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

**DRAFT Meeting Report  
for  
TSG CT WG3  
meeting: 109e**

**e-meeting, e-meeting, 2020-04-16 to 2020-04-24**

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## 1 Opening of the meeting

## 2 Agenda/Schedule

**C3-202016 Way of Working for CT3#109-e Electronic Meeting**

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

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

### 2.1 Approval of the agenda

**C3-202000 Draft Agenda for the CT3#109 e-Meeting**

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

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

### 2.2 Proposed Schedule

**C3-202001 INFO Proposed Schedule for CT3#109e**

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

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

## 3 Registration of documents

**C3-202002 Allocation of documents to agenda items (at Deadline)**

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

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

**C3-202003 Allocation of documents to agenda items (Start of Day 1)**

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

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

**C3-202004 Allocation of documents to agenda items (Start of Day 2)**

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

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

**C3-202005 Allocation of documents to agenda items (Start of Day 3)**

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

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

**C3-202006 Allocation of documents to agenda items (Start of Day 4)**

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

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

**C3-202007 Allocation of documents to agenda items (Start of Day 5)**

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

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

**C3-202008 Allocation of documents to agenda items (Start of Day 6)**

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

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

**C3-202009 Allocation of documents to agenda items (Start of Day 7)**

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

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

**C3-202010 Allocation of documents to agenda items (End of Day 7)**

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

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

## 4 Reports

### 4.1 Report from previous CT3 meeting

**C3-202013 Minutes of CT3#108e**

*Type: report For: Approval  
 Source: MCC*

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

### 4.2 Report from previous CT plenary

**C3-202012 Summary of CT#87e 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

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

### 5.4 Other items for immediate consideration

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

**C3-202029 Reply LS on supporting simultaneous online and offline reporting level access**

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

**Discussion:**

Chair: Requires SA5 confirmation. Check C3-202034 for further actions.

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

**C3-202030 LS on Group Message Delivery**

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

**Discussion:**

There is a LS Reply from Ericsson.

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

**C3-202031 LS on updates to CHEM feature and use of Application Layer Redundancy**

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

**Discussion:**

Qualcomm proposes an LS Reply to make SA4 aware that there are no additional impacts.

**Decision:** The document was **replied to in C3-202442**.

**C3-202442 Reply to: LS on updates to CHEM feature and use of Application Layer Redundancy**

*Type: LS out For: approval  
 to SA4  
 Source: Qualcomm*

**Decision:** The document was **revised to C3-202505**.

**C3-202505 Reply LS on updates to CHEM feature and use of Application Layer Redundancy**

*Type: LS out For: approval  
 to SA4  
 Source: Qualcomm*

(Replaces C3-202442)

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

**C3-202032 LS on HLS and Hybrid DASH/HLS Service in MBMS**

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

**Discussion:**

Chair: No CRs in this meeting. If not provided in the next meeting the functionality will not be part of Release 16.

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

**C3-202033 LS Reply to LS Reply to LS to SA2 Introduction of CHF Address from PCF**

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

**Discussion:**

Nokia: Not handled yet in SA2.

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

**C3-202034 LS reply on Reply LS on supporting simultaneous online and offline reporting level access**

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

**Discussion:**

Ericsson will check further the relation with the default charging method. Huawei will further check the implications.

Huawei: There will CRs for next meeting.

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

**C3-202146 Reply LS on QoS mapping procedure**

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

**Discussion:**

Ericsson will provide CRs and LS Reply for next meeting.

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

**C3-202360 LS/o on ongoing work within ITU-T Study Group 3 (SG3) on new Technical Report on “IMT2020-Related Policy Considering MVNOs”**

*Type: LS in For: Information  
 Original outgoing LS: -, to ITU-T Study Group 13, ITU-T FG-Net2030, FG-ML5G; 3GPP, cc -  
 Source: ITU-T WP 2/3*

**Discussion:**

Chair: Sent for Information. It is proposed to NOTE it.

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

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

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

#### 15.2.1 Technical Report (TR 29.890)

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

**C3-202039 Corrections on Service Area Restriction**

*Type: CR For: Agreement  
 29.507 v15.6.0 CR-0106 Cat: F (Rel-15)  
  
 Source: ZTE*

**Decision:** The document was **revised to C3-202452**.

**C3-202452 Corrections on Service Area Restriction**

*Type: CR For: Agreement  
 29.507 v15.6.0 CR-0106 rev 1 Cat: F (Rel-15)  
  
 Source: ZTE*

(Replaces C3-202039)

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

**C3-202040 Corrections on Service Area Restriction**

*Type: CR For: Agreement  
 29.507 v16.3.0 CR-0107 Cat: A (Rel-16)  
  
 Source: ZTE*

**Decision:** The document was **revised to C3-202453**.

**C3-202453 Corrections on Service Area Restriction**

*Type: CR For: Agreement  
 29.507 v16.3.0 CR-0107 rev 1 Cat: A (Rel-16)  
  
 Source: ZTE*

(Replaces C3-202040)

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

**C3-202055 Location header of 307 status code**

*Type: CR For: Agreement  
 29.507 v15.6.0 CR-0108 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-202454**.

**C3-202454 Location header of 307 status code**

*Type: CR For: Agreement  
 29.507 v15.6.0 CR-0108 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces C3-202055)

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

**C3-202056 Location header of 307 status code**

*Type: CR For: Agreement  
 29.507 v16.3.0 CR-0109 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-202455**.

**C3-202455 Location header of 307 status code**

*Type: CR For: Agreement  
 29.507 v16.3.0 CR-0109 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202056)

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

**C3-202063 Notification URI**

*Type: CR For: Agreement  
 29.507 v15.6.0 CR-0110 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-202456**.

**C3-202456 Notification URI**

*Type: CR For: Agreement  
 29.507 v15.6.0 CR-0110 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces C3-202063)

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

**C3-202064 Notification URI**

*Type: CR For: Agreement  
 29.507 v16.3.0 CR-0111 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-202457**.

**C3-202457 Notification URI**

*Type: CR For: Agreement  
 29.507 v16.3.0 CR-0111 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202064)

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

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

**C3-202280 Correct presence condition in event subscription**

*Type: CR For: Agreement  
 29.508 v15.6.0 CR-0076 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Discussion:**

Huawei:

In Cover page, why is the 23.502 mentioned？

2）We agree a specific DNN can be used for an indication of any UE. The requirement is specified in clause 5.2.8.3.1-1 of TS 23.502. We prefer to keep it.

Ericsson:

It was my mistake to use incorrect clause from 23.502, actually it should be 5.2.8.3.

If you want to keep DNN, it cannot be added in R15 because it is not defined in openAPI.

I would rather consider it as a leftover from R15 to R16.

Nokia:

In addition an introduction of DNN in OpenAPI would be mandatory (… request body that shall include ..). So we cannot do it for Rel-15.

Huawei: Ok. Then please remove DNN from Abbreviations and table 5.6.1-2.

Ericsson: OK. It can be removed. But then the release 16 CR will be change from cat. A to cat. F and WI will be change to TEI16 since DNN is used in R16 so we cannot claim it is a mapping CR.

**Decision:** The document was **revised to C3-202476**.

**C3-202476 Correct presence condition in event subscription**

*Type: CR For: Agreement  
 29.508 v15.6.0 CR-0076 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson*

(Replaces C3-202280)

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

**C3-202281 Correct presence condition in event subscription**

*Type: CR For: Agreement  
 29.508 v16.3.0 CR-0077 Cat: A (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202477**.

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

**C3-202037 Correction to attributes interGrpIds and appDetectionInfos**

*Type: CR For: Agreement  
 29.512 v15.6.0 CR-0436 Cat: F (Rel-15)  
  
 Source: ZTE*

**Discussion:**

C3-202037 and C3-202185 are merged into C3-202458.

Ericsson:

C3-202037 overlaps with C3-202185 (related to "interGrpIds" attribute).

Since C3-202037 contains more changes it should be used as base for merging.

C3-202037 also overlaps with C3-202270 (adding of AppDetectionInfo in table 5.6.1-1).

C3-202270 contains more changes in clause 5.6.1, update of clause 5.6.1 should be removed from C3-202037.

Same comments apply for mirror CRs C3-202038, C3-2021865 and C3-202269.

ZTE:

C3-202037\_r1 contains following changes:

- add Ericsson as co-signer

- remove the update of clause 5.6.1

**Decision:** The document was **revised to C3-202458**.

**C3-202458 Correction to attributes interGrpIds and appDetectionInfos**

*Type: CR For: Agreement  
 29.512 v15.6.0 CR-0436 rev 1 Cat: F (Rel-15)  
  
 Source: ZTE, Ericsson*

(Replaces C3-202037)

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

**C3-202038 Correction to attributes interGrpIds and appDetectionInfos**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0437 Cat: A (Rel-16)  
  
 Source: ZTE*

**Discussion:**

C3-202038 and C3-202186 are merged into C3-202459

**Decision:** The document was **revised to C3-202459**.

**C3-202459 Correction to attributes interGrpIds and appDetectionInfos**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0437 rev 1 Cat: A (Rel-16)  
  
 Source: ZTE, Ericsson*

(Replaces C3-202038)

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

**C3-202059 String format of flow information**

*Type: CR For: Agreement  
 29.512 v15.6.0 CR-0439 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**C3-202060 String format of flow information**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0440 Cat: A (Rel-16)  
  
 Source: Huawei*

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

**C3-202061 Ethernet PDU session for AF-influnced traffic steering control**

*Type: CR For: Agreement  
 29.512 v15.6.0 CR-0441 Cat: F (Rel-15)  
  
 Source: Huawei*

**Discussion:**

C3-202270 and C3-202061 are merged into C3-202460.

Ericsson:

This CR collides with the first change of Ericsson CR 2270. We need to discuss the merging process.

Ericsson CR covers more changes.

Also note that 2061 is incorrect, since it is missing the removal of the user identifier (not used in N5 for this use case, being part of binding info support, as other parameters not shown for simplicitly (29.513 is mentioned and that's enough).

Huawei: agree to merge it into CR 2270.

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

**C3-202062 Ethernet PDU session for AF-influnced traffic steering control**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0442 Cat: A (Rel-16)  
  
 Source: Huawei*

**Discussion:**

C3-202269 and C3-202062 are merged into C3-202461

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

**C3-202067 Notification URI**

*Type: CR For: Agreement  
 29.512 v15.6.0 CR-0443 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-202462**.

**C3-202462 Notification URI**

*Type: CR For: Agreement  
 29.512 v15.6.0 CR-0443 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces C3-202067)

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

**C3-202068 Notification URI**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0444 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-202463**.

**C3-202463 Notification URI**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0444 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202068)

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

**C3-202147 timeUsage in Accumulated Usage Report**

*Type: CR For: Agreement  
 29.512 v15.6.0 CR-0462 Cat: F (Rel-15)  
  
 Source: ZTE*

**Decision:** The document was **revised to C3-202464**.

**C3-202464 timeUsage in Accumulated Usage Report**

*Type: CR For: Agreement  
 29.512 v15.6.0 CR-0462 rev 1 Cat: F (Rel-15)  
  
 Source: ZTE*

(Replaces C3-202147)

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

**C3-202148 timeUsage in Accumulated Usage Report**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0463 Cat: A (Rel-16)  
  
 Source: ZTE*

**Decision:** The document was **revised to C3-202465**.

**C3-202465 timeUsage in Accumulated Usage Report**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0463 rev 1 Cat: A (Rel-16)  
  
 Source: ZTE*

(Replaces C3-202148)

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

**C3-202185 Alignment of array name containing internal group identities**

*Type: CR For: Agreement  
 29.512 v15.6.0 CR-0466 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Discussion:**

C3-202037 and C3-202185 are merged into C3-202458

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

**C3-202186 Alignment of array name containing internal group identities**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0467 Cat: A (Rel-16)  
  
 Source: Ericsson*

**Discussion:**

C3-202038 and C3-202186 are merged into C3-202459

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

**C3-202269 Correction to NetLoc feature**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0482 Cat: A (Rel-16)  
  
 Source: Ericsson*

**Discussion:**

C3-202269 and C3-202062 are merged into C3-202461

**Decision:** The document was **revised to C3-202461**.

**C3-202461 Correction to NetLoc feature**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0482 rev 1 Cat: A (Rel-16)  
  
 Source: Ericsson, Huawei*

(Replaces C3-202269)

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

**C3-202270 Correction to NetLoc feature**

*Type: CR For: Agreement  
 29.512 v15.6.0 CR-0483 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Discussion:**

C3-202270 and C3-202061 are merged into C3-202460

**Decision:** The document was **revised to C3-202460**.

**C3-202460 Correction to NetLoc feature**

*Type: CR For: Agreement  
 29.512 v15.6.0 CR-0483 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson, Huawei*

(Replaces C3-202270)

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

**C3-202273 Correction to PS Data Off**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0484 Cat: A (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202466**.

**C3-202466 Correction to PS Data Off**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0484 rev 1 Cat: A (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202273)

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

**C3-202274 Correction to PS Data Off**

*Type: CR For: Agreement  
 29.512 v15.6.0 CR-0485 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202467**.

**C3-202467 Correction to PS Data Off**

*Type: CR For: Agreement  
 29.512 v15.6.0 CR-0485 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson*

(Replaces C3-202274)

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

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

**C3-202041 Correction to PUT response for Events Subscription**

*Type: CR For: Agreement  
 29.514 v15.6.0 CR-0198 Cat: F (Rel-15)  
  
 Source: ZTE, Ericsson*

**Discussion:**

CP-183243 (CT1 leading)

Huawei: I prefer to remove the option of EventNotification. If the event is available at the PCF, the PCF can immediately send a notification to the AF.

ZTE: What's the benefit of reporting the available information via additional notification instead of reporting them immediately via response message?

Firstly in my view, it's more efficient to report available information via response message, we can see a set of descrtiptions for immediately report cases in current sepcification, e.g.

4.2.6.6 Request of access network information

When the PCF determines that the access network does not support the access network information reporting because the SMF does not support the NetLoc feature, the PCF shall respond to the AF including in the "EventsNotification" data type the "noNetLocSupp" attribute set to true (NetLoc access not supported). Otherwise, the PCF shall immediately configure the SMF to provide such access information, as specified in 3GPP TS 29.512 [8].

Furthermore, Create response on "Application Sessions" resource and Update response on "Individual Application Session Context" resource also supports the EventNotification. If the EventNotification is removed from PUT response on "Events Subscription" sub-resource, we'd better to remove EventNotification from Create/Update reponse to keep consistent in 29.514, do you think so?

ZTE: updated C3-202041/2042 to correct 200 Ok-> 200 OK in figure 4.2.6.2-2, and remove change on change.

Huawei: Actually, for the explicit subscription, a separate notification is defined in other services. Now we just need to remove notification from the response and every thing is ok.

For Create response on "Application Sessions" resource and Update response on "Individual Application Session Context" resource, We consider that is specific for the N5 interface, i.e. subscription can be performed together with the service information provisioning.

ZTE: The purpose of the CR is to correct the mistake in PUT responses, and we should keep it with this focus. In addition, for the current design of EventSubscription, I don't see any technical issue on reporting available information via response message immediately, thus I don't think it's necessary to do any change. Do your R&D have technical issue during implementation? Since you said we consider Create/Update response are specific for N5 interface, why not consider Subscribe response as well?

Currently, from the PCF point of view, no matter the event subscribed by which service operation, the PCF just report the applicable infomation immediately if available. But if we remove the eventNotification from Subscribe service operation response, the PCF has to identify different service operations, and then behave accordingly.

e.g. when the event "Access Network information" is subscribed, PCF needs to identify whether it subscribed by Subscribe service operation, if YES, the PCF shall not report the applicable information immediately, but report by invoking the Notify service operation request. Otherwise, the PCF shall report the applicable information immediately via response.

Moreover, for the following case, it's quite strange if the PCF report the subscription failure to the AF in another service request instead of in the Subscribe response, unless we modify EventsSubscReqData included in the Subscribe response to cover this.

Ericsson: I support ZTE replies. Though it might have been a design option to return events notification always in a separate notification instead of in the Create, Update and Subscribe response it was decided to piggy back it in the reply because of several reasons:

Events subscription is typically linked to service request. It can be treated as AF requested information returned in the response to ease application logic.

Other APIs behave in the same way, as 29.594, where current counter status information is returned in the response to the subscription request.

It is not a full fledged Event Exposure, where it is allowed a high flexibility in the subscription requests and kind of requested reports, that may lead to specialize listeners for listeners of different subscriptions. 29.514 and 29.594 are quite limited in that sense.

The CR is aiming to solve an existing problem in the response to a PUT request. If the proposed solution is incorrect we’ll need to discuss a different solution for the response to the PUT request. But it is correct.

Huawei: Could you please explain why this CR is BC?

Ericsson: The OpenAPI file is updated only changing the place of the schema definition, i.e. from an explicit definition to a reference

I see we have to change Description by description, but I do not see any NBC problem above. Where there would it be?

Huawei: But current EventsSubscPutData definition is not what you described.

Ericsson: it is .5.6.2.x1. It is according 29.501, 5.3.10… Or, where do you see a misalignment?

Huawei: Here EventsSubscReqData is mandatory.

EventsSubscReqData and EventsNotification can be both included.

But in the OpenAPI you described any of them is included.

Ericsson: The API allows that EventsSubscReqData is not present, but by procedures, it will be always included.

There is no NBC problem with it. The other way around, mandatory in the OpenAPI, optional in the procedures, would. Or changing anything from mandatory to optional.

Ok, I can align tables and clarify descriptions.

ZTE: In order to align with the openAPI file, C3-202041/2042 are updated to change EventsSubscReqData from M to C. Revision available,

Huawei: The NOTE in table 5.6.2.x1 allows both of EventsSubscReqData and EventsNotification appeared. So it is not equivalent to the existing OpenAPI file

ZTE: "anyOf" means a list of non-exclusive alternatives, you can double check in TS 29.501.

Huawei: But from the description part in the clause 4.2.6.2, the EventsSubscReqData is mandatory.

Please check the OpenAPI file, it can’t pass the OpenAPI check.

ZTE: the API allows thatEventsSubscReqData is not present, but by procedures, it will be always included. There is no NBC problem with it. The other way around, mandatory in the OpenAPI, optional in the procedures, would. Or changing anything from mandatory to optional. No see any problem with the OpenAPI file.

Huawei is ok with the revision.

Nokia: Since a description can also force something NBC, could you confirm that nothing is changed in the description part from optional to mandatory, please.

ZTE: In the old descrption part, the PCF shall include a response body with the "EventsSubscPutData" data type, and may also include the attributes of the "EventsNotification" data type.

We keep it as it is, there is nothing changed from O to M.

Ericsson: OpenAPI file already considered optionality in the described fields.

In the main body of the specification, the CR is not changing the Mandatory/Optional nature of the data handled, but gathering them appropriately in a data type (tables were representing the information incorrectly).

Nokia is fine with it.

**Decision:** The document was **revised to C3-202518**.

**C3-202518 Correction to PUT response for Events Subscription**

*Type: CR For: Agreement  
 29.514 v15.6.0 CR-0198 rev 1 Cat: F (Rel-15)  
  
 Source: ZTE, Ericsson*

(Replaces C3-202041)

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

**C3-202042 Correction to PUT response for Events Subscription**

*Type: CR For: Agreement  
 29.514 v16.4.0 CR-0199 Cat: A (Rel-16)  
  
 Source: ZTE, Ericsson*

**Decision:** The document was **revised to C3-202519**.

**C3-202519 Correction to PUT response for Events Subscription**

*Type: CR For: Agreement  
 29.514 v16.4.0 CR-0199 rev 1 Cat: A (Rel-16)  
  
 Source: ZTE, Ericsson*

(Replaces C3-202042)

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

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

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

**C3-202287 Correct supported feature in AnalyticsData**

*Type: CR For: Agreement  
 29.520 v15.5.0 CR-0168 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202478**.

**C3-202478 Correct supported feature in AnalyticsData**

*Type: CR For: Agreement  
 29.520 v15.5.0 CR-0168 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson*

(Replaces C3-202287)

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

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

**C3-202276 Correct access challenge**

*Type: CR For: Agreement  
 29.561 v15.3.0 CR-0026 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Discussion:**

CP-183243 (CT1 leading)

Nokia:

Maybe we can take the opportunity to replace AMF with SMF, in the change for 29.561, clause 11.2.1 in this CR and the mirror: Step 18-19. The AMF requests to stop accounting by sending the Accounting-Request (STOP) message to the DN-AAA via the UPF and the DN-AAA responds with the Accounting-Response (STOP) message.

Ericsson: Comments considered and r1 available.

Huawei: In the cover page, you mentioned that if the RADIUS server supports EAP, it MUST respond with an Access-Challenge packet containing an EAP-Message attribute. Currently, NOTE in the table says shall be present if EAP is used. Why do you say it is not consistent?

In the cover page, feature name eSessionABMR is used in several places instead of eSessionAMBR. I don't see the change.

Ericsson:

Since those messages (e.g. access-request) may be used only for requesting IP address or reporting IP address change, so the note is correct.

What I corrected is that if EAP is used, Access-Cha. Is mandatory step to be included in the procedure.

Clarification about where the change for the feature name applies.

To further explain on the change of 11.3.3:

If we have the statement “shall be present if EAP is used” for Access-cha.’s EAP message attribute, it gives wrong expression that 5G version Access-cha. may not include EAP related attribute and this is incorrect in the context of 5G authentication.

Huawei is fine.

**Decision:** The document was **revised to C3-202479**.

**C3-202479 Correct access challenge**

*Type: CR For: Agreement  
 29.561 v15.3.0 CR-0026 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson*

(Replaces C3-202276)

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

**C3-202277 Correct access challenge**

*Type: CR For: Agreement  
 29.561 v16.3.0 CR-0027 Cat: A (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202480**.

**C3-202480 Correct access challenge**

*Type: CR For: Agreement  
 29.561 v16.3.0 CR-0027 rev 1 Cat: A (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202277)

**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)

**C3-202043 internalGroupId in Influence Data**

*Type: CR For: Agreement  
 29.519 v15.6.0 CR-0178 Cat: F (Rel-15)  
  
 Source: ZTE*

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

**C3-202044 internalGroupId in Influence Data**

*Type: CR For: Agreement  
 29.519 v16.3.0 CR-0179 Cat: A (Rel-16)  
  
 Source: ZTE*

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

**C3-202271 Correction to notifications of Operator Specific Data changes**

*Type: CR For: Agreement  
 29.519 v16.3.0 CR-0185 Cat: A (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202521**.

**C3-202521 Correction to notifications of Operator Specific Data changes**

*Type: CR For: Agreement  
 29.519 v16.3.0 CR-0185 rev 1 Cat: A (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202271)

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

**C3-202272 Correction to notifications of Operator Specific Data changes**

*Type: CR For: Agreement  
 29.519 v15.6.0 CR-0186 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Discussion:**

Huawei:

1. We don’t see the 1st problem since the value of the key is included within the OperatorSpecificDataContainer data type.

2. Separate notifications can be sent if more than one peratorSpecificDataContainer is received.

3. The new attribute may be ignored since no feature negotiation.

4. What does ‘This attribute should be transitioned out of usage and "opSpecDataMap" should be used instead.’ mean?

5. We prefer to change from Rel-16

Ericsson:

1. Unfortunately the OperatorSpecificDataContainer does not include an attribute with the key of the map. In our 29.519, in the PolicyDataChangeNotification, attribute opSpecData we miss the key information, i.e., when including {“dataType”:”string”, “value”:”xyzv”} the client needs a preconfigured knowledge, validation of the values included in the “value” attribute, or any other addition in order to identify if the notification is referring to a “name” or an “id”.

2. Yes, this is an alternative. Another alternative is that, since the notification includes an array of PolicyDataChangeNotification, only one notification is sent, with several instances. It is not specified which alternative to use. It may lead to some implementation, or interpretation errors.

3. The intention is that implementations move as soon as possible to the new proposed attribute, since the old one, “opSpecData” is not working.

4. The intention is that implementations move as soon as possible to the new proposed attribute, since the old one, “opSpecData” is not working.

5. Then Rel-15 will not properly work and risks of interoperability problems with different vendors implementing different solutions. The fix is needed from Rel-15

Huawei:

1. Introduce feature to support the new proposal

2. Add description for opSpecDataMap attribute in subclause 5.4.21.11 that The key of the map is operator specific data element name and the value is the operator specific data of the UE.

3. Change description for opSpecData attribute in subclause 5.4.2.11 that ‘it may only be used when the receiver of the notification…..’

4. Could you reword the ‘This attribute should be transitioned out of usage and "opSpecDataMap" should be used instead.’ to make it easy to read.

Ericsson makes a revision available.

Huawei proposes some rewording and to change it as a note.

Ericsson makes r2 available.

Huawei: Suggest use OpSpecDataMapNotification as the feature name.

**Decision:** The document was **revised to C3-202520**.

**C3-202520 Correction to notifications of Operator Specific Data changes**

*Type: CR For: Agreement  
 29.519 v15.6.0 CR-0186 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson*

(Replaces C3-202272)

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

**C3-202278 Correct content type in PATCHing traffic influence application data**

*Type: CR For: Agreement  
 29.519 v15.6.0 CR-0187 Cat: F (Rel-15)  
  
 Source: Ericsson*

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

**C3-202279 Correct content type in PATCHing traffic influence application data**

*Type: CR For: Agreement  
 29.519 v16.3.0 CR-0188 Cat: A (Rel-16)  
  
 Source: Ericsson*

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

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

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

**C3-202133 Loss of connectivity reason**

*Type: CR For: Agreement  
 29.522 v15.5.0 CR-0158 Cat: F (Rel-15)  
  
 Source: Huawei*

**Discussion:**

Huawei:

CT4 already discussed and agreed to only report the loss of connectivity reason from AMF to the NEF in Rel-16 not Rel-15 (C4-202195/2196), hence, the NEF can’t report it either to the AF in Rel-15. R1 available.

Ericsson:

29.122 already says the loss of connectivity reason is conditional:

If "monitoringType" is "LOSS\_OF\_CONNECTIVITY", this parameter shall be included if available

In 5G NEF, since it is not received so it is not reported to the AF, the current description is good enough in R15 and if there is any need for R16, let’s discuss it in R16 thread.

Huawei:

My proposal is that the loss of connectivity reason is not applicable in Rel-15, not just conditional to be included if available for Loss of connectivity event. From the implementation point of view, if the NEF does not receive any reason for loss of connectivity, but may provide the value by itself by mistake. In stage 3, more precise description is more helpful for the product, otherwise, may cause misoperation.

Ericsson:

NEF itself doesn’t generate any cause reason (no description in 23.682 or 23.502 says SCEF/NEF generated reason). Also as a reference, you can also see in 29.512, we use “if available” as condition for SMF if something is received or can be derived from other info received:

The SMF shall include (if available) in SmPolicyContextData data structure:

- SUPI of the user within the "supi" attribute;

- PDU Session Id within the "pduSessionId" attribute;

- DNN within the "dnn" attribute;

Actually the loss of conn. reason is auxiliary information for the AF and we should only focus on R16 possible improvement at this stage.

Nokia:

I would agree that loss of connectivity is not supported in Release 15 and we should not bypass this by the introduction of a kind of NEF functionality. In my understanding the CR may lead to misunderstandings even.

Huawei: I already revised the CR to clarify the loss of connectivity reason is not supported by Rel-15 since CT4 didn’t introduce that from Rel-15 but from Rel-16.

I think we should mention in Rel-15 that it’s not supported due to currently, loss of connectivity reason is applicable to R15 as defined in TS 29.122.

Huawei makes r2 available.

Nokia is fine with r2.

Ericsson: This is non-FASMO correction, as I explained the current mechanism ensures no self-generated NEF reason.

Nokia: can you explain this a little bit to me, because I agree with that NEF shall not do something by itself. My understanding was that the sentence “the lossOfConnectReason attribute within MonitoringEventReport data type is not applicable for 5GS.” Is ok, because the part of the sentence related to the values in the first version is removed.

Ericsson: The CR cover sheet says the “reason” shall be provided to the AF, which is not true.

29.122 already says the loss of connectivity reason is conditional, not mandatory. In 5G NEF, since it is not available when NEF receives the report from AMF so it is not relayed to the AF, the current description is good enough in R15 and the specification is correct as it is.

Huawei: But currently, the loss of connectivity reason IE is still applicable for 5GS, which should be not, right?

Nokia: according to the copy Wenliang included below and the red text “if available”, I think the CR is not required now. So the attribute is not used, because there is no information that uses it.

Huawei: I still think this is necessary, since the NEF may provide this value by mistake or other reasons if not received from AMF due to the IE is still applicable for 5G, which should not.

We will consider to introduce this when a TS 29.522 Rel-15 CR is agreed in CT3.

Nokia: I think such a mistake only can do an NEF with too much intelligence. Normally the mistake should not occur.

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

**C3-202134 Loss of connectivity reason**

*Type: CR For: Agreement  
 29.522 v16.3.0 CR-0159 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-202446**.

**C3-202183 Periodic reporting by Nnef**

*Type: CR For: Agreement  
 29.522 v15.5.0 CR-0168 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**C3-202184 Periodic reporting by Nnef**

*Type: CR For: Agreement  
 29.522 v16.3.0 CR-0169 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-202445**.

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

**C3-202288 Correct use of application error**

*Type: CR For: Agreement  
 29.521 v15.5.0 CR-0072 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Discussion:**

C3-202288 and C3-202328 are merged into C3-202468

**Decision:** The document was **revised to C3-202468**.

**C3-202468 Correct use of application error**

*Type: CR For: Agreement  
 29.521 v15.5.0 CR-0072 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson, China Mobile Communications Group Co.,Ltd.*

(Replaces C3-202288)

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

**C3-202289 Correct use of application error**

*Type: CR For: Agreement  
 29.521 v16.3.0 CR-0073 Cat: A (Rel-16)  
  
 Source: Ericsson*

**Discussion:**

C3-202289 and C3-202329 are merged into C3-202469

**Decision:** The document was **revised to C3-202469**.

**C3-202469 Correct use of application error**

*Type: CR For: Agreement  
 29.521 v16.3.0 CR-0073 rev 1 Cat: A (Rel-16)  
  
 Source: Ericsson, China Mobile Communications Group Co.,Ltd.*

(Replaces C3-202289)

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

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

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

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

**C3-202057 Location header of 307 status code**

*Type: CR For: Agreement  
 29.525 v15.4.0 CR-0079 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-202470**.

**C3-202470 Location header of 307 status code**

*Type: CR For: Agreement  
 29.525 v15.4.0 CR-0079 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces C3-202057)

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

**C3-202058 Location header of 307 status code**

*Type: CR For: Agreement  
 29.525 v16.3.0 CR-0080 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-202471**.

**C3-202471 Location header of 307 status code**

*Type: CR For: Agreement  
 29.525 v16.3.0 CR-0080 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202058)

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

**C3-202065 Notification URI**

*Type: CR For: Agreement  
 29.525 v15.4.0 CR-0081 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-202472**.

**C3-202472 Notification URI**

*Type: CR For: Agreement  
 29.525 v15.4.0 CR-0081 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces C3-202065)

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

**C3-202066 Notification URI**

*Type: CR For: Agreement  
 29.525 v16.3.0 CR-0082 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-202473**.

**C3-202473 Notification URI**

*Type: CR For: Agreement  
 29.525 v16.3.0 CR-0082 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202066)

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

**C3-202187 Description of scopes field and presenceStatus attribute**

*Type: CR For: Agreement  
 29.525 v15.4.0 CR-0084 Cat: F (Rel-15)  
  
 Source: Ericsson*

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

**C3-202188 Description of scopes field and presenceStatus attribute**

*Type: CR For: Agreement  
 29.525 v16.3.0 CR-0085 Cat: A (Rel-16)  
  
 Source: Ericsson*

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

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

#### 15.2.17 5G Impacts in existing TSs

**C3-202131 Periodic reporting by Nnef**

*Type: CR For: Agreement  
 29.122 v15.6.0 CR-0238 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**C3-202132 Periodic reporting by Nnef**

*Type: CR For: Agreement  
 29.122 v16.5.0 CR-0239 Cat: A (Rel-16)  
  
 Source: Huawei*

**Discussion:**

Change WI to eNAPIs.

Ericsson: More importantly the requirement for UDM and AMF is not clear, whether UDM/AMF will also support periodic reporting for all events?

Probably we also need to align what will be agreed in CT4 to clarify applicable event id(s) for periodical reporting.

maximumNumberOfReports set to 1 it implies “one time”, how to handle the conflict when the new attribute is present and maximumNumberOfReports=1?

Any consideration about feature support? What if the AF includes periodic time but not receiving any report periodically?

Huawei:

Currently, TS 29.503 already supported periodic reporting for all events, and this CT4 meeting, Huawei also submit a CR to introduce Periodic reporting for AMF, which seems acceptable.

For AMF, it should also be applicable for all events similar as continues reporting, right? But I can align with CT4, only applicable for Location reporting and number of UEs in an area.

maximum number of reports sets to 1 and both attributes provided together during subscription, in my understanding, the subscription will turn to be invalid when one of the conditions is reached, e.g. if the event report is sent before the periodic timer expires or should be sent when the periodic timer expires.

CT4 didn’t add feature for periodic reporting or this kind of small issue. If no feature is defined, the AF will just wait for the event report when the event is detected

WI to be changed to eNAPIs. Revision under Agenda Item 16.21.

Ericsson: I still have doubt, one time report and periodic reporting are mutual exclusive, see 29.508, 5.6.3.4.

**Decision:** The document was **revised to C3-202447**.

**C3-202286 Correct RAT type**

*Type: CR For: Agreement  
 29.061 v15.5.0 CR-0511 Cat: F (Rel-15)  
  
 Source: Ericsson*

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

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

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

**C3-202129 Event of Usage Threshold**

*Type: CR For: Agreement  
 29.122 v15.6.0 CR-0236 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-202448**.

**C3-202448 Event of Usage Threshold**

*Type: CR For: Agreement  
 29.122 v15.6.0 CR-0236 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces C3-202129)

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

**C3-202130 Event of Usage Threshold**

*Type: CR For: Agreement  
 29.122 v16.5.0 CR-0237 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-202449**.

**C3-202449 Event of Usage Threshold**

*Type: CR For: Agreement  
 29.122 v16.5.0 CR-0237 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202130)

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

**C3-202282 Correct GMDviaMBMSbyxMB openAPI error**

*Type: CR For: Agreement  
 29.122 v15.6.0 CR-0242 Cat: F (Rel-15)  
  
 Source: Ericsson*

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

**C3-202283 Correct GMDviaMBMSbyxMB openAPI error**

*Type: CR For: Agreement  
 29.122 v16.5.0 CR-0243 Cat: A (Rel-16)  
  
 Source: Ericsson*

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

**C3-202304 Correct NIDD API**

*Type: CR For: Agreement  
 29.122 v15.6.0 CR-0244 Cat: F (Rel-15)  
  
 Source: Ericsson*

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

**C3-202305 Correct NIDD API**

*Type: CR For: Agreement  
 29.122 v16.5.0 CR-0245 Cat: A (Rel-16)  
  
 Source: Ericsson*

**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]

**C3-202292 Correct API publish procedure**

*Type: CR For: Agreement  
 29.222 v15.5.0 CR-0132 Cat: F (Rel-15)  
  
 Source: Ericsson*

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

**C3-202293 Correct API publish procedure**

*Type: CR For: Agreement  
 29.222 v16.2.0 CR-0133 Cat: A (Rel-16)  
  
 Source: Ericsson*

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

**C3-202294 Correct ServiceAPIDescription**

*Type: CR For: Agreement  
 29.222 v15.5.0 CR-0134 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202450**.

**C3-202450 Correct ServiceAPIDescription**

*Type: CR For: Agreement  
 29.222 v15.5.0 CR-0134 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson*

(Replaces C3-202294)

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

**C3-202295 Correct ServiceAPIDescription**

*Type: CR For: Agreement  
 29.222 v16.2.0 CR-0135 Cat: A (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202451**.

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

### [bSRVCC-MT]

### 15.14 Mobile Communication System for Railways

### [MONASTERY]

### 15.15 Enhancements to Call spoofing functionality

### [eSPECTRE]

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

### 15.17 Technical Enhancements and Improvements [TEI15]

#### 15.17.1 TEI15 for IMS/CS

#### 15.17.2 TEI15 for Packet Core

**C3-202019 Missing annex A.10.5 (network provided location information at SIP session release)**

*Type: CR For: Agreement  
 29.214 v15.7.0 CR-1638 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**C3-202020 Missing annex A.10.5 (network provided location information at SIP session release)**

*Type: CR For: Agreement  
 29.214 v16.2.0 CR-1639 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**C3-202315 LS on Group Message Delivery**

*Type: LS out For: Approval  
 to SA4, SA2  
 Source: Ericsson*

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

**C3-202328 Align the HTTP response code**

*Type: CR For: Agreement  
 29.521 v15.5.0 CR-0077 Cat: F (Rel-15)  
  
 Source: China Mobile Communications Group Co.,Ltd.*

**Discussion:**

C3-202288 and C3-202328 are merged into C3-202468

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

**C3-202329 Align the HTTP response code**

*Type: CR For: Agreement  
 29.521 v16.3.0 CR-0078 Cat: A (Rel-16)  
  
 Source: China Mobile Communications Group Co.,Ltd.*

**Discussion:**

C3-202289 and C3-202329 are merged into C3-202469

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

**C3-202330 Clarification on FlowDescription**

*Type: CR For: Agreement  
 29.214 v15.7.0 CR-1641 Cat: F (Rel-15)  
  
 Source: China Mobile Communications Group Co.,Ltd.*

**Decision:** The document was **revised to C3-202474**.

**C3-202474 Clarification on FlowDescription**

*Type: CR For: Agreement  
 29.214 v15.7.0 CR-1641 rev 1 Cat: F (Rel-15)  
  
 Source: China Mobile Communications Group Co.,Ltd.*

(Replaces C3-202330)

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

**C3-202331 Clarification on FlowDescription**

*Type: CR For: Agreement  
 29.214 v16.2.0 CR-1642 Cat: A (Rel-16)  
  
 Source: China Mobile Communications Group Co.,Ltd.*

**Decision:** The document was **revised to C3-202475**.

**C3-202475 Clarification on FlowDescription**

*Type: CR For: Agreement  
 29.214 v16.2.0 CR-1642 rev 1 Cat: A (Rel-16)  
  
 Source: China Mobile Communications Group Co.,Ltd.*

(Replaces C3-202331)

**Decision:** The document was **revised to C3-202524**.

**C3-202524 Clarification on FlowDescription**

*Type: CR For: Agreement  
 29.214 v16.2.0 CR-1642 rev 2 Cat: A (Rel-16)  
  
 Source: China Mobile Communications Group Co.,Ltd.*

(Replaces C3-202475)

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

### 15.18 OpenAPI version updates

### 16.1 Rel-16 Work Items

#### 16.1.1 New or revised Work Items

**C3-202028 Revised WID on CT aspects of eV2XARC**

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

(Replaces CP-200291)

**Abstract:**

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

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

#### 16.1.2 Contributions on Work Items

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

**C3-202177 Adding the MuD service for the option Item table over the roaming II-NNI.**

*Type: CR For: Agreement  
 29.165 v16.2.0 CR-1007 Cat: F (Rel-16)  
  
 Source: NTT corporation*

**Discussion:**

CP-200148 (CT1 leading)

Ericsson:

a "+g.3gpp.registration-token" Contact header field parameter (during registrations) and a "+g.3gpp.registration-token" Feature-Caps header field parameter (in initial requests or stand-alone transactions) are exchanged only between the S-CSCF and the AS (as specified in TS 24.229) and thus the "+g.3gpp.registration-token" cannot be sent over II-NNI.

