * Ericsson | * agreed | * C3-205100 |  |
| * C3-205429 | * Correction to PRA | * Ericsson | * agreed | * C3-205101 |  |
| * C3-205430 | * Correction to support redirection codes and callback URI and subsc correl updates | * Ericsson | * agreed | * C3-205299 |  |
| * C3-205431 | * Correction to support Stateless NFs | * Ericsson | * agreed | * C3-205300 |  |
| * C3-205432 | * Correction to support Stateless NFs | * Ericsson | * agreed | * C3-205301 |  |
| * C3-205433 | * Correction to support redirection codes and the update of the Callback URI | * Ericsson | * agreed | * C3-205302 |  |
| * C3-205434 | * Correction to Alternative QoS as binding parameter | * Ericsson | * agreed | * C3-205349 |  |
| * C3-205435 | * Correction to Alternative QoS as binding parameter | * Ericsson | * agreed | * C3-205350 |  |
| * C3-205436 | * Correction to SM Policy Association termination due to session rule error | * Ericsson | * agreed | * C3-205125 |  |
| * C3-205437 | * Storage of YAML files in 3GPP Forge | * Samsung Electronics Iberia SA | * agreed | * C3-205336 |  |
| * C3-205438 | * Storage of YAML files in 3GPP Forge | * Samsung Electronics Iberia SA | * agreed | * C3-205337 |  |
| * C3-205439 | * Reply to LS on APIs in EDGEAPP | * Samsung Electronics Iberia SA | * approved | * C3-205335 |  |
| * C3-205440 | * Correction to notificationURI attribute | * Ericsson | * agreed | * C3-205226 |  |
| * C3-205441 | * Correction to notificationURI attribute | * Ericsson | * agreed | * C3-205227 |  |
| * C3-205442 | * Correction to notificationURI attribute | * Ericsson | * agreed | * C3-205228 |  |
| * C3-205443 | * Essential Corrections to eLCS related monitoring events | * Huawei | * agreed | * C3-205093 |  |
| * C3-205444 | * Essential corrections and alignments | * Huawei | * agreed | * C3-205094 |  |
| * C3-205445 | * Correction to usage report during the policy association termination | * Huawei | * agreed | * C3-205136 |  |
| * C3-205446 | * Correction to usage report during the policy association termination | * Huawei | * agreed | * C3-205137 |  |
| * C3-205447 | * Correction to usage report during the policy association termination | * Huawei | * agreed | * C3-205138 |  |
| * C3-205448 | * LS on the input parameters of the LCS subscription request from an AF via the NEF | * Huawei | * approved |  |  |
| * C3-205449 | * Correction to the BDT policy re-negotiation | * Huawei | * agreed | * C3-205153 |  |
| * C3-205450 | * Correction to the BDT policy re-negotiation | * Huawei | * agreed | * C3-205154 |  |
| * C3-205451 | * Correction to the BDT policy re-negotiation | * Huawei, Ericsson | * agreed | * C3-205155 |  |
| * C3-205452 | * Correction to the BDT policy re-negotiation | * Huawei, Ericsson | * agreed | * C3-205156 |  |
| * C3-205453 | * Correction to Alternative QoS Parameter | * Huawei | * agreed | * C3-205172 |  |
| * C3-205454 | * Correction to Policy Update Notification | * ZTE | * agreed | * C3-205194 |  |
| * C3-205455 | * Correction to Policy Update Notification | * ZTE | * agreed | * C3-205195 |  |
| * C3-205456 | * Correction to Policy Update Notification | * ZTE | * agreed | * C3-205196 |  |
| * C3-205457 | * Correction to Alternative QoS Parameter | * Huawei | * revised | * C3-205174 | * C3-205607 |
| * C3-205458 | * Correction to Alternative QoS Parameter | * Huawei | * revised | * C3-205175 | * C3-205608 |
| * C3-205459 | * Corrections on resourceURI | * ZTE | * agreed | * C3-205197 |  |
| * C3-205460 | * Corrections on resourceURI | * ZTE | * agreed | * C3-205198 |  |
| * C3-205461 | * Corrections on resourceURI | * ZTE | * agreed | * C3-205199 |  |
| * C3-205462 | * Corrections to referred attributes | * ZTE | * agreed | * C3-205200 |  |
| * C3-205463 | * Corrections to referred attributes | * ZTE | * agreed | * C3-205201 |  |
| * C3-205464 | * Correction to traffic influence procedures | * ZTE | * agreed | * C3-205202 |  |
| * C3-205465 | * Correction to traffic influence procedures | * ZTE | * agreed | * C3-205203 |  |
| * C3-205466 | * Correction to traffic influence procedures | * ZTE | * agreed | * C3-205204 |  |
| * C3-205467 | * Correction to Alternative QoS Parameter | * Huawei | * agreed | * C3-205176 |  |
| * C3-205468 | * Corrections to MonitoringEventReport | * ZTE, Huawei | * agreed | * C3-205205 |  |
| * C3-205469 | * QoS monitoring report at PDU session termination | * ZTE | * agreed | * C3-205210 |  |
| * C3-205470 | * QoS monitoring report at PDU session termination | * ZTE | * agreed | * C3-205211 |  |
| * C3-205471 | * QoS monitoring report at PDU session termination | * ZTE | * agreed | * C3-205212 |  |
| * C3-205472 | * Report current value in Update for location and accessType related triggers | * ZTE | * agreed | * C3-205213 |  |
| * C3-205473 | * Report current value in Update for location related triggers | * ZTE | * agreed | * C3-205214 |  |
| * C3-205474 | * Adding 200OK response for UpdateNotify | * ZTE | * agreed | * C3-205215 |  |
| * C3-205475 | * Adding 200OK response for UpdateNotify | * ZTE | * agreed | * C3-205216 |  |
| * C3-205476 | * Removal of trailing forward slash in resource URI | * ZTE | * agreed | * C3-205218 |  |
| * C3-205477 | * Storage of YAML files in 3GPP Forge | * ZTE | * agreed | * C3-205220 |  |
| * C3-205478 | * Storage of YAML files in 3GPP Forge | * ZTE | * agreed | * C3-205221 |  |
| * C3-205479 | * Protocol or application errors | * Huawei | * agreed | * C3-205271 |  |
| * C3-205480 | * Solve IP address overlapping for AF traffic influence | * Ericsson, Huawei, China Mobile | * agreed | * C3-205286 |  |
| * C3-205481 | * Solve IP address overlapping for AF traffic influence | * Ericsson, Huawei, China Mobile | * agreed | * C3-205287 |  |
| * C3-205482 | * Solve IP address overlapping for Chargeable Party | * Ericsson, Huawei | * agreed | * C3-205292 |  |
| * C3-205483 | * Solve IP address overlapping for Chargeable Party | * Ericsson, Huawei | * agreed | * C3-205293 |  |
| * C3-205484 | * Correct UCMF id | * Ericsson | * agreed | * C3-205294 |  |
| * C3-205485 | * Correct UCMF id | * Ericsson | * agreed | * C3-205295 |  |
| * C3-205486 | * Correct SGSN address | * Ericsson | * agreed | * C3-205285 |  |
| * C3-205487 | * Correct applicability for User Location extension | * Ericsson | * agreed | * C3-205289 |  |
| * C3-205488 | * Update of OpenAPI version and TS version in externalDocs field | * Huawei | * agreed |  |  |
| * C3-205489 | * Update of OpenAPI version and TS version in externalDocs field | * Huawei | * agreed |  |  |
| * C3-205490 | * Revised WID on Authentication and key management for applications based on 3GPP credential in 5G | * Qualcomm Incorporated, China Mobile Communications Group Co.,Ltd. | * agreed | * C3-205342 |  |
| * C3-205491 | * Correct inconsistency in SecurityNotification | * Ericsson | * agreed | * C3-205290 |  |
| * C3-205492 | * Correct inconsistency in SecurityNotification | * Ericsson | * agreed | * C3-205291 |  |
| * C3-205493 | * TS 29.513 Usage of PCF Group ID for PCF selection when delegated discovery is used | * Huawei, Ericsson | * agreed | * C3-205037 |  |
| * C3-205494 | * TS 29.513 Usage of PCF Group ID for PCF selection when delegated discovery is used | * Huawei, Ericsson | * agreed | * C3-205038 |  |
| * C3-205495 | * Reply LS on support of stateless NFs | * CT4 | * noted |  |  |
| * C3-205496 | * Correction to PFD retrieval in PULL mode | * Huawei | * agreed | * C3-205146 |  |
| * C3-205497 | * Correction to PFD retrieval in PULL mode | * Huawei | * agreed | * C3-205147 |  |
| * C3-205498 | * Correction to PFD retrieval in PULL mode | * Huawei | * agreed | * C3-205148 |  |
| * C3-205499 | * Data retrieval of multiple policy data sets | * Nokia, Nokia Shanghai Bell | * agreed | * C3-205365 |  |
| * C3-205500 | * Update of OpenAPI version and TS version in externalDocs field | * Huawei Technologies R&D UK | * agreed |  |  |
| * C3-205501 | * Update of OpenAPI version and TS version in externalDocs field | * Huawei Technologies R&D UK | * agreed |  |  |
| * C3-205502 | * Correction to Intermediate spending limit report retrieval | * Ericsson | * agreed | * C3-205224 |  |
| * C3-205503 | * Correction to Intermediate spending limit report retrieval | * Ericsson | * agreed | * C3-205225 |  |
| * C3-205504 | * Update of OpenAPI version and TS version in externalDocs field | * Samsung Electronics Iberia SA | * agreed |  |  |
| * C3-205505 | * Update of OpenAPI version and TS version in externalDocs field | * Ericsson | * agreed |  |  |
| * C3-205506 | * SEAL Group configuration corrections | * Samsung Electronics Iberia SA | * agreed | * C3-205338 |  |
| * C3-205507 | * Adding Support for Indicating Serialization Format in RDS | * Convida Wireless LLC, Intel | * agreed | * C3-205084 |  |
| * C3-205508 | * Correction to session rule | * Ericsson | * agreed | * C3-205114 |  |
| * C3-205509 | * Correction to session rule | * Ericsson | * agreed | * C3-205115 |  |
| * C3-205510 | * Correction to session rule | * Ericsson | * agreed | * C3-205116 |  |
| * C3-205511 | * Correction to PRA | * Ericsson, China Mobile Com. Corporation | * agreed | * C3-205120 |  |
| * C3-205512 | * Remove the NW-TT port from the TSN bridge info | * Huawei, Intel | * agreed | * C3-205160 |  |
| * C3-205513 | * Remove the NW-TT port from the TSN bridge info | * Huawei, Intel | * agreed | * C3-205161 |  |
| * C3-205514 | * Remove the NW-TT port from the TSN bridge info | * Huawei | * agreed | * C3-205162 |  |
| * C3-205515 | * PULL mode enhancement | * Huawei, Ericsson, China Telecom | * agreed | * C3-205181 |  |
| * C3-205516 | * Payload during event notification via Websocket | * Huawei, ZTE | * agreed | * C3-205263 |  |
| * C3-205517 | * TS 29.122 Essential Corrections and alignments | * Huawei | * agreed | * C3-205039 |  |
| * C3-205518 | * TS 29.222 Essential Corrections and alignments | * Huawei | * agreed | * C3-205040 |  |
| * C3-205519 | * TS 29.486 Essential Corrections and alignments | * Huawei | * agreed | * C3-205041 |  |
| * C3-205520 | * TS 29.507 Essential Corrections and alignments | * Huawei | * agreed | * C3-205042 |  |
| * C3-205521 | * TS 29.507 Essential Corrections and alignments | * Huawei | * agreed | * C3-205043 |  |
| * C3-205522 | * TS 29.508 Essential Corrections and alignments | * Huawei | * agreed | * C3-205044 |  |
| * C3-205523 | * TS 29.508 Essential Corrections and alignments | * Huawei | * agreed | * C3-205045 |  |
| * C3-205524 | * TS 29.514 Essential Corrections and alignments | * Huawei | * agreed | * C3-205048 |  |
| * C3-205525 | * TS 29.517 Essential Corrections and alignments | * Huawei | * agreed | * C3-205049 |  |
| * C3-205526 | * TS 29.520 Essential Corrections and alignments | * Huawei | * agreed | * C3-205052 |  |
| * C3-205527 | * TS 29.520 Essential Corrections and alignments | * Huawei | * agreed | * C3-205053 |  |
| * C3-205528 | * TS 29.521 Essential Corrections and alignments | * Huawei | * agreed | * C3-205054 |  |
| * C3-205529 | * TS 29.522 Essential Corrections and alignments | * Huawei | * agreed | * C3-205055 |  |
| * C3-205530 | * TS 29.523 Essential Corrections and alignments | * Huawei | * agreed | * C3-205056 |  |
| * C3-205531 | * TS 29.523 Essential Corrections and alignments | * Huawei | * agreed | * C3-205057 |  |
| * C3-205532 | * TS 29.525 Essential Corrections and alignments | * Huawei | * agreed | * C3-205058 |  |
| * C3-205533 | * TS 29.525 Essential Corrections and alignments | * Huawei | * agreed | * C3-205059 |  |
| * C3-205534 | * TS 29.549 Essential Corrections and alignments | * Huawei | * agreed | * C3-205060 |  |
| * C3-205535 | * TS 29.551 Essential Corrections and alignments | * Huawei | * agreed | * C3-205061 |  |
| * C3-205536 | * TS 29.551 Essential Corrections and alignments | * Huawei | * agreed | * C3-205062 |  |
| * C3-205537 | * TS 29.554 Essential Corrections and alignments | * Huawei | * agreed | * C3-205063 |  |
| * C3-205538 | * TS 29.591 Essential Corrections and alignments | * Huawei, ZTE | * agreed | * C3-205064 |  |
| * C3-205539 | * TS 29.594 Essential Corrections and alignments | * Huawei | * agreed | * C3-205065 |  |
| * C3-205540 | * Analytics report correction | * Huawei | * agreed | * C3-205272 |  |
| * C3-205541 | * Analytics report correction | * Huawei | * agreed | * C3-205273 |  |
| * C3-205542 | * New WID on Reliable Data Service Serialization Indication | * Intel | * endorsed | * C3-205036 |  |
| * C3-205543 | * Remove the PFDs within the PushNotification | * Huawei, Ericsson | * agreed | * C3-205182 |  |
| * C3-205544 | * Procedure of PUSH notification | * Huawei | * agreed | * C3-205183 |  |
| * C3-205545 | * Callback URI correction | * Huawei, ZTE | * agreed | * C3-205246 |  |
| * C3-205546 | * notifId provided by the UDM for CIoT events | * ZTE | * agreed | * C3-205206 |  |
| * C3-205547 | * notifId provided by the UDM for CIoT events | * ZTE | * agreed | * C3-205207 |  |
| * C3-205548 | * Update of OpenAPI version and TS version in externalDocs field | * ZTE | * agreed |  |  |
| * C3-205549 | * Callback URI correction | * Huawei | * agreed | * C3-205247 |  |
| * C3-205550 | * Callback URI correction | * Huawei | * agreed | * C3-205248 |  |
| * C3-205551 | * Callback URI correction | * Huawei | * agreed | * C3-205249 |  |
| * C3-205552 | * Callback URI correction | * Huawei | * agreed | * C3-205250 |  |
| * C3-205553 | * Callback URI correction | * Huawei | * agreed | * C3-205251 |  |
| * C3-205554 | * Combination of DNN and S-NSSAI | * Huawei | * agreed | * C3-205265 |  |
| * C3-205555 | * Adding the description of Ix reference point | * NTT corporation | * agreed | * C3-205397 |  |
| * C3-205556 | * Failure response for SCEF northbound APIs | * Huawei, Ericsson | * agreed | * C3-205260 |  |
| * C3-205557 | * Failure response for SCEF northbound APIs | * Huawei, Ericsson | * agreed | * C3-205261 |  |
| * C3-205558 | * Update of OpenAPI version and TS version in externalDocs field | * Huawei | * agreed |  |  |
| * C3-205559 | * LS on Support of L2TP on SGi/N6 with Control and User Plane Separation | * CT4 | * noted |  |  |
| * C3-205560 | * Update of OpenAPI version and TS version in externalDocs field | * Huawei | * agreed |  |  |
| * C3-205561 | * Update of OpenAPI version and TS version in externalDocs field | * Huawei | * agreed |  |  |
| * C3-205562 | * Update of OpenAPI version and TS version in externalDocs field | * Huawei | * agreed |  |  |
| * C3-205563 | * Update of TS version in externalDocs field | * Huawei | * agreed |  |  |
| * C3-205564 | * Update of TS version in externalDocs field | * Huawei | * agreed |  |  |
| * C3-205565 | * OpenAPI version update of Nudr\_DataRepository API | * Huawei | * agreed |  |  |
| * C3-205566 | * Correction on PAPCHAP supporting Rel-15 N1 mode UE | * Ericsson, Qualcomm, Vodafone | * agreed | * C3-205309 |  |
| * C3-205567 | * Correction on PAPCHAP supporting Rel-15 N1 mode UE | * Ericsson, Qualcomm, Vodafone | * agreed | * C3-205310 |  |
| * C3-205568 | * Correction to NIDD configuration cancellation procedure | * Ericsson | * agreed | * C3-205312 |  |
| * C3-205569 | * Correction to NIDD configuration cancellation procedure | * Ericsson | * agreed | * C3-205313 |  |
| * C3-205570 | * New WID on CT aspects for enabling Edge Applications | * Samsung Electronics Iberia SA | * revised | * C3-205334 | * C3-205622 |
| * C3-205571 | * Faliure authorization result of BDT reference Id for ChargeableParty API request | * Huawei, Havelsan | * agreed |  |  |
| * C3-205572 | * Adding a note for IPv4/IPv6 Non-transparent access to DN using PAP/CHAP | * China Telecom Corporation Ltd., Huawei, Ericsson | * agreed | * C3-205135 |  |
| * C3-205573 | * Adding PAP/CHAP in RADIUS message flow(successful case) | * China Telecom Corporation Ltd. | * withdrawn | * C1-205184 |  |
| * C3-205574 | * Optimized Pull mode | * China Telecom, Ericsson, Huawei | * agreed | * C3-205133 |  |
| * C3-205575 | * Adding PAP/CHAP in RADIUS message flow(successful case) | * China Telecom Corporation Ltd., Huawei, Ericsson | * agreed | * C3-205184 |  |
| * C3-205576 | * Correction to device triggering recall procedure | * Ericsson | * agreed | * C3-205314 |  |
| * C3-205577 | * Adding PAP/CHAP in Diameter message flow(successful case) | * China Telecom Corporation Ltd., Huawei, Ericsson | * agreed | * C3-205191 |  |
| * C3-205578 | * Correction to device triggering recall procedure | * Ericsson | * agreed | * C3-205315 |  |
| * C3-205579 | * Correction of the condition for the Credit Reallocation event | * Nokia, Nokia Shanghai Bell | * agreed | * C3-205087 |  |
| * C3-205580 | * Correction of the condition for the Credit Reallocation event | * Nokia, Nokia Shanghai Bell | * agreed | * C3-205088 |  |
| * C3-205581 | * Disambiguation of the reporting and handling of triggers for PCC rule bases | * Nokia, Nokia Shanghai Bell | * agreed | * C3-205090 |  |
| * C3-205582 | * Location change (serving cell) for Policy Control Request Trigger | * China Mobile Communications Group Co.,Ltd., Ericsson, Huawei | * agreed | * C3-205355 |  |
| * C3-205583 | * Location change (serving cell) for Policy Control Request Trigger | * China Mobile Communications Group Co.,Ltd., Ericsson, Huawei | * agreed | * C3-205356 |  |
| * C3-205584 | * TS 29.535 Skeleton | * China Mobile Communications Group Co.,Ltd. | * agreed | * C3-205359 |  |
| * C3-205585 | * Introduction for AKMA Anchor Service | * China Mobile Communications Group Co.,Ltd.,Huawei | * agreed | * C3-205360 |  |
| * C3-205586 | * Naanf\_AKMA Service Description | * China Mobile Communications Group Co.,Ltd., Huawei | * agreed | * C3-205361 |  |
| * C3-205587 | * Update of OpenAPI version and TS version in externalDocs field | * China Mobile Com. Corporation | * agreed |  |  |
| * C3-205588 | * Update of OpenAPI version and TS version in externalDocs field | * China Mobile Com. Corporation | * agreed |  |  |
| * C3-205589 | * Support of 307&404 response codes for Policy update notification | * ZTE | * revised | * C3-205217 | * C3-205614 |
| * C3-205590 | * report initial presence status for PRA | * ZTE, China Mobile | * agreed |  |  |
| * C3-205591 | * report initial presence status for PRA | * ZTE, China Mobile | * agreed |  |  |
| * C3-205592 | * report initial presence status for PRA | * ZTE, China Mobile | * agreed |  |  |
| * C3-205593 | * report initial presence status for PRA | * ZTE, China Mobile | * agreed |  |  |
| * C3-205594 | * Update of OpenAPI version and TS version in externalDocs field | * Nokia, Nokia Shanghai Bell | * agreed |  |  |
| * C3-205595 | * Update of OpenAPI version and TS version in externalDocs field | * Nokia, Nokia Shanghai Bell | * agreed |  |  |
| * C3-205596 | * Update of OpenAPI version and TS version in externalDocs field | * Nokia, Nokia Shanghai Bell | * agreed |  |  |
| * C3-205597 | * Update of OpenAPI version and TS version in externalDocs field | * Nokia, Nokia Shanghai Bell | * agreed |  |  |
| * C3-205598 | * Correction to PRA | * Ericsson | * agreed | * C3-205424 |  |
| * C3-205599 | * Update of OpenAPI version and TS version in externalDocs field | * Nokia, Nokia Shanghai Bell | * withdrawn |  |  |
| * C3-205600 | * Correction to access type conditioned session AMBR | * Ericsson | * revised | * C3-205403 | * C3-205620 |
| * C3-205601 | * Correctionsn to Threshold | * Ericsson, China Mobile | * agreed | * C3-205331 |  |
| * C3-205602 | * Correction to access type conditioned session AMBR | * Ericsson | * revised | * C3-205404 | * C3-205621 |
| * C3-205603 | * Correctionsn to Threshold | * Ericsson, China Mobile | * agreed | * C3-205332 |  |
| * C3-205604 | * Update of OpenAPI version and TS version in externalDocs field | * Ericsson | * agreed |  |  |
| * C3-205605 | * Update of OpenAPI version and TS version in externalDocs field | * Ericsson | * agreed |  |  |
| * C3-205606 | * Update of OpenAPI version and TS version in externalDocs field | * Ericsson | * agreed |  |  |
| * C3-205607 | * Correction to Alternative QoS Parameter | * Huawei | * agreed | * C3-205457 |  |
| * C3-205608 | * Correction to Alternative QoS Parameter | * Huawei | * agreed | * C3-205458 |  |
| * C3-205609 | * Update of OpenAPI version and TS version in externalDocs field | * Huawei | * agreed |  |  |
| * C3-205610 | * Error response for statistics request | * Huawei, Ericsson | * agreed | * C3-205274 |  |
| * C3-205611 | * Error response for statistics request | * Huawei, Ericsson | * agreed | * C3-205275 |  |
| * C3-205612 | * Corrections to Validity Period | * Ericsson | * agreed | * C3-205330 |  |
| * C3-205613 | * Status of CT3 Work Items | * CT3 chairman | * noted | * C3-205012 |  |
| * C3-205614 | * Support of 307&404 response codes for Policy update notification | * ZTE | * agreed | * C3-205589 |  |
| * C3-205615 | * Correction to subscription create service operation | * Huawei | * agreed | * C3-205277 |  |
| * C3-205616 | * Correction to the BDT policy re-negotiation | * Huawei | * agreed | * C3-205159 |  |
| * C3-205617 | * Update of OpenAPI version and TS version in externalDocs field | * Nokia, Nokia Shanghai Bell | * agreed |  |  |
| * C3-205618 | * Update of OpenAPI version and TS version in externalDocs field | * Nokia, Nokia Shanghai Bell | * agreed |  |  |
| * C3-205619 | * Update of OpenAPI version and TS version in externalDocs field | * Nokia, Nokia Shanghai Bell | * agreed |  |  |
| * C3-205620 | * Correction to access type conditioned session AMBR | * Ericsson | * agreed | * C3-205600 |  |
| * C3-205621 | * Correction to access type conditioned session AMBR | * Ericsson | * agreed | * C3-205602 |  |
| * C3-205622 | * New WID on CT aspects for enabling Edge Applications | * Samsung Electronics Iberia SA | * revised | * C3-205570 | * C3-205624 |
| * C3-205623 | * TS 29.535 v0.1.0 | * China Mobile Communications Group Co.,Ltd | * approved |  |  |
| * C3-205624 | * New WID on CT aspects for enabling Edge Applications | * Samsung Electronics Iberia SA | * agreed | * C3-205622 | * - |