CR also proposes splitting of clause 12.26 into subclause for MiD service and subclause for MuD service and I do not have problem with this change.

However, if you want to keep this change within this CR then the CR title needs to be accordingly updated.

NTT: Will change as below:

- remove the change for addition the option item,

- remove the sentence "A "+g.3gpp.registration-token" Contact header field parameter

(as defined in 3GPP TS 24.229 [5] subclause 7.9.7) shall be supported over the roaming

II-NNI." from the subclause 12.26.1, and

- modify the coverpage.

**Decision:** The document was **revised to C3-202358**.

**C3-202358 Adding the MuD service for the option Item table over the roaming II-NNI.**

*Type: CR For: Agreement  
 29.165 v16.2.0 CR-1007 rev 1 Cat: F (Rel-16)  
  
 Source: NTT corporation*

(Replaces C3-202177)

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

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

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

**C3-202045 Corrections on SamePcf**

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

**Decision:** The document was **revised to C3-202429**.

**C3-202429 Corrections on SamePcf**

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

(Replaces C3-202045)

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

**C3-202069 Cause Mapping of VALIDATION\_CONDITION\_NOT\_MET**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0445 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-202430**.

**C3-202430 Cause Mapping of VALIDATION\_CONDITION\_NOT\_MET**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0445 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202069)

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

**C3-202070 Clarification of PCF selection by the AMF and SMF**

*Type: CR For: Agreement  
 29.513 v16.3.0 CR-0137 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**C3-202071 Correction on QoS Flow Binding for QoS Flow Behaviour**

*Type: CR For: Agreement  
 29.513 v16.3.0 CR-0138 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-202431**.

**C3-202431 Correction on QoS Flow Binding for QoS Flow Behaviour**

*Type: CR For: Agreement  
 29.513 v16.3.0 CR-0138 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202071)

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

**C3-202072 Correction to PCC rule Authorization**

*Type: CR For: Agreement  
 29.513 v16.3.0 CR-0139 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**C3-202073 Correction to binding information procedures**

*Type: CR For: Agreement  
 29.513 v16.3.0 CR-0140 Cat: B (Rel-16)  
  
 Source: Huawei*

**Discussion:**

Ericsson: agrees on the proposed CR with the following comments:

Wording in 8.2.4 can be improved

The BSF sends an HTTP "200 OK" response to the AF/NEF with the address information of the selected PCF (e.g. Npcf\_PolicyAuthorization service FQDN and/or IP Endpoint(s) of the selected PCF hosting the Npcf\_PolicyAuthorization service, or if the PCF supports the Rx interface the Diameter host and realm for the selected PCF).

8.5.3, clarify:

If the BindingUpdate feature is not supported, when the IP address is released or the MAC address is not used for a certain PDU session; or

if the BindingUpdate feature is supported, when the IP address or MAC address is the last IP address or MAC address within the binding information;

the PCF invokes the Nbsf\_Management\_Deregister (…)

Huawei:

For the 2nd comment. I have different opinion.

My proposal has cover both cases. The IP address or MAC address is the last IP address or MAC address within the binding information, the binding information is removed. For the case that Binding Update feature is not supported, the only one address is included in one binding information and it is also the last address in the binding information. Revision available.

Ericsson:

I believe it is more clear if we include the feature support.

Implicitly “last address” implies that there might have been more addresses before, and that’s only possible when the BindingUpdate feature is supported.

ZTE: We have BindingUpdate feature and MultiUeAddr feature which are introduced in Rel-16, when we talking about "last address" in the BSFbinding, usually we refers to MultiUeAddr. Meanwhile from Rel-15, containing the IPV4IPV6(dual) addresses in one BSFbinding is supported, when only one address is released (the other one is not), the BSFbinding will be removed if BindingUpdate feature is not supported.

Complicate scenarios to be considered in the CR.

Huawei: As this is a CR for 29.513, I think a general description to cover all the cases is enough. A proposal is made and r3 is made available.

ZTE: "the IP address or the MAC address is the last address for the binding information if the "BindingUpdate" is supported"

It's not correct, even if the "BindingUpdate" is not supported, the Deregister shall be invoked when the last address is released or not used.

Huawei: I make some examples in the bracket.

ZTE: When I read the example, I understand that the BindingUpdate feature support is the condition.

The purpose of example is to help readers understand, right?

Besides, missing word "feature" after the feature name.

Huawei: I can remove this example.

Huawei makes r3 available.

ZTE: could you include MultiUeAddr feature support for MAC address case in clause 8.5.7?

Huawei makes a revision available.

ZTE: Editorial mistakes.

Ericsson: no any -> no

Huawei makes r5 available.

ZTE and Ericsson are fine with r5.

**Decision:** The document was **revised to C3-202432**.

**C3-202432 Correction to binding information procedures**

*Type: CR For: Agreement  
 29.513 v16.3.0 CR-0140 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202073)

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

**C3-202074 Same PCF selection support**

*Type: CR For: Agreement  
 29.513 v16.3.0 CR-0141 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-202433**.

**C3-202433 Same PCF selection support**

*Type: CR For: Agreement  
 29.513 v16.3.0 CR-0141 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202074)

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

**C3-202075 Correction to the DNN replacement**

*Type: CR For: Agreement  
 29.507 v16.3.0 CR-0112 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-202434**.

**C3-202434 Correction to the DNN replacement**

*Type: CR For: Agreement  
 29.507 v16.3.0 CR-0112 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202075)

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

**C3-202076 Enable removing the policy decision**

*Type: CR For: Agreement  
 29.507 v16.3.0 CR-0113 Cat: B (Rel-16)  
  
 Source: Huawei*

**Discussion:**

Ericsson: The changes proposed by the CR are not backwards compatible, and Ericsson does not see the need of these updates:

• Why is this change request necessary?

Huawei: I received the requirement from my R&D colleague. At least they have the use case to remove the RFSP index.

It is NBC.Check if a default value can apply.

Huawei: I add a new attribute for RFSP removal and a new supported feature to control. Now it is BC. Revision available.

Ericsson: Since the AMF would always apply a RFSP towards the Access Network, what would the AMF do when it receives a NULL value from the PCF?

If in this case the AMF applies a default RFSP values, why is it needed the PCF returns a NULL value? Would it not be enough if the PCF returns the default value?

Huawei: What do you mean “default value”? Is it the value reported by the AMF?

Do you mean that PCF store the value reported by the AMF?

Ericsson: What does the AMF do towards NG-RAN if it receives RFSP value null?

Huawei: I propose that AMF will apply the configured RFSP or the RSFP from the UDM.

Ericsson: why is it not enough that the PCF instead of returning a null value returns the AMF configured RFSP or the RFSP from UDM?

Huawei: Do you mean the PCF can remember the value report by the AMF?

Ericsson: I mean that I do not see any difference with other attributes, as the APN-AMBR for Gx , or the Session AMBR, authorized QoS for N7.

It’s been typically implementation specific and not a matter of the interface or protocol encoding.

If you need any NOTE in the spec or equivalent clarifications we can discuss it.

Huawei: Do you have a text proposal for the note?

Ericsson proposes:

NOTE: PCF can stop applying policies to already provided attributes under PolicyUpdate data type. In that case, PCF will modify those attributes by e.g. providing configured values. How the PCF gets those values is out of specification.

Huawei makes r2 available

**Decision:** The document was **revised to C3-202435**.

**C3-202435 Enable removing the policy decision**

*Type: CR For: Agreement  
 29.507 v16.3.0 CR-0113 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202076)

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

**C3-202077 FQDN of alternative AMF**

*Type: CR For: Agreement  
 29.507 v16.3.0 CR-0114 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-202527**.

**C3-202527 FQDN of alternative AMF**

*Type: CR For: Agreement  
 29.507 v16.3.0 CR-0114 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202077)

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

**C3-202078 FQDN of alternative AMF**

*Type: CR For: Agreement  
 29.525 v16.3.0 CR-0083 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**C3-202189 Description of "activationTime" attribute**

*Type: CR For: Agreement  
 29.594 v16.1.0 CR-0046 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**C3-202190 Miscellaneous corrections**

*Type: CR For: Agreement  
 29.594 v16.1.0 CR-0047 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**C3-202258 Correction to Reallocation of Credit**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0476 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202436**.

**C3-202436 Correction to Reallocation of Credit**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0476 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202258)

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

**C3-202259 Local traffic routing policy**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0477 Cat: B (Rel-16)  
  
 Source: Ericsson, China Mobile*

**Decision:** The document was **revised to C3-202499**.

**C3-202499 Local traffic routing policy**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0477 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson, China Mobile*

(Replaces C3-202259)

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

**C3-202284 Correct DataFilter presence condition**

*Type: CR For: Agreement  
 29.519 v16.3.0 CR-0189 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**C3-202285 Correct resourceId in required field**

*Type: CR For: Agreement  
 29.519 v16.3.0 CR-0190 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**C3-202298 Support local traffic routing in session subscription**

*Type: CR For: Agreement  
 29.519 v16.3.0 CR-0191 Cat: B (Rel-16)  
  
 Source: Ericsson, China Mobile*

**Decision:** The document was **revised to C3-202500**.

**C3-202500 Support local traffic routing in session subscription**

*Type: CR For: Agreement  
 29.519 v16.3.0 CR-0191 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson, China Mobile*

(Replaces C3-202298)

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

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

**C3-202035 Clarification of QoS Sustainability**

*Type: CR For: Agreement  
 29.520 v16.3.0 CR-0141 Cat: F (Rel-16)  
  
 Source: China Telecom, Huawei*

**Discussion:**

C3-202229 and C3-202035 are merged into C3-202378

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

**C3-202051 Wrong datatype referred in analytics exposure procedure**

*Type: CR For: Agreement  
 29.522 v16.3.0 CR-0150 Cat: F (Rel-16)  
  
 Source: ZTE*

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

**C3-202052 Condition description for threshold related attributes**

*Type: CR For: Agreement  
 29.520 v16.3.0 CR-0142 Cat: F (Rel-16)  
  
 Source: ZTE*

**Decision:** The document was **revised to C3-202379**.

**C3-202379 Condition description for threshold related attributes**

*Type: CR For: Agreement  
 29.520 v16.3.0 CR-0142 rev 1 Cat: F (Rel-16)  
  
 Source: ZTE*

(Replaces C3-202052)

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

**C3-202053 Some corrections to Nnwdaf\_AnalyticsInfo Service**

*Type: CR For: Agreement  
 29.520 v16.3.0 CR-0143 Cat: F (Rel-16)  
  
 Source: ZTE*

**Decision:** The document was **revised to C3-202380**.

**C3-202380 Some corrections to Nnwdaf\_AnalyticsInfo Service**

*Type: CR For: Agreement  
 29.520 v16.3.0 CR-0143 rev 1 Cat: F (Rel-16)  
  
 Source: ZTE*

(Replaces C3-202053)

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

**C3-202117 Support of multiple network slice instances**

*Type: CR For: Agreement  
 29.520 v16.3.0 CR-0144 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-202506**.

**C3-202506 Clarification on applicability for network slice information**

*Type: CR For: Agreement  
 29.520 v16.3.0 CR-0144 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202117)

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

**C3-202118 Analyticis result per DNN**

*Type: CR For: Agreement  
 29.520 v16.3.0 CR-0145 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-202381**.

**C3-202381 Analyticis result per DNN**

*Type: CR For: Agreement  
 29.520 v16.3.0 CR-0145 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202118)

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

**C3-202119 Maximum number of SUPIs**

*Type: CR For: Agreement  
 29.520 v16.3.0 CR-0146 Cat: F (Rel-16)  
  
 Source: Huawei*

**Discussion:**

Ericsson: TS 23.288 defined maximum number of SUPI,

1) is requested by the consumer to limit the number of SUPIs in an object, Not in the Event Reporting Requirement level as specified in this CR.

2) is presented in Service Experience and Abnormal Behaviour analytics, which has not be specified the specific analytics in this CR.

Huawei:Stage 2 TS 23.288 defined in subclause 6.1.3 that the maximum number of objects is one parameter of analytics reporting information, similar as maximum number of reports. Hence, it should on Event Reporting requirement level, one parameter in the Event reporting requirement is good enough , no need to repeat it in all the related types.

For 2) it’s like sampling ratio, it applicable to all the related events which will provide the results, for example, the sampling ration is not applicable to some single UE events. But if you prefer to indicate the applicability, I am fine to add them.

Huawei: I took a revision and also fulfill the same solution for Nnwdaf\_AnalyticsInfo API. Revision available.

Ericsson:

1) Not align with the definition and scope of SA2 TS 23.288 CR 0119, S2-2002456 ( source from China Mobile, Nokia , Ericsson ).

2) TS 23.288 defines Analytics Reporting Information, Not Analytics Report Requirement as the upper level as EventReportingRequirement and AnalyticsReportingRequirement.

a) Not correct scope: Not All Analytics applicable to maximum number of SUPIs, only Service Experience and Abnormal Behaviour has been defined in SA2.

b) Can’t set different applicable maximum number of SUPIs for different analytics, eg. Service Experience SUPI scope needs could be different from Exception ID maximum SUPIs.

Huawei: What I defined is fully align with stage 2, similar as sampling ratio. I really can’t understand why you insist to define in different way.

Let’s postpone all the CRs till next meeting to stop this endless and repeat argument.

Ericsson: Not agree this CR,

upon defined the maximum number of SUPIs expected for an analytics report & valid for all analytics,

which is Not aligned with SA2 specs. defined maximum number of SUPIs in object, and only specified maximum number of SUPIs in Service Experience and Abnormal Behaviour.

Nokia:

Huawei first CR introduces one parameter in the subscription, maxSupiNbr. My understanding is that this parameter restricts the SUPI per report independent from a subscribed application (it is an area, this could be interpreted as the object), but I think, we can subscribe to more than one application due to the area aspect. As a result we would require the maximum number of SUPis as well (kind of restriction per application). We need both maximum number of objects and maximum number of SUPIs.

In addition the maximum number of SUPIs would be required in the “AnalyticsReportingRequirement” type (29.520, clause 5.2.6.2.4) as well.

Huawei: C3-202119\_r1 has already included the maximum number of SUPIs both in EventReportingRequirement and the AnalyticsReportingRequirement.

Huawei:It’s true that current Analytics reporting information (EventReportingRequirement and AnalyticsReportingRequirement) is applicable for all events subscribed in one NWDAF request.

Huawei will provide CR in next CT3 meeting to make the EventReportingRequirement and AnalyticsReportingRequirement can be different for different events.

But maximum number of SUPIs and objects should be included as part of EventReportingRequirement and AnalyticsReportingRequirement, similar as other parameters, e.g. accuracy, observation time, immediate reporting flag, notification method, monitoring duration, maximum number of reports, sampling ratio etc, as C3-202119\_r1 proposed. For example, different event can also have different observation time, accuracy, immediate reporting flag etc.

Huawei:current TS already support different event subscribes with different event reporting requirement, via different NWDAF service subscriptions.

I can compromise to have the flexible to have both levels in one subscription.

C3-202119\_r2 proposes the whole solution.

Huawei: I checked TS 29.523, TS 29.508, TS 29.517 and TS 29.519, the event reporting related information all applies to all the subscribed events in one subscription. Maybe I missed some other event exposure TS which also have the same issueall CT3’s related TS should be updated accordingly. But seems make the definition more complicated. Current TS also support different event owns different event reporting requirement.

Nokia: as already mentioned in this email thread (see the tables below copied from 23.288), I interpret stage 2 that the maximum number of SUPIs is required for Service Experience statistics and Abnormal behaviour statistics. Now it is generalized, which seems not inline with stage 2. Right?

Huawei: There are two solutions: indicating the features or add an description that it is only applicable for the events which request to send a list of SUPIs during the event notification, something like this.

Nokia: I assume indicating the features is more clear, but than there is the possibility to consolidate with Ericsson’s CRs, I think. May be this is planned anyway??

Huawei: I am always fine to merge Ericsson’s CRs into my proposal.But we need to discuss whether we really want to have the different event reporting requirement for different events in one subscription, since other CT3 TSes,all define the event reporting information for all subscribed events in one subscription.

Ericsson:

1) Agree with Horst comment, r2 extended more scope not defined in SA2.

2) Attribute “evtReqPerEvent” with type EventReportingRequirement , with duplicated notificationMethod and repetitionPeriod existing in EventSubscription.

3) Upon 2119\_r2 starting define 5.1.6.2.3 Type EventSubscription,

Suggest could consider merge into 2224, upon 23.288 clause 6.1.3 described - Analytics Filter Information: indicates the conditions to be fulfilled for reporting Analytics Information.

Huawei:I can add features if really want. But your proposal is far from the whole solution, how this CR can merge into yours? First of all, we need to discuss whether we really want to change all the CT3’s related TSes?

I am also fine to postpone all the CRs to next meeting, we can try to reach agreement before next meeting. At least we still have June meeting before the penary

Ericsson and Huawei continues the discussion.

China Mobile thinks there is no SA2 mistake. Proposes to send the LS.

China Mobile is fine with r2 with some clarifications.

Huawei makes r3 available.

Ericsson disagrees with r3.

Nokia: I would propose to clarify the requirements between this and the next meeting. I think that stage 2 did not make a mistake in 23.288. It would be good to have one CR describing the requirements based on 23.288, clause 6.1.3, …

**Decision:** The document was **revised to C3-202522**.

**C3-202522 Maximum number of SUPIs**

*Type: CR For: Agreement  
 29.520 v16.3.0 CR-0146 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202119)

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

**C3-202120 Correction on FlowDescription**

*Type: CR For: Agreement  
 29.520 v16.3.0 CR-0147 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-202382**.

**C3-202382 Correction on FlowDescription**

*Type: CR For: Agreement  
 29.520 v16.3.0 CR-0147 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202120)

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

**C3-202121 Corrections on QoS requirement**

*Type: CR For: Agreement  
 29.520 v16.3.0 CR-0148 Cat: F (Rel-16)  
  
 Source: Huawei*

**Discussion:**

C3-202302 and C3-202121 are merged into C3-202383

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

**C3-202122 Support of Abnormal behaviour**

*Type: CR For: Agreement  
 29.520 v16.3.0 CR-0149 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-202384**.

**C3-202384 Support of Abnormal behaviour**

*Type: CR For: Agreement  
 29.520 v16.3.0 CR-0149 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202122)

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

**C3-202123 Confidence for User Data Congestion Information**

*Type: CR For: Agreement  
 29.520 v16.3.0 CR-0150 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-202124 Data type used for NWDAF services**

*Type: CR For: Agreement  
 29.520 v16.3.0 CR-0151 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-202385**.

**C3-202385 Data type used for NWDAF services**

*Type: CR For: Agreement  
 29.520 v16.3.0 CR-0151 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202124)

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

**C3-202125 Correction on resource usage**

*Type: CR For: Agreement  
 29.591 v16.0.0 CR-0001 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-202126 Data type used during event subscription**

*Type: CR For: Agreement  
 29.591 v16.0.0 CR-0002 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-202156 Adding new attribute maxSupi in TS 29.520**

*Type: CR For: Agreement  
 29.520 v16.3.0 CR-0152 Cat: F (Rel-16)  
  
 Source: China Telecom*

**Abstract:**

Add the decription and definition of “maxSupi” attribute.

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

**C3-202157 Adding maxAnaEntry attribute in related feature of NWDAF analytics service**

*Type: CR For: Agreement  
 29.520 v16.3.0 CR-0153 Cat: F (Rel-16)  
  
 Source: China Telecom, Huawei*

**Abstract:**

Add “maxAnaEntry” attribute in feature “ServiceExperience”, “QoSSustainability” and “AbnormalBehaviour” of clause 4.3.2.2.2.

**Discussion:**

Huawei:

After considering that the maximum number of objects is one of the parameters for event reporting requirement similar as maximum number of reports, I would like to define it within EventReportingRequirement data type, which is applicable for all the related events.

This document clashes with Ericsson’s C3-202222 and 2223, but since 2157 covers both APIs, I would like to merge 2222 and 2223 into 2157, but go to the way suggested as above.

The document also clashes with Ericsson’s C3-202224, 2225, 2226, 2227, but as I commented in C3-202222/2223, the overlapping changes should be merged, or removed from these documents, I prefer to remove the maximum number of objects from these proposals, since 2222/2223 is to support the maximum number of objects.

China Telecom: Agree to define it as EventReportingRequirement data type.

To Ericsson: I want to know if it's OK with Ericsson's C3-202222 and 2223,

if so, I'd like to merge them into 2157, and I will upload the revised file.

Ericsson:

1) Missing subclause 4.2.2.2.2 related maxAnaEntry descriptions for the updates in subclause 5.1.6.2.3 ;

2) Missing related description for TS 23.288 Subclause 6.8.3 defined “The number of user data congestion analytics entries is limited by the maximum number of objects provided as input parameter”.

3) Clash with Ericsson CRs add maxAnaEntry covering ServiceExperience, AbnormalBehaviour, UserDataCongestion, QoSSustainability, I could add them up in C3-202222 and C3-202223 respectively, suggest C3-202157 merge into C3-202222 and C3-202223 accordingly.

China Telecom:I agree to define it as EventReportingRequirement data type.

I want to know if it's OK with Ericsson's C3-202222 and 2223, if so, I'd like to merge them into 2157, and I will upload the revised file.

Ericsson:

Sorry I can’t agree, please see my comments to C3-202157 and reply to C3-20202222 & 2223 just sent, with contents as below :

1) Missing subclause 4.2.2.2.2 related maxAnaEntry descriptions for the updates in subclause 5.1.6.2.3 ;

2) Missing related description for TS 23.288 Subclause 6.8.3 defined “The number of user data congestion analytics entries is limited by the maximum number of objects provided as input parameter”.

3) Clash with Ericsson CRs add maxAnaEntry covering ServiceExperience, AbnormalBehaviour, UserDataCongestion, QoSSustainability, I could add them up in C3-202222 and C3-202223 respectively, suggest C3-202157 merge into C3-202222 and C3-202223 accordingly.

Maximum number of objects defined in TS 23.288, is not on Event Report Requirement level, still analytics entries as below specified, valid both to event subscription/notify and request/response.

a. Subclause 6.8.3, The number of user data congestion analytics entries is limited by the maximum number of objects provided as input parameter.

b. Subclause 6.9.3, The number of QoS sustainability analytics entries is limited by the maximum number of objects provided as input parameter.

& also capable to have the flexibility to defined the needed different value of maxAnaEntry for different analytics, align with the analytics entries mapping the object concept.

Huawei: Stage 2 TS 23.288 defined in subclause 6.1.3 that the maximum number of objects is one parameter of analytics reporting information, similar as maximum number of reports.

Hence, it should on Event Reporting requirement level, no need to repeat it in all the related types.

I still prefer to merge 2222 and 2223 into 2157, but go to the way I mentioned, one parameter in the Event reporting requirement is good enough.

Ongoing discussions on whether the info is Analytics Reporting level or event reporting level.

China Telecom makes a revision available. R2 available.

Ongoing discussions on analytic reporting vs event reporting.

Huawei: I am fine with r2, only one comment is that we need to merge 2222 and 2223 into 2157.

And 2224, 2225, 2226 and 2227 should avoid the clash with this CR.

Ericsson does not agree on this version. Issues provided.

Huawei proposes to postpone all the affected CRs.

China Mobile: I propose to keep maximum number of objects per analytics id at least.

The Summary of change of 23.288 CR119 shows:

- Add the definition for Maximum number of results parameter into clause 6.1.3. ...

- Add the Maximum number of objects parameter into the NF Load analytics, Network Performance analytics, User Data Congestion analytics and QoS Sustainability analytics.

And I believe both the limit of maximum number of objects per Nnwdaf\_AnalyticsSubscription\_Notify or Nnwdaf\_AnalyticsInfo\_Request response and also per event should be applied.

China Mobile: After checking with China Mobile's SA2 delegate, I just porpose to keep maximum number of objects per event only.

Huawei: C3-202157\_r2 supports that the maximum number of objects applies to each event indicated by the eventSubscriptions attribute. Actually, all the parameters defined in EventReportingRequirement data applies to each event via eventSubscriptions attribute.

Huawei makes r3 available.

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

**C3-202158 Adding UDM as consumer of services provided by NWDAF**

*Type: CR For: Agreement  
 29.520 v16.3.0 CR-0154 Cat: F (Rel-16)  
  
 Source: China Telecom, Huawei*

**Abstract:**

Add UDM as one of Nnwdaf\_EventsSubscription service and Nnwdaf\_AnalyticsInfo service consumers.

**Decision:** The document was **revised to C3-202386**.

**C3-202386 Adding UDM as consumer of services provided by NWDAF**

*Type: CR For: Agreement  
 29.520 v16.3.0 CR-0154 rev 1 Cat: F (Rel-16)  
  
 Source: China Telecom, Huawei*

(Replaces C3-202158)

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

**C3-202159 Corrections on descriptions of NF service consumers offered by NWDAF**

*Type: CR For: Agreement  
 29.520 v16.3.0 CR-0155 Cat: F (Rel-16)  
  
 Source: China Telecom, Huawei*

**Abstract:**

Correct some descriptions of Nnwdaf\_EventsSubscrption service and Nnwdaf\_AnalyticsInfo service related NF service consumers.

i.e. SMF as consumer in Nnwdaf\_EventsSubscrption service

AMF and SMF as consumers in Nnwdaf\_AnalyticsInfo service

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

**C3-202163 Corrections on Network data analytics Subscribe procedure**

*Type: CR For: Agreement  
 29.513 v16.3.0 CR-0147 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-202170 Update service operation for Ue Communication**

*Type: CR For: Agreement  
 29.517 v16.0.0 CR-0001 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-202171 Corrections in TS 29.517**

*Type: CR For: Agreement  
 29.517 v16.0.0 CR-0002 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-202178 Adding “maxReportNbr” attribute**

*Type: CR For: Agreement  
 29.520 v16.3.0 CR-0156 Cat: F (Rel-16)  
  
 Source: China Telecom*

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

**C3-202193 Definition of AfEventExposureSubsc in OpenAPI**

*Type: CR For: Agreement  
 29.517 v16.0.0 CR-0003 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**C3-202194 Unsubscribe service operation**

*Type: CR For: Agreement  
 29.517 v16.0.0 CR-0004 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202508**.

**C3-202508 Unsubscribe service operation**

*Type: CR For: Agreement  
 29.517 v16.0.0 CR-0004 rev 1 Cat: D (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202194)

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

**C3-202211 Removal of not valid BDT policy from UDR**

*Type: CR For: Agreement  
 29.513 v16.3.0 CR-0149 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**C3-202212 Removal of not valid BDT policy from UDR**

*Type: CR For: Agreement  
 29.554 v16.3.0 CR-0040 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**C3-202220 Nnwdaf\_EventsSubscription API, Slice load level support NSI ID**

*Type: CR For: Agreement  
 29.520 v16.3.0 CR-0157 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Discussion:**

Huawei:

1. Subclause 3.2: clashes with Ericsson’s C3-202232.

2. Subclause 5.1.6.2.3: NsiId feature is no need to be added, since it can be supported by all the features that can provide S-NSSAI, it’s just an optional attribute which not so big to add a feature to support it.

3. Subclause 5.1.6.2.x: no need to define the NSI ID as array since already array in the EventSubscription data

4. Subclause 5.1.6.2.y: no need to define this dedicate data type since the NSI ID is applicable to all the features that can provide S-NSSAI, not only for service experience, which can be defined in SliceLoadLevelInformation data.

This document clashes with Huawei’s C3-202117 which includes more changes (e.g. S-NSSAI clarification, Nnwdaf\_AnalyticisInfo API, NSI ID application to all events supporting to provide S-NSSAI), I would like to merge 2220 into 2117.

Ericsson:

1. C3-202232 is CR to TS 29.517, not same as this CR to TS 29.520, hence No clashes between different specifications.

2. Capable to specify multiple S-NSSAI with each associated differentiated NSI IDs correctly(eg. Snssai1 with nsiId1,2 ; snssai2 with nsild1,2,3 ; snssai3 with nsiId 1,2,3,4).NsiId feature is needed for the optional NSI ID, which is not defined in Rel-15 TS 29.520 Basic function of Slice Load level scope, and Not defined for all analytics in TS 23.288.

3. Capable to specify multiple S-NSSAI with each associated differentiated NSI IDs correctly(eg. Snssai1 with nsiId1,2 ; snssai2 with nsild1,2,3 ; snssai3 with nsiId 1,2,3,4).

4. Capable to specify multiple S-NSSAI with each associated differentiated NSI IDs correctly(eg. Snssai1 with nsiId1,2 ; snssai2 with nsild1,2,3 ; snssai3 with nsiId 1,2,3,4) in backward compatible way.

Please also refer to my comments to C3-202117, which included extra scope not defined in TS 23.288, and several issues listed. If you could check and generally agree the overall comments, I could add Huawei as cosigner in this CR.

Huawei: no need to add the feature for NSI ID. No need to define the NSI ID as array. Already support multiple S-NSSAI with each associated differentiated NSI IDs. Disagrees with the merging. Insist to merge 2220 into 2117

ZTE: In CT3#105 meeting, ZTE submitted following CRs to support NSI ID in stage3:

- C3-193212, 29.512, Support of NSI ID

- C3-193213, 29.520, Support of NSI ID

At that time, Ericsson commented that even SA2 states SMF can provide the NSI ID to the PCF, how SMF gets the NSI ID is not defined in SA2 however.

Hence it's impossible for PCF to subscribe to NWDAF services with NSI ID.

I accepted the comment, and ZTE CRs are postponded in the end.

So could you please clarify which consumer will use NWDAF services with NSI ID, and can these consumers get the NSI ID? Is there any new definition added for NSI ID in SA2 (e.g. how the SMF gets the NSI ID)?

Ericsson refers to SA2 CRs and provides information when it is required and what the consumers are.

1. We can accept Not adding feature control for NSI ID, instead specify NSI ID optionally applicable for SLICE\_LOAD\_LEVEL and SERVICE\_EXPERIENCE events,

2. Upon Rel-16 keeping Rel-15 defined sliceLoadLevelInfo attribute without array, means each instance need one separate notification message, It’s not feasible for NSI ID needed user cases. That’s why adding array of nsiLoadLevelInfos for effective network slice instances’ load level information reporting

3. Upon SA2 and use cases needed nsiIds association to S-NSSAI ( eg. AMF conduct SMF Selection between different nsiIds within the same S-NSSAI, so defined NsiIdInfo effectively for subscription.

If you agree above , suggest C3-202117 could merge into 2220 and 2221, meanwhile you could keep the updated clarification in 2117 which have no clash in between.

Huawei: In my understanding, C3-202117 supports the whole solution support for two NWDAF APIs, and even consider more details than 2220 and 2221 which I already mentioned previously. Too late for an agreement.

ZTE: Questions how the consumer gets the NSI id.

Ericsson refers to deployment options.

Ericsson. I also remove the NSI ID fulfillment in this CR. Provides a revision.

Huawei: Please add DNN, 5QI, UTC and GFBR also in the abbreviation subclause.

And I prefer to change the category to D.

Ericsson makes r2 available.

Huawei is fine with r2. please ask Chair to change the title and category for the revision.

**Decision:** The document was **revised to C3-202525**.

**C3-202525 Updates to Abbreviations**

*Type: CR For: Agreement  
 29.520 v16.3.0 CR-0157 rev 1 Cat: D (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202220)

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

**C3-202221 Nnwdaf\_AnalyticsInfo API, Slice load level support NSI ID**

*Type: CR For: Agreement  
 29.520 v16.3.0 CR-0158 Cat: B (Rel-16)  
  
 Source: Ericsson*

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

**C3-202222 Nnwdaf\_EventsSubscription API, support maximum number of objects**

*Type: CR For: Agreement  
 29.520 v16.3.0 CR-0159 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Discussion:**

Huawei:

1. This document describes to support maximum number of object by Nnwdaf\_EventsSubscription API, but why split part of the maximum number of object to C3-202224, C3-202226? Suggest to merge all the related changes for maximum number of objects into one document;

2. Since maximum number of objects is one of the parameters for event reporting requirement, I would like to define it within EventReportingRequirement data type.

This document clashes with China Telecom’s C3-202157 which impacts also Nnwdaf\_AnalyticsInfo API, I would like to merge 2157 into 2222, but go to the way suggested as above.

Ericsson:

1. my initial consideration is to keep each analytics scope consistently, 2224 covering both maximum number of objects and maximum number of SUPIs for abnormal behavior, 2226 keeping service experience overall scope consistently. Anyway I could consolidate maximum number of object in this CR.

2. Maximum number of objects defined in TS 23.288, not on Event Report Requirement level, still analytics entries as below specified, valid both to event subscription/notify and request/response.

a. Subclause 6.8.3, The number of user data congestion analytics entries is limited by the maximum number of objects provided as input parameter.

b. Subclause 6.9.3, The number of QoS sustainability analytics entries is limited by the maximum number of objects provided as input parameter.

I’ve suggested in 2157 mail to merge 2157 into 2222 and 2223 upon I’d consolidate my CRs add maxAnaEntry covering ServiceExperience, AbnormalBehaviour, UserDataCongestion, QoSSustainability.

Ongoing discussions on whether the info is on one event reporting requirement or specified in each related Analytics.

Huawei proposes to send an LS to SA2.

Huawei: I will ask Chair to postpone all the CR till next meeting, please check with you CT3/SA2 colleagues.

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

**C3-202223 Nnwdaf\_AnalyticsInfo API, support maximum number of objects**

*Type: CR For: Agreement  
 29.520 v16.3.0 CR-0160 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Discussion:**

Huawei:

1. This document describes to support maximum number of object by Nnwdaf\_AnalyticsInfo API, but why split part of the maximum number of object to C3-202225, C3-202227? Suggest to merge all the related changes for maximum number of objects into one document;

2. Since maximum number of objects is one of the parameters for event reporting requirement, I would like to define it within EventReportingRequirement data type as commented in C3-202222.

This document clashes with China Telecom’s C3-202157 which impacts also Nnwdaf\_EventsSubscrption API, I would like to merge 2223 and 2222 into 2157, but go to the way suggested as above.

Ericsson:

1. my initial consideration is to keep each analytics scope consistently, 2225 covering both maximum number of objects and maximum number of SUPIs for abnormal behavior, 2227 keeping service experience overall scope consistently. Anyway I could consolidate maximum number of object in this CR.

2. Maximum number of objects defined in TS 23.288, not on Event Report Requirement level, still analytics entries as below specified, valid both to event subscription/notify and request/response.

a. Subclause 6.8.3, The number of user data congestion analytics entries is limited by the maximum number of objects provided as input parameter.

b. Subclause 6.9.3, The number of QoS sustainability analytics entries is limited by the maximum number of objects provided as input parameter& also capable to have the flexibility to defined the needed different value of maxAnaEntry for different analytics, align with the analytics entries mapping the object concept.

I’ve suggested in 2157 mail to merge 2157 into 2222 and 2223 upon I’d consolidate my CRs add maxAnaEntry covering ServiceExperience, AbnormalBehaviour, UserDataCongestion, QoSSustainability.

Huawei: As replied in C3-202157, stage 2 already supported to put maximum number of objects as one event reporting requirement.

I think we should go the way as the approach.

Huawei:

As replied in C3-202157, , stage 2 already supported to put maximum number of objects as one event reporting requirement.

I think we should go the way as the approach, I still prefer to merge 2222 and 2223 into 2157.

Ongoing discussions on interpretation of SA2 requirements.

Huawei: I will ask Chair to postpone all the CR till next meeting, please check with you CT3/SA2 colleagues.

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

**C3-202224 Nnwdaf\_EventsSubscription API, Updates to Abnormal Behaviour**

*Type: CR For: Agreement  
 29.520 v16.3.0 CR-0161 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Discussion:**

Huawei:

1. As commented in C3-202222 and 2157, the changes of maximum number of objects should be removed from this document;

2. Since maximum number of SUPIs is one of the parameters for event reporting requirement similar as maximum number of reports, I would like to define it within EventReportingRequirement data type as C3-202119 proposed.

This document clashes with Huawei’s C3-202119 which define the new attribute within EventReportingRequirement and apply to all applicable events not only abnormal behaviour, I would like to merge 2224 into 2119.

Ericsson:

The analytics reporting Structure in 3 level in SA2,

Level 1, Analytics Report level, ( EventReportingRequirement and AnalyticsReportingRequirement can specify maximum number of reports)

Level 2, maximum Analytics objects for an applicable report ( EventSubscription and EventFilter can set different maxAnaEntry for applicable analytics )

Level 3, maximum SUPIs for an applicable object ( applicable to Service Experience and Abnormal Behaviour analytics defined in TS 23.288 CR 0119 )

Ericsson related CRs align with SA2 scope & definition, also suggest Group discussion.

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

**C3-202225 Nnwdaf\_AnalyticsInfo API, Updates to Abnormal Behaviour**

*Type: CR For: Agreement  
 29.520 v16.3.0 CR-0162 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Discussion:**

Huawei:

As commented in C3-202223 and 2157, the changes of maximum number of objects should be removed from this document;

Ericsson: same comments as 2224.

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

**C3-202226 Nnwdaf\_EventsSubscription API, Updates to Service Experience**

*Type: CR For: Agreement  
 29.520 v16.3.0 CR-0163 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Discussion:**

Huawei:

1. As commented in C3-202222 and 2157, the changes of maximum number of objects should be removed from this document;

2. Since maximum number of SUPIs is one of the parameters for event reporting requirement similar as maximum number of reports, I would like to define it within EventReportingRequirement data type as C3-202119 proposed.

This document clashes with Huawei’s C3-202119 which define the new attribute within EventReportingRequirement and apply to all applicable events not only abnormal behaviour, I would like to merge 2226 into 2119.

Ericsson:

Same comments as in C3-202222 and C3-202224 applicable for maximum number of objects and maximum number of SUPIs in an analytics objects.

since C3-2021119 implemented different solution, so no clash in between.

This CR also implemented differentiated slice instance service experience and/or application service experience of TS 23.288 CR 0117, besides maximum number of objects and maximum number of SUPIs,

Even If something in between for maximum number of objects and maximum number of SUPIs, still can revise to keep TS 23.288 CR 0117 implementation in CT3 eNA.

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

**C3-202509 Nnwdaf\_EventsSubscription API, Updates to Service Experience**

*Type: CR For: Agreement  
 29.520 v16.3.0 CR-0163 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202226)

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

**C3-202227 Nnwdaf\_AnalyticsInfo API, Updates to Service Experience**

*Type: CR For: Agreement  
 29.520 v16.3.0 CR-0164 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Discussion:**

Huawei:

As commented in C3-202223 and 2157, the changes of maximum number of objects should be removed from this document;

Ericsson: Same comments in C3-202226 applicable, just with Nnwdaf\_AnalyticsInfo API fulfillment in this CR.

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

**C3-202510 Nnwdaf\_AnalyticsInfo API, Updates to Service Experience**

*Type: CR For: Agreement  
 29.520 v16.3.0 CR-0164 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202227)

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

**C3-202228 Correction to Service Description**

*Type: CR For: Agreement  
 29.520 v16.3.0 CR-0165 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202387**.

**C3-202387 Correction to Service Description**

*Type: CR For: Agreement  
 29.520 v16.3.0 CR-0165 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202228)

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

**C3-202229 Correction to description of consumer functionalities**

*Type: CR For: Agreement  
 29.520 v16.3.0 CR-0166 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Discussion:**

C3-202229 and C3-202035 are merged into C3-202378.

Huawei:

1. The document clashes with C3-202035, need to merge with each other, but I would like to keep the NOTE for PCF as 2035.

2. Subclause 4.3.1.3.2: clashes with ZTE’s C3-202053, need to decide to remove the clash in one document.

Ericsson:

1. Suggest C3-202035 merge into C3-202229, upon this document covering more complete scope aligned with SA2.

The reason to remove NOTE for PCF in this document has been mentioned in Reason for Change:

“TS 23.503 CR0408 in Clause 6.1.1.3 also adding descriptions on how to use the analytics information in PCF”, you can check the corresponding CR S2-2002459, Policy decisions based on Analytics.

Otherwise, if you have more concerns, can be noted with not complete scope, update as below:

NOTE: How this information is used by the PCF is not completely standardized in this release of the specification.

2. ZTE decided to remove the clashes in C3-202052 and C3-202053, solved the clashes.

Huawei:

1. I can’t find any place in Rel-16 TS 29.520 describing that how PCF use the information, could you please show me, thx.

2. Ok.

Ericsson:

1. Ok, you mean this specification TS 29.520, then can add words as below in NOTE. If you still have other concerns, I can keep the NOTE unchanged: NOTE: How this information is used by the PCF is specified in TS 23.503 clause 6.1.1.3.

Ericsson: I’ve merged C3-202035 into C3-202229 r1

Huawei: Since not only TS 23.503 specifies, but also other TSs, e.g. TS 23.288. In order to avoid further update, please just keep the NOTE unchanged.

**Decision:** The document was **revised to C3-202378**.

**C3-202378 Correction to description of consumer functionalities**

*Type: CR For: Agreement  
 29.520 v16.3.0 CR-0166 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson, China Telecom, Huawei*

(Replaces C3-202229)

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

**C3-202230 Correction to variance of Start time in UE Communication**

*Type: CR For: Agreement  
 29.520 v16.3.0 CR-0167 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202388**.

**C3-202388 Correction to variance of Start time in UE Communication**

*Type: CR For: Agreement  
 29.520 v16.3.0 CR-0167 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202230)

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

**C3-202231 Correction to event description**

*Type: CR For: Agreement  
 29.517 v16.0.0 CR-0005 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202389**.

**C3-202389 Correction to event description**

*Type: CR For: Agreement  
 29.517 v16.0.0 CR-0005 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202231)

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

**C3-202232 Correction to target UE description**

*Type: CR For: Agreement  
 29.517 v16.0.0 CR-0006 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202390**.

**C3-202390 Correction to target UE description**

*Type: CR For: Agreement  
 29.517 v16.0.0 CR-0006 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202232)

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

**C3-202233 Correction to service operation description**

*Type: CR For: Agreement  
 29.591 v16.0.0 CR-0007 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202391**.

**C3-202391 Correction to service operation description**

*Type: CR For: Agreement  
 29.591 v16.0.0 CR-0007 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202233)

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

**C3-202299 Correct supported feature in AnalyticsData**

*Type: CR For: Agreement  
 29.520 v16.3.0 CR-0169 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202392**.

**C3-202392 Correct supported feature in AnalyticsData**

*Type: CR For: Agreement  
 29.520 v16.3.0 CR-0169 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202299)

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

**C3-202300 Clarify service experience data**

*Type: CR For: Agreement  
 29.520 v16.3.0 CR-0170 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**C3-202301 Correct threshold**

*Type: CR For: Agreement  
 29.520 v16.3.0 CR-0171 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**C3-202302 Resource type in QoS requirement**

*Type: CR For: Agreement  
 29.520 v16.3.0 CR-0172 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Discussion:**

C3-202302 and C3-202121 are merged into C3-202383

**Decision:** The document was **revised to C3-202383**.

**C3-202383 Resource type in QoS requirement**

*Type: CR For: Agreement  
 29.520 v16.3.0 CR-0172 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson, Huawei*

(Replaces C3-202302)

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

**C3-202507 LS on Clarification on eNA**

*Type: LS out For: Approval  
 to SA2  
 Source: Huawei*

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

### 16.6 CT aspects on eSBA [5G\_eSBA]

**C3-202079 Level of Binding**

*Type: CR For: Agreement  
 29.521 v16.3.0 CR-0068 Cat: B (Rel-16)  
  
 Source: Huawei*

**Discussion:**

CP-190191 (CT4 leading)

Ericsson:

why you believe that "bindLevel" attribute needs to be added?

For the level of binding "NF\_SET" only PCF Set Id within the "pcfSetId" attribute will be provided, while for the level of binding "NF\_INSTANCE" a PCF Set Id within the "pcfSetId" attribute and a PCF instance Id within the "pcfId" attribute need to be provided. Furthermore, if the "bindLevel" attribute is introduced, then additional checking needs to be performed and for incorrect combinations error responseS need to specified e.g. if "NF\_INSTANCE" level of binding is indicated and only a PCF Set Id within the "pcfSetId" attribute is provided, or if "NF\_SET" level of binding is indicated and a PCF Set Id within the "pcfSetId" attribute and a PCF instance Id within the "pcfId" attribute are provided.

Further, in clause 4.2.2.2 information about providing PCF Id in "pcfId" attribute is duplicated, it is provided in the added paragraph but also kept in the paragraph before.

Huawei:

Binding level is included in the registration as defined in 6.1.1.2.2 of TS 23.503. My understanding is that stage 2 wants an explicit indication for the binding level.

The existing PCF Id is used for clean-up procedure, and this procedure is optional. eSBA procedure shall be decoupled from this procedure. This is also the reason why the level of binding indication is needed if both procedures are enabled.

Ericsson:

the presence of the attributes the "pcfSetId" and the "pcfId" allows the NF consumer to deduct the binding level, so it is replicated information.

We had similar situation with "Request for notification" IE which is also explicitly specified in stage 2 for Npcf\_BDTPolicyControl\_Create and Nnef\_BDTPNegotiation\_Create service operations. But in stage 3 we only added "notifUri" attribute and specified that "this IE indicates that the NF service consumer requests a BDT notification from the PCF. It contains an URI of the recipient of BDT notification" (if I remember we did this together).

I do not understand your statement:

The existing PCF Id is used for clean-up procedure, and this procedure is optional. eSBA procedure shall be decoupled from this procedure. This is also the reason why the level of binding indication is needed if both procedures are enabled.

First I have problem with: "if both procedures are enabled" – are you trying to say that in this case 2 the "pcfId" attributes will be received or only one? Adding "bindLevel" attribute does not help, i.e. let’s say "bindLevel" attribute is provided and indicates "NF\_SET" level of binding, a PCF Set Id within the "pcfSetId" attribute and a PCF instance Id within the "pcfId" attribute are also provided. So my question is how we know that both procedures are enabled or if only eSBA procedure is enabled.

Huawei: If the PCF supports clean up procedure, the PCF may include the PCF Id in the register request.

If the PCF supports eSBA also and PCF decides the binding level is NF set level, the PCF includes NF Set Id in the register request.

Now the BSF receives the NF set Id and NF Id, then BSF will determine that the binding level is NF instance level. But it is wrong.

Ericsson: still have problem with a level of binding and because of the same reason I provided on C3-202080.

Further in clause 4.2.2.2 information I still have problem with saying:

The PCF as NF service consumer may provide PCF Id in "pcfId" attribute and recovery timestamp in "recoveryTime" attribute.

And then in next paragraph:

The PCF as NF service consumer may also provide PCF Set Id within the "pcfSetId" attribute and "bindLevel" attribute set to NF\_SET or provide PCF Set Id within the "pcfSetId" attribute, PCF instance Id within the "pcfId" attribute and "bindLevel" attribute set to NF\_INSTANCE.

As I said it seems like that two "pcfId" attributes might be present which is incorrect. Can you rephrase/clarify this?

Huawei makes r1 available.

Ericsson: remove "It is FFS". At the beginning of EN.

OpenAPI file contains error i.e. missing end of the line $ref: '#/components/schemas/BindingLevel'

Huawei makes r2 available.

Ericsson is fine with r2.

**Decision:** The document was **revised to C3-202502**.

**C3-202502 Level of Binding**

*Type: CR For: Agreement  
 29.521 v16.3.0 CR-0068 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202079)

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

**C3-202080 Update of PCF discovery by the AF for eSBA**

*Type: CR For: Agreement  
 29.513 v16.3.0 CR-0142 Cat: B (Rel-16)  
  
 Source: Huawei*

**Discussion:**

Ericsson:

we need to agree how to proceed since C3-202080 clashes with C3-202192, and also first needs to be to clarified the need for the "bindLevel" attribute added by C3-202079.

Comments on C3-202080:

• General: there is a problem with terminology in this specification when we are talking about binding. "Binding" seems to refer to SBA binding to a selected NF instance related information, while "binding" seems to refer to PDU session binding to a PCF instance information (sometimes). Further, this CR also adds "level of binding", "level Binding Indication", "Level of Binding indication", "Binding Indication" and "binding indication".

• Bullet b): missing that the PCF will also provide the PCF instance id if changed.

• Bullet d): indicates that the AF should use "that information as NF set level or NF instance level Binding Indication to route requests to the PCF". Is it then N5 service the only service that will include NF service consumer SBA routing headers in the creation of the resource? Why?

• Bullet e): indicates that the PCF may provide Binding Indication to the NF but does not say what is "Binding Indication", see also general comment.

• Bullet f): not needed if bullet b) is updated according to the above comment.

• Minor editorial: in bullet d) word "manageent" needs to be corrected.

Huawei: the PCF can provide the PCF set Id, PCF instance Id and a level of binding. The AF can retrieve these information and treat them as a Binding Indication. Now in the CR, I use the terminology level of binding and Binding Indication. For bullet d) I don’t mean that. Because, currently AF is the consumer to invoke the discovery service operation, AF will use the information to route requests to the PCF. Other services also can include the SBA routing header, but it is not in the scope of this CR. For bullet e) Binding Indication is defined in 23.503 and I have provided the reference. Rest of comments accepted.

Ericsson:

- Binding level information is something the NFs know at NF service consumer – NF service producer interaction, and indicates how to behave on successive requests/interactions. An AF after BSF Discovery will interact with the PCF for the first time, so, why does the AF need binding information in advance?

- If it is because in case the first AF interaction fails because the BSF returned enpoints fail in the PCF, and the AF may have another opportunity to succeed if the PCF context is available in another (service) instance it is a wrong working assumption: the availability of PCF context in other instances does not have anything to do with binding level, but with Set information.

I also would like to confirm that I am fine with other changes you did in revision.

To solve clash with C3-202192 my proposal is to remove clause 8.4.2 from C3-202192 (and change work item to 5G\_eSBA). Will this work?

Huawei makes r2 available.

Ericsson: remove "It is FFS". At the beginning of EN.

And I prefer to move EN to the place where the first time level of binding is mentioned in TS i.e. after bullet a).

Huawei makes r3 available.

Ericsson is fine with r3.

**Decision:** The document was **revised to C3-202503**.

**C3-202503 Update of PCF discovery by the AF for eSBA**

*Type: CR For: Agreement  
 29.513 v16.3.0 CR-0142 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202080)

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

**C3-202191 Binding information retrieval: PCF set ID and PCF instance ID**

*Type: CR For: Agreement  
 29.521 v16.3.0 CR-0071 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Discussion:**

Chair: Wrong WI

**Decision:** The document was **revised to C3-202501**.

**C3-202501 Binding information retrieval: PCF set ID and PCF instance ID**

*Type: CR For: Agreement  
 29.521 v16.3.0 CR-0071 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202191)

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

**C3-202192 Binding information: PCF set ID and PCF instance ID**

*Type: CR For: Agreement  
 29.513 v16.3.0 CR-0148 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Discussion:**

Chair: Wrong WI

**Decision:** The document was **revised to C3-202504**.

**C3-202504 Binding information: PCF set ID and PCF instance ID**

*Type: CR For: Agreement  
 29.513 v16.3.0 CR-0148 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202192)

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

### 16.7 CT aspects of Access Traffic Steering, Switch and Splitting support in 5G system [ATSSS]

**C3-202081 ATSSS rule derivation**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0446 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**C3-202082 QoS support for ATSSS**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0447 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-202374**.

**C3-202374 QoS support for ATSSS**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0447 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202082)

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

**C3-202083 Enable removing the policy decision**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0448 Cat: B (Rel-16)  
  
 Source: Huawei*

**Discussion:**

Ericsson: agrees that a CR is needed to specify what happens when the “steerModeValue” changes, but does not agree with the proposed changes.

If the understanding is correct, when the steering mode changes, the PCF delivers the attributes corresponding to the new steering mode, and nothing about the old ones (it cannot, presence condition prevents it). So, the solution would not be to define a nullable data type to be able to set to null the attributes that stop applying, but to specify that they stop applying and they are ignored.

Or?

Huawei: We have the same approach for other policy decisions (QoSData, UsageMonitoringData)

Ericsson: My understanding is that it is not exactly the same situation. It is possible e.g., that while QoS or Usage Monitoring applies some attributes stop applying while others start to apply, hence the need for the Rm data type.

With the proposal in the CR we’d be requiring that e.g. if the steering mode is changed from LOAD\_BALANCING to PRIORITY\_BASED, then “prioAcc” attribute shall be included AND “3gLoad” attribute shall be included as well with value null. And, if I’m not missing anything, this is unnecessary, because if eventually LOAD\_BALANCING is required again, PCF shall send to the SMF the “3gLoad” value to apply.

Maybe, only AccessTypeRm would be strictly needed, to be able to update the ACTIVE\_STANDBY steering mode to add/delete a standby access, if necessary. The “active” attribute, e.g., would not need the Rm category.

Huawei: In my original thinking, I would like to have a clean solution that the all unnecessary information can be removed when the steering mode is changed. If you prefer not to do that, I can accept. Revision available.

Ericsson: In the final revision, please, update the Comments column in table 5.6.1-2 for the “AccessTypeRm” data type to use the same kind of the definition of other removable data types:

This data type is defined in the same way as the "AccessType" data type, but with the OpenAPI "nullable: true" property.

I agree with the rest of the changes.

Huawei makes r2 available.

Ericsson: I’d like to insist and ask you to complete “same way” by “This data type is defined in the same way”, as with other Rm definitions. Otherwise, the data type definition may unintentionally transmit a sense of hurriedness and carelessness, that I know it is not the case.

Huawei makes r3 available.

Ericsson is fine with r3.

**Decision:** The document was **revised to C3-202375**.

**C3-202375 Enable removing the policy decision**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0448 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202083)

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

**C3-202084 QoS Flow Binding about ATSSS**

*Type: CR For: Agreement  
 29.513 v16.3.0 CR-0143 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-202376**.

**C3-202376 QoS Flow Binding about ATSSS**

*Type: CR For: Agreement  
 29.513 v16.3.0 CR-0143 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202084)

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

**C3-202149 Support the update of SteeringFunctionality**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0464 Cat: F (Rel-16)  
  
 Source: ZTE*

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

**C3-202252 Access Type Report for a MA PDU session**

*Type: CR For: Agreement  
 29.214 v16.2.0 CR-1640 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202511**.

**C3-202511 Access Type Report for a MA PDU session**

*Type: CR For: Agreement  
 29.214 v16.2.0 CR-1640 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202252)

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

**C3-202253 LS on new AVPs in TS 29.214**

*Type: LS out For: Approval  
 to CT3  
 Source: Ericsson*

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

**C3-202254 Access Type Report for a MA PDU session**

*Type: CR For: Agreement  
 29.514 v16.4.0 CR-0213 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202513**.

**C3-202513 Access Type Report for a MA PDU session**

*Type: CR For: Agreement  
 29.514 v16.4.0 CR-0213 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202254)

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

**C3-202255 Access Type Report for a MA PDU session**

*Type: CR For: Agreement  
 29.523 v16.1.0 CR-0020 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202514**.

**C3-202514 Access Type Report for a MA PDU session**

*Type: CR For: Agreement  
 29.523 v16.1.0 CR-0020 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202255)

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

**C3-202256 PS Data Off for a MA PDU session**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0475 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202377**.

**C3-202377 PS Data Off for a MA PDU session**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0475 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202256)

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

**C3-202512 LS on Access Type Report for a MA PDU session**

*Type: LS out For: Approval  
 to SA2  
 Source: Ericsson*

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

### 16.8 CT aspects of 5GS enhanced support of vertical and LAN services [Vertical\_LAN]

**C3-202085 Correction to bridge Information report**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0449 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-202086 Correction to Port Management Information Container exchange**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0450 Cat: F (Rel-16)  
  
 Source: Huawei*

**Discussion:**

Ericsson:

This CR is colliding with Ericsson 2262 (as you already mentioned), so we need to discuss the merging process.

2086 deals with port identification, and bridge information reporting.

2262 deals with bridge information reporting.

Port identification and bridge information reporting are different topics and could be handled in different CRs.

When it comes to bridge information reporting, 2086 gathers in the same data type both, bridge information and port management information containers. Since they’re different kind of information and it might that they are reported independently, we prefer to keep the separated data types. So we would prefer to keep Ericsson CR in this sense.

In this topic, in 2086 there is no change control in the deletion of the detected PCRT.

We agree with the correction for the port identification in 2086.

Huawei: In my understanding, the port management information containers carry the capability of the bridge, so it also shall be a part of bridge information. I heard from SA2 colleague, further clarification is being discussed in the SA2 this week. We can wait or put an editor’s note.

I revise the CR and keep the change of port identification. Left part can be merged to your CR.

Revision available.

Ericsson: In 5.6.2.45, or the portNum attribute, I’d prefer to keep the presence as M, cardinality 1 and remove (NOTE) for the time being, and to apply further changes consistently during next meeting, if needed.

Also, I’m missing in this CR the updates related to the redefinition of the TsnPortIdentifier data type into TsnPortNumber data type. To allow for further extensibility I’d be in favor of udpadating 5.6.2.44 data type, but I could accept to remove it, and define it within the simple data types table, as Uinteger.

I will provide an updated revision to 2262 with the remaining parts.

Huawei makes a revision available.

Ericsson agrees with the proposal.

**Decision:** The document was **revised to C3-202361**.

**C3-202361 Correction to Port Management Information Container exchange**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0450 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202086)

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

**C3-202087 Correction to Provisioning of TSCAI input information and TSC QoS related data**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0451 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-202362**.

**C3-202362 Correction to Provisioning of TSCAI input information and TSC QoS related data**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0451 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202087)

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

**C3-202088 PCC rule information update for vertical**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0452 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-202363**.

**C3-202363 PCC rule information update for vertical**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0452 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202088)

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

**C3-202089 PCF functionality update for TSN**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0453 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-202364**.

**C3-202364 PCF functionality update for TSN**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0453 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202089)

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

**C3-202090 Correction to Session binding for TSN**

*Type: CR For: Agreement  
 29.513 v16.3.0 CR-0144 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-202365**.

**C3-202365 Correction to Session binding for TSN**

*Type: CR For: Agreement  
 29.513 v16.3.0 CR-0144 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202090)

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

**C3-202091 Correction to QoS Flow Binding about TSN**

*Type: CR For: Agreement  
 29.513 v16.3.0 CR-0145 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-202092 Correction to bridge information report and port management information container provisioning**

*Type: CR For: Agreement  
 29.514 v16.4.0 CR-0200 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-202367**.

**C3-202367 Correction to bridge information report and port management information container provisioning**

*Type: CR For: Agreement  
 29.514 v16.4.0 CR-0200 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202092)

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

**C3-202093 Correction to TSCAI provisioning**

*Type: CR For: Agreement  
 29.514 v16.4.0 CR-0201 Cat: F (Rel-16)  
  
 Source: Huawei*

**Discussion:**

Ericsson:

There is a collision with Ericsson CR 2264. We need to discuss the merging process/way forward.

2264 covers other corrections on TSCAI input container definition, and clarification of the encoding for the aggregation of TSN streams/versus single TSN stream in media component/media subcomponent

2093 simplifies and specifies TSCAI input always at media component regardless it is an aggregation of TSN streams or a single TSN stream.

I could remove from 2264 the changes on the clarifications on media comp / media subcomponent and Ericsson could cosign 2093 if we agree on the following comments:

- Coversheet:

o CR category needs to be changed from F to B

o In the reason for change, the sentence ·”it is not possible that different streams which are aggregated have different TSCAI” is not correct and needs to be removed. The aggregated TSN streams need to have compatible TSCAI, but not same TSCAI, e.g., they may have different arrival times (one after another), but they can be aggregated in the same burst

- Main body:

o The advantage of having the information also at media subcomponent is that the PCF could still have the at TSN stream level TSCAI information, and use it in the derivation of PCC rules. But I could accept by now to simplify and define TSCAI info only at media component level. The comment to 2093 would be:

- the time period between the start of two bursts of a TSN stream or aggregated TSN streams in reference to the TSN GM encoded in the "periodicity" attribute; and

- the arrival time of the first data burst of a TSN stream or aggregated TSN streams in reference to the TSN GM encoded in the "burstArrivalTime" attribute.

Huawei: If the TSCAI can be provided at the subcomponent level, the PCF shall be able to determine whether multiple TSCAIs can be aggregated into one TSCAI for a PCC rule. But stage 2 doesn’t specify this capability of the PCF. Revision available.

Ericsson: Add Ericsson in the coversheet.

Huawei provides a revision.

Ericsson is fine with the revision.

**Decision:** The document was **revised to C3-202368**.

**C3-202368 Correction to TSCAI provisioning**

*Type: CR For: Agreement  
 29.514 v16.4.0 CR-0201 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Ericsson*

(Replaces C3-202093)

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

**C3-202094 Clarification of target AF configuration**

*Type: CR For: Agreement  
 29.514 v16.4.0 CR-0202 Cat: B (Rel-16)  
  
 Source: Huawei*

**Discussion:**

Ericsson:

I cannot find in SA2 specs any text that supports the proposed note.

Could you refer to the stage 2 input the NOTE is based on?

Huawei: It was described in clause 5.28.1 of TS 23.501, NOTE 1.

Ericsson: Does the note mean that if SMF selects UPF1 for PDU session 1 and using the same criteria selects UPF2 for PDU session 2, then, PCF has to select AF1 for PDU session 1 and AF2 for PDU session 2 and cannot use e.g. AF1 for PDU session 2?

It looks like UPF and AF should be wired … and I cannot come with any reason for that.

I must be wrong… How the NOTE in clause 5.28.1 in TS 23.501 has to be interpreted?

Huawei:if the PDU session 1 and PDU session2 belong to a same TSN bridge, a same specific UPF shall be selected by the SMF. And then the PCF(s) need to configure a AF for the bridge so that the AF can have the whole information of the bridge and interact with the CNC. Otherwise, there are some complexities of the interoperation between the different AF in my understanding.

If PDU session 1 and PDU session2 belong to the different TSN bridges, different UPFs can be selected and different AFs can be configured for the different bridges.

Ericsson: Would you be ok with rewording the NOTE as proposed below till be receive the response from SA2?

NOTE: It can be assumed that all PDU sessions which connect to the same TSN network are handled by the same AF.

Huawei makes a revision available.

Ericsson: I’d like to remove the second sentence of the Editor’s note.

Huawei makes r3 available.

Ericsson is ok with it.

**Decision:** The document was **revised to C3-202526**.

**C3-202526 Clarification of target AF configuration**

*Type: CR For: Agreement  
 29.514 v16.4.0 CR-0202 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202094)

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

**C3-202095 Clarification of the DS-TT MAC address**

*Type: CR For: Agreement  
 29.521 v16.3.0 CR-0069 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**C3-202150 Correction to 5GLANParameterProvision API**

*Type: CR For: Agreement  
 29.522 v16.3.0 CR-0162 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-202400**.

**C3-202400 Correction to 5GLANParameterProvision API**

*Type: CR For: Agreement  
 29.522 v16.3.0 CR-0162 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202150)

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

**C3-202166 Open issue for 5GLanParametersProvisionPatch**

*Type: CR For: Agreement  
 29.522 v16.3.0 CR-0165 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-202401**.

**C3-202401 Open issue for 5GLanParametersProvisionPatch**

*Type: CR For: Agreement  
 29.522 v16.3.0 CR-0165 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202166)

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

**C3-202213 Adding support of NID**

*Type: CR For: Agreement  
 29.514 v16.4.0 CR-0210 Cat: B (Rel-16)  
  
 Source: Ericsson*

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

**C3-202214 Adding support of NID**

*Type: CR For: Agreement  
 29.523 v16.1.0 CR-0019 Cat: B (Rel-16)  
  
 Source: Ericsson*

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

**C3-202236 Clarify nullable attributes used in PATCH**

*Type: CR For: Agreement  
 29.522 v16.3.0 CR-0170 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202402**.

**C3-202402 Clarify nullable attributes used in PATCH**

*Type: CR For: Agreement  
 29.522 v16.3.0 CR-0170 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202236)

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

**C3-202261 QoS information for Time Sensitive Networking**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0479 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202366**.

**C3-202366 QoS information for Time Sensitive Networking**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0479 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202261)

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

**C3-202262 Update of TSN related PCRTs**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0480 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202369**.

**C3-202369 Update of TSN related PCRTs**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0480 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson, Huawei*

(Replaces C3-202262)

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

**C3-202263 Binding of PCC rules to a QoS flow considering TSCAI information**

*Type: CR For: Agreement  
 29.513 v16.3.0 CR-0150 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Discussion:**

C3-202263 and C3-202091 are merged into C3-202370

**Decision:** The document was **revised to C3-202370**.

**C3-202370 Binding of PCC rules to a QoS flow considering TSCAI information**

*Type: CR For: Agreement  
 29.513 v16.3.0 CR-0150 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson, Huawei*

(Replaces C3-202263)

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

**C3-202264 Correction to TSCAI UL and DL description**

*Type: CR For: Agreement  
 29.514 v16.4.0 CR-0215 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202371**.

**C3-202371 Correction to TSCAI UL and DL description**

*Type: CR For: Agreement  
 29.514 v16.4.0 CR-0215 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202264)

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

**C3-202265 Update of TSN related events**

*Type: CR For: Agreement  
 29.514 v16.4.0 CR-0216 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202372**.

**C3-202372 Update of TSN related events**

*Type: CR For: Agreement  
 29.514 v16.4.0 CR-0216 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson, Huawei*

(Replaces C3-202265)

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

**C3-202266 Completion of traffic correlation**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0481 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202373**.

**C3-202373 Completion of traffic correlation**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0481 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202266)

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

**C3-202515 LS on clarification on TSN for Vertical\_LAN**

*Type: LS out For: Approval  
 to SA2  
 Source: Huawei*

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

### 16.9 CT aspects of Enhancing Topology of SMF and UPF in 5G Networks [ETSUN]

### 16.10 CT aspects of System enhancements for Provision of Access to Restricted Local Operator Services by Unauthenticated Ues [PARLOS]

### 16.11 CT aspects on enhancement of network slicing [eNS]

### 16.12 CT aspects of Enhancement to the 5GC LoCation Services [5G\_eLCS]

**C3-202172 Supporting the Location services in NEF in TS 29.122**

*Type: CR For: Agreement  
 29.122 v16.5.0 CR-0228 rev 2 Cat: B (Rel-16)  
  
 Source: CATT*

(Replaces C3-201520)

**Abstract:**

The CR adds the support to 5G location service in external interface.

**Discussion:**

CP-192260 (CT4 leading)

Revision of C3-201520

Huawei:

1. The functionality is not applicable to SCEF Northbound interface, hence, clause 4.4.z should be removed;

2. Suggest to not use Locvation\_notification\_5G as the new feature name but some eLCS specific, e.g. eLCS

3. Subclause 5.3.2.1.2: maximumNumberOfReports and monitorExpireTime are not only applicable to the new feature

4. Subclause 5.3.2.1.2: why define reportingDuration again, monitorExpireTime is used as the same purpose

5. Subclause 5.3.2.1.2: whether the maxmumReportInterval is the periodic time of reporting?

6. Subclause 5.3.2.1.2: enhance current LocationType data but not define a new LocationTypeRequested.

7. One feature eLCS is good enough

Vodafone:

cover page

a) shows TS 29.522 as other spec. affected but no 'X' in the Y column

5.3.2.1.1

b) suggest changing "Responsed UE velocity, if requested and available" to "UE velocity, if requested and available"

c) typo: locatin -> location

5.3.2.1.2

d) suggest changing "NOTE 8: The IE only may be included if the accuracy of location exceeds cell ID." to "NOTE 8: The IE may be included only if location is more precise than cell ID"

e) typo: locatin -> location

5.3.2.3.5

f) suggest changing "Identifies the location information of the target UE if the accuracy of location is higher than cell ID or it is a defered location request." to "Identifies the location information of the target UE if location is more precise than cell ID or the request is a deferred location request."

5.3.2.3.x

g) suggest changing "Responsed UE velocity, if requested and available" to "UE velocity, if requested and available"

And a question for clarification:

what is a mobile terminated location request (MT-LR) and the related LDR and LDR identity (as mentioned in Table 5.3.2.3.x-1: Definition of PrecisionLocation data Type)? Is it described somewhere?

Ericsson:

1. Cover page,

a. Reason for change:

i. Only described MO-LR need NEF to invoke Nnef\_LocationUpdateNotify service operation , which is New OpenAPI Not applicable to TS 29.122.

ii. Missing MT-LR related descriptions which is applicable to TS 29.122.

b. Summary of change:

i. Bullet 2, support MO-LR for 5G in the Nnef\_Location service Not belong to TS 29.122.

2. Table 5.3.2.1.1-1 MonitoringEvent API re-used Data Types, suggest to add Editor's note: It is FFS whether the data types are all applicable .

3. Clause 5.3.2.1.2-1 MonitoringEventSubscription, suggest to add Editor's note: It is FFS whether the attributes and data types are all applicable .

4. Clause 5.3.2.3.2-1 MonitoringEventReport , suggest to add Editor's note: It is FFS whether the attributes and data types are all applicable .

Ericsson has checked attributes ,

Suggest to remove those not needed ones for External event exposure.

The “locationUpdate” is not needed in MonitoringEventReport since LocationInfo already includes the detailed loc info.

“terminationCause” in PrecisionLocation should be put under MonitoringNotification, it is monitoring subscription level terminiation. And what dose the value “NORMAL\_TERMINATION” mean? Is the monitoring subscritpion cancelled by the AF explictily? If yes, there is no additional monitoring notification to be sent to the AF.

Removing “geographicArea” in LocationInfo is not BC change.

CATT has checked received comments and commented.

Huawei replies to CATT.

CATT makes a revision available.

CATT makes a new version (r2) after further check with SA2.

Ericsson: Would you handle below back to be BC change in LocationInfo ?

Removing “geographicArea” in LocationInfo is not BC change.

CATT makes a revision available.

Huawei provides a list of comments.

Ongoing discussions. Huawei proposes ENs for open issues.

**Decision:** The document was **revised to C3-202516**.

**C3-202516 Supporting the Location services in NEF in TS 29.122**

*Type: CR For: Agreement  
 29.122 v16.5.0 CR-0228 rev 3 Cat: B (Rel-16)  
  
 Source: CATT*

(Replaces C3-202172)

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

**C3-202173 Supporting the Location Services in NEF in TS 29.522**

*Type: CR For: Agreement  
 29.522 v16.3.0 CR-0139 rev 3 Cat: B (Rel-16)  
  
 Source: Datang Mobile Com. Equipment*

(Replaces C3-201521)

**Abstract:**

Supporting the Location Services in NEF in TS 29.522

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

**C3-202174 Supporting the Location Services in NEF in TS 29.522**

*Type: CR For: Agreement  
 29.522 v16.3.0 CR-0166 Cat: B (Rel-16)  
  
 Source: Datang Mobile Com. Equipment*

**Abstract:**

Supporting the Location Services in NEF in TS 29.522

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

**C3-202175 Supporting the Location Services in NEF in TS 29.522**

*Type: CR For: Agreement  
 29.522 v16.3.0 CR-0139 rev 4 Cat: B (Rel-16)  
  
 Source: Datang Mobile Com. Equipment*

(Replaces C3-201521)

**Abstract:**

Supporting the Location Services in NEF in TS 29.522

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

**C3-202176 Supporting the Location Services in NEF in TS 29.522**

*Type: CR For: Agreement  
 29.522 v16.3.0 CR-0167 Cat: B (Rel-16)  
  
 Source: CATT*

**Abstract:**

Supporting the Location Services in NEF in TS 29.522

**Discussion:**

CT3 accepts the proposal from CATT on the handling of the SA2 services.

**Decision:** The document was **revised to C3-202517**.

**C3-202517 Supporting the Location Services in NEF in TS 29.522**

*Type: CR For: Agreement  
 29.522 v16.3.0 CR-0167 rev 1 Cat: B (Rel-16)  
  
 Source: CATT*

(Replaces C3-202176)

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

### 16.13 CT Aspects of Media Handling for RAN Delay Budget Reporting in MTSI [E2E\_DELAY]

### 16.14 Cellular IoT support and evolution for the 5G System [5G\_CIoT]

**C3-202017 Add External Group Identifier**

*Type: CR For: Agreement  
 29.522 v16.3.0 CR-0147 Cat: B (Rel-16)  
  
 Source: CATT*

**Discussion:**

CP-200147 (CT1 leading)

Ericsson:

I’m confused about this requirement and there is no justification for the need of group id. What is the trigger for NEF to send the configuration trigger with group id?

IMO, the AF can also base on the configuration trigger realize that the specific UE is part of a group and group configuration was not performed.

CATT:

here is an example: in IoT senario, if a group of UEs(e.g. a group of smart electric meters in a certain region) need to refresh/update their data(e.g. update the billing method) to the AF. Then this will trigger NEF to deliver this needs to AF

Ericsson: What is the trigger for NEF to send the configuration trigger with group id? How MO NIDD in NEF realize the group is not configured (NEF doesn’t know only UDM knows).

My point is the AF can also base on the single UE configuration trigger realizes that the specific UE is part of a group and group configuration was not performed.

CATT:

according to stage 2, when NEF handle the request between AF and UDM, the NEF could store the AF request information in the UDR including the Internal Group Identifiers. Also, the NEF can use Nudm\_SDM\_Get service to translate the IGI into EGI. So the NEF can use EGI as the UEs indentities, and can know that a certain group of UEs need configuration and send the trigger message to the AF to ask for configuration.

Ericsson: We are talking about NIDD function, which request between AF and UDM is it (could you be more specific)?

How NEF knows the IGI upon receipt of MO NIDD?

How to handle the case when some UEs in a group has been nidd configured but not others?

I understood the use case rationale may be discussed in SA2, but the whole procedure is not clear to me.

CATT:

1.for an example, you can refer to TS 23.502 cluase 4.15.6.8 step 4a, here I just want to clarify that NEF can store the request information~

2.for the trigger, it is not necessary to have a MO NIDD, the NEF can initiate this procedure itself, see TS 23.502 clause 4.25.3 step 1~(BTW, I also made a proposal to add EGI here in SA2#138)

3.There is no clear definition of which users the EGI should include, I think it is based on implementation to decide the scope of the EGI and this is beyond this proposal. On the other hand, even if "some UEs in a group has been nidd configured but not others", there is no harm to re-configured for these UEs~

Ericsson: do not agree with your explanation for 1. Apply AF policy has nothing to do with NIDD, we should only discuss within the NIDD procedure.