### A2: Tdoc decision timing

|  |  |  |
| --- | --- | --- |
| Document | Date/time UTC | Decision |
| * C3-205033 | * 2020-11-27 11:38:37 | * agreed |
| * C3-205033 | * 2020-11-27 11:38:46 | * noted |
| * C3-205364 | * 2020-11-27 11:34:00 | * noted |
| * C3-205488 | * 2020-11-27 11:34:20 | * agreed |
| * C3-205489 | * 2020-11-27 11:34:21 | * agreed |
| * C3-205500 | * 2020-11-27 11:34:53 | * agreed |
| * C3-205501 | * 2020-11-27 11:37:05 | * agreed |
| * C3-205504 | * 2020-11-27 11:34:53 | * agreed |
| * C3-205505 | * 2020-11-27 11:34:54 | * agreed |
| * C3-205548 | * 2020-11-27 11:37:06 | * agreed |
| * C3-205558 | * 2020-11-27 11:35:02 | * agreed |
| * C3-205560 | * 2020-11-27 11:35:03 | * agreed |
| * C3-205561 | * 2020-11-27 11:37:16 | * agreed |
| * C3-205562 | * 2020-11-27 11:35:04 | * agreed |
| * C3-205563 | * 2020-11-27 11:35:06 | * agreed |
| * C3-205564 | * 2020-11-27 11:37:17 | * agreed |
| * C3-205565 | * 2020-11-27 11:35:07 | * agreed |
| * C3-205587 | * 2020-11-27 11:35:17 | * agreed |
| * C3-205588 | * 2020-11-27 11:37:17 | * agreed |
| * C3-205594 | * 2020-11-27 11:35:18 | * agreed |
| * C3-205595 | * 2020-11-27 11:35:19 | * agreed |
| * C3-205596 | * 2020-11-27 11:37:19 | * agreed |
| * C3-205597 | * 2020-11-27 11:37:20 | * agreed |
| * C3-205599 | * 2020-11-20 15:28:52 | * withdrawn |
| * C3-205604 | * 2020-11-27 11:35:27 | * agreed |
| * C3-205605 | * 2020-11-27 11:35:28 | * agreed |
| * C3-205606 | * 2020-11-27 11:37:32 | * agreed |
| * C3-205609 | * 2020-11-27 11:35:30 | * agreed |
| * C3-205617 | * 2020-11-27 11:34:26 | * agreed |
| * C3-205618 | * 2020-11-27 11:34:27 | * agreed |
| * C3-205619 | * 2020-11-27 11:35:34 | * agreed |
| * C3-205622 | * 2020-11-19 08:23:42 | * revised |
| * C3-205623 | * 2020-11-27 11:36:35 | * approved |
| * C3-205624 | * 2020-11-27 11:36:00 | * agreed |

## Annex B: List of change requests

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Spec | CR | Rev | Rel | Cat | WI | Decision |
| * C3-205303 | * Corrections to IPv4 and IPv6 | * Ericsson | * 29.061 | * 0527 | * - | * Rel-17 | * F | * TEI17 | * agreed |
| * C3-205305 | * Corrections to Delegated-IPv6-Prefix | * Ericsson | * 29.061 | * 0528 | * - | * Rel-16 | * F | * TEI16, SAES-St3-intwk | * agreed |
| * C3-205306 | * Corrections to Delegated-IPv6-Prefix | * Ericsson | * 29.061 | * 0529 | * - | * Rel-17 | * A | * TEI17, SAES-St3-intwk | * revised |
| * C3-205389 | * Corrections to Delegated-IPv6-Prefix | * Ericsson | * 29.061 | * 0529 | * 1 | * Rel-17 | * A | * SAES-St3-intwk, TEI16 | * agreed |
| * C3-205032 | * DateTime Enhancement | * Hewlett-Packard Enterprise | * 29.122 | * 0290 | * - | * Rel-17 | * F | * SBIProtoc17 | * agreed |
| * C3-205039 | * TS 29.122 Essential Corrections and alignments | * Huawei | * 29.122 | * 0291 | * - | * Rel-16 | * F | * SBIProtoc16 | * revised |
| * C3-205517 | * TS 29.122 Essential Corrections and alignments | * Huawei | * 29.122 | * 0291 | * 1 | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-205083 | * Adding Support for Indicating Serialization Format in RDS | * Convida Wireless LLC, Intel | * 29.122 | * 0292 | * - | * Rel-17 | * C | * CIoT\_Ext, TEI17 | * withdrawn |
| * C3-205084 | * Adding Support for Indicating Serialization Format in RDS | * Convida Wireless LLC, Intel | * 29.122 | * 0293 | * - | * Rel-17 | * C | * CIoT\_Ext, TEI17 | * revised |
| * C3-205507 | * Adding Support for Indicating Serialization Format in RDS | * Convida Wireless LLC, Intel | * 29.122 | * 0293 | * 1 | * Rel-17 | * B | * RDSSI | * agreed |
| * C3-205093 | * Essential Corrections to eLCS related monitoring events | * Huawei | * 29.122 | * 0294 | * - | * Rel-16 | * F | * 5G\_eLCS | * revised |
| * C3-205443 | * Essential Corrections to eLCS related monitoring events | * Huawei | * 29.122 | * 0294 | * 1 | * Rel-16 | * F | * 5G\_eLCS | * agreed |
| * C3-205172 | * Correction to Alternative QoS Parameter | * Huawei | * 29.122 | * 0295 | * - | * Rel-16 | * F | * eV2XARC | * revised |
| * C3-205453 | * Correction to Alternative QoS Parameter | * Huawei | * 29.122 | * 0295 | * 1 | * Rel-16 | * F | * eV2XARC | * agreed |
| * C3-205185 | * Storage of YAML files in 3GPP Forge | * Huawei | * 29.122 | * 0296 | * - | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-205192 | * Corrections related to Notification via Websocket | * ZTE | * 29.122 | * 0297 | * - | * Rel-15 | * F | * NAPS-CT | * merged |
| * C3-205193 | * Corrections related to Notification via Websocket | * ZTE | * 29.122 | * 0298 | * - | * Rel-16 | * A | * NAPS-CT | * merged |
| * C3-205205 | * Corrections to MonitoringEventReport | * ZTE | * 29.122 | * 0299 | * - | * Rel-16 | * F | * 5G\_CIoT | * revised |
| * C3-205468 | * Corrections to MonitoringEventReport | * ZTE, Huawei | * 29.122 | * 0299 | * 1 | * Rel-16 | * F | * 5G\_CIoT | * agreed |
| * C3-205238 | * Incorrect definition of QosMonitoringInformation | * Ericsson | * 29.122 | * 0300 | * - | * Rel-16 | * F | * 5G\_URLLC | * revised |
| * C3-205421 | * Incorrect definition of QosMonitoringInformation | * Ericsson | * 29.122 | * 0300 | * 1 | * Rel-16 | * F | * 5G\_URLLC | * agreed |
| * C3-205246 | * Callback URI correction | * Huawei | * 29.122 | * 0301 | * - | * Rel-16 | * F | * SBIProtoc16 | * revised |
| * C3-205545 | * Callback URI correction | * Huawei, ZTE | * 29.122 | * 0301 | * 1 | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-205256 | * Faliure authorization result of BDT reference Id for ChargeableParty API request | * Huawei, Havelsan | * 29.122 | * 0302 | * - | * Rel-15 | * F | * NAPS-CT, 5GS\_Ph1-CT | * not pursued |
| * C3-205257 | * Faliure authorization result of BDT reference Id for ChargeableParty API request | * Huawei, Havelsan | * 29.122 | * 0303 | * - | * Rel-16 | * A | * NAPS-CT, 5GS\_Ph1-CT | * not pursued |
| * C3-205258 | * Successful response code for Event Notification | * Huawei | * 29.122 | * 0304 | * - | * Rel-15 | * F | * NAPS-CT | * agreed |
| * C3-205259 | * Successful response code for Event Notification | * Huawei | * 29.122 | * 0305 | * - | * Rel-16 | * A | * NAPS-CT | * agreed |
| * C3-205260 | * Failure response for SCEF northbound APIs | * Huawei | * 29.122 | * 0306 | * - | * Rel-15 | * F | * NAPS-CT | * revised |
| * C3-205556 | * Failure response for SCEF northbound APIs | * Huawei, Ericsson | * 29.122 | * 0306 | * 1 | * Rel-15 | * F | * NAPS-CT | * agreed |
| * C3-205261 | * Failure response for SCEF northbound APIs | * Huawei | * 29.122 | * 0307 | * - | * Rel-16 | * A | * NAPS-CT | * revised |
| * C3-205557 | * Failure response for SCEF northbound APIs | * Huawei, Ericsson | * 29.122 | * 0307 | * 1 | * Rel-16 | * A | * NAPS-CT | * agreed |
| * C3-205262 | * Correction on Location Service via NEF | * Huawei, KDDI | * 29.122 | * 0308 | * - | * Rel-16 | * F | * 5G\_eLCS | * agreed |
| * C3-205263 | * Payload during event notification via Websocket | * Huawei | * 29.122 | * 0309 | * - | * Rel-15 | * F | * NAPS-CT | * revised |
| * C3-205516 | * Payload during event notification via Websocket | * Huawei, ZTE | * 29.122 | * 0309 | * 1 | * Rel-15 | * F | * NAPS-CT | * agreed |
| * C3-205271 | * Protocol or application errors | * Huawei | * 29.122 | * 0310 | * - | * Rel-16 | * F | * eNAPIs | * revised |
| * C3-205479 | * Protocol or application errors | * Huawei | * 29.122 | * 0310 | * 1 | * Rel-16 | * F | * eNAPIs | * agreed |
| * C3-205292 | * Solve IP address overlapping for Chargeable Party | * Ericsson | * 29.122 | * 0311 | * - | * Rel-15 | * F | * NAPS-CT | * revised |
| * C3-205482 | * Solve IP address overlapping for Chargeable Party | * Ericsson, Huawei | * 29.122 | * 0311 | * 1 | * Rel-15 | * F | * NAPS-CT | * agreed |
| * C3-205293 | * Solve IP address overlapping for Chargeable Party | * Ericsson | * 29.122 | * 0312 | * - | * Rel-16 | * A | * NAPS-CT | * revised |
| * C3-205483 | * Solve IP address overlapping for Chargeable Party | * Ericsson, Huawei | * 29.122 | * 0312 | * 1 | * Rel-16 | * A | * NAPS-CT | * agreed |
| * C3-205312 | * Correction to NIDD configuration cancellation procedure | * Ericsson | * 29.122 | * 0313 | * - | * Rel-15 | * F | * NAPS-CT | * revised |
| * C3-205568 | * Correction to NIDD configuration cancellation procedure | * Ericsson | * 29.122 | * 0313 | * 1 | * Rel-15 | * F | * NAPS-CT | * agreed |
| * C3-205313 | * Correction to NIDD configuration cancellation procedure | * Ericsson | * 29.122 | * 0314 | * - | * Rel-16 | * A | * NAPS-CT, TEI16 | * revised |
| * C3-205569 | * Correction to NIDD configuration cancellation procedure | * Ericsson | * 29.122 | * 0314 | * 1 | * Rel-16 | * A | * TEI16, NAPS-CT | * agreed |
| * C3-205314 | * Correction to device triggering recall procedure | * Ericsson | * 29.122 | * 0315 | * - | * Rel-15 | * F | * NAPS-CT | * revised |
| * C3-205576 | * Correction to device triggering recall procedure | * Ericsson | * 29.122 | * 0315 | * 1 | * Rel-15 | * F | * NAPS-CT | * agreed |
| * C3-205315 | * Correction to device triggering recall procedure | * Ericsson | * 29.122 | * 0316 | * - | * Rel-16 | * A | * NAPS-CT, TEI16 | * revised |
| * C3-205578 | * Correction to device triggering recall procedure | * Ericsson | * 29.122 | * 0316 | * 1 | * Rel-16 | * A | * NAPS-CT | * agreed |
| * C3-205316 | * Corrections to support 405 error status code | * Ericsson | * 29.122 | * 0317 | * - | * Rel-15 | * F | * NAPS-CT | * postponed |
| * C3-205317 | * Corrections to support 405 error status code | * Ericsson | * 29.122 | * 0318 | * - | * Rel-16 | * A | * NAPS-CT, TEI16 | * postponed |
| * C3-205318 | * Corrections to misusage of 500 status code | * Ericsson | * 29.122 | * 0319 | * - | * Rel-15 | * F | * NAPS-CT | * merged |
| * C3-205319 | * Corrections to misusage of 500 status code | * Ericsson | * 29.122 | * 0320 | * - | * Rel-16 | * A | * NAPS-CT, TEI16 | * merged |
| * C3-205488 | * Update of OpenAPI version and TS version in externalDocs field | * Huawei | * 29.122 | * 0321 | * - | * Rel-15 | * F | * NAPS-CT | * agreed |
| * C3-205558 | * Update of OpenAPI version and TS version in externalDocs field | * Huawei | * 29.122 | * 0322 | * - | * Rel-16 | * F | * TEI16 | * agreed |
| * C3-205561 | * Update of OpenAPI version and TS version in externalDocs field | * Huawei | * 29.122 | * 0323 | * - | * Rel-17 | * F | * TEI17 | * agreed |
| * C3-205571 | * Faliure authorization result of BDT reference Id for ChargeableParty API request | * Huawei, Havelsan | * 29.122 | * 0324 | * - | * Rel-17 | * F | * TEI17, NAPS-CT, 5GS\_Ph1-CT | * agreed |
| * C3-205222 | * Adding the description of Ix reference point | * NTT corporation | * 29.165 | * 1016 | * - | * Rel-17 | * F | * TEI17 | * revised |
| * C3-205397 | * Adding the description of Ix reference point | * NTT corporation | * 29.165 | * 1016 | * 1 | * Rel-17 | * F | * TEI17 | * revised |
| * C3-205555 | * Adding the description of Ix reference point | * NTT corporation | * 29.165 | * 1016 | * 2 | * Rel-17 | * F | * TEI17 | * agreed |
| * C3-205040 | * TS 29.222 Essential Corrections and alignments | * Huawei | * 29.222 | * 0160 | * - | * Rel-16 | * F | * SBIProtoc16 | * revised |
| * C3-205518 | * TS 29.222 Essential Corrections and alignments | * Huawei | * 29.222 | * 0160 | * 1 | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-205290 | * Correct inconsistency in SecurityNotification | * Ericsson | * 29.222 | * 0161 | * - | * Rel-15 | * F | * CAPIF-CT | * revised |
| * C3-205491 | * Correct inconsistency in SecurityNotification | * Ericsson | * 29.222 | * 0161 | * 1 | * Rel-15 | * F | * CAPIF-CT | * agreed |
| * C3-205291 | * Correct inconsistency in SecurityNotification | * Ericsson | * 29.222 | * 0162 | * - | * Rel-16 | * A | * CAPIF-CT | * revised |
| * C3-205492 | * Correct inconsistency in SecurityNotification | * Ericsson | * 29.222 | * 0162 | * 1 | * Rel-16 | * A | * CAPIF-CT | * agreed |
| * C3-205336 | * Storage of YAML files in 3GPP Forge | * Samsung Electronics Iberia SA | * 29.222 | * 0163 | * - | * Rel-16 | * F | * SBIProtoc16 | * revised |
| * C3-205437 | * Storage of YAML files in 3GPP Forge | * Samsung Electronics Iberia SA | * 29.222 | * 0163 | * 1 | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-205133 | * Optimized Pull mode | * China Telecom | * 29.251 | * 0030 | * - | * Rel-17 | * C | * pfdManEnh | * revised |
| * C3-205574 | * Optimized Pull mode | * China Telecom, Ericsson, Huawei | * 29.251 | * 0030 | * 1 | * Rel-17 | * B | * pfdManEnh | * agreed |
| * C3-205041 | * TS 29.486 Essential Corrections and alignments | * Huawei | * 29.486 | * 0012 | * - | * Rel-16 | * F | * SBIProtoc16 | * revised |
| * C3-205519 | * TS 29.486 Essential Corrections and alignments | * Huawei | * 29.486 | * 0012 | * 1 | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-205169 | * Storage of YAML files in 3GPP Forge | * Huawei | * 29.486 | * 0013 | * - | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-205042 | * TS 29.507 Essential Corrections and alignments | * Huawei | * 29.507 | * 0136 | * - | * Rel-16 | * F | * SBIProtoc16 | * revised |
| * C3-205520 | * TS 29.507 Essential Corrections and alignments | * Huawei | * 29.507 | * 0136 | * 1 | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-205043 | * TS 29.507 Essential Corrections and alignments | * Huawei | * 29.507 | * 0137 | * - | * Rel-17 | * A | * SBIProtoc16 | * revised |
| * C3-205521 | * TS 29.507 Essential Corrections and alignments | * Huawei | * 29.507 | * 0137 | * 1 | * Rel-17 | * A | * SBIProtoc16 | * agreed |
| * C3-205075 | * Storage of YAML files in 3GPP Forge | * Nokia, Nokia Shanghai Bell | * 29.507 | * 0138 | * - | * Rel-16 | * F | * SBIProtoc16 | * revised |
| * C3-205370 | * Storage of YAML files in 3GPP Forge | * Nokia, Nokia Shanghai Bell | * 29.507 | * 0138 | * 1 | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-205079 | * Storage of YAML files in 3GPP Forge | * Nokia, Nokia Shanghai Bell | * 29.507 | * 0139 | * - | * Rel-17 | * A | * SBIProtoc16 | * revised |
| * C3-205374 | * Storage of YAML files in 3GPP Forge | * Nokia, Nokia Shanghai Bell | * 29.507 | * 0139 | * 1 | * Rel-17 | * A | * SBIProtoc16 | * agreed |
| * C3-205096 | * Correction to PRA | * Ericsson | * 29.507 | * 0140 | * - | * Rel-16 | * F | * TEI16, 5GS\_Ph1-CT | * revised |
| * C3-205424 | * Correction to PRA | * Ericsson | * 29.507 | * 0140 | * 1 | * Rel-16 | * F | * TEI16, 5GS\_Ph1-CT | * revised |
| * C3-205598 | * Correction to PRA | * Ericsson | * 29.507 | * 0140 | * 2 | * Rel-16 | * F | * TEI16, 5GS\_Ph1-CT | * agreed |
| * C3-205097 | * Correction to PRA | * Ericsson | * 29.507 | * 0141 | * - | * Rel-17 | * A | * TEI16, 5GS\_Ph1-CT | * revised |
| * C3-205425 | * Correction to PRA | * Ericsson | * 29.507 | * 0141 | * 1 | * Rel-17 | * A | * TEI16, 5GS\_Ph1-CT | * agreed |
| * C3-205213 | * Report current value in Update for location and accessType related triggers | * ZTE | * 29.507 | * 0142 | * - | * Rel-17 | * F | * TEI17, en5GPccSer | * revised |
| * C3-205472 | * Report current value in Update for location and accessType related triggers | * ZTE | * 29.507 | * 0142 | * 1 | * Rel-17 | * F | * TEI17, en5GPccSer | * agreed |
| * C3-205215 | * Adding 200OK response for UpdateNotify | * ZTE | * 29.507 | * 0143 | * - | * Rel-17 | * B | * TEI17, en5GPccSer | * revised |
| * C3-205474 | * Adding 200OK response for UpdateNotify | * ZTE | * 29.507 | * 0143 | * 1 | * Rel-17 | * B | * TEI17, en5GPccSer | * agreed |
| * C3-205243 | * PolicyAssociationReleaseCause enumeration name | * Ericsson | * 29.507 | * 0144 | * - | * Rel-17 | * F | * TEI17, 5GS\_Ph1-CT | * agreed |
| * C3-205244 | * "400 Bad Request" response on notification | * Ericsson | * 29.507 | * 0145 | * - | * Rel-17 | * F | * TEI17, en5GPccSer | * agreed |
| * C3-205590 | * report initial presence status for PRA | * ZTE, China Mobile | * 29.507 | * 0146 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-205591 | * report initial presence status for PRA | * ZTE, China Mobile | * 29.507 | * 0147 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-205596 | * Update of OpenAPI version and TS version in externalDocs field | * Nokia, Nokia Shanghai Bell | * 29.507 | * 0148 | * - | * Rel-17 | * F | * TEI17 | * agreed |
| * C3-205617 | * Update of OpenAPI version and TS version in externalDocs field | * Nokia, Nokia Shanghai Bell | * 29.507 | * 0149 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-205619 | * Update of OpenAPI version and TS version in externalDocs field | * Nokia, Nokia Shanghai Bell | * 29.507 | * 0150 | * - | * Rel-16 | * F | * TEI16 | * agreed |
| * C3-205044 | * TS 29.508 Essential Corrections and alignments | * Huawei | * 29.508 | * 0102 | * - | * Rel-16 | * F | * SBIProtoc16 | * revised |
| * C3-205522 | * TS 29.508 Essential Corrections and alignments | * Huawei | * 29.508 | * 0102 | * 1 | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-205045 | * TS 29.508 Essential Corrections and alignments | * Huawei | * 29.508 | * 0103 | * - | * Rel-17 | * A | * SBIProtoc16 | * revised |
| * C3-205523 | * TS 29.508 Essential Corrections and alignments | * Huawei | * 29.508 | * 0103 | * 1 | * Rel-17 | * A | * SBIProtoc16 | * agreed |
| * C3-205076 | * Storage of YAML files in 3GPP Forge | * Nokia, Nokia Shanghai Bell | * 29.508 | * 0104 | * - | * Rel-16 | * F | * SBIProtoc16 | * revised |
| * C3-205371 | * Storage of YAML files in 3GPP Forge | * Nokia, Nokia Shanghai Bell | * 29.508 | * 0104 | * 1 | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-205080 | * Storage of YAML files in 3GPP Forge | * Nokia, Nokia Shanghai Bell | * 29.508 | * 0105 | * - | * Rel-17 | * A | * SBIProtoc16 | * revised |
| * C3-205375 | * Storage of YAML files in 3GPP Forge | * Nokia, Nokia Shanghai Bell | * 29.508 | * 0105 | * 1 | * Rel-17 | * A | * SBIProtoc16 | * agreed |
| * C3-205165 | * Correction to ddd status when the SMF buffers the data | * Huawei | * 29.508 | * 0106 | * - | * Rel-16 | * F | * 5G\_CIoT | * agreed |
| * C3-205166 | * Correction to ddd status when the SMF buffers the data | * Huawei | * 29.508 | * 0107 | * - | * Rel-17 | * A | * 5G\_CIoT | * agreed |
| * C3-205197 | * Corrections on resourceURI | * ZTE | * 29.508 | * 0108 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * revised |
| * C3-205459 | * Corrections on resourceURI | * ZTE | * 29.508 | * 0108 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-205198 | * Corrections on resourceURI | * ZTE | * 29.508 | * 0109 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * revised |