For 2. In stage 3 29.522 the trigger is clear:

If the NEF receives a NIDD connection establishment request from the SMF and if there is no NIDD configuration for the UE, the NEF may send a NIDD configuration trigger to the AF.

Still what trigger the NEF may receive to send the group based NIDD trigger? It is not clear. Why an operator, having an SLA with the external AF, without any procedure operation (e.g. NIDD connection establishment), autonomously asks AF to configure NIDD? Instead of waiting AF to start proper NIDD configuration. And how NEF decides which group and which AF should use?

CATT: this is just an example to show that the NEF can store and know certain group users IDs in some way(answering the question in your previous email that "NEF doesn't know" ). the NEF know such users and it knows that they have not be configured before(The AF have never done the configuration before).

This is a operator's implementation issue, I may not give the clear answer here~ But in my considering, I may still use the smart electric meters example to clarify this issue: if the AF encouter a system problem and do not send the configuration message it should, the NEF could do the trigger to remind the AF. BTW, I suggest we don't get caught up in the implementation issue, this proposal could work, right?~

Ericsson does not accept it in the context of NIDD. Specific scenarios don’t need to be standardized.

CATT: is just to show that NEF can acquire and store such user group information and thus it can use this information for the trigger procedure

Ericsson provides further arguments.

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

**C3-202021 5G CIoT work and contribution plan for CT3**

*Type: discussion For: Information  
 Source: Qualcomm Incorporated*

**Discussion:**

Ericsson: There are CRs in this meeting to complete the WI. SA2 is also discussing on a new policy control trigger. Monitor what is going on in SA2.

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

**C3-202135 Nnef\_EventExposure\_Subscribe for I-NEF event exposure**

*Type: CR For: Agreement  
 29.591 v16.0.0 CR-0003 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-202136 Nnef\_EventExposure\_Notify for I-NEF event exposure**

*Type: CR For: Agreement  
 29.591 v16.0.0 CR-0004 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-202137 OpenAPI update for I-NEF event exposure**

*Type: CR For: Agreement  
 29.591 v16.0.0 CR-0005 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-202160 I-NEF interworking based on header solution**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Nokia:

Since the discussion will possibly/hopefully be done in SA2 next week, we cannot decide on the issue (see comments to 2135 as well), although I like the intension of the SA2 discussion leaving some decision room for CT3, but let’s see what will happen and whether the subscription will be removed.

Conclusion in 2160:

It is proposed not to use a configuration subscription to provide the notification endpoint to the I NEF. A kind of header solution in the HTTP event notification request from AMF/SMF to I NEF should be used to provide the notification endpoint to the I NEF.

So it would be fine to know your opinion on a header based solution for the I-NEF – NEF notification enablement independent from SA2. Probably you can understand that I would prefer a header based solution for the AMF/SMF to I-NEF information. I think, principally it is possible to use the proposed header (or a new custom header maybe) although it is related to the apiRoot normally.

Ericsson: I agree with you that custom header can be used to convey the NEF address and it saves a lot in stage 3 work both in documentation and I-NEF handling (no need to maintain the subscription since it is not a real event exposure function provided by I-NEF). I-NEF itself doesn’t generate any event report to NEF, it just relays the information received from other NFs to NEF.

Huawei: How does the I-NEF do the authorization as IWK-SCEF do? Refer to TS 23.682, 5.6.6.1.

And is it possible for I-NEF to change the event report a little bit, e.g. use another data type to describe the UE location, like “PresenceInfo” to replace “UserLocation” in AMF event report?

Need to wait for SA2 conclusion.

Nokia: forwards this to Nokia’s SA2 delegate.

Nokia got the following answer:

In terms of monitoring event authorization, the IWK-SCEF \*does\* have an authorization role but the I-NEF \*does not\* have any authorization role. Putting authorization in I-NEF is not acceptable, as it would stretch the scope of I-NEF beyond what has been agreed for it. It’s just that I-NEF is different and does not authorize, but just normalizes (and generated related charging info).

Huawei asks if it comes from SA2. The issue is not discussed yet.

Nokia confirms it comes from Nokia SA2 delegate. We’ll see whether this will be discussed at stage 2 further.

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

**C3-202161 I-NEF interworking**

*Type: CR For: Agreement  
 29.591 v16.0.0 CR-0006 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**C3-202162 I-NEF interworking**

*Type: CR For: Agreement  
 29.508 v16.3.0 CR-0074 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**C3-202234 Correction to the DDD status event**

*Type: CR For: Agreement  
 29.508 v16.3.0 CR-0075 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202393**.

**C3-202393 Correction to the DDD status event**

*Type: CR For: Agreement  
 29.508 v16.3.0 CR-0075 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202234)

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

**C3-202235 Correction to the DDD status event**

*Type: CR For: Agreement  
 29.122 v16.5.0 CR-0241 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202394**.

**C3-202394 Correction to the DDD status event**

*Type: CR For: Agreement  
 29.122 v16.5.0 CR-0241 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202235)

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

### 16.15 CT aspects on wireless and wireline convergence for the 5G system architecture [5WWC]

**C3-202096 General update of Annex C**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0454 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**C3-202097 Support of full Frame Routing feature**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0455 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-202349**.

**C3-202349 Support of full Frame Routing feature**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0455 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202097)

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

**C3-202098 The data type of GlobalLineId**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0456 Cat: B (Rel-16)  
  
 Source: Huawei*

**Discussion:**

C3-202098 and C3-202201 are merged into C3-202351

**Decision:** The document was **revised to C3-202351**.

**C3-202351 The data type of GlobalLineId**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0456 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei, Ericsson*

(Replaces C3-202098)

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

**C3-202099 Support of full Frame Routing feature**

*Type: CR For: Agreement  
 29.521 v16.3.0 CR-0070 Cat: B (Rel-16)  
  
 Source: Huawei*

**Discussion:**

Vodafone:

similar comment to C3-202097, it would be good to be consistent with terminology if the correct term is "framed routing", although 23.501 5.6.14 also mixes "Frame Routes" and "Framed Routes

Ericsson: Why is it relevant the PCF registers framed routing information in the BSF if the Discovery mechanism is not affected (i.e., the AF will discover PCF based on UE IP address)?

It seems it is not necessary to impact the BSF service. Or?

Huawei: Same change as C3-202097. Revision available.

I think the BSF use the frame route information to match the UE address within the request.

I add a clarification in the revision.

Oracle: Current proposal of maintaining 2 attribute with datatype array(FrameRouteInfo) in PcfBinding for frame route seems error prone. i.e. no sanity check to ensure that value of “ipv4FramRoutes” attribute must populate only ipv4Mask attribute of FrameRouteInfo type. Similarly, its true to ipv6FramRoutes attribute as well.

1. Either have only 1 attribute called ipFrameRoutes with datatype as array(FrameRouteInfo). In this case, array may contains mix of ipv4 and ipv6 masks.

2. Or keep two attributes but with a proposed structure.

My recommendation is to support #2.

This comment applies to C3-202097 as well.

Huawei: Our proposal is consistent with the definition of 29.503.The attribute can be shorted as ipv4FramRoutes, no problem.

Oracle sees no benefit on following TS 29.503.

Huawei makes r2 available.

Oracle: We believe 29.503 didn’t implement this the proper way. Why should we incorporate such implementations that can cause unnecessary issues? If FrameRouteInfo can be either IPv4 or ipv6, then I only see two viable options here as mentioned by Rajiv:

1. We create one array of frameRoutes that contains frameRoutes which already contain v4 or v6. There is no need to separate them.

2. We go with two separate arrays.

The current version you have isn’t acceptable to us. We’re not asking for a big change here. We’re simply asking for a minor change to avoid preventable errors.

Ericsson:

- 5.3.2.3.1-1 clarify in a NOTE that when Framed Routing is supported the ipv4Addr and ipv6Prefix query parameters may include the IP addresse of devices in networks behind the UE (see clause 5.6.14 of 3GPP TS 23.501 [2]).

- It would be better to have a feature name more related to the Framed Routing support, as e.g FramedRouting (instead of WWC)

- Missing the new supported feature in clause 5.8 Feature Negotiation

- I see the point from Oracle in the weakness of the encoding proposed in 29.503 for the framed routes and I support their proposal (array(IPv4AddrMask) and array(Ipv6Prefix))

Huawei: For the retrieval of binding information, there is no need to negotiate the feature.

For the registration of binding information, since it is FFS whether update is need, so a new supported feature is FFS too.

I accept the Oracle’s proposal for the data type.

R3 available.

Ericsson: I agree with the provided revision. Aspects related with feature support can be agreed in the next meeting.

Only a minor comment, for you to consider when generating the CR revision:IP addresse -> correct it in the NOTE.

Huawei makes a revision available.

Ericsson is fine with the revision. Vfe is fine if the terminology is consistent.

**Decision:** The document was **revised to C3-202352**.

**C3-202352 Support of full Frame Routing feature**

*Type: CR For: Agreement  
 29.521 v16.3.0 CR-0070 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202099)

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

**C3-202100 Procedure of ACS Information Configuration**

*Type: CR For: Agreement  
 29.522 v16.3.0 CR-0151 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-202484**.

**C3-202484 Procedure of ACS Information Configuration**

*Type: CR For: Agreement  
 29.522 v16.3.0 CR-0151 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202100)

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

**C3-202101 Resources and data types of Nnef\_ACSParameterProvision service**

*Type: CR For: Agreement  
 29.522 v16.3.0 CR-0152 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-202485**.

**C3-202485 Resources and data types of Nnef\_ACSParameterProvision service**

*Type: CR For: Agreement  
 29.522 v16.3.0 CR-0152 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202101)

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

**C3-202102 OpenAPI file of Nnef\_ACSParameterProvision service**

*Type: CR For: Agreement  
 29.522 v16.3.0 CR-0153 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-202486**.

**C3-202486 OpenAPI file of Nnef\_ACSParameterProvision service**

*Type: CR For: Agreement  
 29.522 v16.3.0 CR-0153 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202102)

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

**C3-202151 Not to support Mission Critical Services**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0465 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**C3-202152 Correction to IPTV Configuration**

*Type: CR For: Agreement  
 29.519 v16.3.0 CR-0183 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-202359**.

**C3-202359 Correction to IPTV Configuration**

*Type: CR For: Agreement  
 29.519 v16.3.0 CR-0183 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202152)

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

**C3-202153 Correction to IPTVConfiguration API**

*Type: CR For: Agreement  
 29.522 v16.3.0 CR-0163 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-202487**.

**C3-202487 Correction to IPTVConfiguration API**

*Type: CR For: Agreement  
 29.522 v16.3.0 CR-0163 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202153)

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

**C3-202195 Removal of MAC address**

*Type: CR For: Agreement  
 29.507 v16.3.0 CR-0115 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**C3-202196 Removal of MAC address**

*Type: CR For: Agreement  
 29.514 v16.4.0 CR-0203 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**C3-202197 Removal of MAC address**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0468 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**C3-202198 Removal of MAC address**

*Type: CR For: Agreement  
 29.525 v16.3.0 CR-0086 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**C3-202199 Adding "RG\_TMBR\_CH" to triggers in the PolicyUpdate**

*Type: CR For: Agreement  
 29.507 v16.3.0 CR-0116 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202353**.

**C3-202353 Adding "RG\_TMBR\_CH" to triggers in the PolicyUpdate**

*Type: CR For: Agreement  
 29.507 v16.3.0 CR-0116 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202199)

**Decision:** The document was **revised to C3-202443**.

**C3-202443 Adding "RG\_TMBR\_CH" to triggers in the PolicyUpdate**

*Type: CR For: Agreement  
 29.507 v16.3.0 CR-0116 rev 2 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202353)

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

**C3-202200 Solving ENs related to a global line identity**

*Type: CR For: Agreement  
 29.514 v16.4.0 CR-0204 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**C3-202201 Solving EN related to a global line identity**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0469 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Discussion:**

C3-202098 and C3-202201 are merged into C3-202351

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

**C3-202202 Solving ENs related to NetLoc support for wireline access**

*Type: CR For: Agreement  
 29.514 v16.4.0 CR-0205 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**C3-202244 Corrections on Annex B**

*Type: CR For: Agreement  
 29.507 v16.3.0 CR-0117 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202354**.

**C3-202354 Corrections on Annex B**

*Type: CR For: Agreement  
 29.507 v16.3.0 CR-0117 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202244)

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

**C3-202245 Untrusted FN-RG PEI**

*Type: CR For: Agreement  
 29.507 v16.3.0 CR-0118 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202488**.

**C3-202488 Untrusted FN-RG PEI**

*Type: CR For: Agreement  
 29.507 v16.3.0 CR-0118 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202245)

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

**C3-202246 Hybrid Access Support**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0472 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202355**.

**C3-202355 Hybrid Access Support**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0472 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202246)

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

**C3-202247 Untrusted PEI**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0473 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202489**.

**C3-202489 Untrusted PEI**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0473 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202247)

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

**C3-202248 RAT type for WWC**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0474 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202528**.

**C3-202528 RAT type for WWC**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0474 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202248)

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

**C3-202249 Correction to Access Network Information for Trusted non-3GPP access**

*Type: CR For: Agreement  
 29.514 v16.4.0 CR-0211 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**C3-202250 Solving Editor’s notes on report of location for Trusted non-3GPP access**

*Type: CR For: Agreement  
 29.514 v16.4.0 CR-0212 Cat: B (Rel-16)  
  
 Source: Ericsson*

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

**C3-202251 Untrusted FN-RG PEI**

*Type: CR For: Agreement  
 29.525 v16.3.0 CR-0088 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202490**.

**C3-202490 Untrusted FN-RG PEI**

*Type: CR For: Agreement  
 29.525 v16.3.0 CR-0088 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202251)

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

**C3-202290 Correct IPv6 prefix**

*Type: CR For: Agreement  
 29.521 v16.3.0 CR-0074 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202356**.

**C3-202356 Correct IPv6 prefix**

*Type: CR For: Agreement  
 29.521 v16.3.0 CR-0074 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson, ZTE*

(Replaces C3-202290)

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

**C3-202291 Remove feature for IPTV data configuration**

*Type: CR For: Agreement  
 29.521 v16.3.0 CR-0075 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**C3-202332 Access Type Report for WWC**

*Type: CR For: Agreement  
 29.514 v16.4.0 CR-0218 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202357**.

**C3-202357 Access Type Report for WWC**

*Type: CR For: Agreement  
 29.514 v16.4.0 CR-0218 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202332)

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

**C3-202350 LS on Clarification of Support of Frame Routing Feature**

*Type: LS out For: Approval  
 to SA2, cc CT4  
 Source: Huawei*

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

### 16.16 Volume Based Charging Aspects for VoLTE [VBCLTE]

### 16.17 CT aspects of optimisations on UE radio capability signalling [RACS]

**C3-202022 Addition of IMEI/TAC values for RACS operations**

*Type: CR For: Agreement  
 29.122 v16.5.0 CR-0233 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated, Ericsson*

**Decision:** The document was **revised to C3-202422**.

**C3-202422 Addition of IMEI/TAC values for RACS operations**

*Type: CR For: Agreement  
 29.122 v16.5.0 CR-0233 rev 1 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated, Ericsson*

(Replaces C3-202022)

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

**C3-202023 Corrections to UE radio capability configuration data**

*Type: CR For: Agreement  
 29.122 v16.5.0 CR-0234 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated, Nokia, Samsung, Vodafone*

**Discussion:**

Remove marking other specs in the coversheet.

Huawei:

I think current specification already allow both 4G and 5G UE radio capability data for each RACS Id.

As defined in TS 36.331 subclause 6.3.6, the UE-CapabilityRAT-ContainerList already include a list of UE-CapabilityRat-Container, and within each UE-CpabilityRat-Container already indicates the rat type, e.g. E-UTRA, NR, EUTRA-NR.

Ericsson:

What Huawei said is true. Current 4G UE RACS encoding (36331) include 2,3,4 and 5G capabilities and 5G encoding (38331) only has 4 and 5G capabilities.

Maybe we should wait for SA2 discussion this week and see whether the current encoding is sufficient or not and how to improve the function (maybe only the description part of the UE radio capability needs to be improved at the end of the day)

Qualcomm: this CR is not related to ongoing SA2 discussions, rather to already existing agreements. Current stage-3 text allows only one of the two encoding formats (36331, 38331) for UCMF provisioning, but for UEs that can work on both 5GS and EPS, we need to provision for both formats. If we don’t allow this, and have only possibility of a single format as in the existing stage-3, we’re somehow assuming that the UCMF can do a translation of these formats, which is in general not possible for all UCMFs. Hence this CR provides the possibility of signaling both formats, and not relying on universal UCMF format translation capabilities.

Huawei: You can update the description a little bit for original racsParam within RacsConfigurationRm, but current stage 3 coding is already supported both formats, even more for other rat type formats.

Ericsson: If only 38331 format is provided which includes only 4 and 5G radio capabilities, it is impossible for UCMF to derive 2 and 3G parameters, this is well understood.

If a 36331 format is provided which includes all radio capabilities in 2,3,4 and 5G. will UCMF translate the sub-set into another form? Or just subtract the sub-set as it is?

I don’t fully understand what you said: “translation…which is in general not possible for all UCMF”.

Qualcomm: Current stage 3 coding does not support to have both formats (38331 and 36331) simultaneously. Currently you can use one format or the other. To be able to signal both formats simultaneously is what is needed to complete the implementation.

I give an example of translation from 38331 to 36331 format:

Consider a UE that can work on both EPS and 5GS.

Using current stage-3, either 38331 or 36331 RACS format can be provisioned at the UCMF. The manufacturer provisions using 38331 at the UCMF in this case.

UE moves to EPS, EPS queries UCMF for RACS data. This is where UCMF will need to provide 36331 format to EPS, while it only has 38331 format as provisioned. So translation in this case is decoding 36331 format and converting it to 38331. This is where it cannot be assumed in general that all UCMFs support this translation.

Huawei: the UE-CapabilityRAT-ContainerList defined in TS 36.331 already supports both.

We can discuss that in today’s conference call.

Qualcomm: What this CR is saying is that both of TS 36.331 and TS 38.331 message formats need to be supported by stage-3 to be able to support UEs that work on both EPS and 5GS, and where we don’t have to rely on UCMF to convert or translate one format to other.

E-mail the differences of the formats in 36331 & 38331.

Ericsson express its concerns: my original doubt is why the AF cannot provide the full set as defined in 36.331, instead of repeating the same information as defined in 38.331?

Unless for such UE, the radio capabilites are different in EPS & 5GS, which means for the RAT type NR, EUTRA and EUTRA-NR, the capabilities included in 36.331 EPS format are different than those RAT-types’ capabilities included in 38.331 5GS format. can you confirm this assumption?

Qualcomm:

If the UCMF is capable of translation, then the Application Function will provide the UE radio capabilities in either 36.331 or 38.331 format

If the UCMF is NOT capable of translation, then the Application Function will provide the UE radio capabilities in BOTH 36.331 or 38.331 formats.

Ericsson makes a different proposal on the solution with no separate encoding type.

Huawei: I think just using the enumeration value defined in TS 36.331 is enough in TS 29.122 since it covers both.

If rat-type in TS 36.331 is NR, then only the ueCapabilityRAT-Container within the UE-CapabilityRAT-Container contains the IE UE-NR-Capability as defined in TS 38.331 , right?I don’t understand why we need to define two attributes here.

Samsung provides explanation why UCMF needs to be aware of both formats (either by provisioning or by derivation).

Qualcomm: I’m not sure if this can be expressed in OpenAPI, but I don’t have a strong position on this; if you think a note is good enough I can implement it like this.

Ericsson: Ok to add a note.

Qualcomm: r2 available. Ericsson cosigns.

Huawei: Can we extend the description for two new attributes, e.g. the UE radio capability data in EPS.

Qualcomm makes r3 available.

Huawei: make all the description fields in the OpenAPI file as general as possible.

Ericsson: I think it is fine to keep the description in the openAPI as it is.

Huawei: the description can be kept but should not just copy-paste but as general as possible to avoid further unnecessary description update or editorial change

Ericsson thinks the current information is stable and useful.

Huawei wants to avoid updating OpenAPI because of the description.

Ongoing discussion.

Qualcomm accepts the changes and makes r5 available.

Huawei is fine with r5.

**Decision:** The document was **revised to C3-202494**.

**C3-202494 Corrections to UE radio capability configuration data**

*Type: CR For: Agreement  
 29.122 v16.5.0 CR-0234 rev 1 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated, Nokia, Samsung, Vodafone, Ericsson*

(Replaces C3-202023)

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

**C3-202024 RACS CT work plan**

*Type: discussion For: Information  
 Source: Qualcomm Incorporated*

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

**C3-202426 Missing bullet in introduction**

*Type: CR For: Agreement  
 29.122 v16.5.0 CR-0235 rev 1 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

(Replaces C3-202026)

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

**C3-202427 Missing mapping in the overview**

*Type: CR For: Agreement  
 29.522 v16.3.0 CR-0148 rev 1 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

(Replaces C3-202027)

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

**C3-202168 Addition of IMEI-TAC values for RACS operations**

*Type: CR For: Agreement  
 29.675 v16.0.0 CR-0001 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated, Ericsson*

**Decision:** The document was **revised to C3-202495**.

**C3-202495 Addition of IMEI-TAC values for RACS operations**

*Type: CR For: Agreement  
 29.675 v16.0.0 CR-0001 rev 1 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated, Ericsson*

(Replaces C3-202168)

**Decision:** The document was **revised to C3-202523**.

**C3-202523 Addition of IMEI-TAC values for RACS operations**

*Type: CR For: Agreement  
 29.675 v16.0.0 CR-0001 rev 2 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated, Ericsson*

(Replaces C3-202495)

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

**C3-202169 Update to UE radio capability information data type**

*Type: CR For: Agreement  
 29.675 v16.0.0 CR-0002 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated, Nokia, Samsung, Vodafone*

**Decision:** The document was **revised to C3-202496**.

**C3-202496 Update to UE radio capability information data type**

*Type: CR For: Agreement  
 29.675 v16.0.0 CR-0002 rev 1 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated, Nokia, Samsung, Vodafone, Ericsson*

(Replaces C3-202169)

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

**C3-202203 Correcting errors in clause 5.6**

*Type: CR For: Agreement  
 29.675 v16.0.0 CR-0003 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

### 16.18 Service Based Interface Protocol Enhancement [SBIProtoc16]

**C3-202204 Non-unique operation identifiers**

*Type: CR For: Agreement  
 29.551 v16.3.0 CR-0028 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**C3-202209 Removal of unbreakable space and TAB**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0470 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**C3-202210 Removal of unbreakable spaces**

*Type: CR For: Agreement  
 29.525 v16.3.0 CR-0087 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**C3-202215 Storage of YAML files in ETSI Forge**

*Type: CR For: Agreement  
 29.554 v16.3.0 CR-0041 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202403**.

**C3-202403 Storage of YAML files in ETSI Forge**

*Type: CR For: Agreement  
 29.554 v16.3.0 CR-0041 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202215)

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

**C3-202267 Storage of YAML files in ETSI Forge**

*Type: CR For: Agreement  
 29.514 v16.4.0 CR-0217 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202404**.

**C3-202404 Storage of YAML files in ETSI Forge**

*Type: CR For: Agreement  
 29.514 v16.4.0 CR-0217 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202267)

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

**C3-202268 Storage of YAML files in ETSI Forge**

*Type: CR For: Agreement  
 29.523 v16.1.0 CR-0021 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202405**.

**C3-202405 Storage of YAML files in ETSI Forge**

*Type: CR For: Agreement  
 29.523 v16.1.0 CR-0021 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202268)

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

**C3-202313 Storage of YAML files in ETSI Forge**

*Type: CR For: Agreement  
 29.675 v16.0.0 CR-0004 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202406**.

**C3-202406 Storage of YAML files in ETSI Forge**

*Type: CR For: Agreement  
 29.675 v16.0.0 CR-0004 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202313)

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

**C3-202316 Storage of YAML files in ETSI Forge**

*Type: CR For: Agreement  
 29.507 v16.3.0 CR-0119 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202407**.

**C3-202407 Storage of YAML files in ETSI Forge**

*Type: CR For: Agreement  
 29.507 v16.3.0 CR-0119 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202316)

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

**C3-202317 Storage of YAML files in ETSI Forge**

*Type: CR For: Agreement  
 29.508 v16.3.0 CR-0078 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202408**.

**C3-202408 Storage of YAML files in ETSI Forge**

*Type: CR For: Agreement  
 29.508 v16.3.0 CR-0078 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202317)

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

**C3-202318 Storage of YAML files in ETSI Forge**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0487 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202409**.

**C3-202409 Storage of YAML files in ETSI Forge**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0487 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202318)

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

**C3-202319 Storage of YAML files in ETSI Forge**

*Type: CR For: Agreement  
 29.517 v16.0.0 CR-0007 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202410**.

**C3-202410 Storage of YAML files in ETSI Forge**

*Type: CR For: Agreement  
 29.517 v16.0.0 CR-0007 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202319)

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

**C3-202320 Storage of YAML files in ETSI Forge**

*Type: CR For: Agreement  
 29.519 v16.3.0 CR-0192 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202411**.

**C3-202411 Storage of YAML files in ETSI Forge**

*Type: CR For: Agreement  
 29.519 v16.3.0 CR-0192 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202320)

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

**C3-202321 Storage of YAML files in ETSI Forge**

*Type: CR For: Agreement  
 29.520 v16.3.0 CR-0173 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202412**.

**C3-202412 Storage of YAML files in ETSI Forge**

*Type: CR For: Agreement  
 29.520 v16.3.0 CR-0173 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202321)

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

**C3-202322 Storage of YAML files in ETSI Forge**

*Type: CR For: Agreement  
 29.521 v16.3.0 CR-0076 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202413**.

**C3-202413 Storage of YAML files in ETSI Forge**

*Type: CR For: Agreement  
 29.521 v16.3.0 CR-0076 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202322)

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

**C3-202323 Storage of YAML files in ETSI Forge**

*Type: CR For: Agreement  
 29.522 v16.3.0 CR-0171 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202414**.

**C3-202414 Storage of YAML files in ETSI Forge**

*Type: CR For: Agreement  
 29.522 v16.3.0 CR-0171 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202323)

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

**C3-202324 Storage of YAML files in ETSI Forge**

*Type: CR For: Agreement  
 29.525 v16.3.0 CR-0089 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202415**.

**C3-202415 Storage of YAML files in ETSI Forge**

*Type: CR For: Agreement  
 29.525 v16.3.0 CR-0089 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202324)

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

**C3-202325 Storage of YAML files in ETSI Forge**

*Type: CR For: Agreement  
 29.551 v16.3.0 CR-0029 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202416**.

**C3-202416 Storage of YAML files in ETSI Forge**

*Type: CR For: Agreement  
 29.551 v16.3.0 CR-0029 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202325)

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

**C3-202326 Storage of YAML files in ETSI Forge**

*Type: CR For: Agreement  
 29.591 v16.0.0 CR-0008 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202417**.

**C3-202417 Storage of YAML files in ETSI Forge**

*Type: CR For: Agreement  
 29.591 v16.0.0 CR-0008 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202326)

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

**C3-202327 Storage of YAML files in ETSI Forge**

*Type: CR For: Agreement  
 29.594 v16.1.0 CR-0048 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202418**.

**C3-202418 Storage of YAML files in ETSI Forge**

*Type: CR For: Agreement  
 29.594 v16.1.0 CR-0048 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202327)

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

### 16.19 CT aspects of eV2XARC [eV2XARC]

**C3-202046 Wrong datatypes Datatime and Plmn**

*Type: CR For: Agreement  
 29.522 v16.3.0 CR-0149 Cat: F (Rel-16)  
  
 Source: ZTE*

**Discussion:**

C3-202046 and C3-202128 are merged into C3-202344

**Decision:** The document was **revised to C3-202344**.

**C3-202344 Wrong datatypes Datatime and Plmn**

*Type: CR For: Agreement  
 29.522 v16.3.0 CR-0149 rev 1 Cat: F (Rel-16)  
  
 Source: ZTE, Huawei*

(Replaces C3-202046)

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

**C3-202047 Correction to V2XARC**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0438 Cat: F (Rel-16)  
  
 Source: ZTE*

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

**C3-202048 Definition of ServiceParameterData in openAPI**

*Type: CR For: Agreement  
 29.519 v16.3.0 CR-0180 Cat: F (Rel-16)  
  
 Source: ZTE*

**Decision:** The document was **revised to C3-202345**.

**C3-202345 Definition of ServiceParameterData in openAPI**

*Type: CR For: Agreement  
 29.519 v16.3.0 CR-0180 rev 1 Cat: F (Rel-16)  
  
 Source: ZTE*

(Replaces C3-202048)

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

**C3-202103 LS on subscription to V2X services**

*Type: LS out For: Approval  
 to SA2, cc CT4  
 Source: Huawei*

**Decision:** The document was **revised to C3-202347**.

**C3-202347 LS on subscription to V2X services**

*Type: LS out For: Approval  
 to SA2, cc CT4  
 Source: Huawei*

(Replaces C3-202103)

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

**C3-202104 Some corrections to ServiceParameter API**

*Type: CR For: Agreement  
 29.522 v16.3.0 CR-0154 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-202482**.

**C3-202482 Some corrections to ServiceParameter API**

*Type: CR For: Agreement  
 29.522 v16.3.0 CR-0154 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202104)

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

**C3-202105 Update of ParameterOverUu data type**

*Type: CR For: Agreement  
 29.522 v16.3.0 CR-0155 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-202483**.

**C3-202483 Update of ParameterOverUu data type**

*Type: CR For: Agreement  
 29.522 v16.3.0 CR-0155 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202105)

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

**C3-202106 Update of ServiceParameterDataPatch**

*Type: CR For: Agreement  
 29.522 v16.3.0 CR-0156 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-202346**.

**C3-202346 Update of ServiceParameterDataPatch**

*Type: CR For: Agreement  
 29.522 v16.3.0 CR-0156 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202106)

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

**C3-202128 Data type for PLMN**

*Type: CR For: Agreement  
 29.522 v16.3.0 CR-0157 Cat: F (Rel-16)  
  
 Source: Huawei*

**Discussion:**

C3-202046 and C3-202128 are merged into C3-202344

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

**C3-202260 Referencing alternative QoS in clause 4.2.6.2.1**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0478 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202348**.

**C3-202348 Referencing alternative QoS in clause 4.2.6.2.1**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0478 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202260)

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

### 16.20 CT aspects of 5G URLLC [5G\_URLLC]

**C3-202107 Procedure of policy provisioning of QoS monitoring control**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0457 Cat: B (Rel-16)  
  
 Source: Huawei*

**Discussion:**

C3-202107 and C3-202110 are merged into C3-202437

**Decision:** The document was **revised to C3-202437**.

**C3-202437 Procedure of policy provisioning of QoS monitoring control**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0457 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202107)

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

**C3-202108 QoS Monitoring Control Data correction**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0458 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-202438**.

**C3-202438 QoS Monitoring Control Data correction**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0458 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202108)

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

**C3-202109 Reporting Frequency**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0459 Cat: B (Rel-16)  
  
 Source: Huawei*

**Discussion:**

C3-202312 and C3-202109 are merged into C3-202439

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

**C3-202110 Enable removing the policy decision**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0460 Cat: B (Rel-16)  
  
 Source: Huawei*

**Discussion:**

C3-202107 and C3-202110 are merged into C3-202437

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

**C3-202127 Reselection of PSA UPF if receiving UE IP address preservation indication**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0461 Cat: F (Rel-16)  
  
 Source: Huawei*

**Discussion:**

C3-202243 and C3-202127 are merged into C3-202498

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

**C3-202205 Adding QosMonitoringInformationRm in table 5.6.1-1**

*Type: CR For: Agreement  
 29.514 v16.4.0 CR-0206 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**C3-202243 Solving Editor’s note on UL CL**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0471 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Discussion:**

C3-202243 and C3-202127 are merged into C3-202498

**Decision:** The document was **revised to C3-202498**.

**C3-202498 Solving Editor’s note on UL CL**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0471 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson, Huawei*

(Replaces C3-202243)

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

**C3-202311 Correct data type used in QoS monitoring**

*Type: CR For: Agreement  
 29.122 v16.5.0 CR-0246 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**C3-202312 Correct data type used in QoS monitoring**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0486 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Discussion:**

C3-202312 and C3-202109 are merged into C3-202439

**Decision:** The document was **revised to C3-202439**.

**C3-202439 Correct data type used in QoS monitoring**

*Type: CR For: Agreement  
 29.512 v16.4.0 CR-0486 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson, Huawei*

(Replaces C3-202312)

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

### 16.21 Enhancement of 3GPP Northbound APIs [eNAPIs]

**C3-202447 Periodic reporting by Nnef**

*Type: CR For: Agreement  
 29.122 v16.5.0 CR-0239 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202132)

**Discussion:**

Change WI to eNAPIs

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

**C3-202446 Loss of connectivity reason**

*Type: CR For: Agreement  
 29.522 v16.3.0 CR-0159 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202134)

**Discussion:**

Change WI to eNAPIs

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

**C3-202138 Allow IP address prefix as one of Individual UE information**

*Type: CR For: Agreement  
 29.522 v16.3.0 CR-0160 Cat: F (Rel-16)  
  
 Source: Huawei*

**Discussion:**

CP-192184

Ericsson: This is Not BC change, more importantly, what is the use case that the AF only knows IPv6 prefix but not the full address?

As a reference, in PCC Rx/N5, it is always the IP full address.

Huawei:

See TS 23.501 subclause 5.6.7 . Stage 2 thinks there is a use case to only provide IPv6 prefix, I think maybe some fixed subscribers, e.g. statics IP address/prefix, the IPv6 prefix is not allocated by the network dynamically.

For NBC issue, I am not so sure, and can’t find any better solution.

Ericsson:

It is true 23.501 said IP prefix.

But I still wonder how an AF under the situation of awareness of IPv6 full address, still insists to send only the IPv6 prefix part w/o interface id.

Fixed UEs still receive the full IP address (prefix + interface) like mobile UE.

Imaging AF traffic influence function in NEF receives an IP prefix, how NEF interacts with PCF over N5?

29.514 requires IP address.

Huawei: I understand the concern.

We can send LS to ask SA2 for clarification, in which case the IPv6 prefix can be used to identify UE, and how, e.g. via UDR.

Ericsson:

I recall in previous discussion about BSF service 29.521, it was clarified that an AF doesn’t know how many bits are used for the IPv6 prefix so the BSF has to accept IP full address from the consumer in BSF binding information query.

And current 29.514 doesn’t support IPv6 prefix, what you described to me looks like the IPv6 prefix is used as an UE id for future PDU session.

But IPv6 allocation is dynamic so how AF knows the IPv6 prefix exactly, and in advance?

Could you discuss with your stage 2 colleagues offline and see if there is any need to clarify something directly in stage 2?

Check offline with SA2 colleagues.

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

**C3-202139 Any UE clarification**

*Type: CR For: Agreement  
 29.522 v16.3.0 CR-0161 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-202424**.

**C3-202424 Any UE clarification**

*Type: CR For: Agreement  
 29.522 v16.3.0 CR-0161 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202139)

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

**C3-202445 Periodic reporting by Nnef**

*Type: CR For: Agreement  
 29.522 v16.3.0 CR-0169 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202184)

**Discussion:**

Change WI to eNAPIs

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

**C3-202303 Correct the supported features in the published API**

*Type: CR For: Agreement  
 29.222 v16.2.0 CR-0138 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202497**.

**C3-202497 Correct the supported features in the published API**

*Type: CR For: Agreement  
 29.222 v16.2.0 CR-0138 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202303)

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

### 16.22 CT Aspects of 5GS Transfer of Policies for Background Data [xBDT]

**C3-202054 internalGroupId in BdtPolicyData**

*Type: CR For: Agreement  
 29.519 v16.3.0 CR-0182 Cat: F (Rel-16)  
  
 Source: ZTE*

**Discussion:**

C3-202154 and C3-202054 are merged into C3-202419

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

**C3-202145 Area information within BDT policy**

*Type: CR For: Agreement  
 29.122 v16.5.0 CR-0240 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-202154 Correction to BDT Policy**

*Type: CR For: Agreement  
 29.519 v16.3.0 CR-0184 Cat: F (Rel-16)  
  
 Source: Huawei*

**Discussion:**

C3-202154 and C3-202054 are merged into C3-202419

**Decision:** The document was **revised to C3-202419**.

**C3-202419 Correction to BDT Policy**

*Type: CR For: Agreement  
 29.519 v16.3.0 CR-0184 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, ZTE*

(Replaces C3-202154)

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

**C3-202155 Correction to ApplyingBdtPolicy API**

*Type: CR For: Agreement  
 29.522 v16.3.0 CR-0164 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-202421**.

**C3-202421 Correction to ApplyingBdtPolicy API**

*Type: CR For: Agreement  
 29.522 v16.3.0 CR-0164 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202155)

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

**C3-202420 LS on Network Area Information in BDT Policy**

*Type: LS out For: Approval  
 to SA2  
 Source: Huawei*

**Discussion:**

Huawei makes r0 available.

Ericsson:

• Missing that TS 23.503 in the same clause also specifies content of selected transfer policy where a network area information is not listed: "The selected background transfer policy is finally stored by the PCF in the UDR as part of the Policy Data Set. The background transfer policy contains the Background Data Transfer Reference ID, the volume of data to be transferred per UE, the expected amount of UEs, the one or more instances of the tuple (ASP id, DNN, S-NSSAI) and if the AF subscribed to notifications on changes of the negotiated BDT policy".

• If SA2 plans to clarify usage of network area information then parts of TS 23.502 should also be indicated in LS, so the SA2 can align both TSs.

• Table 6.6.3-2: Network performance predictions should be referenced, not the table for the Network performance statistics.

• Since the clause 6.1.2.4 of TS 23.503 specifies content of the BDT policy with and without containing the network area information then the first question should be: Is the network area information part of background data transfer policy or not?