| * C3-205460 | * Corrections on resourceURI | * ZTE | * 29.508 | * 0109 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-205199 | * Corrections on resourceURI | * ZTE | * 29.508 | * 0110 | * - | * Rel-17 | * A | * 5GS\_Ph1-CT | * revised |
| * C3-205461 | * Corrections on resourceURI | * ZTE | * 29.508 | * 0110 | * 1 | * Rel-17 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-205206 | * notifId provided by the UDM for CIoT events | * ZTE | * 29.508 | * 0111 | * - | * Rel-16 | * F | * 5G\_CIoT | * revised |
| * C3-205546 | * notifId provided by the UDM for CIoT events | * ZTE | * 29.508 | * 0111 | * 1 | * Rel-16 | * F | * 5G\_CIoT | * agreed |
| * C3-205207 | * notifId provided by the UDM for CIoT events | * ZTE | * 29.508 | * 0112 | * - | * Rel-17 | * A | * 5G\_CIoT | * revised |
| * C3-205547 | * notifId provided by the UDM for CIoT events | * ZTE | * 29.508 | * 0112 | * 1 | * Rel-17 | * A | * 5G\_CIoT | * agreed |
| * C3-205269 | * PDU session establishment | * Huawei | * 29.508 | * 0113 | * - | * Rel-16 | * F | * 5G\_CIoT | * agreed |
| * C3-205027 | * refUmN3gData yaml correction | * Hewlett-Packard Enterprise | * 29.512 | * 0569 | * - | * Rel-16 | * F | * ATSSS | * agreed |
| * C3-205028 | * refUmN3gData yaml correction | * Hewlett-Packard Enterprise | * 29.512 | * 0570 | * - | * Rel-17 | * A | * ATSSS | * agreed |
| * C3-205034 | * PCC control for DDD status and availability after DDN failure events | * CATT | * 29.512 | * 0571 | * - | * Rel-16 | * F | * 5G\_CIoT | * merged |
| * C3-205035 | * PCC control for DDD status and availability after DDN failure events | * CATT | * 29.512 | * 0572 | * - | * Rel-17 | * A | * 5G\_CIoT | * merged |
| * C3-205046 | * TS 29.512 Essential Corrections and alignments | * Huawei | * 29.512 | * 0573 | * - | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-205047 | * TS 29.512 Essential Corrections and alignments | * Huawei | * 29.512 | * 0574 | * - | * Rel-17 | * A | * SBIProtoc16 | * agreed |
| * C3-205087 | * Correction of the condition for the Credit Reallocation event | * Nokia, Nokia Shanghai Bell | * 29.512 | * 0575 | * - | * Rel-16 | * F | * en5GPccSer | * revised |
| * C3-205579 | * Correction of the condition for the Credit Reallocation event | * Nokia, Nokia Shanghai Bell | * 29.512 | * 0575 | * 1 | * Rel-16 | * F | * en5GPccSer | * agreed |
| * C3-205088 | * Correction of the condition for the Credit Reallocation event | * Nokia, Nokia Shanghai Bell | * 29.512 | * 0576 | * - | * Rel-17 | * A | * en5GPccSer | * revised |
| * C3-205580 | * Correction of the condition for the Credit Reallocation event | * Nokia, Nokia Shanghai Bell | * 29.512 | * 0576 | * 1 | * Rel-17 | * A | * en5GPccSer | * agreed |
| * C3-205089 | * Disambiguation of the reporting and handling of triggers for PCC rule bases | * Nokia, Nokia Shanghai Bell | * 29.512 | * 0577 | * - | * Rel-16 | * F | * en5GPccSer | * not pursued |
| * C3-205090 | * Disambiguation of the reporting and handling of triggers for PCC rule bases | * Nokia, Nokia Shanghai Bell | * 29.512 | * 0578 | * - | * Rel-17 | * A | * en5GPccSer | * revised |
| * C3-205581 | * Disambiguation of the reporting and handling of triggers for PCC rule bases | * Nokia, Nokia Shanghai Bell | * 29.512 | * 0578 | * 1 | * Rel-17 | * F | * en5GPccSer | * agreed |
| * C3-205091 | * Remove NW-TT ports from TsnBridgeInfo type | * Intel / Thomas | * 29.512 | * 0579 | * - | * Rel-16 | * F | * Vertical\_LAN | * merged |
| * C3-205092 | * Remove NW-TT ports from TsnBridgeInfo type | * Intel / Thomas | * 29.512 | * 0580 | * - | * Rel-17 | * A | * Vertical\_LAN | * merged |
| * C3-205100 | * Correction to PRA | * Ericsson | * 29.512 | * 0581 | * - | * Rel-16 | * F | * TEI16, 5GS\_Ph1-CT | * revised |
| * C3-205428 | * Correction to PRA | * Ericsson | * 29.512 | * 0581 | * 1 | * Rel-16 | * F | * TEI16, 5GS\_Ph1-CT | * agreed |
| * C3-205101 | * Correction to PRA | * Ericsson | * 29.512 | * 0582 | * - | * Rel-17 | * A | * TEI16, 5GS\_Ph1-CT | * revised |
| * C3-205429 | * Correction to PRA | * Ericsson | * 29.512 | * 0582 | * 1 | * Rel-17 | * A | * TEI16, 5GS\_Ph1-CT | * agreed |
| * C3-205102 | * Correction to access type conditioned session AMBR | * Ericsson | * 29.512 | * 0583 | * - | * Rel-16 | * F | * en5GPccSer | * revised |
| * C3-205403 | * Correction to access type conditioned session AMBR | * Ericsson | * 29.512 | * 0583 | * 1 | * Rel-16 | * F | * en5GPccSer | * revised |
| * C3-205600 | * Correction to access type conditioned session AMBR | * Ericsson | * 29.512 | * 0583 | * 2 | * Rel-16 | * F | * en5GPccSer | * revised |
| * C3-205620 | * Correction to access type conditioned session AMBR | * Ericsson | * 29.512 | * 0583 | * 3 | * Rel-16 | * F | * en5GPccSer | * agreed |
| * C3-205103 | * Correction to access type conditioned session AMBR | * Ericsson | * 29.512 | * 0584 | * - | * Rel-17 | * A | * en5GPccSer | * revised |
| * C3-205404 | * Correction to access type conditioned session AMBR | * Ericsson | * 29.512 | * 0584 | * 1 | * Rel-17 | * A | * en5GPccSer | * revised |
| * C3-205602 | * Correction to access type conditioned session AMBR | * Ericsson | * 29.512 | * 0584 | * 2 | * Rel-17 | * A | * en5GPccSer | * revised |
| * C3-205621 | * Correction to access type conditioned session AMBR | * Ericsson | * 29.512 | * 0584 | * 3 | * Rel-17 | * A | * en5GPccSer | * agreed |
| * C3-205104 | * Correction to PolicyDecisionErrorHandling feature | * Ericsson | * 29.512 | * 0585 | * - | * Rel-16 | * F | * en5GPccSer | * revised |
| * C3-205405 | * Correction to PolicyDecisionErrorHandling feature | * Ericsson | * 29.512 | * 0585 | * 1 | * Rel-16 | * F | * en5GPccSer | * agreed |
| * C3-205105 | * Correction to PolicyDecisionErrorHandling feature | * Ericsson | * 29.512 | * 0586 | * - | * Rel-17 | * A | * en5GPccSer | * revised |
| * C3-205406 | * Correction to PolicyDecisionErrorHandling feature | * Ericsson | * 29.512 | * 0586 | * 1 | * Rel-17 | * A | * en5GPccSer | * agreed |
| * C3-205106 | * Correction to SamePcf Feature | * Ericsson | * 29.512 | * 0587 | * - | * Rel-17 | * A | * en5GPccSer | * revised |
| * C3-205407 | * Correction to SamePcf Feature | * Ericsson | * 29.512 | * 0587 | * 1 | * Rel-17 | * A | * en5GPccSer | * agreed |
| * C3-205107 | * Correction to SamePcf Feature | * Ericsson | * 29.512 | * 0588 | * - | * Rel-16 | * F | * en5GPccSer | * revised |
| * C3-205408 | * Correction to SamePcf Feature | * Ericsson | * 29.512 | * 0588 | * 1 | * Rel-16 | * F | * en5GPccSer | * agreed |
| * C3-205108 | * Correction to modification of dynamic PCC rules | * Ericsson | * 29.512 | * 0589 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * not pursued |
| * C3-205109 | * Correction to modification of dynamic PCC rules | * Ericsson | * 29.512 | * 0590 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * not pursued |
| * C3-205110 | * Correction to modification of dynamic PCC rules | * Ericsson | * 29.512 | * 0591 | * - | * Rel-17 | * A | * 5GS\_Ph1-CT | * not pursued |
| * C3-205111 | * Correction to policy based on revalidation time | * Ericsson | * 29.512 | * 0592 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-205112 | * Correction to policy based on revalidation time | * Ericsson | * 29.512 | * 0593 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-205113 | * Correction to policy based on revalidation time | * Ericsson | * 29.512 | * 0594 | * - | * Rel-17 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-205114 | * Correction to session rule | * Ericsson | * 29.512 | * 0595 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * revised |
| * C3-205508 | * Correction to session rule | * Ericsson | * 29.512 | * 0595 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-205115 | * Correction to session rule | * Ericsson | * 29.512 | * 0596 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * revised |
| * C3-205509 | * Correction to session rule | * Ericsson | * 29.512 | * 0596 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-205116 | * Correction to session rule | * Ericsson | * 29.512 | * 0597 | * - | * Rel-17 | * A | * 5GS\_Ph1-CT | * revised |
| * C3-205510 | * Correction to session rule | * Ericsson | * 29.512 | * 0597 | * 1 | * Rel-17 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-205117 | * Correction to usage monitoring control | * Ericsson | * 29.512 | * 0598 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-205118 | * Correction to usage monitoring control | * Ericsson | * 29.512 | * 0599 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-205119 | * Correction to usage monitoring control | * Ericsson | * 29.512 | * 0600 | * - | * Rel-17 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-205120 | * Correction to PRA | * Ericsson | * 29.512 | * 0601 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * revised |
| * C3-205511 | * Correction to PRA | * Ericsson, China Mobile Com. Corporation | * 29.512 | * 0601 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-205123 | * Correction to FailureCode and SessionFailureCode | * Ericsson | * 29.512 | * 0602 | * - | * Rel-17 | * F | * TEI17, 5GS\_Ph1-CT | * revised |
| * C3-205398 | * Correction to FailureCode and SessionFailureCode | * Ericsson | * 29.512 | * 0602 | * 1 | * Rel-17 | * F | * TEI17, 5GS\_Ph1-CT | * agreed |
| * C3-205124 | * Extension of Policy Decision Failure handling | * Ericsson | * 29.512 | * 0603 | * - | * Rel-17 | * B | * en5GPccSer, TEI17 | * revised |
| * C3-205399 | * Extension of Policy Decision Failure handling | * Ericsson | * 29.512 | * 0603 | * 1 | * Rel-17 | * B | * en5GPccSer, TEI17 | * agreed |
| * C3-205125 | * Correction to SM Policy Association termination due to session rule error | * Ericsson | * 29.512 | * 0604 | * - | * Rel-17 | * F | * TEI17, 5GS\_Ph1-CT | * revised |
| * C3-205436 | * Correction to SM Policy Association termination due to session rule error | * Ericsson | * 29.512 | * 0604 | * 1 | * Rel-17 | * F | * TEI17, 5GS\_Ph1-CT | * agreed |
| * C3-205126 | * Correction to SessionRuleFailureCode | * Ericsson | * 29.512 | * 0605 | * - | * Rel-17 | * F | * TEI17, 5GS\_Ph1-CT | * revised |
| * C3-205400 | * Correction to SessionRuleFailureCode | * Ericsson | * 29.512 | * 0605 | * 1 | * Rel-17 | * F | * TEI17, 5GS\_Ph1-CT | * agreed |
| * C3-205127 | * Correction to usage monitoring control | * Ericsson | * 29.512 | * 0606 | * - | * Rel-17 | * F | * TEI17, 5GS\_Ph1-CT | * agreed |
| * C3-205128 | * Correction to SMF definition for LBO | * Ericsson | * 29.512 | * 0607 | * - | * Rel-17 | * F | * TEI17, 5GS\_Ph1-CT | * agreed |
| * C3-205136 | * Correction to usage report during the policy association termination | * Huawei | * 29.512 | * 0608 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * revised |
| * C3-205445 | * Correction to usage report during the policy association termination | * Huawei | * 29.512 | * 0608 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-205137 | * Correction to usage report during the policy association termination | * Huawei | * 29.512 | * 0609 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * revised |
| * C3-205446 | * Correction to usage report during the policy association termination | * Huawei | * 29.512 | * 0609 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-205138 | * Correction to usage report during the policy association termination | * Huawei | * 29.512 | * 0610 | * - | * Rel-17 | * A | * 5GS\_Ph1-CT | * revised |
| * C3-205447 | * Correction to usage report during the policy association termination | * Huawei | * 29.512 | * 0610 | * 1 | * Rel-17 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-205153 | * Correction to the BDT policy re-negotiation | * Huawei | * 29.512 | * 0611 | * - | * Rel-16 | * F | * eNA | * revised |
| * C3-205449 | * Correction to the BDT policy re-negotiation | * Huawei | * 29.512 | * 0611 | * 1 | * Rel-16 | * F | * eNA | * agreed |
| * C3-205154 | * Correction to the BDT policy re-negotiation | * Huawei | * 29.512 | * 0612 | * - | * Rel-17 | * A | * eNA | * revised |
| * C3-205450 | * Correction to the BDT policy re-negotiation | * Huawei | * 29.512 | * 0612 | * 1 | * Rel-17 | * A | * eNA | * agreed |
| * C3-205160 | * Remove the NW-TT port from the TSN bridge info | * Huawei | * 29.512 | * 0613 | * - | * Rel-16 | * F | * Vertical\_LAN | * revised |
| * C3-205512 | * Remove the NW-TT port from the TSN bridge info | * Huawei, Intel | * 29.512 | * 0613 | * 1 | * Rel-16 | * F | * Vertical\_LAN | * agreed |
| * C3-205161 | * Remove the NW-TT port from the TSN bridge info | * Huawei | * 29.512 | * 0614 | * - | * Rel-17 | * A | * Vertical\_LAN | * revised |
| * C3-205513 | * Remove the NW-TT port from the TSN bridge info | * Huawei, Intel | * 29.512 | * 0614 | * 1 | * Rel-17 | * A | * Vertical\_LAN | * agreed |
| * C3-205167 | * PCC control for DDD status and availability after DDN failure events | * Huawei | * 29.512 | * 0615 | * - | * Rel-16 | * F | * 5G\_CIoT | * postponed |
| * C3-205168 | * PCC control for DDD status and availability after DDN failure events | * Huawei | * 29.512 | * 0616 | * - | * Rel-17 | * A | * 5G\_CIoT | * postponed |
| * C3-205170 | * Storage of YAML files in 3GPP Forge | * Huawei | * 29.512 | * 0617 | * - | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-205171 | * Storage of YAML files in 3GPP Forge | * Huawei | * 29.512 | * 0618 | * - | * Rel-17 | * A | * SBIProtoc16 | * agreed |
| * C3-205174 | * Correction to Alternative QoS Parameter | * Huawei | * 29.512 | * 0619 | * - | * Rel-16 | * F | * eV2XARC | * revised |
| * C3-205457 | * Correction to Alternative QoS Parameter | * Huawei | * 29.512 | * 0619 | * 1 | * Rel-16 | * F | * eV2XARC | * revised |
| * C3-205607 | * Correction to Alternative QoS Parameter | * Huawei | * 29.512 | * 0619 | * 2 | * Rel-16 | * F | * eV2XARC | * agreed |
| * C3-205175 | * Correction to Alternative QoS Parameter | * Huawei | * 29.512 | * 0620 | * - | * Rel-17 | * A | * eV2XARC | * revised |
| * C3-205458 | * Correction to Alternative QoS Parameter | * Huawei | * 29.512 | * 0620 | * 1 | * Rel-17 | * A | * eV2XARC | * revised |
| * C3-205608 | * Correction to Alternative QoS Parameter | * Huawei | * 29.512 | * 0620 | * 2 | * Rel-17 | * A | * eV2XARC | * agreed |
| * C3-205177 | * Correction to access network information report | * Huawei | * 29.512 | * 0621 | * - | * Rel-16 | * F | * TEI16, 5GS\_Ph1-CT | * merged |
| * C3-205178 | * Correction to access network information report | * Huawei | * 29.512 | * 0622 | * - | * Rel-17 | * A | * TEI16, 5GS\_Ph1-CT | * merged |
| * C3-205179 | * Location change (serving cell) for Policy Control Request Trigger | * Huawei | * 29.512 | * 0623 | * - | * Rel-16 | * F | * TEI16, 5GS\_Ph1-CT | * merged |
| * C3-205180 | * Location change (serving cell) for Policy Control Request Trigger | * Huawei | * 29.512 | * 0624 | * - | * Rel-17 | * A | * TEI16, 5GS\_Ph1-CT | * merged |
| * C3-205210 | * QoS monitoring report at PDU session termination | * ZTE | * 29.512 | * 0625 | * - | * Rel-16 | * F | * 5G\_URLLC | * revised |
| * C3-205469 | * QoS monitoring report at PDU session termination | * ZTE | * 29.512 | * 0625 | * 1 | * Rel-16 | * F | * 5G\_URLLC | * agreed |
| * C3-205211 | * QoS monitoring report at PDU session termination | * ZTE | * 29.512 | * 0626 | * - | * Rel-17 | * A | * 5G\_URLLC | * revised |
| * C3-205470 | * QoS monitoring report at PDU session termination | * ZTE | * 29.512 | * 0626 | * 1 | * Rel-17 | * A | * 5G\_URLLC | * agreed |
| * C3-205239 | * QoS Monitoring corrections | * Ericsson | * 29.512 | * 0627 | * - | * Rel-16 | * F | * 5G\_URLLC | * revised |
| * C3-205422 | * QoS Monitoring corrections | * Ericsson | * 29.512 | * 0627 | * 1 | * Rel-16 | * F | * 5G\_URLLC | * agreed |
| * C3-205240 | * QoS Monitoring corrections | * Ericsson | * 29.512 | * 0628 | * - | * Rel-17 | * A | * 5G\_URLLC | * revised |
| * C3-205423 | * QoS Monitoring corrections | * Ericsson | * 29.512 | * 0628 | * 1 | * Rel-17 | * A | * 5G\_URLLC | * agreed |
| * C3-205346 | * Updates to support User Location Change | * Ericsson, China Mobile | * 29.512 | * 0629 | * - | * Rel-17 | * B | * 5GS\_Ph1-CT, TEI17 | * revised |
| * C3-205402 | * Updates to support User Location Change | * Ericsson, China Mobile | * 29.512 | * 0629 | * 1 | * Rel-17 | * B | * 5GS\_Ph1-CT, TEI17 | * agreed |
| * C3-205355 | * Location change (serving cell) for Policy Control Request Trigger | * China Mobile Communications Group Co.,Ltd., Ericsson | * 29.512 | * 0630 | * - | * Rel-16 | * F | * en5GPccSer | * revised |
| * C3-205582 | * Location change (serving cell) for Policy Control Request Trigger | * China Mobile Communications Group Co.,Ltd., Ericsson, Huawei | * 29.512 | * 0630 | * 1 | * Rel-16 | * F | * en5GPccSer | * agreed |
| * C3-205356 | * Location change (serving cell) for Policy Control Request Trigger | * China Mobile Communications Group Co.,Ltd., Ericsson | * 29.512 | * 0631 | * - | * Rel-17 | * A | * en5GPccSer | * revised |
| * C3-205583 | * Location change (serving cell) for Policy Control Request Trigger | * China Mobile Communications Group Co.,Ltd., Ericsson, Huawei | * 29.512 | * 0631 | * 1 | * Rel-17 | * A | * en5GPccSer | * agreed |
| * C3-205500 | * Update of OpenAPI version and TS version in externalDocs field | * Huawei Technologies R&D UK | * 29.512 | * 0632 | * - | * Rel-16 | * F | * TEI16 | * agreed |
| * C3-205501 | * Update of OpenAPI version and TS version in externalDocs field | * Huawei Technologies R&D UK | * 29.512 | * 0633 | * - | * Rel-17 | * F | * TEI17 | * agreed |
| * C3-205037 | * TS 29.513 Usage of PCF Group ID for PCF selection when delegated discovery is used | * Huawei | * 29.513 | * 0193 | * - | * Rel-16 | * F | * 5G\_eSBA | * revised |
| * C3-205493 | * TS 29.513 Usage of PCF Group ID for PCF selection when delegated discovery is used | * Huawei, Ericsson | * 29.513 | * 0193 | * 1 | * Rel-16 | * F | * 5G\_eSBA | * agreed |
| * C3-205038 | * TS 29.513 Usage of PCF Group ID for PCF selection when delegated discovery is used | * Huawei | * 29.513 | * 0194 | * - | * Rel-17 | * A | * 5G\_eSBA | * revised |
| * C3-205494 | * TS 29.513 Usage of PCF Group ID for PCF selection when delegated discovery is used | * Huawei, Ericsson | * 29.513 | * 0194 | * 1 | * Rel-17 | * A | * 5G\_eSBA | * agreed |
| * C3-205068 | * TS 29.513 Wrong references correction | * Huawei | * 29.513 | * 0195 | * - | * Rel-16 | * F | * SBIProtoc16 | * merged |
| * C3-205069 | * TS 29.513 Wrong references correction | * Huawei | * 29.513 | * 0196 | * - | * Rel-17 | * A | * SBIProtoc16 | * merged |
| * C3-205121 | * Correction to PCF Discovery and Selection | * Ericsson | * 29.513 | * 0197 | * - | * Rel-16 | * F | * 5G\_eSBA | * merged |
| * C3-205122 | * Correction to PCF Discovery and Selection | * Ericsson | * 29.513 | * 0198 | * - | * Rel-17 | * A | * 5G\_eSBA | * merged |
| * C3-205129 | * Correction to Notification response receiver | * Ericsson | * 29.513 | * 0199 | * - | * Rel-17 | * F | * TEI17, 5G\_URLLC | * agreed |
| * C3-205130 | * Correction to pending transactions | * Ericsson | * 29.513 | * 0200 | * - | * Rel-17 | * F | * en5GPccSer, TEI17 | * agreed |
| * C3-205131 | * Correction to SM policy association modification procedure | * Ericsson | * 29.513 | * 0201 | * - | * Rel-17 | * F | * TEI17, 5GS\_Ph1-CT | * revised |
| * C3-205401 | * Correction to SM policy association modification procedure | * Ericsson | * 29.513 | * 0201 | * 1 | * Rel-17 | * F | * TEI17, 5GS\_Ph1-CT | * agreed |
| * C3-205141 | * Correction to PFD retrieval in PULL mode | * Huawei | * 29.513 | * 0202 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-205142 | * Correction to PFD retrieval in PULL mode | * Huawei | * 29.513 | * 0203 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-205143 | * Correction to PFD retrieval in PULL mode | * Huawei | * 29.513 | * 0204 | * - | * Rel-17 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-205183 | * Procedure of PUSH notification | * Huawei | * 29.513 | * 0205 | * - | * Rel-17 | * B | * pfdManEnh | * revised |
| * C3-205544 | * Procedure of PUSH notification | * Huawei | * 29.513 | * 0205 | * 1 | * Rel-17 | * B | * pfdManEnh | * agreed |
| * C3-205202 | * Correction to traffic influence procedures | * ZTE | * 29.513 | * 0206 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * revised |
| * C3-205464 | * Correction to traffic influence procedures | * ZTE | * 29.513 | * 0206 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-205203 | * Correction to traffic influence procedures | * ZTE | * 29.513 | * 0207 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * revised |
| * C3-205465 | * Correction to traffic influence procedures | * ZTE | * 29.513 | * 0207 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-205204 | * Correction to traffic influence procedures | * ZTE | * 29.513 | * 0208 | * - | * Rel-17 | * A | * 5GS\_Ph1-CT | * revised |
| * C3-205466 | * Correction to traffic influence procedures | * ZTE | * 29.513 | * 0208 | * 1 | * Rel-17 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-205347 | * Correction to Alternative QoS parameter mapping | * Ericsson | * 29.513 | * 0209 | * - | * Rel-16 | * F | * eV2XARC | * agreed |
| * C3-205348 | * Correction to Alternative QoS parameter mapping | * Ericsson | * 29.513 | * 0210 | * - | * Rel-17 | * A | * eV2XARC | * agreed |
| * C3-205349 | * Correction to Alternative QoS as binding parameter | * Ericsson | * 29.513 | * 0211 | * - | * Rel-16 | * F | * eV2XARC | * revised |
| * C3-205434 | * Correction to Alternative QoS as binding parameter | * Ericsson | * 29.513 | * 0211 | * 1 | * Rel-16 | * F | * eV2XARC | * agreed |
| * C3-205350 | * Correction to Alternative QoS as binding parameter | * Ericsson | * 29.513 | * 0212 | * - | * Rel-17 | * A | * eV2XARC | * revised |
| * C3-205435 | * Correction to Alternative QoS as binding parameter | * Ericsson | * 29.513 | * 0212 | * 1 | * Rel-17 | * A | * eV2XARC | * agreed |
| * C3-205351 | * Modification of UE Policy related clauses to support URSP rules for 5G VN Group | * Ericsson | * 29.513 | * 0213 | * - | * Rel-16 | * F | * Vertical\_LAN | * revised |
| * C3-205411 | * Modification of UE Policy related clauses to support URSP rules for 5G VN Group | * Ericsson | * 29.513 | * 0213 | * 1 | * Rel-16 | * F | * Vertical\_LAN | * agreed |
| * C3-205352 | * Modification of UE Policy related clauses to support URSP rules for 5G VN Group | * Ericsson | * 29.513 | * 0214 | * - | * Rel-17 | * A | * eV2XARC | * revised |
| * C3-205412 | * Modification of UE Policy related clauses to support URSP rules for 5G VN Group | * Ericsson | * 29.513 | * 0214 | * 1 | * Rel-17 | * A | * Vertical\_LAN | * agreed |
| * C3-205048 | * TS 29.514 Essential Corrections and alignments | * Huawei | * 29.514 | * 0262 | * - | * Rel-16 | * F | * SBIProtoc16 | * revised |
| * C3-205524 | * TS 29.514 Essential Corrections and alignments | * Huawei | * 29.514 | * 0262 | * 1 | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-205082 | * SBI Message Priority mechanism for emergency session | * Nokia, Nokia Shanghai Bell | * 29.514 | * 0263 | * - | * Rel-16 | * F | * eIMS5G\_SBA | * revised |
| * C3-205378 | * SBI Message Priority mechanism for emergency session | * Nokia, Nokia Shanghai Bell | * 29.514 | * 0263 | * 1 | * Rel-16 | * F | * eIMS5G\_SBA | * agreed |
| * C3-205139 | * Correction to ACCESS\_TYPE\_CHANGE | * Huawei | * 29.514 | * 0264 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-205140 | * Correction to ACCESS\_TYPE\_CHANGE | * Huawei | * 29.514 | * 0265 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-205162 | * Remove the NW-TT port from the TSN bridge info | * Huawei | * 29.514 | * 0266 | * - | * Rel-16 | * F | * Vertical\_LAN | * revised |
| * C3-205514 | * Remove the NW-TT port from the TSN bridge info | * Huawei | * 29.514 | * 0266 | * 1 | * Rel-16 | * F | * Vertical\_LAN | * agreed |
| * C3-205176 | * Correction to Alternative QoS Parameter | * Huawei | * 29.514 | * 0267 | * - | * Rel-16 | * F | * eV2XARC | * revised |
| * C3-205467 | * Correction to Alternative QoS Parameter | * Huawei | * 29.514 | * 0267 | * 1 | * Rel-16 | * F | * eV2XARC | * agreed |
| * C3-205200 | * Corrections to referred attributes | * ZTE | * 29.514 | * 0268 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * revised |
| * C3-205462 | * Corrections to referred attributes | * ZTE | * 29.514 | * 0268 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-205201 | * Corrections to referred attributes | * ZTE | * 29.514 | * 0269 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * revised |
| * C3-205463 | * Corrections to referred attributes | * ZTE | * 29.514 | * 0269 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-205208 | * Corrections on QoS monitoring | * ZTE | * 29.514 | * 0270 | * - | * Rel-16 | * F | * 5G\_URLLC | * agreed |
| * C3-205212 | * QoS monitoring report at PDU session termination | * ZTE | * 29.514 | * 0271 | * - | * Rel-16 | * F | * 5G\_URLLC | * revised |
| * C3-205471 | * QoS monitoring report at PDU session termination | * ZTE | * 29.514 | * 0271 | * 1 | * Rel-16 | * F | * 5G\_URLLC | * agreed |
| * C3-205232 | * Storage of YAML files in ETSI Forge | * Ericsson | * 29.514 | * 0272 | * - | * Rel-16 | * F | * SBIProtoc16 | * revised |
| * C3-205415 | * Storage of YAML files in ETSI Forge | * Ericsson | * 29.514 | * 0272 | * 1 | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-205299 | * Correction to support redirection codes and callback URI and subsc correl updates | * Ericsson | * 29.514 | * 0273 | * - | * Rel-16 | * F | * 5G\_eSBA | * revised |
| * C3-205430 | * Correction to support redirection codes and callback URI and subsc correl updates | * Ericsson | * 29.514 | * 0273 | * 1 | * Rel-16 | * F | * 5G\_eSBA | * agreed |
| * C3-205604 | * Update of OpenAPI version and TS version in externalDocs field | * Ericsson | * 29.514 | * 0274 | * - | * Rel-16 | * F | * TEI16 | * agreed |
| * C3-205049 | * TS 29.517 Essential Corrections and alignments | * Huawei | * 29.517 | * 0021 | * - | * Rel-16 | * F | * SBIProtoc16 | * revised |
| * C3-205525 | * TS 29.517 Essential Corrections and alignments | * Huawei | * 29.517 | * 0021 | * 1 | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-205186 | * Storage of YAML files in 3GPP Forge | * Huawei | * 29.517 | * 0022 | * - | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-205218 | * Removal of trailing forward slash in resource URI | * ZTE | * 29.517 | * 0023 | * - | * Rel-16 | * F | * eNA | * revised |
| * C3-205476 | * Removal of trailing forward slash in resource URI | * ZTE | * 29.517 | * 0023 | * 1 | * Rel-16 | * F | * eNA | * agreed |
| * C3-205247 | * Callback URI correction | * Huawei | * 29.517 | * 0024 | * - | * Rel-16 | * F | * SBIProtoc16 | * revised |
| * C3-205549 | * Callback URI correction | * Huawei | * 29.517 | * 0024 | * 1 | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-205326 | * Corrections to location area usage | * Ericsson | * 29.517 | * 0025 | * - | * Rel-17 | * F | * eNA, TEI17 | * revised |
| * C3-205386 | * Corrections to location area usage | * Ericsson | * 29.517 | * 0025 | * 1 | * Rel-17 | * F | * eNA, TEI17 | * agreed |
| * C3-205333 | * Correction to SvcExperience | * Ericsson, China Mobile | * 29.517 | * 0026 | * - | * Rel-17 | * F | * eNA, TEI17 | * postponed |
| * C3-205609 | * Update of OpenAPI version and TS version in externalDocs field | * Huawei | * 29.517 | * 0027 | * - | * Rel-16 | * F | * TEI16 | * agreed |
| * C3-205050 | * TS 29.519 Essential Corrections and alignments | * Huawei | * 29.519 | * 0215 | * - | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-205051 | * TS 29.519 Essential Corrections and alignments | * Huawei | * 29.519 | * 0216 | * - | * Rel-17 | * A | * SBIProtoc16 | * agreed |
| * C3-205073 | * Correction to support NEF binding indication | * Ericsson | * 29.519 | * 0217 | * - | * Rel-16 | * F | * 5G\_eSBA | * revised |
| * C3-205409 | * Correction to support NEF binding indication | * Ericsson | * 29.519 | * 0217 | * 1 | * Rel-16 | * F | * 5G\_eSBA | * agreed |
| * C3-205074 | * Correction to support NEF binding indication | * Ericsson | * 29.519 | * 0218 | * - | * Rel-17 | * A | * 5G\_eSBA | * revised |
| * C3-205410 | * Correction to support NEF binding indication | * Ericsson | * 29.519 | * 0218 | * 1 | * Rel-17 | * A | * 5G\_eSBA | * agreed |
| * C3-205155 | * Correction to the BDT policy re-negotiation | * Huawei | * 29.519 | * 0219 | * - | * Rel-16 | * F | * eNA | * revised |
| * C3-205451 | * Correction to the BDT policy re-negotiation | * Huawei, Ericsson | * 29.519 | * 0219 | * 1 | * Rel-16 | * F | * eNA | * agreed |
| * C3-205156 | * Correction to the BDT policy re-negotiation | * Huawei | * 29.519 | * 0220 | * - | * Rel-17 | * A | * eNA | * revised |
| * C3-205452 | * Correction to the BDT policy re-negotiation | * Huawei, Ericsson | * 29.519 | * 0220 | * 1 | * Rel-17 | * A | * eNA | * agreed |
| * C3-205187 | * Storage of YAML files in 3GPP Forge | * Huawei | * 29.519 | * 0221 | * - | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-205188 | * Storage of YAML files in 3GPP Forge | * Huawei | * 29.519 | * 0222 | * - | * Rel-17 | * A | * SBIProtoc16 | * agreed |
| * C3-205223 | * Data retrieval of multiple policy data sets | * Nokia, Nokia Shanghai Bell | * 29.519 | * 0223 | * - | * Rel-17 | * B | * TEI17 | * revised |
| * C3-205365 | * Data retrieval of multiple policy data sets | * Nokia, Nokia Shanghai Bell | * 29.519 | * 0223 | * 1 | * Rel-17 | * B | * TEI17 | * revised |
| * C3-205499 | * Data retrieval of multiple policy data sets | * Nokia, Nokia Shanghai Bell | * 29.519 | * 0223 | * 2 | * Rel-17 | * B | * TEI17 | * agreed |
| * C3-205230 | * MA Support indication within UE Context policy control subscription information | * Ericsson | * 29.519 | * 0224 | * - | * Rel-16 | * F | * ATSSS | * agreed |
| * C3-205231 | * MA Support indication within UE Context policy control subscription information | * Ericsson | * 29.519 | * 0225 | * - | * Rel-17 | * A | * ATSSS | * agreed |
| * C3-205248 | * Callback URI correction | * Huawei | * 29.519 | * 0226 | * - | * Rel-16 | * F | * SBIProtoc16 | * revised |
| * C3-205550 | * Callback URI correction | * Huawei | * 29.519 | * 0226 | * 1 | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-205249 | * Callback URI correction | * Huawei | * 29.519 | * 0227 | * - | * Rel-17 | * A | * SBIProtoc16 | * revised |
| * C3-205551 | * Callback URI correction | * Huawei | * 29.519 | * 0227 | * 1 | * Rel-17 | * A | * SBIProtoc16 | * agreed |
| * C3-205563 | * Update of TS version in externalDocs field | * Huawei | * 29.519 | * 0228 | * - | * Rel-16 | * F | * TEI16 | * agreed |
| * C3-205564 | * Update of TS version in externalDocs field | * Huawei | * 29.519 | * 0229 | * - | * Rel-17 | * F | * TEI17 | * agreed |
| * C3-205052 | * TS 29.520 Essential Corrections and alignments | * Huawei | * 29.520 | * 0222 | * - | * Rel-16 | * F | * SBIProtoc16 | * revised |
| * C3-205526 | * TS 29.520 Essential Corrections and alignments | * Huawei | * 29.520 | * 0222 | * 1 | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-205053 | * TS 29.520 Essential Corrections and alignments | * Huawei | * 29.520 | * 0223 | * - | * Rel-17 | * A | * SBIProtoc16 | * revised |
| * C3-205527 | * TS 29.520 Essential Corrections and alignments | * Huawei | * 29.520 | * 0223 | * 1 | * Rel-17 | * A | * SBIProtoc16 | * agreed |
| * C3-205226 | * Correction to notificationURI attribute | * Ericsson | * 29.520 | * 0224 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * revised |
| * C3-205440 | * Correction to notificationURI attribute | * Ericsson | * 29.520 | * 0224 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-205227 | * Correction to notificationURI attribute | * Ericsson | * 29.520 | * 0225 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * revised |
| * C3-205441 | * Correction to notificationURI attribute | * Ericsson | * 29.520 | * 0225 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-205228 | * Correction to notificationURI attribute | * Ericsson | * 29.520 | * 0226 | * - | * Rel-17 | * A | * 5GS\_Ph1-CT | * revised |
| * C3-205442 | * Correction to notificationURI attribute | * Ericsson | * 29.520 | * 0226 | * 1 | * Rel-17 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-205254 | * Mapping of expected analytics types and exception Ids | * Huawei | * 29.520 | * 0227 | * - | * Rel-16 | * F | * eNA | * agreed |
| * C3-205255 | * Mapping of expected analytics types and exception Ids | * Huawei | * 29.520 | * 0228 | * - | * Rel-17 | * A | * eNA | * agreed |
| * C3-205272 | * Analytics report correction | * Huawei | * 29.520 | * 0229 | * - | * Rel-16 | * F | * eNA | * revised |
| * C3-205540 | * Analytics report correction | * Huawei | * 29.520 | * 0229 | * 1 | * Rel-16 | * F | * eNA | * agreed |
| * C3-205273 | * Analytics report correction | * Huawei | * 29.520 | * 0230 | * - | * Rel-17 | * A | * eNA | * revised |
| * C3-205541 | * Analytics report correction | * Huawei | * 29.520 | * 0230 | * 1 | * Rel-17 | * A | * eNA | * agreed |