• Then existing question 1 should the second and could be rephrased to say: If the answer of Q1 is yes, can the PCF derive "recommended network area information" as part of the BDT policy (like "recommended time window") in 5G?

• We have problem to understand the last question

LS with Ericsson comments implemented is stored as r1.

Huawei requires further clarification for Q2. For last question:

Since the PCF may subscribe to the NWDAF the network performance analytics for one or more area subsets, these area subsets may belongs to the recommended network area information requested by the AF request during the BDT first negotiation.

If question 1 is no, then it means that in the case that if the PCF receives network performance is degraded for some area subsets, then the PCF may adjust the BDT policy for the whole network area information provided by the AF request, even the network performance for some area subsets is not impacted. The list of candidate BDT policies sent by the BDT warning notification is all applicable to the whole network are information, not means each of the candidate BDT policy applies for different sub areas.

Ericsson:

Should we then ask SA2:

Q1: Is the network area information part of background data transfer policy or not?

Q2: If the answer of Q1 is yes, is the network area information in the AF request the same as the network area information in each background data transfer policy, as defined in clause 6.1.2.4 of TS 23.503? During the BDT warning notification, do all candidate BDT policies which are sent to the AF apply to the same network area information?

Huawei wants to consider the meaning what the answer to Q1 is NO.

Huawei makes r1 available.

Ericsson: I also provided comment on the initial version that Table 6.6.3-2: Network performance predictions should be referenced (also contains Area subset IE), not the table for the Network performance statistics.

Huawei: Do you mean just remove the table in the revision, right?

Huawei makes r2 available.

Ericsson is fine with r2.

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

### 16.23 CT aspects of SBA interactions between IMS and 5GC [eIMS5G\_SBA]

**C3-202111 Update for eIMS5G\_SBA**

*Type: CR For: Agreement  
 29.513 v16.3.0 CR-0146 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**C3-202206 Miscellaneous corrections**

*Type: CR For: Agreement  
 29.514 v16.4.0 CR-0207 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**C3-202257 Correction to NetLoc feature**

*Type: CR For: Agreement  
 29.514 v16.4.0 CR-0214 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202492**.

**C3-202492 Correction to NetLoc feature**

*Type: CR For: Agreement  
 29.514 v16.4.0 CR-0214 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202257)

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

### 16.24 CT aspects of application layer support for V2X services[V2XAPP]

**C3-202112 Apiversion of VAE\_FileDistribution API**

*Type: CR For: Agreement  
 29.486 v16.0.0 CR-0001 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**C3-202113 Correction of the usage of SEAL services by the V2X application specific server**

*Type: CR For: Agreement  
 29.486 v16.0.0 CR-0002 Cat: F (Rel-16)  
  
 Source: Huawei*

**Discussion:**

Ericsson:

I don’t understand what it means by the added statement.

Is VAE server acting as API topology hiding point in CAPIF?

We only have a few use cases what the VAE server needs to contact the SEAL server (e.g. the group mgmt. function), not all.

If you want to say the VAE server has to re-expose all SEAL APIs, this is not fully specified.

Samsung:

Need clarification on, when VAS server invokes the SEAL APIs via VAE server, VAE server becomes the VAL server as per your note.

Does this mean that

1. VAE server re-exposes the SEAL APIs to VAS server? VAS server invokes these re-exposed SEAL APIs on VAE server, and VAE server in turn invokes the SEAL APIs on the SEAL server and renders the response to the VAS server.

OR

2. Upon a API request (as per Table 5.1-1) from the VAS server, based on the need the VAE server in turn invokes the appropriate SEAL APIs on the SEAL server, to fulfil the API request from VAS server?

Huawei: The statement wants to clarify that VAE server may also provide some SEAL server APIs to the V2X application. Do you have text proposal?

Ericsson: OK, if you don’t imply use of CAPIF here, why do we need to mention any underlying APIs used by VAE server for some use cases (e.g. group mgmt.) ?

The V2X specific server only talks to VAE server. In 29.122/522, we don’t mention that the AF uses UDM APIs via NEF API. Also in SEAL APIs, we don’t mention VAL server uses NEF APIs via SEAL APIs.

Check if we need to say anything about southbound interfaces.

Huawei: I understand the VAE server also provides the SEAL server API. While in the 29.122/522, the NEF doesn’t provide the UDM service.

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

**C3-202114 Correction to DELETE method of VAE\_FileDistribution API**

*Type: CR For: Agreement  
 29.486 v16.0.0 CR-0003 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-202115 Editoral corrections of 29.486**

*Type: CR For: Agreement  
 29.486 v16.0.0 CR-0004 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-202423**.

**C3-202423 Editoral corrections of 29.486**

*Type: CR For: Agreement  
 29.486 v16.0.0 CR-0004 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202115)

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

### 16.25 xMB extension for mission critical services [MC\_XMB-CT]

**C3-202314 Correct qci for Mission critical extension**

*Type: CR For: Agreement  
 29.116 v16.4.0 CR-0046 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

### 16.26 CT aspects of enhancements for Common API Framework for 3GPP Northbound APIs [eCAPIF]

**C3-202167 Corrections on service API category**

*Type: CR For: Agreement  
 29.222 v16.2.0 CR-0127 Cat: F (Rel-16)  
  
 Source: Huawei*

**Discussion:**

C3-202296 and C3-202167 are merged into C3-202491

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

**C3-202179 Service description and operations for CAPIF\_API\_Routing\_Policy\_API**

*Type: CR For: Agreement  
 29.222 v16.2.0 CR-0128 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-202395**.

**C3-202395 Service description and operations for CAPIF\_API\_Routing\_Policy\_API**

*Type: CR For: Agreement  
 29.222 v16.2.0 CR-0128 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202179)

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

**C3-202180 API definition for CAPIF\_API\_Routing\_Policy\_API**

*Type: CR For: Agreement  
 29.222 v16.2.0 CR-0129 Cat: F (Rel-16)  
  
 Source: Huawei*

**Discussion:**

Category misalignment with 3GU

Samsung:

1. In other comments of coversheet, as this is new feature, this is non backward compatible feature.

2. 8.x.2.1 – The resource URI figure should have {apiVersion}, not the version number. Same applies to Table 8.x.2.1-1, Resource URI in 8.x.2.2.2

3. Resource definition of {apiRoot}

a. /api-routing-policy/v1/apiRoutingPolicy/ is missing.

4. In Table 8.x.2.1-1. Update resource name to “API Routing Policy of Service API”. Same update in further clauses where ever applicable.

5. Since this is the first version of the API, the version should be “1.0.0-alpha1”, Also the TS 29.222 version is 16.3, shouldn’t it be current version 16.2?

Ericsson: This CR needs to mention S6 CR num. in cover sheet “other specs affected”

The API name and operation are not aligned with S6 definition, S6 doesn’t call it “routing policy” but just routing info (the only reference is that “Access control policy” was defined but not for “routing policy”). Therefore, API name should be “routing-info” and the resource collection name should be “apiRoutingPolicies”

5.x.3 should be removed, no stage 2 event subs/notify defined for this API

Missing impact in 4.3.2.

aefId is not needed (already included in AefProfile) and serviceAPIDescription is not needed (redundant info since AefProfile is already included in ServiceAPIDesription and API hiding entity only cares AefProfile).

Suggest to use “supp-feat” as shorter name instead of “supported-features”, it is a new API and also it is shorten in R16 new API CAPIF\_API\_Provider\_Management\_API (see 2217 in this meeting).

Last, the openAPI version should be 1.0.0.alpha-1.

Huawei: accepts comments.

Just to clarify that this aefId is not related to the aefId in targetAefProfile. I agree, aefId is not required. I think serviceAPIDescription is not required but a apiId is required to show the mapping of the targetAefProfile and the serviceAPI. API hiding entity which is the AEF may support API topology hiding for one or more serviceAPIs.

Huawei makes r1 available.

Samsung: Some provided comments not considered.

Huawei: r2 available. For 3) {apiRoot} is defined in clause 7.5 and I have referenced it. I think {apiRoot} is not equal to the path. Please clarify in R2 what change you would like to see.

Samsung withdraws the comment on 3).

Ericsson: Api id is not needed in RoutingInfo since the consumer already knows (i.e. it is the variable part in the URI).

And openAPI cannot pass online check tool

Huawei makes r3 available.

Ericsson: Don’t understand why api id is still in 8.x.4.2.2. The notification should design its own data type.

BTW, in the openAPI supported-features name is not aligned with data model.

Huawei: I have fixed the OpenAPI for supp-feat.

As per TS 23.222, it is RoutingInfo that is sent to AEF in the notification. I think the NOTE clarifies the usage of the RoutingInfo in the Notification and in CAPIF\_Routing\_Info\_API. I have seen re-use of data type when they refer to the same resource in CCF. Hope this is not an issue.

Ericsson: Since we have different understanding of what is needed and whether there is a need to share common data structure.

I still prefer to solve this in a quick way by simply remove apiId from 8.x.4.2.2.

The EN in another CR already remind us. At least for this CR scope, Api id is not needed.

Huawei: As SA6 has defined RoutingInfo to include apiId and AEF info, I prefer to keep it that way. The usage of the attributes of RoutingInfo can be discussed further based on the context of notification and CAPIF\_Routing\_Info\_API. The NOTE in the table clearly says that apiId will not be used in CAPIF\_Routing\_Info\_API

Ericsson disagrees.

Huawei proposes to remove the apId from RoutingInfo and add an EN to say whether to include it therer is ffs.

Ericsson is fine with r5.

**Decision:** The document was **revised to C3-202396**.

**C3-202396 API definition for CAPIF\_API\_Routing\_Policy\_API**

*Type: CR For: Agreement  
 29.222 v16.2.0 CR-0129 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202180)

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

**C3-202181 API Topology hiding**

*Type: CR For: Agreement  
 29.222 v16.2.0 CR-0130 Cat: F (Rel-16)  
  
 Source: Huawei*

**Discussion:**

Category misalignment with 3GU

Ericsson:

Cover sheet:

- S6 CR should be added in “other spec. affected”

- And this is a BC “feature” not “correction”.

5.3.2.2.2:

- the condition of bullet e is not described, it is not a mandatory step.

- Also step f is conditional, depending on whether event subscription exists.

- Step f should replace API\_Topology\_Hiding\_Created with API\_TOPOLOGY\_HIDING\_CREATED

5.3.2.3.2: for bullet c & d, same comment as in 5.3.2.2.2.

8.3.4.2.5, not fine to notify the whole routing info directly; notify only API id is required by stage2 so the API hiding entity can further fetch details via the new API.

Samsung: in 5.4.2.4.2, the attribute name "apiRoutingPolicies" should be replaced with "apiRoutingPolicy" as per update to 8.3.4.2.5.

Huawei: Comments accepted except:

5.3.2.2.2: bullet e is a mandatory step to be performed by CCF as per clause 8.24.3 in TS 23.222 during API publish operation.

8.3.4.2.5: step 3 in 8.24.3 in TS 23.222 specifies that “The CCF sends the API topology notify to the AEF selected as the entry point for service API invocation. The service API identification and the AEF which provides the service API are included.”

Ericsson: step e: I don’t believe every CCF will need to execute step e above upon receipt of the API publish. “API topology hiding management” is optional, it is purely CCF local policy to decide if there is any need to hide something. We should not impact the normal API publish procedure with this mandatory step.

8.3.4.2.5: only “service API id” is required not the whole api routing info.

Huawei makes r1 available and replies to Ericsson’s concerns.

Samsung is fine with r1.

Ericsson: The same condition should be applied for unpublish as well.

The AEF info only include the id, not the whole end point info.

Otherwise if everything is included there is no need for the notified AEF to fetch the routing policy using the new APIs.

If you want to improve this notification mechansim, it can be done in R17.ç

Huawei: There is a mismatch in the step description and information element table in TS 23.222. Also as per procedure in clause 8.27.3 in TS 23.222, the usage of CAPIF\_Routing\_Info\_API is optional. The main intention of the notification is to provide the AEF information corresponding to the serviceAPI to the entry point AEF. If it was not the intention, SA6 would not include AEF ID which provides the service API also in the notification. It is a R16 issue and I have captured an EN currently to resolve it in the next meeting. R2 available.

Ericsson: I prefer not to capture something controversial in the normative text.I would appreciate you can remove routingInfo from the table and revise the EN

Huawei makes r3 available.

Ericsson is fine with r3.

**Decision:** The document was **revised to C3-202397**.

**C3-202397 API Topology hiding**

*Type: CR For: Agreement  
 29.222 v16.2.0 CR-0130 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces C3-202181)

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

**C3-202216 Work plan for CT3 aspects of eCAPIF**

*Type: Work Plan For: Information  
 Source: Samsung Electronics France SA*

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

**C3-202217 API Provider management API attribute name optimization**

*Type: CR For: Agreement  
 29.222 v16.2.0 CR-0131 Cat: F (Rel-16)  
  
 Source: Samsung Electronics France SA*

**Decision:** The document was **revised to C3-202398**.

**C3-202398 API Provider management API attribute name optimization**

*Type: CR For: Agreement  
 29.222 v16.2.0 CR-0131 rev 1 Cat: F (Rel-16)  
  
 Source: Samsung Electronics France SA*

(Replaces C3-202217)

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

**C3-202451 Correct ServiceAPIDescription**

*Type: CR For: Agreement  
 29.222 v16.2.0 CR-0135 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202295)

**Discussion:**

Revision of 2295 (Under Agenda Item 15.12)

Category changed from A to F.

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

**C3-202296 Correct service API discovery in interconnection**

*Type: CR For: Agreement  
 29.222 v16.2.0 CR-0136 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Discussion:**

C3-202296 and C3-202167 are merged into C3-202491.

Waiting for comments. See if it needs to be merged.

Huawei:

1. In Table 8.2.4.2.2-1, the P for aefProfiles should be changed from M to C. Hope this does not make it Non-BC. Further add a NOTE to aefProfiles attribute which says “For API publishing over CAPIF-6/6e, aefProfiles is not included”

2. Add a NOTE to apiId, serviceAPICategory and ccfId attributes which says “For API publishing over CAPIF-6/6e interface, apiId, serviceAPICategory and ccfId are also included.”

3. In Table 8.1.4.2.2, the description of serviceAPIDescriptions attribute should be modified to “Description of the service API as published by the service. Each service API description shall include AEF profiles matching the filter criteria or shall include serviceAPICategory and corresponding ccfId matching the filter criteria.”

Samsung:

1. Changing aefProfiles from M to C, makes v1.2 of API consumer non compatible with v1.1 of API producer. So, when a CCF (v1.2 API) publishes service APIs to CCF (v1.1 API), the API handler on the receiving CCF (v1.1) expects the AEF profiles information and fails.

2. Also, to my understanding AEF profile information is essential for all service APIs, used by API invokers for service API invocations. Why is this information is not needed when service APIs are published over CAPIF-6/6e interface?

Ericsson to Huawei:

1. Presence change is covered in 2295, do you want me to change 2295? Why inter-connection publish doesn’t include the aef details? Is it a new/changed requirement from SA6? At least current 23.222, cl.8.25.2.1 includes the same service API information as normal API publish in 8.3.2.1 of 23.222. So this comment is not aligned with stage 2.

2. please check again for the description part I added for ccfId and serviceAPICategory, CAPIF-6/6e is already mentioned. For apiId, so far I don’t see any need to mandate it to be shared to other CCF, the API invoker will anyway discovers api id from the original CCF. Therefore I prefer not to mandate it and leave this as it is for the original CCF to decide how to handle it over CAPIF-6/6e.

3. I did miss this change.

Revision available.

Samsung: ignore my previous comment on changing presence of “aefProfiles” from M to C. Though the data type specifies “aefProfiles” presence as as M, the openAPI file is missing this attribute as “required”.

Hence, as per your proposal, changing presence from M to C is a backward compatible change and I am fine with that.

Samsung: On Point 3, AEF details information is essential for service API invocation and hence we should restate it as

“Description of the service API as published by the service. Each service API description shall include AEF profiles matching the filter criteria and may include serviceAPICategory and corresponding ccfId matching the filter criteria.

Huawei replies to both Ericsson and Samsung.

Samsung replies.Ericsson replies.

Huawei: change the presence condition for aefProfiles from M to C. This will provide more clarity to NOTE x.

Ericsson: aefProfile presence column change is ready reflected in revision of 2295 (see another thread).

Is 2296 v2 fine with you?

Huawei is fine with v2.

Samsung: I am fine with this version.

Wanted additional text to “aefProfiles” attribute, which I have commented to C3-202295 contribution.

**Decision:** The document was **revised to C3-202491**.

**C3-202491 Correct service API discovery in interconnection**

*Type: CR For: Agreement  
 29.222 v16.2.0 CR-0136 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson, Huawei*

(Replaces C3-202296)

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

**C3-202297 Correct shareable information**

*Type: CR For: Agreement  
 29.222 v16.2.0 CR-0137 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202399**.

**C3-202399 Correct shareable information**

*Type: CR For: Agreement  
 29.222 v16.2.0 CR-0137 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202297)

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

### 16.27 CT aspects of Service Enabler Architecture Layer for Verticals [SEAL]

**C3-202140 Service Description and operations for SS\_LocationReporting API**

*Type: pCR For: Approval  
 29.549 v1.1.0  
 Source: Huawei*

**Decision:** The document was **revised to C3-202334**.

**C3-202334 Service Description and operations for SS\_LocationReporting API**

*Type: pCR For: Approval  
 29.549 v1.1.0  
 Source: Huawei*

(Replaces C3-202140)

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

**C3-202141 API definition for SS\_LocationReporting API**

*Type: pCR For: Approval  
 29.549 v1.1.0  
 Source: Huawei*

**Decision:** The document was **revised to C3-202335**.

**C3-202335 API definition for SS\_LocationReporting API**

*Type: pCR For: Approval  
 29.549 v1.1.0  
 Source: Huawei*

(Replaces C3-202141)

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

**C3-202142 Service Description and operations for SS\_LocationInfoRetrieval API**

*Type: pCR For: Approval  
 29.549 v1.1.0  
 Source: Huawei*

**Discussion:**

Samsung: Val server is retrieving location information. HTTP GET method should be used to retrieve/fetch information. POST is used for write operation. Method needs to be changed.

Huawei: I also considered GET before, but as SS\_UserProfileRetrieval API, how the VAL server is aware of the resource URI before, and who create the resource URI?

POST can also be used to query or retrieve the information, e.g. TS 29.122 ECRControl API

Ericsson: Such custom operation can be part of the event of location report (with immediate and one-time reporting).

Huawei to Ericsson: You prefer to use GET or POST?

Samsung: my understanding this referred API is custom operation. Are you proposing a custom operation here as well?

VAL server can be aware of the resource collection representation, may not be the exact resource. Use GET on resource collection, with appropriate query parameters to fetch the location information.

Huawei: I propose a custom operation here.

Samsung: Shouldn’t we be using custom operation, when the CRUD operations cannot be fulfilled with standard HTTP methods?

Huawei: Correct, we should use CRUD as possible but if CRUD can’t reached, then custom operation.

We can discuss this during the conference call.

Huawei accepts to support GET in this API. Ericsson prefers to handle it with a different API.

Huawei: Since all methods can work well, I am fine to resue SS\_Events API due to not care much of using which method. R1 available.

Samsung: We are fine with proposal of using SS\_Events API for SS\_LocationInfoRetrieval API.

One question, Obtain\_location\_Info service operation is of Request/Response nature, which means the VAL server expects location information in the response to the request. Using Events API puts limitation that the VAL server needs to setup a notification destination to receive the location information instead of receiving the location information in response to the request. Is this ok? Should the service operation “Obtain\_location\_Info” be updated to “Subscribe/Notify”?

Huawei: By reusing the SS\_Events API via immediate reporting, then the server will not create any resource for the request, the location information is included in the response. It’s a request/response communication type.

Samsung: As per the semantics to SS\_Events API, my understanding is

1. The VAL server subscribes to events through subscription request to SEAL server

2. The SEAL server responds with provisional response of successful creation of event subscription.

3. Upon event triggered at SEAL server (in our case, Location information with “immRep”, which will be an event generated immediately), the SEAL sends the Location information to the notificaitonDestination.

Huawei: I don’t want to break the logic for SS\_Events API. But SS\_LocationInfoRetrieval API is request/response communication type, if reusing the SS\_Events API to implement SS\_LocationInfoRetrieval API, then the location is directly provided during the response, another notification is no necessary, right?

SS\_Events API still meet the requirement for stage 2, but also need to adjust to meet the SS\_LocationInfoRetrieval API, as stage 3 decides.

Frankly, I am still prefer to use GET to define the SS\_LocationInfoRetrieval API, which is similar as the dedicate Nnwdaf\_AnalyticisInfo API not reusing Nnwdaf\_EventsSubscription API. But all up to the group decide.

Ericsson: Would you update NotificationMethod set to ONE\_TIME , rest is fine.

Samsung: I agree that fine tuning and optimization is good. However, as SS\_Events API is applicable for lot of SEAL events, breaking its principle logic at the expense of optimizing one API (LocationInfoRetrieval) is costly for implementations as well. With this new way of handling, when Event ID: LM\_LOCATION\_INFO\_CHANGE and immRep set to TRUE, then the event subscription request’s response includes the location information unlike in an event notification. This needs to modify the Event API behaviour. Such customizations add complexity.

am fine with etiher

1. GET method on SS\_LocationInfoRetrieval API OR

2. Use SS\_Events, location information sent as event notification at notificationDestination to the VAL server. This behaviour should not break for one event.

Huawei: I think if location information is provided during further notification breaks the logic of SS\_LocationInfoRetrieval API.

The notification URI here is still mandatory for stage 2 SS\_Events API not cause complexity, if you insist to make it always mandatory even for SS\_LocationInfoRetrial API, I am fine with that. I don’t care much about this issue, since SS\_LocationInfoRetrieval API is immediate and one-time report, even the notification URI is provided, it may not be used.

Ericsson to check the CT3 decision for the handling of immediate reporting. Decision available.

Huawei: But if immediate reporting flag is set to true, the information can only be provided in a new notification not the reply, then what’s the difference between one-time reporting and immediate reporting?

I think we should allow the possibility for both cases in CT3 too, i.e. if immediate reporting flag is provided, the information shall be provided in the reply if available, if unavailable, then use a new notification.

Huawei makes r2 available.

Samsung is fine with r2.

Ericsson is fine with r2.

**Decision:** The document was **revised to C3-202336**.

**C3-202336 Service Description and operations for SS\_LocationInfoRetrieval API**

*Type: pCR For: Approval  
 29.549 v1.1.0  
 Source: Huawei*

(Replaces C3-202142)

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

**C3-202143 API definition for SS\_LocationInfoRetrieval API**

*Type: pCR For: Approval  
 29.549 v1.1.0  
 Source: Huawei*

**Discussion:**

Samsung:

1. “7.1.3.2.2.1 Description”, does not describe what the resource represents. What resources “/retrieval” consists of? It describes what operation can be done on the resource. Does it have location information of val users/val UEs? This needs to clarified.

2. Resource name on 7.1.3.2.2 title should align with Table 7.1.3.2.1-1.

3. Semantics of HTTP POST method doesn’t relate to the actual operation which is fetch. Should be changed to GET method.

Ericsson:

1) Such custom operation can be part of the event of location report (with immediate and one-time reporting).

2) Table Table 7.1.3.2.1-1, Resource URI {apiRoot}/ss-location-info/{apiVersion}/Retrieval =>{apiRoot}/ss-location-info/{apiVersion}/retrieval

3) A.x, API for SEAL Location information Retrieval => API for SEAL Location Information Retrieval

Huawei to Ericsson: I am fine with comments 2) and 3), but what comment 1) means?

Huawei to Samsung:

1. This resource is used to retrieve the location information for VAL users or UEs, what information it includes is described in subclause 7.1.3.2.2.3.1. I think no need to describe so detailed here.

2. sure, will make Retrieval to retrieval

3. As discussed in C3-202142, POST can also be used to query or retrieve information. if using GET, how the VAL server is aware of the resource URI before?

Ericsson: Comment 1) still as Ericsson preferred suggestion,

custom operation for retrieving location (also one-time and immediate) is enough, If comment 1) can be accepted then comments 2) and 3) can be omitted.

Huawei: We proposed to use POST which is custom operation, right?Or what proposal you mention? Please describe a little bit detailed.

Samsung to Huawei:

1.Retrieve is an operation to be used on a resource. I agree that you are using this resource to fetch VAL users/UE information. In that case resource name should be something like /valUsers, where the resource is collection of all VAL users/UEs. Input query can be Identity filter and locationInfo.

2. Also please add “Seal” as per resource name in the table 7.1.3.2.1-1

3. GET can be used on resource collection representation with appropriate query parameters.

In addition: shouldn’t the input query parameter include “LocationInfo” to enable SEAL server retrieve VAL Users’/UEs based on location criteria?

Ericsson: Event based reporting is good enough,

you can refer to TS 29.523, immediate reporting defined in ReportingInformation , supporting immediate and one-time reporting.

Huawei to Ericsson: So do you agree with using POST to implement the API, right? For updating immRep as TS 29.523, I am fine with that.

Ericsson: Actually suggest you could describe in this CR,

To directly reuse 2144 defined SS\_Events API, with immediate report mapping requirements of SS\_LocationInfoRetrieval API effectively.

Huawei: do you mean now that not define a new API to support SS\_LocationInfoRetrieval API but reuse SS\_Events API, right?

Ericsson confirms.

Huawei: Since all methods can work well, I am fine to resue SS\_Events API due to not care much of using which method. R1 available.

Samsung: “notificationDestination” is changed from “M” to “C”. For “Obtain\_location\_Info” service operation, even with “immRep” attribute set to TRUE, as the nature of events operation is subscribe/notify, the notificationDestination is still mandatory for the VAL server to receive the location information. I think we should retain the “notificationDestination” as “M”.

Huawei: As explained in C3-202142, for immediate report, the location information is provided directly in the response, no further server-triggered notification needed, so the notification destination is no need to be provided

Huawei makes r2 available.

Samsung is fine with r2.

Ericsson is fine with r2.

**Decision:** The document was **revised to C3-202481**.

**C3-202481 API definition for SS\_LocationInfoRetrieval API**

*Type: pCR For: Approval  
 29.549 v1.1.0  
 Source: Huawei*

(Replaces C3-202143)

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

**C3-202144 Support of SS\_LocationInfoEvent API**

*Type: pCR For: Approval  
 29.549 v1.1.0  
 Source: Huawei*

**Decision:** The document was **revised to C3-202338**.

**C3-202338 Support of SS\_LocationInfoEvent API**

*Type: pCR For: Approval  
 29.549 v1.1.0  
 Source: Huawei*

(Replaces C3-202144)

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

**C3-202164 Security Schemes in OpenAPI files**

*Type: pCR For: Approval  
 29.549 v1.1.0  
 Source: Huawei*

**Decision:** The document was **revised to C3-202339**.

**C3-202339 Security Schemes in OpenAPI files**

*Type: pCR For: Approval  
 29.549 v1.1.0  
 Source: Huawei*

(Replaces C3-202164)

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

**C3-202165 SEAL API Names**

*Type: pCR For: Approval  
 29.549 v1.1.0  
 Source: Huawei*

**Discussion:**

C3-202165, C3-202239 and C3-202242 merged into C3-202337

**Decision:** The document was **revised to C3-202337**.

**C3-202337 SEAL API Names**

*Type: pCR For: Approval  
 29.549 v1.1.0  
 Source: Huawei, Samsung*

(Replaces C3-202165)

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

**C3-202182 Update to Network\_Resource\_Adaptation API**

*Type: pCR For: Approval  
 29.549 v1.1.0  
 Source: Huawei*

**Decision:** The document was **revised to C3-202340**.

**C3-202340 Update to Network\_Resource\_Adaptation API**

*Type: pCR For: Approval  
 29.549 v1.1.0  
 Source: Huawei*

(Replaces C3-202182)

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

**C3-202218 Work plan for CT3 aspects of SEAL**

*Type: Work Plan For: Information  
 Source: Samsung Electronics France SA*

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

**C3-202219 Security aspects of SEAL APIs status**

*Type: discussion For: Information  
 Source: Samsung Electronics France SA*

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

**C3-202237 Pseudo-CR on Generic group query**

*Type: pCR For: Approval  
 29.549 v1.1.0  
 Source: Samsung Electronics France SA*

**Decision:** The document was **revised to C3-202341**.

**C3-202341 Pseudo-CR on Generic group query**

*Type: pCR For: Approval  
 29.549 v1.1.0  
 Source: Samsung Electronics France SA*

(Replaces C3-202237)

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

**C3-202238 Pseudo-CR on Group create event**

*Type: pCR For: Approval  
 29.549 v1.1.0  
 Source: Samsung Electronics France SA*

**Decision:** The document was **revised to C3-202342**.

**C3-202342 Pseudo-CR on Group create event**

*Type: pCR For: Approval  
 29.549 v1.1.0  
 Source: Samsung Electronics France SA*

(Replaces C3-202238)

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

**C3-202239 Pseudo-CR on Group Management API name update**

*Type: pCR For: Approval  
 29.549 v1.1.0  
 Source: Samsung Electronics France SA*

**Discussion:**

C3-202165, C3-202239 and C3-202242 merged into C3-202337

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

**C3-202240 Pseudo-CR on Location based group creation**

*Type: pCR For: Approval  
 29.549 v1.1.0  
 Source: Samsung Electronics France SA*

**Decision:** The document was **revised to C3-202343**.

**C3-202343 Pseudo-CR on Location based group creation**

*Type: pCR For: Approval  
 29.549 v1.1.0  
 Source: Samsung Electronics France SA*

(Replaces C3-202240)

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

**C3-202241 Pseudo-CR on SEAL services update**

*Type: pCR For: Approval  
 29.549 v1.1.0  
 Source: Samsung Electronics France SA*

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

**C3-202242 Pseudo-CR on UserProfileRetrieval API name update**

*Type: pCR For: Approval  
 29.549 v1.1.0  
 Source: Samsung Electronics France SA*

**Discussion:**

C3-202165, C3-202239 and C3-202242 merged into C3-202337

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

**C3-202275 Pseudo-CR on optional event**

*Type: pCR For: Approval  
 29.549 v1.1.0  
 Source: Ericsson, Samsung*

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

**C3-202333 LS on location reporting triggers**

*Type: LS out For: Approval  
 to SA6  
 Source: Huawei*

**Decision:** The document was **revised to C3-202441**.

**C3-202441 LS on location reporting triggers**

*Type: LS out For: Approval  
 to SA6  
 Source: Huawei*

(Replaces C3-202333)

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

**C3-202444 TS 29.549 V1.2.0**

*Type: draft TS For: Agreement  
 29.549 v1.2.0  
 Source: Samsung*

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

### 16.28 CT aspect of single radio voice continuity from 5GS to 3G [5G\_SRVCC]

### 16.29 Technical Enhancements and Improvements [TEI16]

#### 16.29.1 TEI16 for IMS/CS

**C3-202036 Corrections on the II-NNI specifications on the P-Charging-Vector header field.**

*Type: CR For: Agreement  
 29.165 v16.2.0 CR-1006 Cat: F (Rel-16)  
  
 Source: NTT*

**Abstract:**

This CR intends to add clarifications regarding the P-Charging-Vector header field considering the alignment with TS 24.229 profiles & procedures.

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

#### 16.29.2 TEI16 for Packet Core

**C3-202018 Editorial Updates to open ProSe direct discovery**

*Type: CR For: Agreement  
 29.343 v15.1.0 CR-0031 Cat: A (Rel-15)  
  
 Source: CATT*

**Decision:** The document was **revised to C3-202493**.

**C3-202493 Correct open ProSe direct discovery**

*Type: CR For: Agreement  
 29.343 v15.1.0 CR-0031 rev 1 Cat: F (Rel-16)  
  
 Source: CATT*

(Replaces C3-202018)

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

**C3-202025 Corrected reference to xMB stage-2 spec**

*Type: CR For: Agreement  
 29.116 v16.4.0 CR-0044 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

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

**C3-202026 Missing bullet in introduction**

*Type: CR For: Agreement  
 29.122 v16.5.0 CR-0235 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to C3-202426**.

**C3-202027 Missing mapping in the overview**

*Type: CR For: Agreement  
 29.522 v16.3.0 CR-0148 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to C3-202427**.

**C3-202049 Data Types for Application Data**

*Type: CR For: Agreement  
 29.519 v16.3.0 CR-0181 Cat: F (Rel-16)  
  
 Source: ZTE*

**Decision:** The document was **revised to C3-202425**.

**C3-202425 Data Types for Application Data**

*Type: CR For: Agreement  
 29.519 v16.3.0 CR-0181 rev 1 Cat: F (Rel-16)  
  
 Source: ZTE*

(Replaces C3-202049)

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

**C3-202050 Corrections related to Ueaddr**

*Type: CR For: Agreement  
 29.521 v16.3.0 CR-0067 Cat: F (Rel-16)  
  
 Source: ZTE*

**Decision:** The document was **revised to C3-202440**.

**C3-202440 Corrections related to Ueaddr**

*Type: CR For: Agreement  
 29.521 v16.3.0 CR-0067 rev 1 Cat: F (Rel-16)  
  
 Source: ZTE*

(Replaces C3-202050)

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

**C3-202207 Support of FLUS feature**

*Type: CR For: Agreement  
 29.514 v16.4.0 CR-0208 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**C3-202208 Names of "maxPacketLossRateDl" and "maxPacketLossRateUl" attributes**

*Type: CR For: Agreement  
 29.514 v16.4.0 CR-0209 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**C3-202477 Correct presence condition in event subscription**

*Type: CR For: Agreement  
 29.508 v16.3.0 CR-0077 rev 1 Cat: A (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202281)

**Discussion:**

Revision of C3-202281 under Agenda Item 15.2.3.

WI changed.

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

**C3-202306 Support secondary RAT data usage report**

*Type: CR For: Agreement  
 29.061 v15.5.0 CR-0512 Cat: B (Rel-16)  
  
 Source: Ericsson*

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

**C3-202307 Support secondary RAT data usage report**

*Type: CR For: Agreement  
 29.561 v16.3.0 CR-0028 Cat: B (Rel-16)  
  
 Source: Ericsson*

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

**C3-202308 Add NR-U RAT type**

*Type: CR For: Agreement  
 29.061 v15.5.0 CR-0513 Cat: B (Rel-16)  
  
 Source: Ericsson*

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

**C3-202309 Add NR-U RAT type**

*Type: CR For: Agreement  
 29.561 v16.3.0 CR-0029 Cat: B (Rel-16)  
  
 Source: Ericsson*

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

**C3-202310 Remove redundant annex content**

*Type: CR For: Agreement  
 29.116 v16.4.0 CR-0045 Cat: D (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-202428**.

**C3-202428 Remove redundant annex content**

*Type: CR For: Agreement  
 29.116 v16.4.0 CR-0045 rev 1 Cat: D (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-202310)

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

### 16.30 OpenAPI version updates

### 17.1 Rel-17 Work Items

**C3-202116 Disucssion on PFD management enhancement**

*Type: discussion For: Discussion  
 Source: Huawei*

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

#### 17.1.1 New or revised Work Items

#### 17.1.2 Contributions on Work Items

### 17.2 Technical Enhancements and Improvements [TEI17]

#### 17.2.1 TEI17 for IMS/CS

#### 17.2.2 TEI17 for Packet Core

### 17.3 OpenAPI version updates

## 18 Work Organisation

### 18.1 Work Plan Review

**C3-202011 Status of CT3 Work Items**

*Type: Work Plan For: Information  
 Source: CT3 chairman*

**Decision:** The document was **revised to C3-202529**.

**C3-202529 Status of CT3 Work Items**

*Type: Work Plan For: Information  
 Source: CT3 chairman*

(Replaces C3-202011)

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

**C3-202014 WI status report from MCC**

*Type: Work Plan For: Information  
 Source: MCC*

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

### 18.2 Specification Review

### 18.3 Next meetings, allocation of hosts

### 18.4 Calendar

**C3-202015 Meeting Calendar**

*Type: other For: Information  
 Source: MCC*

**Discussion:**

No f2f meeting before September.

Meeting in May moved to June.

It was confirmed that there is no meeting in July.

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

## 19 Joint Sessions

## 20 Summary of results

## 21 Any other business

## 22 Closing of the meeting

Report prepared by: MCC

## Annex A: Contribution documents and status

### A1: List of TDocs

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Decision | Replaces | Replaced by |
| * C3-202000 | * Draft Agenda for the CT3#109 e-Meeting | * CT3 chairman | * noted |  |  |
| * C3-202001 | * INFO Proposed Schedule for CT3#109e | * CT3 chairman | * noted |  |  |
| * C3-202002 | * Allocation of documents to agenda items (at Deadline) | * CT3 chairman | * noted |  |  |
| * C3-202003 | * Allocation of documents to agenda items (Start of Day 1) | * CT3 chairman | * noted |  |  |
| * C3-202004 | * Allocation of documents to agenda items (Start of Day 2) | * CT3 chairman | * noted |  |  |
| * C3-202005 | * Allocation of documents to agenda items (Start of Day 3) | * CT3 chairman | * noted |  |  |
| * C3-202006 | * Allocation of documents to agenda items (Start of Day 4) | * CT3 chairman | * noted |  |  |
| * C3-202007 | * Allocation of documents to agenda items (Start of Day 5) | * CT3 chairman | * noted |  |  |
| * C3-202008 | * Allocation of documents to agenda items (Start of Day 6) | * CT3 chairman | * noted |  |  |
| * C3-202009 | * Allocation of documents to agenda items (Start of Day 7) | * CT3 chairman | * noted |  |  |
| * C3-202010 | * Allocation of documents to agenda items (End of Day 7) | * CT3 chairman | * noted |  |  |
| * C3-202011 | * Status of CT3 Work Items | * CT3 chairman | * revised |  | * C3-202529 |
| * C3-202012 | * Summary of CT#87e related to CT3 | * CT3 chairman | * noted |  |  |
| * C3-202013 | * Minutes of CT3#108e | * MCC | * approved |  |  |
| * C3-202014 | * WI status report from MCC | * MCC | * noted |  |  |
| * C3-202015 | * Meeting Calendar | * MCC | * noted |  |  |
| * C3-202016 | * Way of Working for CT3#109-e Electronic Meeting | * CT3 chairman | * noted |  |  |
| * C3-202017 | * Add External Group Identifier | * CATT | * postponed |  |  |
| * C3-202018 | * Editorial Updates to open ProSe direct discovery | * CATT | * revised |  | * C3-202493 |
| * C3-202019 | * Missing annex A.10.5 (network provided location information at SIP session release) | * Nokia, Nokia Shanghai Bell | * agreed |  |  |
| * C3-202020 | * Missing annex A.10.5 (network provided location information at SIP session release) | * Nokia, Nokia Shanghai Bell | * agreed |  |  |
| * C3-202021 | * 5G CIoT work and contribution plan for CT3 | * Qualcomm Incorporated | * noted |  |  |
| * C3-202022 | * Addition of IMEI/TAC values for RACS operations | * Qualcomm Incorporated, Ericsson | * revised |  | * C3-202422 |
| * C3-202023 | * Corrections to UE radio capability configuration data | * Qualcomm Incorporated, Nokia, Samsung, Vodafone | * revised |  | * C3-202494 |
| * C3-202024 | * RACS CT work plan | * Qualcomm Incorporated | * noted |  |  |
| * C3-202025 | * Corrected reference to xMB stage-2 spec | * Qualcomm Incorporated | * agreed |  |  |
| * C3-202026 | * Missing bullet in introduction | * Qualcomm Incorporated | * revised |  | * C3-202426 |
| * C3-202027 | * Missing mapping in the overview | * Qualcomm Incorporated | * revised |  | * C3-202427 |
| * C3-202028 | * Revised WID on CT aspects of eV2XARC | * Huawei, HiSilicon /Christian | * endorsed | * CP-200291 |  |
| * C3-202029 | * Reply LS on supporting simultaneous online and offline reporting level access | * SA2 | * noted |  |  |
| * C3-202030 | * LS on Group Message Delivery | * SA4 | * postponed |  |  |
| * C3-202031 | * LS on updates to CHEM feature and use of Application Layer Redundancy | * SA4 | * replied to |  |  |
| * C3-202032 | * LS on HLS and Hybrid DASH/HLS Service in MBMS | * SA4 | * postponed |  |  |
| * C3-202033 | * LS Reply to LS Reply to LS to SA2 Introduction of CHF Address from PCF | * SA5 | * postponed |  |  |
| * C3-202034 | * LS reply on Reply LS on supporting simultaneous online and offline reporting level access | * SA5 | * noted |  |  |
| * C3-202035 | * Clarification of QoS Sustainability | * China Telecom, Huawei | * merged |  |  |
| * C3-202036 | * Corrections on the II-NNI specifications on the P-Charging-Vector header field. | * NTT | * agreed |  |  |
| * C3-202037 | * Correction to attributes interGrpIds and appDetectionInfos | * ZTE | * revised |  | * C3-202458 |
| * C3-202038 | * Correction to attributes interGrpIds and appDetectionInfos | * ZTE | * revised |  | * C3-202459 |
| * C3-202039 | * Corrections on Service Area Restriction | * ZTE | * revised |  | * C3-202452 |
| * C3-202040 | * Corrections on Service Area Restriction | * ZTE | * revised |  | * C3-202453 |
| * C3-202041 | * Correction to PUT response for Events Subscription | * ZTE, Ericsson | * revised |  | * C3-202518 |
| * C3-202042 | * Correction to PUT response for Events Subscription | * ZTE, Ericsson | * revised |  | * C3-202519 |
| * C3-202043 | * internalGroupId in Influence Data | * ZTE | * agreed |  |  |
| * C3-202044 | * internalGroupId in Influence Data | * ZTE | * agreed |  |  |
| * C3-202045 | * Corrections on SamePcf | * ZTE | * revised |  | * C3-202429 |
| * C3-202046 | * Wrong datatypes Datatime and Plmn | * ZTE | * revised |  | * C3-202344 |
| * C3-202047 | * Correction to V2XARC | * ZTE | * agreed |  |  |
| * C3-202048 | * Definition of ServiceParameterData in openAPI | * ZTE | * revised |  | * C3-202345 |
| * C3-202049 | * Data Types for Application Data | * ZTE | * revised |  | * C3-202425 |
| * C3-202050 | * Corrections related to Ueaddr | * ZTE | * revised |  | * C3-202440 |
| * C3-202051 | * Wrong datatype referred in analytics exposure procedure | * ZTE | * agreed |  |  |
| * C3-202052 | * Condition description for threshold related attributes | * ZTE | * revised |  | * C3-202379 |
| * C3-202053 | * Some corrections to Nnwdaf\_AnalyticsInfo Service | * ZTE | * revised |  | * C3-202380 |
| * C3-202054 | * internalGroupId in BdtPolicyData | * ZTE | * merged |  |  |
| * C3-202055 | * Location header of 307 status code | * Huawei | * revised |  | * C3-202454 |
| * C3-202056 | * Location header of 307 status code | * Huawei | * revised |  | * C3-202455 |
| * C3-202057 | * Location header of 307 status code | * Huawei | * revised |  | * C3-202470 |
| * C3-202058 | * Location header of 307 status code | * Huawei | * revised |  | * C3-202471 |
| * C3-202059 | * String format of flow information | * Huawei | * agreed |  |  |
| * C3-202060 | * String format of flow information | * Huawei | * agreed |  |  |
| * C3-202061 | * Ethernet PDU session for AF-influnced traffic steering control | * Huawei | * merged |  |  |
| * C3-202062 | * Ethernet PDU session for AF-influnced traffic steering control | * Huawei | * merged |  |  |
| * C3-202063 | * Notification URI | * Huawei | * revised |  | * C3-202456 |
| * C3-202064 | * Notification URI | * Huawei | * revised |  | * C3-202457 |
| * C3-202065 | * Notification URI | * Huawei | * revised |  | * C3-202472 |
| * C3-202066 | * Notification URI | * Huawei | * revised |  | * C3-202473 |
| * C3-202067 | * Notification URI | * Huawei | * revised |  | * C3-202462 |
| * C3-202068 | * Notification URI | * Huawei | * revised |  | * C3-202463 |
| * C3-202069 | * Cause Mapping of VALIDATION\_CONDITION\_NOT\_MET | * Huawei | * revised |  | * C3-202430 |
| * C3-202070 | * Clarification of PCF selection by the AMF and SMF | * Huawei | * agreed |  |  |
| * C3-202071 | * Correction on QoS Flow Binding for QoS Flow Behaviour | * Huawei | * revised |  | * C3-202431 |
| * C3-202072 | * Correction to PCC rule Authorization | * Huawei | * agreed |  |  |
| * C3-202073 | * Correction to binding information procedures | * Huawei | * revised |  | * C3-202432 |
| * C3-202074 | * Same PCF selection support | * Huawei | * revised |  | * C3-202433 |
| * C3-202075 | * Correction to the DNN replacement | * Huawei | * revised |  | * C3-202434 |
| * C3-202076 | * Enable removing the policy decision | * Huawei | * revised |  | * C3-202435 |
| * C3-202077 | * FQDN of alternative AMF | * Huawei | * revised |  | * C3-202527 |
| * C3-202078 | * FQDN of alternative AMF | * Huawei | * agreed |  |  |
| * C3-202079 | * Level of Binding | * Huawei | * revised |  | * C3-202502 |
| * C3-202080 | * Update of PCF discovery by the AF for eSBA | * Huawei | * revised |  | * C3-202503 |
| * C3-202081 | * ATSSS rule derivation | * Huawei | * agreed |  |  |
| * C3-202082 | * QoS support for ATSSS | * Huawei | * revised |  | * C3-202374 |
| * C3-202083 | * Enable removing the policy decision | * Huawei | * revised |  | * C3-202375 |
| * C3-202084 | * QoS Flow Binding about ATSSS | * Huawei | * revised |  | * C3-202376 |
| * C3-202085 | * Correction to bridge Information report | * Huawei | * agreed |  |  |
| * C3-202086 | * Correction to Port Management Information Container exchange | * Huawei | * revised |  | * C3-202361 |
| * C3-202087 | * Correction to Provisioning of TSCAI input information and TSC QoS related data | * Huawei | * revised |  | * C3-202362 |
| * C3-202088 | * PCC rule information update for vertical | * Huawei | * revised |  | * C3-202363 |
| * C3-202089 | * PCF functionality update for TSN | * Huawei | * revised |  | * C3-202364 |
| * C3-202090 | * Correction to Session binding for TSN | * Huawei | * revised |  | * C3-202365 |
| * C3-202091 | * Correction to QoS Flow Binding about TSN | * Huawei | * merged |  |  |
| * C3-202092 | * Correction to bridge information report and port management information container provisioning | * Huawei | * revised |  | * C3-202367 |
| * C3-202093 | * Correction to TSCAI provisioning | * Huawei | * revised |  | * C3-202368 |
| * C3-202094 | * Clarification of target AF configuration | * Huawei | * revised |  | * C3-202526 |
| * C3-202095 | * Clarification of the DS-TT MAC address | * Huawei | * postponed |  |  |
| * C3-202096 | * General update of Annex C | * Huawei | * agreed |  |  |
| * C3-202097 | * Support of full Frame Routing feature | * Huawei | * revised |  | * C3-202349 |
| * C3-202098 | * The data type of GlobalLineId | * Huawei | * revised |  | * C3-202351 |
| * C3-202099 | * Support of full Frame Routing feature | * Huawei | * revised |  | * C3-202352 |
| * C3-202100 | * Procedure of ACS Information Configuration | * Huawei | * revised |  | * C3-202484 |
| * C3-202101 | * Resources and data types of Nnef\_ACSParameterProvision service | * Huawei | * revised |  | * C3-202485 |
| * C3-202102 | * OpenAPI file of Nnef\_ACSParameterProvision service | * Huawei | * revised |  | * C3-202486 |
| * C3-202103 | * LS on subscription to V2X services | * Huawei | * revised |  | * C3-202347 |
| * C3-202104 | * Some corrections to ServiceParameter API | * Huawei | * revised |  | * C3-202482 |
| * C3-202105 | * Update of ParameterOverUu data type | * Huawei | * revised |  | * C3-202483 |
| * C3-202106 | * Update of ServiceParameterDataPatch | * Huawei | * revised |  | * C3-202346 |
| * C3-202107 | * Procedure of policy provisioning of QoS monitoring control | * Huawei | * revised |  | * C3-202437 |
| * C3-202108 | * QoS Monitoring Control Data correction | * Huawei | * revised |  | * C3-202438 |
| * C3-202109 | * Reporting Frequency | * Huawei | * merged |  |  |
| * C3-202110 | * Enable removing the policy decision | * Huawei | * merged |  |  |
| * C3-202111 | * Update for eIMS5G\_SBA | * Huawei | * agreed |  |  |
| * C3-202112 | * Apiversion of VAE\_FileDistribution API | * Huawei | * agreed |  |  |
| * C3-202113 | * Correction of the usage of SEAL services by the V2X application specific server | * Huawei | * postponed |  |  |
| * C3-202114 | * Correction to DELETE method of VAE\_FileDistribution API | * Huawei | * agreed |  |  |
| * C3-202115 | * Editoral corrections of 29.486 | * Huawei | * revised |  | * C3-202423 |
| * C3-202116 | * Disucssion on PFD management enhancement | * Huawei | * noted |  |  |
| * C3-202117 | * Support of multiple network slice instances | * Huawei | * revised |  | * C3-202506 |
| * C3-202118 | * Analyticis result per DNN | * Huawei | * revised |  | * C3-202381 |
| * C3-202119 | * Maximum number of SUPIs | * Huawei | * revised |  | * C3-202522 |
| * C3-202120 | * Correction on FlowDescription | * Huawei | * revised |  | * C3-202382 |
| * C3-202121 | * Corrections on QoS requirement | * Huawei | * merged |  |  |
| * C3-202122 | * Support of Abnormal behaviour | * Huawei | * revised |  | * C3-202384 |
| * C3-202123 | * Confidence for User Data Congestion Information | * Huawei | * agreed |  |  |
| * C3-202124 | * Data type used for NWDAF services | * Huawei | * revised |  | * C3-202385 |
| * C3-202125 | * Correction on resource usage | * Huawei | * agreed |  |  |
| * C3-202126 | * Data type used during event subscription | * Huawei | * agreed |  |  |
| * C3-202127 | * Reselection of PSA UPF if receiving UE IP address preservation indication | * Huawei | * merged |  |  |
| * C3-202128 | * Data type for PLMN | * Huawei | * merged |  |  |
| * C3-202129 | * Event of Usage Threshold | * Huawei | * revised |  | * C3-202448 |
| * C3-202130 | * Event of Usage Threshold | * Huawei | * revised |  | * C3-202449 |
| * C3-202131 | * Periodic reporting by Nnef | * Huawei | * not pursued |  |  |
| * C3-202132 | * Periodic reporting by Nnef | * Huawei | * revised |  | * C3-202447 |
| * C3-202133 | * Loss of connectivity reason | * Huawei | * postponed |  |  |
| * C3-202134 | * Loss of connectivity reason | * Huawei | * revised |  | * C3-202446 |
| * C3-202135 | * Nnef\_EventExposure\_Subscribe for I-NEF event exposure | * Huawei | * postponed |  |  |
| * C3-202136 | * Nnef\_EventExposure\_Notify for I-NEF event exposure | * Huawei | * postponed |  |  |
| * C3-202137 | * OpenAPI update for I-NEF event exposure | * Huawei | * postponed |  |  |
| * C3-202138 | * Allow IP address prefix as one of Individual UE information | * Huawei | * postponed |  |  |
| * C3-202139 | * Any UE clarification | * Huawei | * revised |  | * C3-202424 |
| * C3-202140 | * Service Description and operations for SS\_LocationReporting API | * Huawei | * revised |  | * C3-202334 |
| * C3-202141 | * API definition for SS\_LocationReporting API | * Huawei | * revised |  | * C3-202335 |
| * C3-202142 | * Service Description and operations for SS\_LocationInfoRetrieval API | * Huawei | * revised |  | * C3-202336 |
| * C3-202143 | * API definition for SS\_LocationInfoRetrieval API | * Huawei | * revised |  | * C3-202481 |
| * C3-202144 | * Support of SS\_LocationInfoEvent API | * Huawei | * revised |  | * C3-202338 |
| * C3-202145 | * Area information within BDT policy | * Huawei | * postponed |  |  |
| * C3-202146 | * Reply LS on QoS mapping procedure | * SA4 | * postponed |  |  |
| * C3-202147 | * timeUsage in Accumulated Usage Report | * ZTE | * revised |  | * C3-202464 |
| * C3-202148 | * timeUsage in Accumulated Usage Report | * ZTE | * revised |  | * C3-202465 |
| * C3-202149 | * Support the update of SteeringFunctionality | * ZTE | * agreed |  |  |
| * C3-202150 | * Correction to 5GLANParameterProvision API | * Huawei | * revised |  | * C3-202400 |
| * C3-202151 | * Not to support Mission Critical Services | * Huawei | * agreed |  |  |
| * C3-202152 | * Correction to IPTV Configuration | * Huawei | * revised |  | * C3-202359 |
| * C3-202153 | * Correction to IPTVConfiguration API | * Huawei | * revised |  | * C3-202487 |
| * C3-202154 | * Correction to BDT Policy | * Huawei | * revised |  | * C3-202419 |
| * C3-202155 | * Correction to ApplyingBdtPolicy API | * Huawei | * revised |  | * C3-202421 |
| * C3-202156 | * Adding new attribute maxSupi in TS 29.520 | * China Telecom | * withdrawn |  |  |
| * C3-202157 | * Adding maxAnaEntry attribute in related feature of NWDAF analytics service | * China Telecom, Huawei | * postponed |  |  |
| * C3-202158 | * Adding UDM as consumer of services provided by NWDAF | * China Telecom, Huawei | * revised |  | * C3-202386 |
| * C3-202159 | * Corrections on descriptions of NF service consumers offered by NWDAF | * China Telecom, Huawei | * agreed |  |  |
| * C3-202160 | * I-NEF interworking based on header solution | * Nokia, Nokia Shanghai Bell | * noted |  |  |
| * C3-202161 | * I-NEF interworking | * Nokia, Nokia Shanghai Bell | * postponed |  |  |
| * C3-202162 | * I-NEF interworking | * Nokia, Nokia Shanghai Bell | * postponed |  |  |
| * C3-202163 | * Corrections on Network data analytics Subscribe procedure | * Huawei | * agreed |  |  |
| * C3-202164 | * Security Schemes in OpenAPI files | * Huawei | * revised |  | * C3-202339 |
| * C3-202165 | * SEAL API Names | * Huawei | * revised |  | * C3-202337 |
| * C3-202166 | * Open issue for 5GLanParametersProvisionPatch | * Huawei | * revised |  | * C3-202401 |
| * C3-202167 | * Corrections on service API category | * Huawei | * merged |  |  |
| * C3-202168 | * Addition of IMEI-TAC values for RACS operations | * Qualcomm Incorporated, Ericsson | * revised |  | * C3-202495 |
| * C3-202169 | * Update to UE radio capability information data type | * Qualcomm Incorporated, Nokia, Samsung, Vodafone | * revised |  | * C3-202496 |
| * C3-202170 | * Update service operation for Ue Communication | * Huawei | * agreed |  |  |
| * C3-202171 | * Corrections in TS 29.517 | * Huawei | * agreed |  |  |
| * C3-202172 | * Supporting the Location services in NEF in TS 29.122 | * CATT | * revised | * C3-201520 | * C3-202516 |
| * C3-202173 | * Supporting the Location Services in NEF in TS 29.522 | * Datang Mobile Com. Equipment | * withdrawn | * C3-201521 |  |
| * C3-202174 | * Supporting the Location Services in NEF in TS 29.522 | * Datang Mobile Com. Equipment | * withdrawn |  |  |
| * C3-202175 | * Supporting the Location Services in NEF in TS 29.522 | * Datang Mobile Com. Equipment | * withdrawn | * C3-201521 |  |
| * C3-202176 | * Supporting the Location Services in NEF in TS 29.522 | * CATT | * revised |  | * C3-202517 |
| * C3-202177 | * Adding the MuD service for the option Item table over the roaming II-NNI. | * NTT corporation | * revised |  | * C3-202358 |
| * C3-202178 | * Adding “maxReportNbr” attribute | * China Telecom | * not pursued |  |  |
| * C3-202179 | * Service description and operations for CAPIF\_API\_Routing\_Policy\_API | * Huawei | * revised |  | * C3-202395 |
| * C3-202180 | * API definition for CAPIF\_API\_Routing\_Policy\_API | * Huawei | * revised |  | * C3-202396 |
| * C3-202181 | * API Topology hiding | * Huawei | * revised |  | * C3-202397 |
| * C3-202182 | * Update to Network\_Resource\_Adaptation API | * Huawei | * revised |  | * C3-202340 |
| * C3-202183 | * Periodic reporting by Nnef | * Huawei | * not pursued |  |  |
| * C3-202184 | * Periodic reporting by Nnef | * Huawei | * revised |  | * C3-202445 |
| * C3-202185 | * Alignment of array name containing internal group identities | * Ericsson | * merged |  |  |
| * C3-202186 | * Alignment of array name containing internal group identities | * Ericsson | * merged |  |  |
| * C3-202187 | * Description of scopes field and presenceStatus attribute | * Ericsson | * agreed |  |  |
| * C3-202188 | * Description of scopes field and presenceStatus attribute | * Ericsson | * agreed |  |  |
| * C3-202189 | * Description of "activationTime" attribute | * Ericsson | * agreed |  |  |
| * C3-202190 | * Miscellaneous corrections | * Ericsson | * agreed |  |  |
| * C3-202191 | * Binding information retrieval: PCF set ID and PCF instance ID | * Ericsson | * revised |  | * C3-202501 |
| * C3-202192 | * Binding information: PCF set ID and PCF instance ID | * Ericsson | * revised |  | * C3-202504 |
| * C3-202193 | * Definition of AfEventExposureSubsc in OpenAPI | * Ericsson | * agreed |  |  |
| * C3-202194 | * Unsubscribe service operation | * Ericsson | * revised |  | * C3-202508 |
| * C3-202195 | * Removal of MAC address | * Ericsson | * agreed |  |  |
| * C3-202196 | * Removal of MAC address | * Ericsson | * agreed |  |  |
| * C3-202197 | * Removal of MAC address | * Ericsson | * agreed |  |  |
| * C3-202198 | * Removal of MAC address | * Ericsson | * agreed |  |  |
| * C3-202199 | * Adding "RG\_TMBR\_CH" to triggers in the PolicyUpdate | * Ericsson | * revised |  | * C3-202353 |
| * C3-202200 | * Solving ENs related to a global line identity | * Ericsson | * agreed |  |  |
| * C3-202201 | * Solving EN related to a global line identity | * Ericsson | * merged |  |  |
| * C3-202202 | * Solving ENs related to NetLoc support for wireline access | * Ericsson | * agreed |  |  |
| * C3-202203 | * Correcting errors in clause 5.6 | * Ericsson | * agreed |  |  |
| * C3-202204 | * Non-unique operation identifiers | * Ericsson | * agreed |  |  |
| * C3-202205 | * Adding QosMonitoringInformationRm in table 5.6.1-1 | * Ericsson | * agreed |  |  |
| * C3-202206 | * Miscellaneous corrections | * Ericsson | * agreed |  |  |
| * C3-202207 | * Support of FLUS feature | * Ericsson | * agreed |  |  |
| * C3-202208 | * Names of "maxPacketLossRateDl" and "maxPacketLossRateUl" attributes | * Ericsson | * agreed |  |  |
| * C3-202209 | * Removal of unbreakable space and TAB | * Ericsson | * agreed |  |  |
| * C3-202210 | * Removal of unbreakable spaces | * Ericsson | * agreed |  |  |
| * C3-202211 | * Removal of not valid BDT policy from UDR | * Ericsson | * postponed |  |  |
| * C3-202212 | * Removal of not valid BDT policy from UDR | * Ericsson | * postponed |  |  |
| * C3-202213 | * Adding support of NID | * Ericsson | * agreed |  |  |
| * C3-202214 | * Adding support of NID | * Ericsson | * agreed |  |  |
| * C3-202215 | * Storage of YAML files in ETSI Forge | * Ericsson | * revised |  | * C3-202403 |
| * C3-202216 | * Work plan for CT3 aspects of eCAPIF | * Samsung Electronics France SA | * noted |  |  |
| * C3-202217 | * API Provider management API attribute name optimization | * Samsung Electronics France SA | * revised |  | * C3-202398 |
| * C3-202218 | * Work plan for CT3 aspects of SEAL | * Samsung Electronics France SA | * noted |  |  |
| * C3-202219 | * Security aspects of SEAL APIs status | * Samsung Electronics France SA | * noted |  |  |
| * C3-202220 | * Nnwdaf\_EventsSubscription API, Slice load level support NSI ID | * Ericsson | * revised |  | * C3-202525 |
| * C3-202221 | * Nnwdaf\_AnalyticsInfo API, Slice load level support NSI ID | * Ericsson | * postponed |  |  |
| * C3-202222 | * Nnwdaf\_EventsSubscription API, support maximum number of objects | * Ericsson | * postponed |  |  |
| * C3-202223 | * Nnwdaf\_AnalyticsInfo API, support maximum number of objects | * Ericsson | * postponed |  |  |
| * C3-202224 | * Nnwdaf\_EventsSubscription API, Updates to Abnormal Behaviour | * Ericsson | * postponed |  |  |
| * C3-202225 | * Nnwdaf\_AnalyticsInfo API, Updates to Abnormal Behaviour | * Ericsson | * postponed |  |  |
| * C3-202226 | * Nnwdaf\_EventsSubscription API, Updates to Service Experience | * Ericsson | * postponed |  | * C3-202509 |
| * C3-202227 | * Nnwdaf\_AnalyticsInfo API, Updates to Service Experience | * Ericsson | * postponed |  | * C3-202510 |
| * C3-202228 | * Correction to Service Description | * Ericsson | * revised |  | * C3-202387 |
| * C3-202229 | * Correction to description of consumer functionalities | * Ericsson | * revised |  | * C3-202378 |
| * C3-202230 | * Correction to variance of Start time in UE Communication | * Ericsson | * revised |  | * C3-202388 |
| * C3-202231 | * Correction to event description | * Ericsson | * revised |  | * C3-202389 |
| * C3-202232 | * Correction to target UE description | * Ericsson | * revised |  | * C3-202390 |
| * C3-202233 | * Correction to service operation description | * Ericsson | * revised |  | * C3-202391 |
| * C3-202234 | * Correction to the DDD status event | * Ericsson | * revised |  | * C3-202393 |
| * C3-202235 | * Correction to the DDD status event | * Ericsson | * revised |  | * C3-202394 |
| * C3-202236 | * Clarify nullable attributes used in PATCH | * Ericsson | * revised |  | * C3-202402 |
| * C3-202237 | * Pseudo-CR on Generic group query | * Samsung Electronics France SA | * revised |  | * C3-202341 |
| * C3-202238 | * Pseudo-CR on Group create event | * Samsung Electronics France SA | * revised |  | * C3-202342 |
| * C3-202239 | * Pseudo-CR on Group Management API name update | * Samsung Electronics France SA | * merged |  |  |
| * C3-202240 | * Pseudo-CR on Location based group creation | * Samsung Electronics France SA | * revised |  | * C3-202343 |
| * C3-202241 | * Pseudo-CR on SEAL services update | * Samsung Electronics France SA | * agreed |  |  |
| * C3-202242 | * Pseudo-CR on UserProfileRetrieval API name update | * Samsung Electronics France SA | * merged |  |  |
| * C3-202243 | * Solving Editor’s note on UL CL | * Ericsson | * revised |  | * C3-202498 |
| * C3-202244 | * Corrections on Annex B | * Ericsson | * revised |  | * C3-202354 |
| * C3-202245 | * Untrusted FN-RG PEI | * Ericsson | * revised |  | * C3-202488 |
| * C3-202246 | * Hybrid Access Support | * Ericsson | * revised |  | * C3-202355 |
| * C3-202247 | * Untrusted PEI | * Ericsson | * revised |  | * C3-202489 |
| * C3-202248 | * RAT type for WWC | * Ericsson | * revised |  | * C3-202528 |
| * C3-202249 | * Correction to Access Network Information for Trusted non-3GPP access | * Ericsson | * agreed |  |  |
| * C3-202250 | * Solving Editor’s notes on report of location for Trusted non-3GPP access | * Ericsson | * agreed |  |  |
| * C3-202251 | * Untrusted FN-RG PEI | * Ericsson | * revised |  | * C3-202490 |
| * C3-202252 | * Access Type Report for a MA PDU session | * Ericsson | * revised |  | * C3-202511 |
| * C3-202253 | * LS on new AVPs in TS 29.214 | * Ericsson | * postponed |  |  |
| * C3-202254 | * Access Type Report for a MA PDU session | * Ericsson | * revised |  | * C3-202513 |
| * C3-202255 | * Access Type Report for a MA PDU session | * Ericsson | * revised |  | * C3-202514 |
| * C3-202256 | * PS Data Off for a MA PDU session | * Ericsson | * revised |  | * C3-202377 |
| * C3-202257 | * Correction to NetLoc feature | * Ericsson | * revised |  | * C3-202492 |
| * C3-202258 | * Correction to Reallocation of Credit | * Ericsson | * revised |  | * C3-202436 |
| * C3-202259 | * Local traffic routing policy | * Ericsson, China Mobile | * revised |  | * C3-202499 |
| * C3-202260 | * Referencing alternative QoS in clause 4.2.6.2.1 | * Ericsson | * revised |  | * C3-202348 |
| * C3-202261 | * QoS information for Time Sensitive Networking | * Ericsson | * revised |  | * C3-202366 |
| * C3-202262 | * Update of TSN related PCRTs | * Ericsson | * revised |  | * C3-202369 |
| * C3-202263 | * Binding of PCC rules to a QoS flow considering TSCAI information | * Ericsson | * revised |  | * C3-202370 |
| * C3-202264 | * Correction to TSCAI UL and DL description | * Ericsson | * revised |  | * C3-202371 |
| * C3-202265 | * Update of TSN related events | * Ericsson | * revised |  | * C3-202372 |
| * C3-202266 | * Completion of traffic correlation | * Ericsson | * revised |  | * C3-202373 |
| * C3-202267 | * Storage of YAML files in ETSI Forge | * Ericsson | * revised |  | * C3-202404 |
| * C3-202268 | * Storage of YAML files in ETSI Forge | * Ericsson | * revised |  | * C3-202405 |
| * C3-202269 | * Correction to NetLoc feature | * Ericsson | * revised |  | * C3-202461 |
| * C3-202270 | * Correction to NetLoc feature | * Ericsson | * revised |  | * C3-202460 |
| * C3-202271 | * Correction to notifications of Operator Specific Data changes | * Ericsson | * revised |  | * C3-202521 |
| * C3-202272 | * Correction to notifications of Operator Specific Data changes | * Ericsson | * revised |  | * C3-202520 |
| * C3-202273 | * Correction to PS Data Off | * Ericsson | * revised |  | * C3-202466 |
| * C3-202274 | * Correction to PS Data Off | * Ericsson | * revised |  | * C3-202467 |
| * C3-202275 | * Pseudo-CR on optional event | * Ericsson, Samsung | * agreed |  |  |
| * C3-202276 | * Correct access challenge | * Ericsson | * revised |  | * C3-202479 |
| * C3-202277 | * Correct access challenge | * Ericsson | * revised |  | * C3-202480 |
| * C3-202278 | * Correct content type in PATCHing traffic influence application data | * Ericsson | * agreed |  |  |
| * C3-202279 | * Correct content type in PATCHing traffic influence application data | * Ericsson | * agreed |  |  |
| * C3-202280 | * Correct presence condition in event subscription | * Ericsson | * revised |  | * C3-202476 |
| * C3-202281 | * Correct presence condition in event subscription | * Ericsson | * revised |  | * C3-202477 |
| * C3-202282 | * Correct GMDviaMBMSbyxMB openAPI error | * Ericsson | * agreed |  |  |
| * C3-202283 | * Correct GMDviaMBMSbyxMB openAPI error | * Ericsson | * agreed |  |  |
| * C3-202284 | * Correct DataFilter presence condition | * Ericsson | * agreed |  |  |
| * C3-202285 | * Correct resourceId in required field | * Ericsson | * agreed |  |  |
| * C3-202286 | * Correct RAT type | * Ericsson | * agreed |  |  |
| * C3-202287 | * Correct supported feature in AnalyticsData | * Ericsson | * revised |  | * C3-202478 |
| * C3-202288 | * Correct use of application error | * Ericsson | * revised |  | * C3-202468 |
| * C3-202289 | * Correct use of application error | * Ericsson | * revised |  | * C3-202469 |
| * C3-202290 | * Correct IPv6 prefix | * Ericsson | * revised |  | * C3-202356 |
| * C3-202291 | * Remove feature for IPTV data configuration | * Ericsson | * agreed |  |  |
| * C3-202292 | * Correct API publish procedure | * Ericsson | * agreed |  |  |
| * C3-202293 | * Correct API publish procedure | * Ericsson | * agreed |  |  |
| * C3-202294 | * Correct ServiceAPIDescription | * Ericsson | * revised |  | * C3-202450 |
| * C3-202295 | * Correct ServiceAPIDescription | * Ericsson | * revised |  | * C3-202451 |
| * C3-202296 | * Correct service API discovery in interconnection | * Ericsson | * revised |  | * C3-202491 |
| * C3-202297 | * Correct shareable information | * Ericsson | * revised |  | * C3-202399 |
| * C3-202298 | * Support local traffic routing in session subscription | * Ericsson, China Mobile | * revised |  | * C3-202500 |
| * C3-202299 | * Correct supported feature in AnalyticsData | * Ericsson | * revised |  | * C3-202392 |
| * C3-202300 | * Clarify service experience data | * Ericsson | * agreed |  |  |
| * C3-202301 | * Correct threshold | * Ericsson | * agreed |  |  |
| * C3-202302 | * Resource type in QoS requirement | * Ericsson | * revised |  | * C3-202383 |
| * C3-202303 | * Correct the supported features in the published API | * Ericsson | * revised |  | * C3-202497 |
| * C3-202304 | * Correct NIDD API | * Ericsson | * agreed |  |  |
| * C3-202305 | * Correct NIDD API | * Ericsson | * agreed |  |  |
| * C3-202306 | * Support secondary RAT data usage report | * Ericsson | * agreed |  |  |
| * C3-202307 | * Support secondary RAT data usage report | * Ericsson | * agreed |  |  |
| * C3-202308 | * Add NR-U RAT type | * Ericsson | * not pursued |  |  |
| * C3-202309 | * Add NR-U RAT type | * Ericsson | * not pursued |  |  |
| * C3-202310 | * Remove redundant annex content | * Ericsson | * revised |  | * C3-202428 |
| * C3-202311 | * Correct data type used in QoS monitoring | * Ericsson | * agreed |  |  |
| * C3-202312 | * Correct data type used in QoS monitoring | * Ericsson | * revised |  | * C3-202439 |
| * C3-202313 | * Storage of YAML files in ETSI Forge | * Ericsson | * revised |  | * C3-202406 |
| * C3-202314 | * Correct qci for Mission critical extension | * Ericsson | * agreed |  |  |
| * C3-202315 | * LS on Group Message Delivery | * Ericsson | * postponed |  |  |
| * C3-202316 | * Storage of YAML files in ETSI Forge | * Ericsson | * revised |  | * C3-202407 |
| * C3-202317 | * Storage of YAML files in ETSI Forge | * Ericsson | * revised |  | * C3-202408 |
| * C3-202318 | * Storage of YAML files in ETSI Forge | * Ericsson | * revised |  | * C3-202409 |
| * C3-202319 | * Storage of YAML files in ETSI Forge | * Ericsson | * revised |  | * C3-202410 |
| * C3-202320 | * Storage of YAML files in ETSI Forge | * Ericsson | * revised |  | * C3-202411 |
| * C3-202321 | * Storage of YAML files in ETSI Forge | * Ericsson | * revised |  | * C3-202412 |
| * C3-202322 | * Storage of YAML files in ETSI Forge | * Ericsson | * revised |  | * C3-202413 |
| * C3-202323 | * Storage of YAML files in ETSI Forge | * Ericsson | * revised |  | * C3-202414 |
| * C3-202324 | * Storage of YAML files in ETSI Forge | * Ericsson | * revised |  | * C3-202415 |
| * C3-202325 | * Storage of YAML files in ETSI Forge | * Ericsson | * revised |  | * C3-202416 |
| * C3-202326 | * Storage of YAML files in ETSI Forge | * Ericsson | * revised |  | * C3-202417 |
| * C3-202327 | * Storage of YAML files in ETSI Forge | * Ericsson | * revised |  | * C3-202418 |
| * C3-202328 | * Align the HTTP response code | * China Mobile Communications Group Co.,Ltd. | * merged |  |  |
| * C3-202329 | * Align the HTTP response code | * China Mobile Communications Group Co.,Ltd. | * merged |  |  |
| * C3-202330 | * Clarification on FlowDescription | * China Mobile Communications Group Co.,Ltd. | * revised |  | * C3-202474 |
| * C3-202331 | * Clarification on FlowDescription | * China Mobile Communications Group Co.,Ltd. | * revised |  | * C3-202475 |
| * C3-202332 | * Access Type Report for WWC | * Ericsson | * revised |  | * C3-202357 |
| * C3-202333 | * LS on location reporting triggers | * Huawei | * revised | * - | * C3-202441 |
| * C3-202334 | * Service Description and operations for SS\_LocationReporting API | * Huawei | * agreed | * C3-202140 | * - |
| * C3-202335 | * API definition for SS\_LocationReporting API | * Huawei | * agreed | * C3-202141 | * - |
| * C3-202336 | * Service Description and operations for SS\_LocationInfoRetrieval API | * Huawei | * agreed | * C3-202142 | * - |
| * C3-202337 | * SEAL API Names | * Huawei, Samsung | * agreed | * C3-202165 | * - |
| * C3-202338 | * Support of SS\_LocationInfoEvent API | * Huawei | * agreed | * C3-202144 | * - |
| * C3-202339 | * Security Schemes in OpenAPI files | * Huawei | * agreed | * C3-202164 | * - |
| * C3-202340 | * Update to Network\_Resource\_Adaptation API | * Huawei | * agreed | * C3-202182 | * - |
| * C3-202341 | * Pseudo-CR on Generic group query | * Samsung Electronics France SA | * agreed | * C3-202237 | * - |
| * C3-202342 | * Pseudo-CR on Group create event | * Samsung Electronics France SA | * agreed | * C3-202238 | * - |
| * C3-202343 | * Pseudo-CR on Location based group creation | * Samsung Electronics France SA | * agreed | * C3-202240 | * - |
| * C3-202344 | * Wrong datatypes Datatime and Plmn | * ZTE, Huawei | * agreed | * C3-202046 | * - |
| * C3-202345 | * Definition of ServiceParameterData in openAPI | * ZTE | * agreed | * C3-202048 | * - |
| * C3-202346 | * Update of ServiceParameterDataPatch | * Huawei | * agreed | * C3-202106 | * - |
| * C3-202347 | * LS on subscription to V2X services | * Huawei | * approved | * C3-202103 | * - |
| * C3-202348 | * Referencing alternative QoS in clause 4.2.6.2.1 | * Ericsson | * agreed | * C3-202260 | * - |
| * C3-202349 | * Support of full Frame Routing feature | * Huawei | * agreed | * C3-202097 | * - |
| * C3-202350 | * LS on Clarification of Support of Frame Routing Feature | * Huawei | * approved | * - | * - |
| * C3-202351 | * The data type of GlobalLineId | * Huawei, Ericsson | * agreed | * C3-202098 | * - |
| * C3-202352 | * Support of full Frame Routing feature | * Huawei | * agreed | * C3-202099 | * - |
| * C3-202353 | * Adding "RG\_TMBR\_CH" to triggers in the PolicyUpdate | * Ericsson | * revised | * C3-202199 | * C3-202443 |
| * C3-202354 | * Corrections on Annex B | * Ericsson | * agreed | * C3-202244 | * - |
| * C3-202355 | * Hybrid Access Support | * Ericsson | * agreed | * C3-202246 | * - |
| * C3-202356 | * Correct IPv6 prefix | * Ericsson, ZTE | * agreed | * C3-202290 | * - |
| * C3-202357 | * Access Type Report for WWC | * Ericsson | * agreed | * C3-202332 | * - |
| * C3-202358 | * Adding the MuD service for the option Item table over the roaming II-NNI. | * NTT corporation | * agreed | * C3-202177 | * - |
| * C3-202359 | * Correction to IPTV Configuration | * Huawei | * agreed | * C3-202152 | * - |
| * C3-202360 | * LS/o on ongoing work within ITU-T Study Group 3 (SG3) on new Technical Report on “IMT2020-Related Policy Considering MVNOs” | * ITU-T WP 2/3 | * noted | * - | * - |
| * C3-202361 | * Correction to Port Management Information Container exchange | * Huawei | * agreed | * C3-202086 | * - |
| * C3-202362 | * Correction to Provisioning of TSCAI input information and TSC QoS related data | * Huawei | * agreed | * C3-202087 | * - |
| * C3-202363 | * PCC rule information update for vertical | * Huawei | * agreed | * C3-202088 | * - |
| * C3-202364 | * PCF functionality update for TSN | * Huawei | * agreed | * C3-202089 | * - |
| * C3-202365 | * Correction to Session binding for TSN | * Huawei | * agreed | * C3-202090 | * - |
| * C3-202366 | * QoS information for Time Sensitive Networking | * Ericsson | * agreed | * C3-202261 | * - |
| * C3-202367 | * Correction to bridge information report and port management information container provisioning | * Huawei | * agreed | * C3-202092 | * - |
| * C3-202368 | * Correction to TSCAI provisioning | * Huawei, Ericsson | * agreed | * C3-202093 | * - |
| * C3-202369 | * Update of TSN related PCRTs | * Ericsson, Huawei | * agreed | * C3-202262 | * - |
| * C3-202370 | * Binding of PCC rules to a QoS flow considering TSCAI information | * Ericsson, Huawei | * agreed | * C3-202263 | * - |
| * C3-202371 | * Correction to TSCAI UL and DL description | * Ericsson | * agreed | * C3-202264 | * - |
| * C3-202372 | * Update of TSN related events | * Ericsson, Huawei | * agreed | * C3-202265 | * - |
| * C3-202373 | * Completion of traffic correlation | * Ericsson | * agreed | * C3-202266 | * - |
| * C3-202374 | * QoS support for ATSSS | * Huawei | * agreed | * C3-202082 | * - |
| * C3-202375 | * Enable removing the policy decision | * Huawei | * agreed | * C3-202083 | * - |
| * C3-202376 | * QoS Flow Binding about ATSSS | * Huawei | * agreed | * C3-202084 | * - |
| * C3-202377 | * PS Data Off for a MA PDU session | * Ericsson | * agreed | * C3-202256 | * - |
| * C3-202378 | * Correction to description of consumer functionalities | * Ericsson, China Telecom, Huawei | * agreed | * C3-202229 | * - |
| * C3-202379 | * Condition description for threshold related attributes | * ZTE | * agreed | * C3-202052 | * - |
| * C3-202380 | * Some corrections to Nnwdaf\_AnalyticsInfo Service | * ZTE | * agreed | * C3-202053 | * - |
| * C3-202381 | * Analyticis result per DNN | * Huawei | * agreed | * C3-202118 | * - |
| * C3-202382 | * Correction on FlowDescription | * Huawei | * agreed | * C3-202120 | * - |
| * C3-202383 | * Resource type in QoS requirement | * Ericsson, Huawei | * agreed | * C3-202302 | * - |
| * C3-202384 | * Support of Abnormal behaviour | * Huawei | * agreed | * C3-202122 | * - |
| * C3-202385 | * Data type used for NWDAF services | * Huawei | * agreed | * C3-202124 | * - |
| * C3-202386 | * Adding UDM as consumer of services provided by NWDAF | * China Telecom, Huawei | * agreed | * C3-202158 | * - |
| * C3-202387 | * Correction to Service Description | * Ericsson | * agreed | * C3-202228 | * - |
| * C3-202388 | * Correction to variance of Start time in UE Communication | * Ericsson | * agreed | * C3-202230 | * - |
| * C3-202389 | * Correction to event description | * Ericsson | * agreed | * C3-202231 | * - |
| * C3-202390 | * Correction to target UE description | * Ericsson | * agreed | * C3-202232 | * - |
| * C3-202391 | * Correction to service operation description | * Ericsson | * agreed | * C3-202233 | * - |
| * C3-202392 | * Correct supported feature in AnalyticsData | * Ericsson | * agreed | * C3-202299 | * - |
| * C3-202393 | * Correction to the DDD status event | * Ericsson | * agreed | * C3-202234 | * - |
| * C3-202394 | * Correction to the DDD status event | * Ericsson | * agreed | * C3-202235 | * - |
| * C3-202395 | * Service description and operations for CAPIF\_API\_Routing\_Policy\_API | * Huawei | * agreed | * C3-202179 | * - |
| * C3-202396 | * API definition for CAPIF\_API\_Routing\_Policy\_API | * Huawei | * agreed | * C3-202180 | * - |
| * C3-202397 | * API Topology hiding | * Huawei | * agreed | * C3-202181 | * - |
| * C3-202398 | * API Provider management API attribute name optimization | * Samsung Electronics France SA | * agreed | * C3-202217 | * - |
| * C3-202399 | * Correct shareable information | * Ericsson | * agreed | * C3-202297 | * - |
| * C3-202400 | * Correction to 5GLANParameterProvision API | * Huawei | * agreed | * C3-202150 | * - |
| * C3-202401 | * Open issue for 5GLanParametersProvisionPatch | * Huawei | * agreed | * C3-202166 | * - |
| * C3-202402 | * Clarify nullable attributes used in PATCH | * Ericsson | * agreed | * C3-202236 | * - |
| * C3-202403 | * Storage of YAML files in ETSI Forge | * Ericsson | * agreed | * C3-202215 | * - |
| * C3-202404 | * Storage of YAML files in ETSI Forge | * Ericsson | * agreed | * C3-202267 | * - |
| * C3-202405 | * Storage of YAML files in ETSI Forge | * Ericsson | * agreed | * C3-202268 | * - |
| * C3-202406 | * Storage of YAML files in ETSI Forge | * Ericsson | * agreed | * C3-202313 | * - |
| * C3-202407 | * Storage of YAML files in ETSI Forge | * Ericsson | * agreed | * C3-202316 | * - |
| * C3-202408 | * Storage of YAML files in ETSI Forge | * Ericsson | * agreed | * C3-202317 | * - |
| * C3-202409 | * Storage of YAML files in ETSI Forge | * Ericsson | * agreed | * C3-202318 | * - |
| * C3-202410 | * Storage of YAML files in ETSI Forge | * Ericsson | * agreed | * C3-202319 | * - |
| * C3-202411 | * Storage of YAML files in ETSI Forge | * Ericsson | * agreed | * C3-202320 | * - |
| * C3-202412 | * Storage of YAML files in ETSI Forge | * Ericsson | * agreed | * C3-202321 | * - |
| * C3-202413 | * Storage of YAML files in ETSI Forge | * Ericsson | * agreed | * C3-202322 | * - |
| * C3-202414 | * Storage of YAML files in ETSI Forge | * Ericsson | * agreed | * C3-202323 | * - |
| * C3-202415 | * Storage of YAML files in ETSI Forge | * Ericsson | * agreed | * C3-202324 | * - |
| * C3-202416 | * Storage of YAML files in ETSI Forge | * Ericsson | * agreed | * C3-202325 | * - |
| * C3-202417 | * Storage of YAML files in ETSI Forge | * Ericsson | * agreed | * C3-202326 | * - |
| * C3-202418 | * Storage of YAML files in ETSI Forge | * Ericsson | * agreed | * C3-202327 | * - |
| * C3-202419 | * Correction to BDT Policy | * Huawei, ZTE | * agreed | * C3-202154 | * - |
| * C3-202420 | * LS on Network Area Information in BDT Policy | * Huawei | * approved | * - | * - |
| * C3-202421 | * Correction to ApplyingBdtPolicy API | * Huawei | * agreed | * C3-202155 | * - |
| * C3-202422 | * Addition of IMEI/TAC values for RACS operations | * Qualcomm Incorporated, Ericsson | * agreed | * C3-202022 | * - |
| * C3-202423 | * Editoral corrections of 29.486 | * Huawei | * agreed | * C3-202115 | * - |
| * C3-202424 | * Any UE clarification | * Huawei | * agreed | * C3-202139 | * - |
| * C3-202425 | * Data Types for Application Data | * ZTE | * agreed | * C3-202049 | * - |
| * C3-202426 | * Missing bullet in introduction | * Qualcomm Incorporated | * agreed | * C3-202026 | * - |
| * C3-202427 | * Missing mapping in the overview | * Qualcomm Incorporated | * agreed | * C3-202027 | * - |
| * C3-202428 | * Remove redundant annex content | * Ericsson | * agreed | * C3-202310 | * - |
| * C3-202429 | * Corrections on SamePcf | * ZTE | * agreed | * C3-202045 | * - |
| * C3-202430 | * Cause Mapping of VALIDATION\_CONDITION\_NOT\_MET | * Huawei | * agreed | * C3-202069 | * - |
| * C3-202431 | * Correction on QoS Flow Binding for QoS Flow Behaviour | * Huawei | * agreed | * C3-202071 | * - |
| * C3-202432 | * Correction to binding information procedures | * Huawei | * agreed | * C3-202073 | * - |
| * C3-202433 | * Same PCF selection support | * Huawei | * agreed | * C3-202074 | * - |
| * C3-202434 | * Correction to the DNN replacement | * Huawei | * agreed | * C3-202075 | * - |
| * C3-202435 | * Enable removing the policy decision | * Huawei | * agreed | * C3-202076 | * - |
| * C3-202436 | * Correction to Reallocation of Credit | * Ericsson | * agreed | * C3-202258 | * - |
| * C3-202437 | * Procedure of policy provisioning of QoS monitoring control | * Huawei | * agreed | * C3-202107 | * - |
| * C3-202438 | * QoS Monitoring Control Data correction | * Huawei | * agreed | * C3-202108 | * - |
| * C3-202439 | * Correct data type used in QoS monitoring | * Ericsson, Huawei | * agreed | * C3-202312 | * - |
| * C3-202440 | * Corrections related to Ueaddr | * ZTE | * agreed | * C3-202050 | * - |
| * C3-202441 | * LS on location reporting triggers | * Huawei | * approved | * C3-202333 | * - |
| * C3-202442 | * Reply to: LS on updates to CHEM feature and use of Application Layer Redundancy | * Qualcomm | * revised | * - | * C3-202505 |
| * C3-202443 | * Adding "RG\_TMBR\_CH" to triggers in the PolicyUpdate | * Ericsson | * agreed | * C3-202353 | * - |
| * C3-202444 | * TS 29.549 V1.2.0 | * Samsung | * reserved | * - | * - |
| * C3-202445 | * Periodic reporting by Nnef | * Huawei | * agreed | * C3-202184 | * - |
| * C3-202446 | * Loss of connectivity reason | * Huawei | * agreed | * C3-202134 | * - |
| * C3-202447 | * Periodic reporting by Nnef | * Huawei | * agreed | * C3-202132 | * - |
| * C3-202448 | * Event of Usage Threshold | * Huawei | * agreed | * C3-202129 | * - |
| * C3-202449 | * Event of Usage Threshold | * Huawei | * agreed | * C3-202130 | * - |
| * C3-202450 | * Correct ServiceAPIDescription | * Ericsson | * agreed | * C3-202294 | * - |
| * C3-202451 | * Correct ServiceAPIDescription | * Ericsson | * agreed | * C3-202295 | * - |
| * C3-202452 | * Corrections on Service Area Restriction | * ZTE | * agreed | * C3-202039 | * - |
| * C3-202453 | * Corrections on Service Area Restriction | * ZTE | * agreed | * C3-202040 | * - |
| * C3-202454 | * Location header of 307 status code | * Huawei | * agreed | * C3-202055 | * - |
| * C3-202455 | * Location header of 307 status code | * Huawei | * agreed | * C3-202056 | * - |
| * C3-202456 | * Notification URI | * Huawei | * agreed | * C3-202063 | * - |
| * C3-202457 | * Notification URI | * Huawei | * agreed | * C3-202064 | * - |
| * C3-202458 | * Correction to attributes interGrpIds and appDetectionInfos | * ZTE, Ericsson | * agreed | * C3-202037 | * - |
| * C3-202459 | * Correction to attributes interGrpIds and appDetectionInfos | * ZTE, Ericsson | * agreed | * C3-202038 | * - |
| * C3-202460 | * Correction to NetLoc feature | * Ericsson, Huawei | * agreed | * C3-202270 | * - |
| * C3-202461 | * Correction to NetLoc feature | * Ericsson, Huawei | * agreed | * C3-202269 | * - |
| * C3-202462 | * Notification URI | * Huawei | * agreed | * C3-202067 | * - |
| * C3-202463 | * Notification URI | * Huawei | * agreed | * C3-202068 | * - |
| * C3-202464 | * timeUsage in Accumulated Usage Report | * ZTE | * agreed | * C3-202147 | * - |
| * C3-202465 | * timeUsage in Accumulated Usage Report | * ZTE | * agreed | * C3-202148 | * - |
| * C3-202466 | * Correction to PS Data Off | * Ericsson | * agreed | * C3-202273 | * - |
| * C3-202467 | * Correction to PS Data Off | * Ericsson | * agreed | * C3-202274 | * - |
| * C3-202468 | * Correct use of application error | * Ericsson, China Mobile Communications Group Co.,Ltd. | * agreed | * C3-202288 | * - |
| * C3-202469 | * Correct use of application error | * Ericsson, China Mobile Communications Group Co.,Ltd. | * agreed | * C3-202289 | * - |
| * C3-202470 | * Location header of 307 status code | * Huawei | * agreed | * C3-202057 | * - |
| * C3-202471 | * Location header of 307 status code | * Huawei | * agreed | * C3-202058 | * - |
| * C3-202472 | * Notification URI | * Huawei | * agreed | * C3-202065 | * - |
| * C3-202473 | * Notification URI | * Huawei | * agreed | * C3-202066 | * - |
| * C3-202474 | * Clarification on FlowDescription | * China Mobile Communications Group Co.,Ltd. | * agreed | * C3-202330 | * - |
| * C3-202475 | * Clarification on FlowDescription | * China Mobile Communications Group Co.,Ltd. | * revised | * C3-202331 | * C3-202524 |
| * C3-202476 | * Correct presence condition in event subscription | * Ericsson | * agreed | * C3-202280 | * - |
| * C3-202477 | * Correct presence condition in event subscription | * Ericsson | * agreed | * C3-202281 | * - |
| * C3-202478 | * Correct supported feature in AnalyticsData | * Ericsson | * agreed | * C3-202287 | * - |
| * C3-202479 | * Correct access challenge | * Ericsson | * agreed | * C3-202276 | * - |
| * C3-202480 | * Correct access challenge | * Ericsson | * agreed | * C3-202277 | * - |
| * C3-202481 | * API definition for SS\_LocationInfoRetrieval API | * Huawei | * agreed | * C3-202143 | * - |
| * C3-202482 | * Some corrections to ServiceParameter API | * Huawei | * agreed | * C3-202104 | * - |
| * C3-202483 | * Update of ParameterOverUu data type | * Huawei | * agreed | * C3-202105 | * - |
| * C3-202484 | * Procedure of ACS Information Configuration | * Huawei | * agreed | * C3-202100 | * - |
| * C3-202485 | * Resources and data types of Nnef\_ACSParameterProvision service | * Huawei | * agreed | * C3-202101 | * - |
| * C3-202486 | * OpenAPI file of Nnef\_ACSParameterProvision service | * Huawei | * agreed | * C3-202102 | * - |
| * C3-202487 | * Correction to IPTVConfiguration API | * Huawei | * agreed | * C3-202153 | * - |
| * C3-202488 | * Untrusted FN-RG PEI | * Ericsson | * agreed | * C3-202245 | * - |
| * C3-202489 | * Untrusted PEI | * Ericsson | * agreed | * C3-202247 | * - |
| * C3-202490 | * Untrusted FN-RG PEI | * Ericsson | * agreed | * C3-202251 | * - |
| * C3-202491 | * Correct service API discovery in interconnection | * Ericsson, Huawei | * agreed | * C3-202296 | * - |
| * C3-202492 | * Correction to NetLoc feature | * Ericsson | * agreed | * C3-202257 | * - |
| * C3-202493 | * Correct open ProSe direct discovery | * CATT | * agreed | * C3-202018 | * - |
| * C3-202494 | * Corrections to UE radio capability configuration data | * Qualcomm Incorporated, Nokia, Samsung, Vodafone, Ericsson | * agreed | * C3-202023 | * - |
| * C3-202495 | * Addition of IMEI-TAC values for RACS operations | * Qualcomm Incorporated, Ericsson | * revised | * C3-202168 | * C3-202523 |
| * C3-202496 | * Update to UE radio capability information data type | * Qualcomm Incorporated, Nokia, Samsung, Vodafone, Ericsson | * agreed | * C3-202169 | * - |
| * C3-202497 | * Correct the supported features in the published API | * Ericsson | * agreed | * C3-202303 | * - |
| * C3-202498 | * Solving Editor’s note on UL CL | * Ericsson, Huawei | * agreed | * C3-202243 | * - |
| * C3-202499 | * Local traffic routing policy | * Ericsson, China Mobile | * agreed | * C3-202259 | * - |
| * C3-202500 | * Support local traffic routing in session subscription | * Ericsson, China Mobile | * agreed | * C3-202298 | * - |
| * C3-202501 | * Binding information retrieval: PCF set ID and PCF instance ID | * Ericsson | * agreed | * C3-202191 | * - |
| * C3-202502 | * Level of Binding | * Huawei | * agreed | * C3-202079 | * - |
| * C3-202503 | * Update of PCF discovery by the AF for eSBA | * Huawei | * agreed | * C3-202080 | * - |
| * C3-202504 | * Binding information: PCF set ID and PCF instance ID | * Ericsson | * agreed | * C3-202192 | * - |
| * C3-202505 | * Reply LS on updates to CHEM feature and use of Application Layer Redundancy | * Qualcomm | * approved | * C3-202442 | * - |
| * C3-202506 | * Clarification on applicability for network slice information | * Huawei | * agreed | * C3-202117 | * - |
| * C3-202507 | * LS on Clarification on eNA | * Huawei | * approved | * - | * - |
| * C3-202508 | * Unsubscribe service operation | * Ericsson | * agreed | * C3-202194 | * - |
| * C3-202509 | * Nnwdaf\_EventsSubscription API, Updates to Service Experience | * Ericsson | * withdrawn | * C3-202226 | * - |
| * C3-202510 | * Nnwdaf\_AnalyticsInfo API, Updates to Service Experience | * Ericsson | * withdrawn | * C3-202227 | * - |
| * C3-202511 | * Access Type Report for a MA PDU session | * Ericsson | * agreed | * C3-202252 | * - |
| * C3-202512 | * LS on Access Type Report for a MA PDU session | * Ericsson | * approved | * - | * - |
| * C3-202513 | * Access Type Report for a MA PDU session | * Ericsson | * agreed | * C3-202254 | * - |
| * C3-202514 | * Access Type Report for a MA PDU session | * Ericsson | * agreed | * C3-202255 | * - |
| * C3-202515 | * LS on clarification on TSN for Vertical\_LAN | * Huawei | * approved | * - | * - |
| * C3-202516 | * Supporting the Location services in NEF in TS 29.122 | * CATT | * agreed | * C3-202172 | * - |
| * C3-202517 | * Supporting the Location Services in NEF in TS 29.522 | * CATT | * agreed | * C3-202176 | * - |
| * C3-202518 | * Correction to PUT response for Events Subscription | * ZTE, Ericsson | * agreed | * C3-202041 | * - |
| * C3-202519 | * Correction to PUT response for Events Subscription | * ZTE, Ericsson | * agreed | * C3-202042 | * - |
| * C3-202520 | * Correction to notifications of Operator Specific Data changes | * Ericsson | * agreed | * C3-202272 | * - |
| * C3-202521 | * Correction to notifications of Operator Specific Data changes | * Ericsson | * agreed | * C3-202271 | * - |
| * C3-202522 | * Maximum number of SUPIs | * Huawei | * postponed | * C3-202119 | * - |
| * C3-202523 | * Addition of IMEI-TAC values for RACS operations | * Qualcomm Incorporated, Ericsson | * agreed | * C3-202495 | * - |
| * C3-202524 | * Clarification on FlowDescription | * China Mobile Communications Group Co.,Ltd. | * agreed | * C3-202475 | * - |
| * C3-202525 | * Updates to Abbreviations | * Ericsson | * agreed | * C3-202220 | * - |
| * C3-202526 | * Clarification of target AF configuration | * Huawei | * agreed | * C3-202094 | * - |
| * C3-202527 | * FQDN of alternative AMF | * Huawei | * agreed | * C3-202077 | * - |
| * C3-202528 | * RAT type for WWC | * Ericsson | * agreed | * C3-202248 | * - |
| * C3-202529 | * Status of CT3 Work Items | * CT3 chairman | * noted | * C3-202011 | * - |