| * C3-205274 | * Error response for statistics request | * Huawei | * 29.520 | * 0231 | * - | * Rel-16 | * F | * eNA | * revised |
| * C3-205610 | * Error response for statistics request | * Huawei, Ericsson | * 29.520 | * 0231 | * 1 | * Rel-16 | * F | * eNA | * agreed |
| * C3-205275 | * Error response for statistics request | * Huawei | * 29.520 | * 0232 | * - | * Rel-17 | * A | * eNA | * revised |
| * C3-205611 | * Error response for statistics request | * Huawei, Ericsson | * 29.520 | * 0232 | * 1 | * Rel-17 | * A | * eNA | * agreed |
| * C3-205280 | * S-NSSAI applicability | * Huawei | * 29.520 | * 0233 | * - | * Rel-16 | * F | * eNA | * agreed |
| * C3-205281 | * S-NSSAI applicability | * Huawei | * 29.520 | * 0234 | * - | * Rel-17 | * A | * eNA | * agreed |
| * C3-205282 | * Feature for nsiLevelThrds attribute | * Huawei | * 29.520 | * 0235 | * - | * Rel-16 | * F | * eNA | * revised |
| * C3-205395 | * Feature for nsiLevelThrds attribute | * Huawei, Ericsson | * 29.520 | * 0235 | * 1 | * Rel-16 | * F | * eNA | * agreed |
| * C3-205283 | * Feature for nsiLevelThrds attribute | * Huawei | * 29.520 | * 0236 | * - | * Rel-17 | * A | * eNA | * revised |
| * C3-205396 | * Feature for nsiLevelThrds attribute | * Huawei, Ericsson | * 29.520 | * 0236 | * 1 | * Rel-17 | * A | * eNA | * agreed |
| * C3-205322 | * Corrections to any UE of Service Experience Analytics | * Ericsson | * 29.520 | * 0237 | * - | * Rel-16 | * F | * eNA | * revised |
| * C3-205381 | * Correction to suips of Service Experience Analytics | * Ericsson | * 29.520 | * 0237 | * 1 | * Rel-16 | * F | * eNA | * agreed |
| * C3-205323 | * Corrections to any UE of Service Experience Analytics | * Ericsson | * 29.520 | * 0238 | * - | * Rel-17 | * A | * eNA, TEI17 | * revised |
| * C3-205382 | * Correction to supis of Service Experience Analytics | * Ericsson | * 29.520 | * 0238 | * 1 | * Rel-17 | * A | * eNA | * agreed |
| * C3-205324 | * Updates CEF as NWDAF consumer of Nnwdaf\_EventsSubscription service | * Ericsson | * 29.520 | * 0239 | * - | * Rel-16 | * F | * eNA | * revised |
| * C3-205383 | * Updates CEF as NWDAF consumer of Nnwdaf\_EventsSubscription service | * Ericsson, Huawei | * 29.520 | * 0239 | * 1 | * Rel-16 | * F | * eNA | * agreed |
| * C3-205384 | * Updates CEF as NWDAF consumer of Nnwdaf\_EventsSubscription service | * Ericsson | * 29.520 | * 0239 | * 2 | * Rel-16 | * F | * eNA | * withdrawn |
| * C3-205325 | * Updates CEF as NWDAF consumer of Nnwdaf\_EventsSubscription service | * Ericsson | * 29.520 | * 0240 | * - | * Rel-17 | * A | * eNA, TEI17 | * revised |
| * C3-205385 | * Updates CEF as NWDAF consumer of Nnwdaf\_EventsSubscription service | * Ericsson, Huawei | * 29.520 | * 0240 | * 1 | * Rel-17 | * A | * eNA | * agreed |
| * C3-205329 | * Updates with error response indicating unavailable statistics | * Ericsson | * 29.520 | * 0241 | * - | * Rel-17 | * F | * eNA, TEI17 | * merged |
| * C3-205330 | * Corrections to Validity Period | * Ericsson | * 29.520 | * 0242 | * - | * Rel-17 | * F | * eNA, TEI17 | * revised |
| * C3-205612 | * Corrections to Validity Period | * Ericsson | * 29.520 | * 0242 | * 1 | * Rel-17 | * F | * eNA, TEI17 | * agreed |
| * C3-205331 | * Correctionsn to Threshold | * Ericsson | * 29.520 | * 0243 | * - | * Rel-16 | * F | * eNA | * revised |
| * C3-205601 | * Correctionsn to Threshold | * Ericsson, China Mobile | * 29.520 | * 0243 | * 1 | * Rel-16 | * F | * eNA | * agreed |
| * C3-205332 | * Correctionsn to Threshold | * Ericsson | * 29.520 | * 0244 | * - | * Rel-17 | * A | * eNA, TEI17 | * revised |
| * C3-205603 | * Correctionsn to Threshold | * Ericsson, China Mobile | * 29.520 | * 0244 | * 1 | * Rel-17 | * A | * eNA | * agreed |
| * C3-205587 | * Update of OpenAPI version and TS version in externalDocs field | * China Mobile Com. Corporation | * 29.520 | * 0245 | * - | * Rel-16 | * F | * TEI16 | * agreed |
| * C3-205588 | * Update of OpenAPI version and TS version in externalDocs field | * China Mobile Com. Corporation | * 29.520 | * 0246 | * - | * Rel-17 | * F | * TEI17 | * agreed |
| * C3-205054 | * TS 29.521 Essential Corrections and alignments | * Huawei | * 29.521 | * 0093 | * - | * Rel-16 | * F | * SBIProtoc16 | * revised |
| * C3-205528 | * TS 29.521 Essential Corrections and alignments | * Huawei | * 29.521 | * 0093 | * 1 | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-205055 | * TS 29.522 Essential Corrections and alignments | * Huawei | * 29.522 | * 0219 | * - | * Rel-16 | * F | * SBIProtoc16 | * revised |
| * C3-205529 | * TS 29.522 Essential Corrections and alignments | * Huawei | * 29.522 | * 0219 | * 1 | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-205094 | * Essential corrections and alignments | * Huawei | * 29.522 | * 0220 | * - | * Rel-16 | * F | * 5G\_eLCS | * revised |
| * C3-205444 | * Essential corrections and alignments | * Huawei | * 29.522 | * 0220 | * 1 | * Rel-16 | * F | * 5G\_eLCS | * agreed |
| * C3-205173 | * Correction to Alternative QoS Parameter | * Huawei | * 29.522 | * 0221 | * - | * Rel-16 | * F | * eV2XARC | * agreed |
| * C3-205189 | * Storage of YAML files in 3GPP Forge | * Huawei | * 29.522 | * 0222 | * - | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-205209 | * array QosMonitoringReport | * ZTE | * 29.522 | * 0223 | * - | * Rel-16 | * F | * 5G\_URLLC | * agreed |
| * C3-205250 | * Callback URI correction | * Huawei | * 29.522 | * 0224 | * - | * Rel-16 | * F | * SBIProtoc16 | * revised |
| * C3-205552 | * Callback URI correction | * Huawei | * 29.522 | * 0224 | * 1 | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-205252 | * Procedures of Nnef\_AKMA service | * Huawei, China Mobile | * 29.522 | * 0225 | * - | * Rel-17 | * B | * AKMA-CT | * revised |
| * C3-205366 | * Procedures of Nnef\_AKMA service | * Huawei, China Mobile | * 29.522 | * 0225 | * 1 | * Rel-17 | * B | * AKMA-CT | * agreed |
| * C3-205253 | * API definition of Nnef\_AKMA service | * Huawei, China Mobile | * 29.522 | * 0226 | * - | * Rel-17 | * B | * AKMA-CT | * revised |
| * C3-205367 | * API definition of Nnef\_AKMA service | * Huawei, China Mobile | * 29.522 | * 0226 | * 1 | * Rel-17 | * B | * AKMA-CT | * agreed |
| * C3-205267 | * Difference between 4G and 5G for ECRControl API | * Huawei | * 29.522 | * 0227 | * - | * Rel-16 | * F | * 5G\_CIoT | * agreed |
| * C3-205268 | * PDU session status | * Huawei | * 29.522 | * 0228 | * - | * Rel-16 | * F | * 5G\_CIoT | * agreed |
| * C3-205270 | * Faliure response correction | * Huawei | * 29.522 | * 0229 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-205286 | * Solve IP address overlapping for AF traffic influence | * Ericsson | * 29.522 | * 0230 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * revised |
| * C3-205480 | * Solve IP address overlapping for AF traffic influence | * Ericsson, Huawei, China Mobile | * 29.522 | * 0230 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-205287 | * Solve IP address overlapping for AF traffic influence | * Ericsson | * 29.522 | * 0231 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * revised |
| * C3-205481 | * Solve IP address overlapping for AF traffic influence | * Ericsson, Huawei, China Mobile | * 29.522 | * 0231 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-205320 | * Corrections to Subscription Request in AnalyticsExposure API | * Ericsson | * 29.522 | * 0232 | * - | * Rel-16 | * F | * eNA | * revised |
| * C3-205379 | * Corrections to Subscription Request in AnalyticsExposure API | * Ericsson | * 29.522 | * 0232 | * 1 | * Rel-16 | * F | * eNA | * agreed |
| * C3-205321 | * Corrections to snssai dnn and appId exposed in AnalyticsExposure API | * Ericsson | * 29.522 | * 0233 | * - | * Rel-16 | * F | * eNA | * revised |
| * C3-205380 | * Correction to appId exposed in AnalyticsExposure API | * Ericsson | * 29.522 | * 0233 | * 1 | * Rel-16 | * F | * eNA | * agreed |
| * C3-205328 | * Corrections to location area usage | * Ericsson | * 29.522 | * 0234 | * - | * Rel-17 | * F | * eNA, TEI17 | * revised |
| * C3-205388 | * Corrections to location area usage | * Ericsson | * 29.522 | * 0234 | * 1 | * Rel-17 | * F | * eNA, TEI17 | * agreed |
| * C3-205489 | * Update of OpenAPI version and TS version in externalDocs field | * Huawei | * 29.522 | * 0235 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-205560 | * Update of OpenAPI version and TS version in externalDocs field | * Huawei | * 29.522 | * 0236 | * - | * Rel-16 | * F | * TEI16 | * agreed |
| * C3-205056 | * TS 29.523 Essential Corrections and alignments | * Huawei | * 29.523 | * 0032 | * - | * Rel-16 | * F | * SBIProtoc16 | * revised |
| * C3-205530 | * TS 29.523 Essential Corrections and alignments | * Huawei | * 29.523 | * 0032 | * 1 | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-205057 | * TS 29.523 Essential Corrections and alignments | * Huawei | * 29.523 | * 0033 | * - | * Rel-17 | * A | * SBIProtoc16 | * revised |
| * C3-205531 | * TS 29.523 Essential Corrections and alignments | * Huawei | * 29.523 | * 0033 | * 1 | * Rel-17 | * A | * SBIProtoc16 | * agreed |
| * C3-205233 | * Storage of YAML files in ETSI Forge | * Ericsson | * 29.523 | * 0034 | * - | * Rel-16 | * F | * SBIProtoc16 | * revised |
| * C3-205416 | * Storage of YAML files in ETSI Forge | * Ericsson | * 29.523 | * 0034 | * 1 | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-205234 | * Storage of YAML files in ETSI Forge | * Ericsson | * 29.523 | * 0035 | * - | * Rel-17 | * A | * SBIProtoc16 | * revised |
| * C3-205417 | * Storage of YAML files in ETSI Forge | * Ericsson | * 29.523 | * 0035 | * 1 | * Rel-17 | * A | * SBIProtoc16 | * agreed |
| * C3-205264 | * Combination of DNN and S-NSSAI | * Huawei | * 29.523 | * 0036 | * - | * Rel-16 | * F | * TEI16 | * not pursued |
| * C3-205265 | * Combination of DNN and S-NSSAI | * Huawei | * 29.523 | * 0037 | * - | * Rel-17 | * A | * TEI16 | * revised |
| * C3-205554 | * Combination of DNN and S-NSSAI | * Huawei | * 29.523 | * 0037 | * 1 | * Rel-17 | * F | * TEI17 | * agreed |
| * C3-205300 | * Correction to support Stateless NFs | * Ericsson | * 29.523 | * 0038 | * - | * Rel-16 | * F | * 5G\_eSBA | * revised |
| * C3-205431 | * Correction to support Stateless NFs | * Ericsson | * 29.523 | * 0038 | * 1 | * Rel-16 | * F | * 5G\_eSBA | * agreed |
| * C3-205301 | * Correction to support Stateless NFs | * Ericsson | * 29.523 | * 0039 | * - | * Rel-17 | * A | * 5G\_eSBA | * revised |
| * C3-205432 | * Correction to support Stateless NFs | * Ericsson | * 29.523 | * 0039 | * 1 | * Rel-17 | * A | * 5G\_eSBA | * agreed |
| * C3-205605 | * Update of OpenAPI version and TS version in externalDocs field | * Ericsson | * 29.523 | * 0040 | * - | * Rel-16 | * F | * TEI16 | * agreed |
| * C3-205606 | * Update of OpenAPI version and TS version in externalDocs field | * Ericsson | * 29.523 | * 0041 | * - | * Rel-17 | * F | * TEI17 | * agreed |
| * C3-205058 | * TS 29.525 Essential Corrections and alignments | * Huawei | * 29.525 | * 0114 | * - | * Rel-16 | * F | * SBIProtoc16 | * revised |
| * C3-205532 | * TS 29.525 Essential Corrections and alignments | * Huawei | * 29.525 | * 0114 | * 1 | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-205059 | * TS 29.525 Essential Corrections and alignments | * Huawei | * 29.525 | * 0115 | * - | * Rel-17 | * A | * SBIProtoc16 | * revised |
| * C3-205533 | * TS 29.525 Essential Corrections and alignments | * Huawei | * 29.525 | * 0115 | * 1 | * Rel-17 | * A | * SBIProtoc16 | * agreed |
| * C3-205077 | * Storage of YAML files in 3GPP Forge | * Nokia, Nokia Shanghai Bell | * 29.525 | * 0116 | * - | * Rel-16 | * F | * SBIProtoc16 | * revised |
| * C3-205372 | * Storage of YAML files in 3GPP Forge | * Nokia, Nokia Shanghai Bell | * 29.525 | * 0116 | * 1 | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-205081 | * Storage of YAML files in 3GPP Forge | * Nokia, Nokia Shanghai Bell | * 29.525 | * 0117 | * - | * Rel-17 | * A | * SBIProtoc16 | * revised |
| * C3-205376 | * Storage of YAML files in 3GPP Forge | * Nokia, Nokia Shanghai Bell | * 29.525 | * 0117 | * 1 | * Rel-17 | * A | * SBIProtoc16 | * agreed |
| * C3-205098 | * Correction to PRA | * Ericsson | * 29.525 | * 0118 | * - | * Rel-16 | * F | * TEI16, 5GS\_Ph1-CT | * revised |
| * C3-205426 | * Correction to PRA | * Ericsson | * 29.525 | * 0118 | * 1 | * Rel-16 | * F | * TEI16, 5GS\_Ph1-CT | * agreed |
| * C3-205099 | * Correction to PRA | * Ericsson | * 29.525 | * 0119 | * - | * Rel-17 | * A | * TEI16, 5GS\_Ph1-CT | * revised |
| * C3-205427 | * Correction to PRA | * Ericsson | * 29.525 | * 0119 | * 1 | * Rel-17 | * A | * TEI16, 5GS\_Ph1-CT | * agreed |
| * C3-205157 | * Correction to the BDT policy re-negotiation | * Huawei | * 29.525 | * 0120 | * - | * Rel-16 | * F | * eNA | * revised |
| * C3-205393 | * Correction to the BDT policy re-negotiation | * Huawei | * 29.525 | * 0120 | * 1 | * Rel-16 | * F | * eNA | * agreed |
| * C3-205158 | * Correction to the BDT policy re-negotiation | * Huawei | * 29.525 | * 0121 | * - | * Rel-17 | * A | * eNA | * revised |
| * C3-205394 | * Correction to the BDT policy re-negotiation | * Huawei | * 29.525 | * 0121 | * 1 | * Rel-17 | * A | * eNA | * agreed |
| * C3-205163 | * URSP for VN Group | * Huawei | * 29.525 | * 0122 | * - | * Rel-16 | * F | * Vertical\_LAN | * merged |
| * C3-205164 | * URSP for VN Group | * Huawei | * 29.525 | * 0123 | * - | * Rel-17 | * A | * Vertical\_LAN | * merged |
| * C3-205194 | * Correction to Policy Update Notification | * ZTE | * 29.525 | * 0124 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * revised |
| * C3-205454 | * Correction to Policy Update Notification | * ZTE | * 29.525 | * 0124 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-205195 | * Correction to Policy Update Notification | * ZTE | * 29.525 | * 0125 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * revised |
| * C3-205455 | * Correction to Policy Update Notification | * ZTE | * 29.525 | * 0125 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-205196 | * Correction to Policy Update Notification | * ZTE | * 29.525 | * 0126 | * - | * Rel-17 | * A | * 5GS\_Ph1-CT | * revised |
| * C3-205456 | * Correction to Policy Update Notification | * ZTE | * 29.525 | * 0126 | * 1 | * Rel-17 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-205214 | * Report current value in Update for location related triggers | * ZTE | * 29.525 | * 0127 | * - | * Rel-17 | * F | * TEI17, en5GPccSer | * revised |
| * C3-205473 | * Report current value in Update for location related triggers | * ZTE | * 29.525 | * 0127 | * 1 | * Rel-17 | * F | * TEI17, en5GPccSer | * agreed |
| * C3-205216 | * Adding 200OK response for UpdateNotify | * ZTE | * 29.525 | * 0128 | * - | * Rel-17 | * B | * TEI17, en5GPccSer | * revised |
| * C3-205475 | * Adding 200OK response for UpdateNotify | * ZTE | * 29.525 | * 0128 | * 1 | * Rel-17 | * B | * TEI17, en5GPccSer | * agreed |
| * C3-205217 | * Support of 307&404 response codes for Policy update notification | * ZTE | * 29.525 | * 0129 | * - | * Rel-17 | * B | * TEI17, en5GPccSer | * revised |
| * C3-205589 | * Support of 307&404 response codes for Policy update notification | * ZTE | * 29.525 | * 0129 | * 1 | * Rel-17 | * B | * TEI17, en5GPccSer | * revised |
| * C3-205614 | * Support of 307&404 response codes for Policy update notification | * ZTE | * 29.525 | * 0129 | * 2 | * Rel-17 | * B | * en5GPccSer, TEI17 | * agreed |
| * C3-205245 | * "400 Bad Request" response on notification | * Ericsson | * 29.525 | * 0130 | * - | * Rel-17 | * F | * TEI17, en5GPccSer | * agreed |
| * C3-205353 | * Correction to URSP rules, support of 5G VN services | * Ericsson | * 29.525 | * 0131 | * - | * Rel-16 | * F | * Vertical\_LAN | * revised |
| * C3-205413 | * Correction to URSP rules, support of 5G VN services | * Ericsson, Huawei | * 29.525 | * 0131 | * 1 | * Rel-16 | * F | * Vertical\_LAN | * agreed |
| * C3-205354 | * Correction to URSP rules, support of 5G VN services | * Ericsson | * 29.525 | * 0132 | * - | * Rel-17 | * A | * Vertical\_LAN | * revised |
| * C3-205414 | * Correction to URSP rules, support of 5G VN services | * Ericsson, Huawei | * 29.525 | * 0132 | * 1 | * Rel-17 | * A | * Vertical\_LAN | * agreed |
| * C3-205592 | * report initial presence status for PRA | * ZTE, China Mobile | * 29.525 | * 0133 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-205593 | * report initial presence status for PRA | * ZTE, China Mobile | * 29.525 | * 0134 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-205594 | * Update of OpenAPI version and TS version in externalDocs field | * Nokia, Nokia Shanghai Bell | * 29.525 | * 0135 | * - | * Rel-16 | * F | * TEI16 | * agreed |