### A2: Tdoc decision timing

|  |  |  |
| --- | --- | --- |
| Document | Date/time UTC | Decision |
| * C3-195000 | * 2020-01-01 10:26:05 | * approved |
| * C3-195000 | * 2020-01-01 10:26:15 | * noted |
| * C3-195000 | * 2020-01-01 10:26:22 | * approved |
| * C3-195000 | * 2020-02-21 14:30:18 | * agreed |
| * C3-195000 | * 2020-02-21 14:30:38 | * noted |
| * C3-195000 | * 2020-02-22 08:50:03 | * agreed |
| * C3-195000 | * 2020-02-22 08:50:06 | * noted |
| * C3-195000 | * 2020-02-22 08:54:01 | * postponed |
| * C3-195000 | * 2020-02-22 08:54:09 | * noted |
| * C3-195183 | * 2020-01-01 10:32:41 | * postponed |
| * C3-195183 | * 2020-01-01 13:52:18 | * noted |
| * C3-195183 | * 2020-01-01 13:52:25 | * approved |
| * C3-195183 | * 2020-01-01 13:52:27 | * noted |
| * C3-195183 | * 2020-01-01 13:52:31 | * agreed |
| * C3-195183 | * 2020-01-01 13:52:36 | * postponed |
| * C3-202000 | * 2020-04-23 08:28:12 | * noted |
| * C3-202001 | * 2020-04-23 08:28:21 | * noted |
| * C3-202002 | * 2020-04-23 08:28:22 | * noted |
| * C3-202003 | * 2020-04-23 08:28:24 | * noted |
| * C3-202004 | * 2020-04-23 08:28:25 | * noted |
| * C3-202005 | * 2020-04-23 08:28:27 | * noted |
| * C3-202006 | * 2020-04-23 08:28:28 | * noted |
| * C3-202007 | * 2020-04-23 08:28:29 | * noted |
| * C3-202008 | * 2020-04-24 14:01:45 | * noted |
| * C3-202009 | * 2020-04-24 14:01:44 | * noted |
| * C3-202010 | * 2020-04-24 14:01:43 | * noted |
| * C3-202011 | * 2020-04-24 12:12:42 | * revised |
| * C3-202012 | * 2020-04-16 11:26:29 | * noted |
| * C3-202013 | * 2020-04-16 11:22:22 | * approved |
| * C3-202014 | * 2020-04-24 12:12:43 | * noted |
| * C3-202015 | * 2020-04-24 12:15:41 | * noted |
| * C3-202016 | * 2020-04-24 14:05:10 | * noted |
| * C3-202017 | * 2020-04-23 12:30:08 | * postponed |
| * C3-202018 | * 2020-04-23 11:07:05 | * revised |
| * C3-202019 | * 2020-04-22 11:52:53 | * agreed |
| * C3-202019 | * 2020-04-22 11:53:15 | * available |
| * C3-202019 | * 2020-04-22 11:53:27 | * agreed |
| * C3-202020 | * 2020-04-22 11:53:33 | * agreed |
| * C3-202021 | * 2020-04-16 11:32:58 | * not concluded |
| * C3-202021 | * 2020-04-23 08:56:41 | * noted |
| * C3-202021 | * 2020-04-25 13:03:54 | * postponed |
| * C3-202021 | * 2020-04-25 13:03:56 | * noted |
| * C3-202022 | * 2020-04-21 11:12:14 | * revised |
| * C3-202023 | * 2020-04-23 11:10:09 | * revised |
| * C3-202024 | * 2020-04-23 09:03:23 | * noted |
| * C3-202025 | * 2020-04-23 11:06:38 | * agreed |
| * C3-202026 | * 2020-04-21 11:41:19 | * revised |
| * C3-202027 | * 2020-04-21 11:42:02 | * revised |
| * C3-202028 | * 2020-04-16 11:29:18 | * not concluded |
| * C3-202028 | * 2020-04-24 11:07:37 | * endorsed |
| * C3-202029 | * 2020-04-16 11:45:34 | * noted |
| * C3-202030 | * 2020-04-16 11:49:44 | * not concluded |
| * C3-202030 | * 2020-04-24 11:06:40 | * postponed |
| * C3-202031 | * 2020-04-16 11:50:57 | * not concluded |
| * C3-202031 | * 2020-04-21 12:44:43 | * replied to |
| * C3-202032 | * 2020-04-16 11:52:52 | * postponed |
| * C3-202033 | * 2020-04-16 11:54:19 | * postponed |
| * C3-202034 | * 2020-04-16 11:47:58 | * not concluded |
| * C3-202034 | * 2020-04-23 11:38:14 | * noted |
| * C3-202035 | * 2020-04-20 11:40:54 | * merged |
| * C3-202036 | * 2020-04-23 11:05:52 | * agreed |
| * C3-202037 | * 2020-04-22 11:34:11 | * revised |
| * C3-202038 | * 2020-04-22 11:35:31 | * revised |
| * C3-202039 | * 2020-04-22 11:27:58 | * revised |
| * C3-202040 | * 2020-04-22 11:28:09 | * revised |
| * C3-202041 | * 2020-04-23 12:44:33 | * revised |
| * C3-202042 | * 2020-04-23 12:45:35 | * revised |
| * C3-202043 | * 2020-04-22 11:59:59 | * agreed |
| * C3-202044 | * 2020-04-22 12:00:16 | * agreed |
| * C3-202045 | * 2020-04-21 11:44:15 | * revised |
| * C3-202046 | * 2020-04-17 11:48:51 | * revised |
| * C3-202047 | * 2020-04-23 12:35:16 | * agreed |
| * C3-202048 | * 2020-04-17 11:55:58 | * revised |
| * C3-202049 | * 2020-04-21 11:40:07 | * revised |
| * C3-202050 | * 2020-04-21 12:15:21 | * revised |
| * C3-202051 | * 2020-04-23 11:41:14 | * agreed |
| * C3-202052 | * 2020-04-20 11:41:38 | * revised |
| * C3-202053 | * 2020-04-20 11:42:09 | * revised |
| * C3-202054 | * 2020-04-21 11:05:24 | * merged |
| * C3-202055 | * 2020-04-22 11:30:40 | * revised |
| * C3-202056 | * 2020-04-22 11:31:59 | * revised |
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| * C3-202058 | * 2020-04-22 11:50:19 | * revised |
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| * C3-202067 | * 2020-04-22 11:40:35 | * revised |
| * C3-202068 | * 2020-04-22 11:41:03 | * revised |
| * C3-202069 | * 2020-04-21 11:44:59 | * revised |
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| * C3-202075 | * 2020-04-21 11:49:24 | * revised |
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| * C3-202084 | * 2020-04-20 11:31:53 | * revised |
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| * C3-202086 | * 2020-04-20 11:05:57 | * revised |
| * C3-202087 | * 2020-04-20 11:06:36 | * revised |
| * C3-202088 | * 2020-04-20 11:07:16 | * revised |
| * C3-202089 | * 2020-04-20 11:07:26 | * revised |
| * C3-202090 | * 2020-04-20 11:09:05 | * revised |
| * C3-202091 | * 2020-04-20 11:12:52 | * merged |
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| * C3-202099 | * 2020-04-17 12:15:26 | * revised |
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| * C3-202102 | * 2020-04-22 12:37:43 | * revised |
| * C3-202103 | * 2020-04-17 12:07:54 | * revised |
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| * C3-202107 | * 2020-04-21 12:09:39 | * revised |
| * C3-202108 | * 2020-04-21 12:10:34 | * revised |
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| * C3-202110 | * 2020-04-21 12:10:10 | * merged |
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| * C3-202119 | * 2020-04-24 06:28:30 | * revised |
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| * C3-202126 | * 2020-04-23 11:53:55 | * agreed |
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| * C3-202128 | * 2020-04-17 11:51:03 | * merged |
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| * C3-202130 | * 2020-04-22 11:10:52 | * revised |
| * C3-202131 | * 2020-04-22 11:09:31 | * not pursued |
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| * C3-202146 | * 2020-04-16 11:57:51 | * postponed |
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| * C3-202182 | * 2020-04-17 11:39:13 | * revised |
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| * C3-202361 | * 2020-04-23 12:13:19 | * agreed |
| * C3-202362 | * 2020-04-24 11:50:57 | * agreed |
| * C3-202363 | * 2020-04-23 12:13:38 | * agreed |
| * C3-202364 | * 2020-04-23 12:13:40 | * agreed |
| * C3-202365 | * 2020-04-24 11:19:28 | * agreed |
| * C3-202366 | * 2020-04-24 11:23:03 | * agreed |
| * C3-202367 | * 2020-04-23 12:15:04 | * agreed |
| * C3-202368 | * 2020-04-24 11:19:39 | * agreed |
| * C3-202369 | * 2020-04-24 11:23:06 | * agreed |
| * C3-202370 | * 2020-04-24 11:23:10 | * agreed |
| * C3-202371 | * 2020-04-24 11:23:14 | * agreed |
| * C3-202372 | * 2020-04-24 11:23:18 | * agreed |
| * C3-202373 | * 2020-04-24 11:23:22 | * agreed |
| * C3-202374 | * 2020-04-23 12:02:12 | * agreed |
| * C3-202375 | * 2020-04-23 12:02:19 | * agreed |
| * C3-202376 | * 2020-04-23 12:02:25 | * agreed |
| * C3-202377 | * 2020-04-24 11:56:12 | * agreed |
| * C3-202378 | * 2020-04-24 14:03:44 | * agreed |
| * C3-202379 | * 2020-04-24 11:10:14 | * agreed |
| * C3-202380 | * 2020-04-24 11:10:21 | * agreed |
| * C3-202381 | * 2020-04-23 11:43:12 | * agreed |
| * C3-202382 | * 2020-04-23 11:53:28 | * agreed |
| * C3-202383 | * 2020-04-24 11:15:27 | * agreed |
| * C3-202384 | * 2020-04-23 11:53:42 | * agreed |
| * C3-202385 | * 2020-04-23 11:53:49 | * agreed |
| * C3-202386 | * 2020-04-23 11:54:10 | * agreed |
| * C3-202387 | * 2020-04-24 11:15:09 | * agreed |
| * C3-202388 | * 2020-04-24 11:15:12 | * agreed |
| * C3-202389 | * 2020-04-24 11:15:14 | * agreed |
| * C3-202390 | * 2020-04-24 11:15:19 | * agreed |
| * C3-202391 | * 2020-04-24 11:15:21 | * agreed |
| * C3-202392 | * 2020-04-24 11:15:24 | * agreed |
| * C3-202393 | * 2020-04-24 11:24:49 | * agreed |
| * C3-202394 | * 2020-04-24 11:24:51 | * agreed |
| * C3-202395 | * 2020-04-24 11:33:55 | * agreed |
| * C3-202396 | * 2020-04-24 11:34:00 | * agreed |
| * C3-202397 | * 2020-04-24 11:34:03 | * agreed |
| * C3-202398 | * 2020-04-24 11:34:12 | * agreed |
| * C3-202399 | * 2020-04-24 11:34:16 | * agreed |
| * C3-202400 | * 2020-04-23 12:20:27 | * agreed |
| * C3-202401 | * 2020-04-23 12:20:35 | * agreed |
| * C3-202402 | * 2020-04-24 11:23:02 | * agreed |
| * C3-202403 | * 2020-04-23 12:34:27 | * agreed |
| * C3-202404 | * 2020-04-23 12:34:29 | * agreed |
| * C3-202405 | * 2020-04-23 12:34:31 | * agreed |
| * C3-202406 | * 2020-04-23 12:34:32 | * agreed |
| * C3-202407 | * 2020-04-23 12:34:33 | * agreed |
| * C3-202408 | * 2020-04-23 12:34:36 | * agreed |
| * C3-202409 | * 2020-04-23 12:34:38 | * agreed |
| * C3-202410 | * 2020-04-23 12:34:42 | * agreed |
| * C3-202411 | * 2020-04-23 12:34:43 | * agreed |
| * C3-202412 | * 2020-04-23 12:34:45 | * agreed |
| * C3-202413 | * 2020-04-23 12:34:47 | * agreed |
| * C3-202414 | * 2020-04-23 12:34:50 | * agreed |
| * C3-202415 | * 2020-04-23 12:34:53 | * agreed |
| * C3-202416 | * 2020-04-23 12:34:55 | * agreed |
| * C3-202417 | * 2020-04-23 12:35:01 | * agreed |
| * C3-202418 | * 2020-04-23 12:35:03 | * agreed |
| * C3-202419 | * 2020-04-23 11:05:22 | * agreed |
| * C3-202420 | * 2020-04-24 11:31:17 | * approved |
| * C3-202421 | * 2020-04-23 11:05:36 | * agreed |
| * C3-202422 | * 2020-04-23 11:09:47 | * agreed |
| * C3-202423 | * 2020-04-23 11:18:39 | * agreed |
| * C3-202424 | * 2020-04-23 11:19:48 | * agreed |
| * C3-202425 | * 2020-04-24 11:35:01 | * agreed |
| * C3-202426 | * 2020-04-23 11:15:24 | * agreed |
| * C3-202427 | * 2020-04-23 11:15:25 | * agreed |
| * C3-202428 | * 2020-04-24 11:43:45 | * agreed |
| * C3-202429 | * 2020-04-24 11:07:46 | * agreed |
| * C3-202430 | * 2020-04-24 11:49:36 | * agreed |
| * C3-202431 | * 2020-04-23 11:24:35 | * agreed |
| * C3-202432 | * 2020-04-24 11:08:31 | * agreed |
| * C3-202433 | * 2020-04-23 11:26:38 | * agreed |
| * C3-202434 | * 2020-04-23 11:26:45 | * agreed |
| * C3-202435 | * 2020-04-24 11:08:36 | * agreed |
| * C3-202436 | * 2020-04-23 11:27:41 | * agreed |
| * C3-202437 | * 2020-04-23 11:21:34 | * agreed |
| * C3-202438 | * 2020-04-23 11:21:42 | * agreed |
| * C3-202439 | * 2020-04-24 11:30:45 | * agreed |
| * C3-202440 | * 2020-04-24 11:35:06 | * agreed |
| * C3-202441 | * 2020-04-23 12:40:40 | * approved |
| * C3-202442 | * 2020-04-23 11:38:55 | * revised |
| * C3-202443 | * 2020-04-23 12:32:31 | * agreed |
| * C3-202445 | * 2020-04-23 11:21:00 | * agreed |
| * C3-202446 | * 2020-04-23 11:21:02 | * agreed |
| * C3-202447 | * 2020-04-23 11:21:04 | * agreed |
| * C3-202448 | * 2020-04-23 12:48:26 | * agreed |
| * C3-202449 | * 2020-04-23 12:48:28 | * agreed |
| * C3-202450 | * 2020-04-24 11:46:39 | * agreed |
| * C3-202451 | * 2020-04-24 11:34:23 | * agreed |
| * C3-202452 | * 2020-04-24 11:44:02 | * agreed |
| * C3-202453 | * 2020-04-24 11:44:04 | * agreed |
| * C3-202454 | * 2020-04-23 12:43:09 | * agreed |
| * C3-202455 | * 2020-04-23 12:43:11 | * agreed |
| * C3-202456 | * 2020-04-23 12:43:13 | * agreed |
| * C3-202457 | * 2020-04-23 12:43:17 | * agreed |
| * C3-202458 | * 2020-04-24 11:44:15 | * agreed |
| * C3-202459 | * 2020-04-24 11:44:17 | * agreed |
| * C3-202460 | * 2020-04-24 12:16:31 | * agreed |
| * C3-202461 | * 2020-04-24 12:16:29 | * agreed |
| * C3-202462 | * 2020-04-23 12:43:42 | * agreed |
| * C3-202463 | * 2020-04-23 12:43:43 | * agreed |
| * C3-202464 | * 2020-04-24 11:44:23 | * agreed |
| * C3-202465 | * 2020-04-24 11:44:25 | * agreed |
| * C3-202466 | * 2020-04-23 12:44:00 | * agreed |
| * C3-202467 | * 2020-04-23 12:44:02 | * agreed |
| * C3-202468 | * 2020-04-24 11:46:20 | * agreed |
| * C3-202469 | * 2020-04-24 11:46:22 | * agreed |
| * C3-202470 | * 2020-04-23 12:47:52 | * agreed |
| * C3-202471 | * 2020-04-23 12:47:55 | * agreed |
| * C3-202472 | * 2020-04-23 12:47:58 | * agreed |
| * C3-202473 | * 2020-04-23 12:48:05 | * agreed |
| * C3-202474 | * 2020-04-23 12:50:14 | * agreed |
| * C3-202475 | * 2020-04-23 12:50:19 | * agreed |
| * C3-202475 | * 2020-04-24 10:07:46 | * revised |
| * C3-202476 | * 2020-04-24 11:44:14 | * agreed |
| * C3-202477 | * 2020-04-24 11:43:53 | * agreed |
| * C3-202478 | * 2020-04-24 11:45:17 | * agreed |
| * C3-202479 | * 2020-04-24 11:45:22 | * agreed |
| * C3-202480 | * 2020-04-24 11:45:25 | * agreed |
| * C3-202481 | * 2020-04-23 12:41:06 | * agreed |
| * C3-202482 | * 2020-04-23 12:35:40 | * agreed |
| * C3-202483 | * 2020-04-23 12:35:43 | * agreed |
| * C3-202484 | * 2020-04-23 12:31:41 | * agreed |
| * C3-202485 | * 2020-04-23 12:31:45 | * agreed |
| * C3-202486 | * 2020-04-23 12:31:48 | * agreed |
| * C3-202487 | * 2020-04-23 12:32:03 | * agreed |
| * C3-202488 | * 2020-04-24 11:26:08 | * agreed |
| * C3-202489 | * 2020-04-24 11:26:16 | * agreed |
| * C3-202490 | * 2020-04-24 11:28:54 | * agreed |
| * C3-202491 | * 2020-04-24 11:34:14 | * agreed |
| * C3-202492 | * 2020-04-24 12:17:30 | * agreed |
| * C3-202493 | * 2020-04-24 14:00:25 | * agreed |
| * C3-202494 | * 2020-04-24 11:29:44 | * agreed |
| * C3-202495 | * 2020-04-24 09:12:51 | * revised |
| * C3-202496 | * 2020-04-24 11:29:55 | * agreed |
| * C3-202497 | * 2020-04-24 11:31:06 | * agreed |
| * C3-202498 | * 2020-04-24 11:30:28 | * agreed |
| * C3-202499 | * 2020-04-24 11:09:01 | * agreed |
| * C3-202500 | * 2020-04-24 11:09:06 | * agreed |
| * C3-202501 | * 2020-04-24 11:15:50 | * agreed |
| * C3-202502 | * 2020-04-24 11:15:34 | * agreed |
| * C3-202503 | * 2020-04-24 11:15:37 | * agreed |
| * C3-202504 | * 2020-04-24 11:15:53 | * agreed |
| * C3-202505 | * 2020-04-24 11:07:00 | * approved |
| * C3-202506 | * 2020-04-24 11:10:24 | * agreed |
| * C3-202507 | * 2020-04-24 12:24:04 | * approved |
| * C3-202508 | * 2020-04-24 11:54:59 | * agreed |
| * C3-202509 | * 2020-04-24 11:14:34 | * withdrawn |
| * C3-202510 | * 2020-04-24 11:14:33 | * withdrawn |
| * C3-202511 | * 2020-04-24 11:51:27 | * agreed |
| * C3-202512 | * 2020-04-24 11:59:32 | * approved |
| * C3-202513 | * 2020-04-24 11:51:40 | * agreed |
| * C3-202514 | * 2020-04-24 11:51:43 | * agreed |
| * C3-202515 | * 2020-04-24 11:50:01 | * approved |
| * C3-202516 | * 2020-04-24 11:23:56 | * agreed |
| * C3-202517 | * 2020-04-24 11:24:10 | * agreed |
| * C3-202518 | * 2020-04-24 11:45:08 | * agreed |
| * C3-202519 | * 2020-04-24 11:45:10 | * agreed |
| * C3-202520 | * 2020-04-24 11:45:47 | * agreed |
| * C3-202521 | * 2020-04-24 11:45:38 | * agreed |
| * C3-202522 | * 2020-04-24 11:11:46 | * postponed |
| * C3-202523 | * 2020-04-24 11:29:51 | * agreed |
| * C3-202524 | * 2020-04-24 12:16:07 | * agreed |
| * C3-202525 | * 2020-04-24 11:54:43 | * agreed |
| * C3-202526 | * 2020-04-24 11:20:53 | * agreed |
| * C3-202527 | * 2020-04-24 12:22:46 | * agreed |
| * C3-202528 | * 2020-04-24 12:17:03 | * agreed |
| * C3-202529 | * 2020-04-24 14:05:25 | * noted |