| * C3-205597 | * Update of OpenAPI version and TS version in externalDocs field | * Nokia, Nokia Shanghai Bell | * 29.525 | * 0136 | * - | * Rel-17 | * F | * TEI17 | * agreed |
| * C3-205618 | * Update of OpenAPI version and TS version in externalDocs field | * Nokia, Nokia Shanghai Bell | * 29.525 | * 0137 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-205060 | * TS 29.549 Essential Corrections and alignments | * Huawei | * 29.549 | * 0010 | * - | * Rel-16 | * F | * SBIProtoc16 | * revised |
| * C3-205534 | * TS 29.549 Essential Corrections and alignments | * Huawei | * 29.549 | * 0010 | * 1 | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-205266 | * Immediate reporting | * Huawei | * 29.549 | * 0011 | * - | * Rel-16 | * F | * SEAL | * revised |
| * C3-205377 | * Immediate reporting | * Huawei | * 29.549 | * 0011 | * 1 | * Rel-16 | * F | * SEAL | * agreed |
| * C3-205337 | * Storage of YAML files in 3GPP Forge | * Samsung Electronics Iberia SA | * 29.549 | * 0012 | * - | * Rel-16 | * F | * SBIProtoc16 | * revised |
| * C3-205438 | * Storage of YAML files in 3GPP Forge | * Samsung Electronics Iberia SA | * 29.549 | * 0012 | * 1 | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-205338 | * SEAL Group configuration corrections | * Samsung Electronics Iberia SA | * 29.549 | * 0013 | * - | * Rel-16 | * F | * SEAL | * revised |
| * C3-205506 | * SEAL Group configuration corrections | * Samsung Electronics Iberia SA | * 29.549 | * 0013 | * 1 | * Rel-16 | * F | * SEAL | * agreed |
| * C3-205504 | * Update of OpenAPI version and TS version in externalDocs field | * Samsung Electronics Iberia SA | * 29.549 | * 0014 | * - | * Rel-16 | * F | * TEI16 | * agreed |
| * C3-205061 | * TS 29.551 Essential Corrections and alignments | * Huawei | * 29.551 | * 0040 | * - | * Rel-16 | * F | * SBIProtoc16 | * revised |
| * C3-205535 | * TS 29.551 Essential Corrections and alignments | * Huawei | * 29.551 | * 0040 | * 1 | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-205062 | * TS 29.551 Essential Corrections and alignments | * Huawei | * 29.551 | * 0041 | * - | * Rel-17 | * A | * SBIProtoc16 | * revised |
| * C3-205536 | * TS 29.551 Essential Corrections and alignments | * Huawei | * 29.551 | * 0041 | * 1 | * Rel-17 | * A | * SBIProtoc16 | * agreed |
| * C3-205070 | * Corrections to Notification Push procedure | * Huawei | * 29.551 | * 0042 | * - | * Rel-17 | * F | * pfdManEnh | * revised |
| * C3-205369 | * Corrections to Notification Push procedure | * Huawei, Ericsson | * 29.551 | * 0042 | * 1 | * Rel-17 | * F | * pfdManEnh | * agreed |
| * C3-205134 | * Retrieval PULL | * China Telecom | * 29.551 | * 0043 | * - | * Rel-17 | * B | * pfdManEnh | * merged |
| * C3-205146 | * Correction to PFD retrieval in PULL mode | * Huawei | * 29.551 | * 0044 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * revised |
| * C3-205496 | * Correction to PFD retrieval in PULL mode | * Huawei | * 29.551 | * 0044 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-205147 | * Correction to PFD retrieval in PULL mode | * Huawei | * 29.551 | * 0045 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * revised |
| * C3-205497 | * Correction to PFD retrieval in PULL mode | * Huawei | * 29.551 | * 0045 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-205148 | * Correction to PFD retrieval in PULL mode | * Huawei | * 29.551 | * 0046 | * - | * Rel-17 | * A | * 5GS\_Ph1-CT | * revised |
| * C3-205498 | * Correction to PFD retrieval in PULL mode | * Huawei | * 29.551 | * 0046 | * 1 | * Rel-17 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-205149 | * Correction to notification URI of PFD change notification | * Huawei | * 29.551 | * 0047 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-205150 | * Correction to notification URI of PFD change notification | * Huawei | * 29.551 | * 0048 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-205151 | * Correction to notification URI of PFD change notification | * Huawei | * 29.551 | * 0049 | * - | * Rel-17 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-205181 | * PULL mode enhancement | * Huawei | * 29.551 | * 0050 | * - | * Rel-17 | * B | * pfdManEnh | * revised |
| * C3-205515 | * PULL mode enhancement | * Huawei, Ericsson, China Telecom | * 29.551 | * 0050 | * 1 | * Rel-17 | * B | * pfdManEnh | * agreed |
| * C3-205182 | * Remove the PFDs within the PushNotification | * Huawei | * 29.551 | * 0051 | * - | * Rel-17 | * B | * pfdManEnh | * revised |
| * C3-205543 | * Remove the PFDs within the PushNotification | * Huawei, Ericsson | * 29.551 | * 0051 | * 1 | * Rel-17 | * B | * pfdManEnh | * agreed |
| * C3-205220 | * Storage of YAML files in 3GPP Forge | * ZTE | * 29.551 | * 0052 | * - | * Rel-16 | * F | * SBIProtoc16 | * revised |
| * C3-205477 | * Storage of YAML files in 3GPP Forge | * ZTE | * 29.551 | * 0052 | * 1 | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-205221 | * Storage of YAML files in 3GPP Forge | * ZTE | * 29.551 | * 0053 | * - | * Rel-17 | * A | * SBIProtoc16 | * revised |
| * C3-205478 | * Storage of YAML files in 3GPP Forge | * ZTE | * 29.551 | * 0053 | * 1 | * Rel-17 | * A | * SBIProtoc16 | * agreed |
| * C3-205241 | * NotificationPush data type definition | * Ericsson | * 29.551 | * 0054 | * - | * Rel-17 | * F | * pfdManEnh | * agreed |
| * C3-205242 | * Non-unique operation identifiers | * Ericsson | * 29.551 | * 0055 | * - | * Rel-17 | * F | * SBIProtoc17 | * revised |
| * C3-205368 | * Non-unique operation identifiers | * Ericsson | * 29.551 | * 0055 | * 1 | * Rel-17 | * F | * SBIProtoc17, pfdManEnh | * agreed |
| * C3-205548 | * Update of OpenAPI version and TS version in externalDocs field | * ZTE | * 29.551 | * 0056 | * - | * Rel-17 | * F | * TEI17 | * agreed |
| * C3-205063 | * TS 29.554 Essential Corrections and alignments | * Huawei | * 29.554 | * 0053 | * - | * Rel-16 | * F | * SBIProtoc16 | * revised |
| * C3-205537 | * TS 29.554 Essential Corrections and alignments | * Huawei | * 29.554 | * 0053 | * 1 | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-205159 | * Correction to the BDT policy re-negotiation | * Huawei | * 29.554 | * 0054 | * - | * Rel-16 | * F | * eNA | * revised |
| * C3-205616 | * Correction to the BDT policy re-negotiation | * Huawei | * 29.554 | * 0054 | * 1 | * Rel-16 | * F | * eNA | * agreed |
| * C3-205235 | * Storage of YAML files in ETSI Forge | * Ericsson | * 29.554 | * 0055 | * - | * Rel-16 | * F | * SBIProtoc16 | * revised |
| * C3-205418 | * Storage of YAML files in ETSI Forge | * Ericsson | * 29.554 | * 0055 | * 1 | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-205302 | * Correction to support redirection codes and the update of the Callback URI | * Ericsson | * 29.554 | * 0056 | * - | * Rel-16 | * F | * 5G\_eSBA | * revised |
| * C3-205433 | * Correction to support redirection codes and the update of the Callback URI | * Ericsson | * 29.554 | * 0056 | * 1 | * Rel-16 | * F | * 5G\_eSBA | * agreed |
| * C3-205505 | * Update of OpenAPI version and TS version in externalDocs field | * Ericsson | * 29.554 | * 0057 | * - | * Rel-16 | * F | * TEI16 | * agreed |
| * C3-205339 | * Clarification on using PAP/CHAP for 5GS interoperability | * Qualcomm Incorporated, Vodafone | * 29.561 | * 0037 | * 1 | * Rel-16 | * A | * TEI16 | * not pursued |
| * C3-205340 | * Clarification on using PAP/CHAP for 5GS interoperability | * Qualcomm Incorporated, Vodafone | * 29.561 | * 0038 | * 1 | * Rel-15 | * F | * TEI15 | * not pursued |
| * C3-205132 | * Adding the abbreviations of PAP/CHAP in TS 29.561 | * China Telecom Corporation Ltd., Huawei | * 29.561 | * 0057 | * - | * Rel-17 | * B | * PAP\_CHAP | * merged |
| * C3-205135 | * Adding a note for IPv4/IPv6 Non-transparent access to DN using PAP/CHAP | * China Telecom Corporation Ltd., Huawei | * 29.561 | * 0058 | * - | * Rel-17 | * B | * PAP\_CHAP | * revised |
| * C3-205572 | * Adding a note for IPv4/IPv6 Non-transparent access to DN using PAP/CHAP | * China Telecom Corporation Ltd., Huawei, Ericsson | * 29.561 | * 0058 | * 1 | * Rel-17 | * B | * PAP\_CHAP | * agreed |
| * C3-205144 | * Correction on the Acct-Session-Id | * Huawei, Ericsson | * 29.561 | * 0059 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-205145 | * Correction on the Acct-Session-Id | * Huawei, Ericsson | * 29.561 | * 0060 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-205184 | * Adding PAP/CHAP in RADIUS message flow(successful case) | * China Telecom Corporation Ltd., Huawei | * 29.561 | * 0061 | * - | * Rel-17 | * B | * PAP\_CHAP | * revised |
| * C3-205575 | * Adding PAP/CHAP in RADIUS message flow(successful case) | * China Telecom Corporation Ltd., Huawei, Ericsson | * 29.561 | * 0061 | * 1 | * Rel-17 | * B | * PAP\_CHAP | * agreed |
| * C3-205191 | * Adding PAP/CHAP in Diameter message flow(successful case) | * China Telecom Corporation Ltd., Huawei | * 29.561 | * 0062 | * - | * Rel-17 | * B | * PAP\_CHAP | * revised |
| * C3-205577 | * Adding PAP/CHAP in Diameter message flow(successful case) | * China Telecom Corporation Ltd., Huawei, Ericsson | * 29.561 | * 0062 | * 1 | * Rel-17 | * B | * PAP\_CHAP | * agreed |
| * C3-205284 | * Correct TWAN-Identifer applicability and 3GPP SGSN address | * Ericsson | * 29.561 | * 0063 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-205285 | * Correct SGSN address | * Ericsson | * 29.561 | * 0064 | * - | * Rel-16 | * F | * TEI16, 5GS\_Ph1-CT | * revised |
| * C3-205486 | * Correct SGSN address | * Ericsson | * 29.561 | * 0064 | * 1 | * Rel-16 | * F | * 5GS\_Ph1-CT, TEI16 | * agreed |
| * C3-205288 | * Correct PEI for 5G-RG | * Ericsson | * 29.561 | * 0065 | * - | * Rel-16 | * F | * 5WWC | * postponed |
| * C3-205289 | * Correct applicability for User Location extension | * Ericsson | * 29.561 | * 0066 | * - | * Rel-16 | * F | * 5WWC | * revised |
| * C3-205487 | * Correct applicability for User Location extension | * Ericsson | * 29.561 | * 0066 | * 1 | * Rel-16 | * F | * 5WWC | * agreed |
| * C3-205296 | * Correct network identifier for SNPN | * Ericsson | * 29.561 | * 0067 | * - | * Rel-16 | * F | * Vertical\_LAN | * agreed |
| * C3-205304 | * Corrections to IPv6 | * Ericsson | * 29.561 | * 0068 | * - | * Rel-17 | * F | * TEI17 | * agreed |
| * C3-205307 | * Updates to IPv6 Prefix Delegation | * Ericsson | * 29.561 | * 0069 | * - | * Rel-16 | * F | * 5WWC | * agreed |
| * C3-205308 | * Corrections on SMF directly connecting DN-AAA server | * Ericsson | * 29.561 | * 0070 | * - | * Rel-17 | * F | * TEI17, 5GS\_Ph1-CT | * revised |
| * C3-205390 | * Corrections on SMF directly connecting DN-AAA server | * Ericsson | * 29.561 | * 0070 | * 1 | * Rel-17 | * F | * 5GS\_Ph1-CT, TEI17 | * agreed |
| * C3-205309 | * Correction on PAPCHAP supporting Rel-15 N1 mode UE | * Ericsson | * 29.561 | * 0071 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * revised |
| * C3-205566 | * Correction on PAPCHAP supporting Rel-15 N1 mode UE | * Ericsson, Qualcomm, Vodafone | * 29.561 | * 0071 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-205310 | * Correction on PAPCHAP supporting Rel-15 N1 mode UE | * Ericsson | * 29.561 | * 0072 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT, TEI16 | * revised |
| * C3-205567 | * Correction on PAPCHAP supporting Rel-15 N1 mode UE | * Ericsson, Qualcomm, Vodafone | * 29.561 | * 0072 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-CT, TEI16 | * agreed |
| * C3-205311 | * Correction on PAPCHAP supporting Rel-15 N1 mode UE | * Ericsson | * 29.561 | * 0073 | * - | * Rel-17 | * A | * 5GS\_Ph1-CT, TEI17 | * merged |
| * C3-205573 | * Adding PAP/CHAP in RADIUS message flow(successful case) | * China Telecom Corporation Ltd. | * 29.561 | * 0074 | * - | * Rel-17 | * B | * PAP\_CHAP | * withdrawn |
| * C3-205064 | * TS 29.591 Essential Corrections and alignments | * Huawei | * 29.591 | * 0025 | * - | * Rel-16 | * F | * SBIProtoc16 | * revised |
| * C3-205538 | * TS 29.591 Essential Corrections and alignments | * Huawei, ZTE | * 29.591 | * 0025 | * 1 | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-205190 | * Storage of YAML files in 3GPP Forge | * Huawei | * 29.591 | * 0026 | * - | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-205219 | * Correct TS title in externalDocs field | * ZTE | * 29.591 | * 0027 | * - | * Rel-16 | * F | * eNA | * merged |
| * C3-205251 | * Callback URI correction | * Huawei | * 29.591 | * 0028 | * - | * Rel-16 | * F | * SBIProtoc16 | * revised |
| * C3-205553 | * Callback URI correction | * Huawei | * 29.591 | * 0028 | * 1 | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-205327 | * Corrections to location area usage | * Ericsson | * 29.591 | * 0029 | * - | * Rel-17 | * F | * eNA, TEI17 | * revised |
| * C3-205387 | * Corrections to location area usage | * Ericsson | * 29.591 | * 0029 | * 1 | * Rel-17 | * F | * eNA, TEI17 | * agreed |
| * C3-205562 | * Update of OpenAPI version and TS version in externalDocs field | * Huawei | * 29.591 | * 0030 | * - | * Rel-16 | * F | * TEI16 | * agreed |
| * C3-205065 | * TS 29.594 Essential Corrections and alignments | * Huawei | * 29.594 | * 0061 | * - | * Rel-16 | * F | * SBIProtoc16 | * revised |
| * C3-205539 | * TS 29.594 Essential Corrections and alignments | * Huawei | * 29.594 | * 0061 | * 1 | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-205078 | * Storage of YAML files in 3GPP Forge | * Nokia, Nokia Shanghai Bell | * 29.594 | * 0062 | * - | * Rel-16 | * F | * SBIProtoc16 | * revised |
| * C3-205373 | * Storage of YAML files in 3GPP Forge | * Nokia, Nokia Shanghai Bell | * 29.594 | * 0062 | * 1 | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-205224 | * Correction to notifUri attribute | * Ericsson | * 29.594 | * 0063 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * revised |
| * C3-205502 | * Correction to Intermediate spending limit report retrieval | * Ericsson | * 29.594 | * 0063 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-205225 | * Correction to notifUri attribute | * Ericsson | * 29.594 | * 0064 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * revised |
| * C3-205503 | * Correction to Intermediate spending limit report retrieval | * Ericsson | * 29.594 | * 0064 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-205229 | * Correction to subscription's expiry time | * Ericsson | * 29.594 | * 0065 | * - | * Rel-16 | * F | * en5GPccSer | * agreed |
| * C3-205277 | * Correction to subscription create service operation | * Huawei | * 29.594 | * 0066 | * - | * Rel-16 | * F | * en5GPccSer | * revised |
| * C3-205615 | * Correction to subscription create service operation | * Huawei | * 29.594 | * 0066 | * 1 | * Rel-16 | * F | * en5GPccSer | * agreed |
| * C3-205279 | * Nchf\_SpendingLimitControl service optimization for 5G VN group communication | * Huawei | * 29.594 | * 0067 | * - | * Rel-17 | * B | * TEI17 | * postponed |
| * C3-205595 | * Update of OpenAPI version and TS version in externalDocs field | * Nokia, Nokia Shanghai Bell | * 29.594 | * 0068 | * - | * Rel-16 | * F | * TEI16 | * agreed |
| * C3-205599 | * Update of OpenAPI version and TS version in externalDocs field | * Nokia, Nokia Shanghai Bell | * 29.594 | * 0069 | * - | * Rel-17 | * F | * TEI17 | * withdrawn |
| * C3-205066 | * TS 29.675 Essential Corrections and alignments | * Huawei | * 29.675 | * 0013 | * - | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-205067 | * TS 29.675 Essential Corrections and alignments | * Huawei | * 29.675 | * 0014 | * - | * Rel-17 | * A | * SBIProtoc16 | * agreed |
| * C3-205236 | * Storage of YAML files in ETSI Forge | * Ericsson | * 29.675 | * 0015 | * - | * Rel-16 | * F | * SBIProtoc16 | * revised |
| * C3-205419 | * Storage of YAML files in ETSI Forge | * Ericsson | * 29.675 | * 0015 | * 1 | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-205237 | * Storage of YAML files in ETSI Forge | * Ericsson | * 29.675 | * 0016 | * - | * Rel-17 | * A | * SBIProtoc16 | * revised |
| * C3-205420 | * Storage of YAML files in ETSI Forge | * Ericsson | * 29.675 | * 0016 | * 1 | * Rel-17 | * A | * SBIProtoc16 | * agreed |
| * C3-205294 | * Correct UCMF id | * Ericsson | * 29.675 | * 0017 | * - | * Rel-16 | * F | * RACS | * revised |
| * C3-205484 | * Correct UCMF id | * Ericsson | * 29.675 | * 0017 | * 1 | * Rel-16 | * F | * RACS | * agreed |
| * C3-205295 | * Correct UCMF id | * Ericsson | * 29.675 | * 0018 | * - | * Rel-17 | * A | * RACS | * revised |
| * C3-205485 | * Correct UCMF id | * Ericsson | * 29.675 | * 0018 | * 1 | * Rel-17 | * A | * RACS | * agreed |

## Annex C: Lists of liaisons

### C1: Incoming liaison statements

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Original | Title | From | Decision | Reply TDoc |
| * C3-205017 |  | * LS on the stage 2 aspects of MINT | * CT1 | * noted | * (none) |
| * C3-205018 |  | * LS on Media Feature Tag for IMS Data Channel | * CT1 | * noted | * (none) |
| * C3-205019 |  | * LS on Event Configuration Synchronization between 4G&5G | * CT4 | * noted | * (none) |
| * C3-205020 |  | * LS on information of stage 3 aspects for AKMA | * CT | * noted | * (none) |
| * C3-205021 |  | * LS Reply on clarification on TSN for Vertical\_LAN | * SA2 | * noted | * (none) |
| * C3-205022 |  | * LS Response on Bulk operation of LCS-service | * SA2 | * noted | * (none) |
| * C3-205023 |  | * Reply LS on Key Management procedure in SEAL | * SA3 | * noted | * (none) |
| * C3-205024 |  | * Reply LS on Reply PAP/CHAP and other point-to-point protocols usage in 5GS | * SA3 | * noted | * (none) |
| * C3-205025 |  | * LS on New function for Network Slice PA and Management Charging | * SA5 | * noted | * (none) |
| * C3-205026 |  | * Reply LS on the stage 2 aspects of MINT | * SA | * noted | * (none) |
| * C3-205029 |  | * LS on Completion of WT-456 and WT-470 | * SA2 | * noted | * (none) |
| * C3-205030 |  | * Reply LS on 'Event Configuration Synchronization between 4G&5G' | * SA2 | * noted | * (none) |
| * C3-205031 |  | * LS Response on Bulk operation of LCS-service | * SA2 | * noted | * (none) |
| * C3-205085 | * C1-206650 | * Reply LS on clarification on using PAP/CHAP for 5GS | * CT1 | * noted | * (none) |
| * C3-205086 | * S6-202009 | * LS on APIs in EDGEAPP | * SA6 | * noted | * C3-205439 |
| * C3-205391 | * C4-205484 | * Alignment of API Versioning System with Semantic Versioning | * CT4 | * noted | * (none) |
| * C3-205495 | * C4-205487 | * Reply LS on support of stateless NFs | * CT4 | * noted | * (none) |
| * C3-205559 | * C4-205478 | * LS on Support of L2TP on SGi/N6 with Control and User Plane Separation | * CT4 | * noted | * (none) |

### C2: Outgoing liaison statements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Document | Title | To | Cc | reply to i/c LS |
| * C3-205439 | * Reply to LS on APIs in EDGEAPP | * SA6 | * CT1, CT4 | * C3-205086 |
| * C3-205448 | * LS on the input parameters of the LCS subscription request from an AF via the NEF | * SA2 | * CT4 |  |

## Annex D: List of agreed/approved new and revised Work Items

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Title | Source | new/revised |
| * C3-205624 | * New WID on CT aspects for enabling Edge Applications | * Samsung Electronics Iberia SA | * WID new |
| * C3-205490 | * Revised WID on Authentication and key management for applications based on 3GPP credential in 5G | * Qualcomm Incorporated, China Mobile Communications Group Co.,Ltd. | * WID revised |

## Annex E: List of draft Technical Specifications and Reports

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Spec | vers | Doc title |
| * C3-205623 | * 29.535 | * 0.1.0 | * TS 29.535 v0.1.0 |

## Annex F: List of action items

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Meeting/Number | Agenda item | Document | Details | Responsible | Due by |

## Annex G: List of decisions

|  |  |  |  |
| --- | --- | --- | --- |
| Meeting/Number | Agenda item | Document | Details |

## Annex H: List of participants

|  |  |  |
| --- | --- | --- |
| Name | Representing | Status (OP) |
| * ASKERUP, Anders | * Hewlett-Packard Enterprise | * 3GPPMEMBER (ETSI) |
| * ATARIUS, Roozbeh | * Motorola Mobility Germany GmbH | * 3GPPMEMBER (ETSI) |
| * AXELL, Jörgen | * Ericsson-LG Co., LTD | * 3GPPMEMBER (TTA) |
| * BAO, Chenxi | * CATT | * 3GPPMEMBER (CCSA) |
| * BIONDIC, Nevenka | * Ericsson GmbH, Eurolab | * 3GPPMEMBER (ETSI) |
| * BOURNELLE, Julien | * Orange UK | * 3GPPMEMBER (ETSI) |
| * BRINKMANN, Horst | * Nokia Germany | * 3GPPMEMBER (ETSI) |
| * BROSZEIT, Marco | * Vodafone GmbH | * 3GPPMEMBER (ETSI) |
| * DAWES, Peter | * VODAFONE Group Plc | * 3GPPMEMBER (ETSI) |
| * EITOKU, haruka | * NTT corporation | * 3GPPMEMBER (ETSI) |
| * EL MOATAMID, Abdessamad | * Huawei Technologies Sweden AB | * 3GPPMEMBER (ETSI) |
| * GARCIA AZORERO, Fuencisla | * Ericsson India Private Limited | * 3GPPMEMBER (TSDSI) |
| * GULBANI, Giorgi | * HUAWEI TECH. GmbH | * 3GPPMEMBER (ETSI) |
| * GUPTA, Varini | * Harman GmbH | * 3GPPMEMBER (ETSI) |
| * GUPTA, Vivek | * Intel | * 3GPPMEMBER (ATIS) |
| * HARTNETT, Daniel | * DECT Forum | * 3GPPMEMBER (ETSI) |
| * HOLMSTRÖM, Tomas | * Ericsson Telecomunicazioni SpA | * 3GPPMEMBER (ETSI) |
| * HUANG, Zhenning | * China Mobile Com. Corporation | * 3GPPMEMBER (CCSA) |
| * INOUE, Yoshihiro | * NTT | * 3GPPMEMBER (TTC) |
| * ISHIKAWA, Hiroshi | * NTT DOCOMO INC. | * 3GPPMEMBER (ARIB) |
| * JING, Hao | * ETSI | * 3GPPORG\_REP (ETSI) |
| * JOHANSSON, Kaj | * Oy LM Ericsson AB | * 3GPPMEMBER (ETSI) |
| * KAPALE, Kiran | * Samsung Research America | * 3GPPMEMBER (ATIS) |
| * KARAMPATSIS, Dimitrios | * Lenovo Mobile Com. Technology | * 3GPPMEMBER (CCSA) |
| * KREIPL, Michael | * Telekom Deutschland GmbH | * 3GPPMEMBER (ETSI) |
| * LAVASANI, Shahab | * Huawei Technologies Sweden AB | * 3GPPMEMBER (ETSI) |
| * LAZARA, Dominic | * Motorola Solutions Germany | * 3GPPMEMBER (ETSI) |
| * LEE, Jay | * Verizon UK Ltd | * 3GPPMEMBER (ETSI) |
| * LI, Li | * Huawei Technologies (Korea) | * 3GPPMEMBER (TTA) |
| * LI, Mingxue | * China Telecom Corporation Ltd. | * 3GPPMEMBER (CCSA) |
| * LI, Zhijun | * ZTE Corporation | * 3GPPMEMBER (ETSI) |
| * LIANG, Tianmei | * Ericsson Japan K.K. | * 3GPPMEMBER (ARIB) |
| * LIU, Yubing | * China Telecommunications | * 3GPPMEMBER (ETSI) |
| * LU, Yang | * Vodafone Romania S.A. | * 3GPPMEMBER (ETSI) |
| * LU, Yunjie | * Ericsson Inc. | * 3GPPMEMBER (ATIS) |
| * LUETZENKIRCHEN, Thomas | * Intel Deutschland GmbH | * 3GPPMEMBER (ETSI) |
| * MERINO VAZQUEZ, Emiliano | * Ericsson España S.A. | * 3GPPMEMBER (ETSI) |
| * MOHAJERI, Shahram | * AT&T GNS Belgium SPRL | * 3GPPMEMBER (ETSI) |
| * MONNES, Peter | * Perspecta Labs Inc. | * 3GPPMEMBER (ATIS) |
| * MORAND, Lionel | * Orange | * 3GPPMEMBER (ETSI) |
| * PAPAGEORGIOU, Apostolos | * Nokia Germany | * 3GPPMEMBER (ETSI) |
| * PINTO, BARUCH | * Allot Ltd | * 3GPPMEMBER (ETSI) |
| * QI, Caixia | * Huawei Telecommunication India | * 3GPPMEMBER (TSDSI) |
| * SAHIN, Yildirim | * Charter Communications, Inc | * 3GPPMEMBER (ATIS) |
| * SEDLACEK, Ivo | * Ericsson France S.A.S | * 3GPPMEMBER (ETSI) |
| * SHAH, Sapan | * Samsung Electronics Romania | * 3GPPMEMBER (ETSI) |
| * SHU, Lin | * Huawei Device Co., Ltd | * 3GPPMEMBER (CCSA) |
| * SKROCKI, Mariusz | * Orange Spain | * 3GPPMEMBER (ETSI) |
| * SRIVASTAVA, Vimal | * Cisco Systems Belgium | * 3GPPMEMBER (ETSI) |
| * STARSINIC, Michael | * Convida Wireless | * 3GPPMEMBER (ETSI) |
| * SUH, Kyungjoo Grace | * Samsung Electronics Nordic AB | * 3GPPMEMBER (ETSI) |
| * SUN, Yue | * China Telecommunications | * 3GPPMEMBER (ETSI) |
| * TANGUDU, Narendranath Durga | * Samsung Electronics Iberia SA | * 3GPPMEMBER (ETSI) |
| * WASS, Mikael | * Ericsson Limited | * 3GPPMEMBER (ETSI) |
| * WATFA, Mahmoud | * Samsung Guangzhou Mobile R&D | * 3GPPMEMBER (CCSA) |
| * WEAVER, Farni | * T-Mobile USA | * 3GPPMEMBER (ETSI) |
| * XU, Wenliang | * L.M. Ericsson Limited | * 3GPPMEMBER (ETSI) |
| * YAN, Yali | * Huawei Tech.(UK) Co., Ltd | * 3GPPMEMBER (ETSI) |
| * YANG, Haorui | * Beijing OPPO Com. corp., ltd | * 3GPPMEMBER (CCSA) |
| * ZHOU, Xiaoyun | * Huawei Technologies R&D UK | * 3GPPMEMBER (ETSI) |
| * ZHOU, Xingyue | * ZTE Wistron Telecom AB | * 3GPPMEMBER (ETSI) |
| * ZIA, Waqar | * Qualcomm CDMA Technologies | * 3GPPMEMBER (ETSI) |

## Annex I: List of future meetings

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Title** | **Start date** | **End date (OP)** | **Town** | **Country** | **Reference** |
| CT3#113e | 2021-01-25 | 2021-01-29 | e-meeting | e-meeting | C3-113e |
| CT3#114e | 2021-02-24 | 2021-03-05 | e-meeting | e-meeting | C3-114e |
| CT3#115e | 2021-04-14 | 2021-04-23 | e-meeting | e-meeting | C3-115e |
| CT3#116e | 2021-05-19 | 2021-05-28 | e-meeting | e-meeting | C3-116e |
| CT3#116-BIS | 2021-07-12 | 2021-07-16 | TBD |  | C3-ah-37538 |
| CT3#117 | 2021-08-23 | 2021-08-27 | TBD |  | C3-117 |
| CT3#118 | 2021-10-11 | 2021-10-15 | TBD |  | C3-118 |
| CT3#119 | 2021-11-15 | 2021-11-19 | TBD |  | C3-119 |

Annexes to report prepared by: Hao Jing