## Annex B: List of change requests

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Spec | CR | Rev | Rel | Cat | WI | Decision |
| * C3-202286 | * Correct RAT type | * Ericsson | * 29.061 | * 0511 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-202306 | * Support secondary RAT data usage report | * Ericsson | * 29.061 | * 0512 | * - | * Rel-16 | * B | * TEI16, 5GS\_Ph1-CT | * agreed |
| * C3-202308 | * Add NR-U RAT type | * Ericsson | * 29.061 | * 0513 | * - | * Rel-16 | * B | * TEI16, 5GS\_Ph1-CT | * not pursued |
| * C3-202025 | * Corrected reference to xMB stage-2 spec | * Qualcomm Incorporated | * 29.116 | * 0044 | * - | * Rel-16 | * F | * TEI16 | * agreed |
| * C3-202310 | * Remove redundant annex content | * Ericsson | * 29.116 | * 0045 | * - | * Rel-16 | * D | * TEI16 | * revised |
| * C3-202428 | * Remove redundant annex content | * Ericsson | * 29.116 | * 0045 | * 1 | * Rel-16 | * D | * TEI16 | * agreed |
| * C3-202314 | * Correct qci for Mission critical extension | * Ericsson | * 29.116 | * 0046 | * - | * Rel-16 | * F | * MC\_XMB-CT | * agreed |
| * C3-202172 | * Supporting the Location services in NEF in TS 29.122 | * CATT | * 29.122 | * 0228 | * 2 | * Rel-16 | * B | * 5G\_eLCS | * revised |
| * C3-202516 | * Supporting the Location services in NEF in TS 29.122 | * CATT | * 29.122 | * 0228 | * 3 | * Rel-16 | * B | * 5G\_eLCS | * agreed |
| * C3-202022 | * Addition of IMEI/TAC values for RACS operations | * Qualcomm Incorporated, Ericsson | * 29.122 | * 0233 | * - | * Rel-16 | * F | * RACS | * revised |
| * C3-202422 | * Addition of IMEI/TAC values for RACS operations | * Qualcomm Incorporated, Ericsson | * 29.122 | * 0233 | * 1 | * Rel-16 | * F | * RACS | * agreed |
| * C3-202023 | * Corrections to UE radio capability configuration data | * Qualcomm Incorporated, Nokia, Samsung, Vodafone | * 29.122 | * 0234 | * - | * Rel-16 | * F | * RACS | * revised |
| * C3-202494 | * Corrections to UE radio capability configuration data | * Qualcomm Incorporated, Nokia, Samsung, Vodafone, Ericsson | * 29.122 | * 0234 | * 1 | * Rel-16 | * F | * RACS | * agreed |
| * C3-202026 | * Missing bullet in introduction | * Qualcomm Incorporated | * 29.122 | * 0235 | * - | * Rel-16 | * F | * TEI16 | * revised |
| * C3-202426 | * Missing bullet in introduction | * Qualcomm Incorporated | * 29.122 | * 0235 | * 1 | * Rel-16 | * F | * RACS | * agreed |
| * C3-202129 | * Event of Usage Threshold | * Huawei | * 29.122 | * 0236 | * - | * Rel-15 | * F | * NAPS-CT | * revised |
| * C3-202448 | * Event of Usage Threshold | * Huawei | * 29.122 | * 0236 | * 1 | * Rel-15 | * F | * NAPS-CT | * agreed |
| * C3-202130 | * Event of Usage Threshold | * Huawei | * 29.122 | * 0237 | * - | * Rel-16 | * A | * NAPS-CT | * revised |
| * C3-202449 | * Event of Usage Threshold | * Huawei | * 29.122 | * 0237 | * 1 | * Rel-16 | * A | * NAPS-CT | * agreed |
| * C3-202131 | * Periodic reporting by Nnef | * Huawei | * 29.122 | * 0238 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * not pursued |
| * C3-202132 | * Periodic reporting by Nnef | * Huawei | * 29.122 | * 0239 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * revised |
| * C3-202447 | * Periodic reporting by Nnef | * Huawei | * 29.122 | * 0239 | * 1 | * Rel-16 | * A | * eNAPIs | * agreed |
| * C3-202145 | * Area information within BDT policy | * Huawei | * 29.122 | * 0240 | * - | * Rel-16 | * F | * xBDT | * postponed |
| * C3-202235 | * Correction to the DDD status event | * Ericsson | * 29.122 | * 0241 | * - | * Rel-16 | * F | * 5G\_CIoT | * revised |
| * C3-202394 | * Correction to the DDD status event | * Ericsson | * 29.122 | * 0241 | * 1 | * Rel-16 | * F | * 5G\_CIoT | * agreed |
| * C3-202282 | * Correct GMDviaMBMSbyxMB openAPI error | * Ericsson | * 29.122 | * 0242 | * - | * Rel-15 | * F | * NAPS-CT | * agreed |
| * C3-202283 | * Correct GMDviaMBMSbyxMB openAPI error | * Ericsson | * 29.122 | * 0243 | * - | * Rel-16 | * A | * NAPS-CT | * agreed |
| * C3-202304 | * Correct NIDD API | * Ericsson | * 29.122 | * 0244 | * - | * Rel-15 | * F | * NAPS-CT | * agreed |
| * C3-202305 | * Correct NIDD API | * Ericsson | * 29.122 | * 0245 | * - | * Rel-16 | * A | * NAPS-CT | * agreed |
| * C3-202311 | * Correct data type used in QoS monitoring | * Ericsson | * 29.122 | * 0246 | * - | * Rel-16 | * F | * 5G\_URLLC | * agreed |
| * C3-202036 | * Corrections on the II-NNI specifications on the P-Charging-Vector header field. | * NTT | * 29.165 | * 1006 | * - | * Rel-16 | * F | * NNI\_DV | * agreed |
| * C3-202177 | * Adding the MuD service for the option Item table over the roaming II-NNI. | * NTT corporation | * 29.165 | * 1007 | * - | * Rel-16 | * F | * MuD | * revised |
| * C3-202358 | * Adding the MuD service for the option Item table over the roaming II-NNI. | * NTT corporation | * 29.165 | * 1007 | * 1 | * Rel-16 | * F | * MuD | * agreed |
| * C3-202019 | * Missing annex A.10.5 (network provided location information at SIP session release) | * Nokia, Nokia Shanghai Bell | * 29.214 | * 1638 | * - | * Rel-15 | * F | * TEI15 | * agreed |
| * C3-202020 | * Missing annex A.10.5 (network provided location information at SIP session release) | * Nokia, Nokia Shanghai Bell | * 29.214 | * 1639 | * - | * Rel-16 | * A | * TEI15 | * agreed |
| * C3-202252 | * Access Type Report for a MA PDU session | * Ericsson | * 29.214 | * 1640 | * - | * Rel-16 | * B | * ATSSS | * revised |
| * C3-202511 | * Access Type Report for a MA PDU session | * Ericsson | * 29.214 | * 1640 | * 1 | * Rel-16 | * B | * ATSSS | * agreed |
| * C3-202330 | * Clarification on FlowDescription | * China Mobile Communications Group Co.,Ltd. | * 29.214 | * 1641 | * - | * Rel-15 | * F | * TEI15 | * revised |
| * C3-202474 | * Clarification on FlowDescription | * China Mobile Communications Group Co.,Ltd. | * 29.214 | * 1641 | * 1 | * Rel-15 | * F | * TEI15 | * agreed |
| * C3-202331 | * Clarification on FlowDescription | * China Mobile Communications Group Co.,Ltd. | * 29.214 | * 1642 | * - | * Rel-16 | * A | * TEI16, en5GPccSer | * revised |
| * C3-202475 | * Clarification on FlowDescription | * China Mobile Communications Group Co.,Ltd. | * 29.214 | * 1642 | * 1 | * Rel-16 | * A | * TEI15 | * revised |
| * C3-202524 | * Clarification on FlowDescription | * China Mobile Communications Group Co.,Ltd. | * 29.214 | * 1642 | * 2 | * Rel-16 | * A | * TEI15 | * agreed |
| * C3-202167 | * Corrections on service API category | * Huawei | * 29.222 | * 0127 | * - | * Rel-16 | * F | * eCAPIF | * merged |
| * C3-202179 | * Service description and operations for CAPIF\_API\_Routing\_Policy\_API | * Huawei | * 29.222 | * 0128 | * - | * Rel-16 | * F | * eCAPIF | * revised |
| * C3-202395 | * Service description and operations for CAPIF\_API\_Routing\_Policy\_API | * Huawei | * 29.222 | * 0128 | * 1 | * Rel-16 | * B | * eCAPIF | * agreed |
| * C3-202180 | * API definition for CAPIF\_API\_Routing\_Policy\_API | * Huawei | * 29.222 | * 0129 | * - | * Rel-16 | * F | * eCAPIF | * revised |
| * C3-202396 | * API definition for CAPIF\_API\_Routing\_Policy\_API | * Huawei | * 29.222 | * 0129 | * 1 | * Rel-16 | * B | * eCAPIF | * agreed |
| * C3-202181 | * API Topology hiding | * Huawei | * 29.222 | * 0130 | * - | * Rel-16 | * F | * eCAPIF | * revised |
| * C3-202397 | * API Topology hiding | * Huawei | * 29.222 | * 0130 | * 1 | * Rel-16 | * B | * eCAPIF | * agreed |
| * C3-202217 | * API Provider management API attribute name optimization | * Samsung Electronics France SA | * 29.222 | * 0131 | * - | * Rel-16 | * F | * eCAPIF | * revised |
| * C3-202398 | * API Provider management API attribute name optimization | * Samsung Electronics France SA | * 29.222 | * 0131 | * 1 | * Rel-16 | * F | * eCAPIF | * agreed |
| * C3-202292 | * Correct API publish procedure | * Ericsson | * 29.222 | * 0132 | * - | * Rel-15 | * F | * CAPIF-CT | * agreed |
| * C3-202293 | * Correct API publish procedure | * Ericsson | * 29.222 | * 0133 | * - | * Rel-16 | * A | * CAPIF-CT | * agreed |
| * C3-202294 | * Correct ServiceAPIDescription | * Ericsson | * 29.222 | * 0134 | * - | * Rel-15 | * F | * CAPIF-CT | * revised |
| * C3-202450 | * Correct ServiceAPIDescription | * Ericsson | * 29.222 | * 0134 | * 1 | * Rel-15 | * F | * CAPIF-CT | * agreed |
| * C3-202295 | * Correct ServiceAPIDescription | * Ericsson | * 29.222 | * 0135 | * - | * Rel-16 | * A | * CAPIF-CT | * revised |
| * C3-202451 | * Correct ServiceAPIDescription | * Ericsson | * 29.222 | * 0135 | * 1 | * Rel-16 | * F | * eCAPIF | * agreed |
| * C3-202296 | * Correct service API discovery in interconnection | * Ericsson | * 29.222 | * 0136 | * - | * Rel-16 | * F | * eCAPIF | * revised |
| * C3-202491 | * Correct service API discovery in interconnection | * Ericsson, Huawei | * 29.222 | * 0136 | * 1 | * Rel-16 | * F | * eCAPIF | * agreed |
| * C3-202297 | * Correct shareable information | * Ericsson | * 29.222 | * 0137 | * - | * Rel-16 | * F | * eCAPIF | * revised |
| * C3-202399 | * Correct shareable information | * Ericsson | * 29.222 | * 0137 | * 1 | * Rel-16 | * F | * eCAPIF | * agreed |
| * C3-202303 | * Correct the supported features in the published API | * Ericsson | * 29.222 | * 0138 | * - | * Rel-16 | * F | * eNAPIs | * revised |
| * C3-202497 | * Correct the supported features in the published API | * Ericsson | * 29.222 | * 0138 | * 1 | * Rel-16 | * F | * eNAPIs | * agreed |
| * C3-202018 | * Editorial Updates to open ProSe direct discovery | * CATT | * 29.343 | * 0031 | * - | * Rel-15 | * A | * ProSe-CT | * revised |
| * C3-202493 | * Correct open ProSe direct discovery | * CATT | * 29.343 | * 0031 | * 1 | * Rel-16 | * F | * TEI16 | * agreed |
| * C3-202112 | * Apiversion of VAE\_FileDistribution API | * Huawei | * 29.486 | * 0001 | * - | * Rel-16 | * B | * V2XAPP | * agreed |
| * C3-202113 | * Correction of the usage of SEAL services by the V2X application specific server | * Huawei | * 29.486 | * 0002 | * - | * Rel-16 | * F | * V2XAPP | * postponed |
| * C3-202114 | * Correction to DELETE method of VAE\_FileDistribution API | * Huawei | * 29.486 | * 0003 | * - | * Rel-16 | * F | * V2XAPP | * agreed |
| * C3-202115 | * Editoral corrections of 29.486 | * Huawei | * 29.486 | * 0004 | * - | * Rel-16 | * F | * V2XAPP | * revised |
| * C3-202423 | * Editoral corrections of 29.486 | * Huawei | * 29.486 | * 0004 | * 1 | * Rel-16 | * F | * V2XAPP | * agreed |
| * C3-202039 | * Corrections on Service Area Restriction | * ZTE | * 29.507 | * 0106 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * revised |
| * C3-202452 | * Corrections on Service Area Restriction | * ZTE | * 29.507 | * 0106 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-202040 | * Corrections on Service Area Restriction | * ZTE | * 29.507 | * 0107 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * revised |
| * C3-202453 | * Corrections on Service Area Restriction | * ZTE | * 29.507 | * 0107 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-202055 | * Location header of 307 status code | * Huawei | * 29.507 | * 0108 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * revised |
| * C3-202454 | * Location header of 307 status code | * Huawei | * 29.507 | * 0108 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-202056 | * Location header of 307 status code | * Huawei | * 29.507 | * 0109 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * revised |
| * C3-202455 | * Location header of 307 status code | * Huawei | * 29.507 | * 0109 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-202063 | * Notification URI | * Huawei | * 29.507 | * 0110 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * revised |
| * C3-202456 | * Notification URI | * Huawei | * 29.507 | * 0110 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-202064 | * Notification URI | * Huawei | * 29.507 | * 0111 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * revised |
| * C3-202457 | * Notification URI | * Huawei | * 29.507 | * 0111 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-202075 | * Correction to the DNN replacement | * Huawei | * 29.507 | * 0112 | * - | * Rel-16 | * B | * en5GPccSer | * revised |
| * C3-202434 | * Correction to the DNN replacement | * Huawei | * 29.507 | * 0112 | * 1 | * Rel-16 | * B | * en5GPccSer | * agreed |
| * C3-202076 | * Enable removing the policy decision | * Huawei | * 29.507 | * 0113 | * - | * Rel-16 | * B | * en5GPccSer | * revised |
| * C3-202435 | * Enable removing the policy decision | * Huawei | * 29.507 | * 0113 | * 1 | * Rel-16 | * B | * en5GPccSer | * agreed |
| * C3-202077 | * FQDN of alternative AMF | * Huawei | * 29.507 | * 0114 | * - | * Rel-16 | * B | * en5GPccSer | * revised |
| * C3-202527 | * FQDN of alternative AMF | * Huawei | * 29.507 | * 0114 | * 1 | * Rel-16 | * B | * en5GPccSer | * agreed |
| * C3-202195 | * Removal of MAC address | * Ericsson | * 29.507 | * 0115 | * - | * Rel-16 | * F | * 5WWC | * agreed |
| * C3-202199 | * Adding "RG\_TMBR\_CH" to triggers in the PolicyUpdate | * Ericsson | * 29.507 | * 0116 | * - | * Rel-16 | * F | * 5WWC | * revised |
| * C3-202353 | * Adding "RG\_TMBR\_CH" to triggers in the PolicyUpdate | * Ericsson | * 29.507 | * 0116 | * 1 | * Rel-16 | * F | * 5WWC | * revised |
| * C3-202443 | * Adding "RG\_TMBR\_CH" to triggers in the PolicyUpdate | * Ericsson | * 29.507 | * 0116 | * 2 | * Rel-16 | * F | * 5WWC | * agreed |
| * C3-202244 | * Corrections on Annex B | * Ericsson | * 29.507 | * 0117 | * - | * Rel-16 | * F | * 5WWC | * revised |
| * C3-202354 | * Corrections on Annex B | * Ericsson | * 29.507 | * 0117 | * 1 | * Rel-16 | * F | * 5WWC | * agreed |
| * C3-202245 | * Untrusted FN-RG PEI | * Ericsson | * 29.507 | * 0118 | * - | * Rel-16 | * B | * 5WWC | * revised |
| * C3-202488 | * Untrusted FN-RG PEI | * Ericsson | * 29.507 | * 0118 | * 1 | * Rel-16 | * B | * 5WWC | * agreed |
| * C3-202316 | * Storage of YAML files in ETSI Forge | * Ericsson | * 29.507 | * 0119 | * - | * Rel-16 | * F | * SBIProtoc16 | * revised |
| * C3-202407 | * Storage of YAML files in ETSI Forge | * Ericsson | * 29.507 | * 0119 | * 1 | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-202162 | * I-NEF interworking | * Nokia, Nokia Shanghai Bell | * 29.508 | * 0074 | * - | * Rel-16 | * B | * 5G\_CIoT | * postponed |
| * C3-202234 | * Correction to the DDD status event | * Ericsson | * 29.508 | * 0075 | * - | * Rel-16 | * F | * 5G\_CIoT | * revised |
| * C3-202393 | * Correction to the DDD status event | * Ericsson | * 29.508 | * 0075 | * 1 | * Rel-16 | * F | * 5G\_CIoT | * agreed |
| * C3-202280 | * Correct presence condition in event subscription | * Ericsson | * 29.508 | * 0076 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * revised |
| * C3-202476 | * Correct presence condition in event subscription | * Ericsson | * 29.508 | * 0076 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-202281 | * Correct presence condition in event subscription | * Ericsson | * 29.508 | * 0077 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * revised |
| * C3-202477 | * Correct presence condition in event subscription | * Ericsson | * 29.508 | * 0077 | * 1 | * Rel-16 | * A | * TEI16 | * agreed |
| * C3-202317 | * Storage of YAML files in ETSI Forge | * Ericsson | * 29.508 | * 0078 | * - | * Rel-16 | * F | * SBIProtoc16 | * revised |
| * C3-202408 | * Storage of YAML files in ETSI Forge | * Ericsson | * 29.508 | * 0078 | * 1 | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-202037 | * Correction to attributes interGrpIds and appDetectionInfos | * ZTE | * 29.512 | * 0436 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * revised |
| * C3-202458 | * Correction to attributes interGrpIds and appDetectionInfos | * ZTE, Ericsson | * 29.512 | * 0436 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-202038 | * Correction to attributes interGrpIds and appDetectionInfos | * ZTE | * 29.512 | * 0437 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * revised |
| * C3-202459 | * Correction to attributes interGrpIds and appDetectionInfos | * ZTE, Ericsson | * 29.512 | * 0437 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-202047 | * Correction to V2XARC | * ZTE | * 29.512 | * 0438 | * - | * Rel-16 | * F | * eV2XARC | * agreed |
| * C3-202059 | * String format of flow information | * Huawei | * 29.512 | * 0439 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-202060 | * String format of flow information | * Huawei | * 29.512 | * 0440 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-202061 | * Ethernet PDU session for AF-influnced traffic steering control | * Huawei | * 29.512 | * 0441 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * merged |
| * C3-202062 | * Ethernet PDU session for AF-influnced traffic steering control | * Huawei | * 29.512 | * 0442 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * merged |
| * C3-202067 | * Notification URI | * Huawei | * 29.512 | * 0443 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * revised |
| * C3-202462 | * Notification URI | * Huawei | * 29.512 | * 0443 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-202068 | * Notification URI | * Huawei | * 29.512 | * 0444 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * revised |
| * C3-202463 | * Notification URI | * Huawei | * 29.512 | * 0444 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-202069 | * Cause Mapping of VALIDATION\_CONDITION\_NOT\_MET | * Huawei | * 29.512 | * 0445 | * - | * Rel-16 | * B | * en5GPccSer | * revised |
| * C3-202430 | * Cause Mapping of VALIDATION\_CONDITION\_NOT\_MET | * Huawei | * 29.512 | * 0445 | * 1 | * Rel-16 | * B | * en5GPccSer | * agreed |
| * C3-202081 | * ATSSS rule derivation | * Huawei | * 29.512 | * 0446 | * - | * Rel-16 | * B | * ATSSS | * agreed |
| * C3-202082 | * QoS support for ATSSS | * Huawei | * 29.512 | * 0447 | * - | * Rel-16 | * B | * ATSSS | * revised |
| * C3-202374 | * QoS support for ATSSS | * Huawei | * 29.512 | * 0447 | * 1 | * Rel-16 | * B | * ATSSS | * agreed |
| * C3-202083 | * Enable removing the policy decision | * Huawei | * 29.512 | * 0448 | * - | * Rel-16 | * B | * ATSSS | * revised |
| * C3-202375 | * Enable removing the policy decision | * Huawei | * 29.512 | * 0448 | * 1 | * Rel-16 | * B | * ATSSS | * agreed |
| * C3-202085 | * Correction to bridge Information report | * Huawei | * 29.512 | * 0449 | * - | * Rel-16 | * F | * Vertical\_LAN | * agreed |
| * C3-202086 | * Correction to Port Management Information Container exchange | * Huawei | * 29.512 | * 0450 | * - | * Rel-16 | * F | * Vertical\_LAN | * revised |
| * C3-202361 | * Correction to Port Management Information Container exchange | * Huawei | * 29.512 | * 0450 | * 1 | * Rel-16 | * F | * Vertical\_LAN | * agreed |
| * C3-202087 | * Correction to Provisioning of TSCAI input information and TSC QoS related data | * Huawei | * 29.512 | * 0451 | * - | * Rel-16 | * F | * Vertical\_LAN | * revised |
| * C3-202362 | * Correction to Provisioning of TSCAI input information and TSC QoS related data | * Huawei | * 29.512 | * 0451 | * 1 | * Rel-16 | * F | * Vertical\_LAN | * agreed |
| * C3-202088 | * PCC rule information update for vertical | * Huawei | * 29.512 | * 0452 | * - | * Rel-16 | * B | * Vertical\_LAN | * revised |
| * C3-202363 | * PCC rule information update for vertical | * Huawei | * 29.512 | * 0452 | * 1 | * Rel-16 | * B | * Vertical\_LAN | * agreed |
| * C3-202089 | * PCF functionality update for TSN | * Huawei | * 29.512 | * 0453 | * - | * Rel-16 | * B | * Vertical\_LAN | * revised |
| * C3-202364 | * PCF functionality update for TSN | * Huawei | * 29.512 | * 0453 | * 1 | * Rel-16 | * B | * Vertical\_LAN | * agreed |
| * C3-202096 | * General update of Annex C | * Huawei | * 29.512 | * 0454 | * - | * Rel-16 | * B | * 5WWC | * agreed |
| * C3-202097 | * Support of full Frame Routing feature | * Huawei | * 29.512 | * 0455 | * - | * Rel-16 | * B | * 5WWC | * revised |
| * C3-202349 | * Support of full Frame Routing feature | * Huawei | * 29.512 | * 0455 | * 1 | * Rel-16 | * B | * 5WWC | * agreed |
| * C3-202098 | * The data type of GlobalLineId | * Huawei | * 29.512 | * 0456 | * - | * Rel-16 | * B | * 5WWC | * revised |
| * C3-202351 | * The data type of GlobalLineId | * Huawei, Ericsson | * 29.512 | * 0456 | * 1 | * Rel-16 | * B | * 5WWC | * agreed |
| * C3-202107 | * Procedure of policy provisioning of QoS monitoring control | * Huawei | * 29.512 | * 0457 | * - | * Rel-16 | * B | * 5G\_URLLC | * revised |
| * C3-202437 | * Procedure of policy provisioning of QoS monitoring control | * Huawei | * 29.512 | * 0457 | * 1 | * Rel-16 | * B | * 5G\_URLLC | * agreed |
| * C3-202108 | * QoS Monitoring Control Data correction | * Huawei | * 29.512 | * 0458 | * - | * Rel-16 | * B | * 5G\_URLLC | * revised |
| * C3-202438 | * QoS Monitoring Control Data correction | * Huawei | * 29.512 | * 0458 | * 1 | * Rel-16 | * B | * 5G\_URLLC | * agreed |
| * C3-202109 | * Reporting Frequency | * Huawei | * 29.512 | * 0459 | * - | * Rel-16 | * B | * 5G\_URLLC | * merged |
| * C3-202110 | * Enable removing the policy decision | * Huawei | * 29.512 | * 0460 | * - | * Rel-16 | * B | * 5G\_URLLC | * merged |
| * C3-202127 | * Reselection of PSA UPF if receiving UE IP address preservation indication | * Huawei | * 29.512 | * 0461 | * - | * Rel-16 | * F | * 5G\_URLLC | * merged |
| * C3-202147 | * timeUsage in Accumulated Usage Report | * ZTE | * 29.512 | * 0462 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * revised |
| * C3-202464 | * timeUsage in Accumulated Usage Report | * ZTE | * 29.512 | * 0462 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-202148 | * timeUsage in Accumulated Usage Report | * ZTE | * 29.512 | * 0463 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * revised |
| * C3-202465 | * timeUsage in Accumulated Usage Report | * ZTE | * 29.512 | * 0463 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-202149 | * Support the update of SteeringFunctionality | * ZTE | * 29.512 | * 0464 | * - | * Rel-16 | * F | * ATSSS | * agreed |
| * C3-202151 | * Not to support Mission Critical Services | * Huawei | * 29.512 | * 0465 | * - | * Rel-16 | * B | * 5WWC | * agreed |
| * C3-202185 | * Alignment of array name containing internal group identities | * Ericsson | * 29.512 | * 0466 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * merged |
| * C3-202186 | * Alignment of array name containing internal group identities | * Ericsson | * 29.512 | * 0467 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * merged |
| * C3-202197 | * Removal of MAC address | * Ericsson | * 29.512 | * 0468 | * - | * Rel-16 | * F | * 5WWC | * agreed |
| * C3-202201 | * Solving EN related to a global line identity | * Ericsson | * 29.512 | * 0469 | * - | * Rel-16 | * F | * 5WWC | * merged |
| * C3-202209 | * Removal of unbreakable space and TAB | * Ericsson | * 29.512 | * 0470 | * - | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-202243 | * Solving Editor’s note on UL CL | * Ericsson | * 29.512 | * 0471 | * - | * Rel-16 | * B | * 5G\_URLLC | * revised |
| * C3-202498 | * Solving Editor’s note on UL CL | * Ericsson, Huawei | * 29.512 | * 0471 | * 1 | * Rel-16 | * B | * 5G\_URLLC | * agreed |
| * C3-202246 | * Hybrid Access Support | * Ericsson | * 29.512 | * 0472 | * - | * Rel-16 | * B | * 5WWC | * revised |
| * C3-202355 | * Hybrid Access Support | * Ericsson | * 29.512 | * 0472 | * 1 | * Rel-16 | * B | * 5WWC | * agreed |
| * C3-202247 | * Untrusted PEI | * Ericsson | * 29.512 | * 0473 | * - | * Rel-16 | * B | * 5WWC | * revised |
| * C3-202489 | * Untrusted PEI | * Ericsson | * 29.512 | * 0473 | * 1 | * Rel-16 | * B | * 5WWC | * agreed |
| * C3-202248 | * RAT type for WWC | * Ericsson | * 29.512 | * 0474 | * - | * Rel-16 | * B | * 5WWC | * revised |
| * C3-202528 | * RAT type for WWC | * Ericsson | * 29.512 | * 0474 | * 1 | * Rel-16 | * B | * 5WWC | * agreed |
| * C3-202256 | * PS Data Off for a MA PDU session | * Ericsson | * 29.512 | * 0475 | * - | * Rel-16 | * B | * ATSSS | * revised |
| * C3-202377 | * PS Data Off for a MA PDU session | * Ericsson | * 29.512 | * 0475 | * 1 | * Rel-16 | * B | * ATSSS | * agreed |
| * C3-202258 | * Correction to Reallocation of Credit | * Ericsson | * 29.512 | * 0476 | * - | * Rel-16 | * F | * en5GPccSer | * revised |
| * C3-202436 | * Correction to Reallocation of Credit | * Ericsson | * 29.512 | * 0476 | * 1 | * Rel-16 | * F | * en5GPccSer | * agreed |
| * C3-202259 | * Local traffic routing policy | * Ericsson, China Mobile | * 29.512 | * 0477 | * - | * Rel-16 | * B | * en5GPccSer | * revised |
| * C3-202499 | * Local traffic routing policy | * Ericsson, China Mobile | * 29.512 | * 0477 | * 1 | * Rel-16 | * B | * en5GPccSer | * agreed |
| * C3-202260 | * Referencing alternative QoS in clause 4.2.6.2.1 | * Ericsson | * 29.512 | * 0478 | * - | * Rel-16 | * F | * eV2XARC | * revised |
| * C3-202348 | * Referencing alternative QoS in clause 4.2.6.2.1 | * Ericsson | * 29.512 | * 0478 | * 1 | * Rel-16 | * F | * eV2XARC | * agreed |
| * C3-202261 | * QoS information for Time Sensitive Networking | * Ericsson | * 29.512 | * 0479 | * - | * Rel-16 | * B | * Vertical\_LAN | * revised |
| * C3-202366 | * QoS information for Time Sensitive Networking | * Ericsson | * 29.512 | * 0479 | * 1 | * Rel-16 | * B | * Vertical\_LAN | * agreed |
| * C3-202262 | * Update of TSN related PCRTs | * Ericsson | * 29.512 | * 0480 | * - | * Rel-16 | * B | * Vertical\_LAN | * revised |
| * C3-202369 | * Update of TSN related PCRTs | * Ericsson, Huawei | * 29.512 | * 0480 | * 1 | * Rel-16 | * B | * Vertical\_LAN | * agreed |
| * C3-202266 | * Completion of traffic correlation | * Ericsson | * 29.512 | * 0481 | * - | * Rel-16 | * B | * Vertical\_LAN | * revised |
| * C3-202373 | * Completion of traffic correlation | * Ericsson | * 29.512 | * 0481 | * 1 | * Rel-16 | * B | * Vertical\_LAN | * agreed |
| * C3-202269 | * Correction to NetLoc feature | * Ericsson | * 29.512 | * 0482 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * revised |
| * C3-202461 | * Correction to NetLoc feature | * Ericsson, Huawei | * 29.512 | * 0482 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-202270 | * Correction to NetLoc feature | * Ericsson | * 29.512 | * 0483 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * revised |
| * C3-202460 | * Correction to NetLoc feature | * Ericsson, Huawei | * 29.512 | * 0483 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-202273 | * Correction to PS Data Off | * Ericsson | * 29.512 | * 0484 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * revised |
| * C3-202466 | * Correction to PS Data Off | * Ericsson | * 29.512 | * 0484 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-202274 | * Correction to PS Data Off | * Ericsson | * 29.512 | * 0485 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * revised |
| * C3-202467 | * Correction to PS Data Off | * Ericsson | * 29.512 | * 0485 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-202312 | * Correct data type used in QoS monitoring | * Ericsson | * 29.512 | * 0486 | * - | * Rel-16 | * F | * 5G\_URLLC | * revised |
| * C3-202439 | * Correct data type used in QoS monitoring | * Ericsson, Huawei | * 29.512 | * 0486 | * 1 | * Rel-16 | * F | * 5G\_URLLC | * agreed |
| * C3-202318 | * Storage of YAML files in ETSI Forge | * Ericsson | * 29.512 | * 0487 | * - | * Rel-16 | * F | * SBIProtoc16 | * revised |
| * C3-202409 | * Storage of YAML files in ETSI Forge | * Ericsson | * 29.512 | * 0487 | * 1 | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-202070 | * Clarification of PCF selection by the AMF and SMF | * Huawei | * 29.513 | * 0137 | * - | * Rel-16 | * B | * en5GPccSer | * agreed |
| * C3-202071 | * Correction on QoS Flow Binding for QoS Flow Behaviour | * Huawei | * 29.513 | * 0138 | * - | * Rel-16 | * B | * en5GPccSer | * revised |
| * C3-202431 | * Correction on QoS Flow Binding for QoS Flow Behaviour | * Huawei | * 29.513 | * 0138 | * 1 | * Rel-16 | * B | * en5GPccSer | * agreed |
| * C3-202072 | * Correction to PCC rule Authorization | * Huawei | * 29.513 | * 0139 | * - | * Rel-16 | * B | * en5GPccSer | * agreed |
| * C3-202073 | * Correction to binding information procedures | * Huawei | * 29.513 | * 0140 | * - | * Rel-16 | * B | * en5GPccSer | * revised |
| * C3-202432 | * Correction to binding information procedures | * Huawei | * 29.513 | * 0140 | * 1 | * Rel-16 | * B | * en5GPccSer | * agreed |
| * C3-202074 | * Same PCF selection support | * Huawei | * 29.513 | * 0141 | * - | * Rel-16 | * B | * en5GPccSer | * revised |
| * C3-202433 | * Same PCF selection support | * Huawei | * 29.513 | * 0141 | * 1 | * Rel-16 | * B | * en5GPccSer | * agreed |
| * C3-202080 | * Update of PCF discovery by the AF for eSBA | * Huawei | * 29.513 | * 0142 | * - | * Rel-16 | * B | * 5G\_eSBA | * revised |
| * C3-202503 | * Update of PCF discovery by the AF for eSBA | * Huawei | * 29.513 | * 0142 | * 1 | * Rel-16 | * B | * 5G\_eSBA | * agreed |
| * C3-202084 | * QoS Flow Binding about ATSSS | * Huawei | * 29.513 | * 0143 | * - | * Rel-16 | * B | * ATSSS | * revised |
| * C3-202376 | * QoS Flow Binding about ATSSS | * Huawei | * 29.513 | * 0143 | * 1 | * Rel-16 | * B | * ATSSS | * agreed |
| * C3-202090 | * Correction to Session binding for TSN | * Huawei | * 29.513 | * 0144 | * - | * Rel-16 | * F | * Vertical\_LAN | * revised |
| * C3-202365 | * Correction to Session binding for TSN | * Huawei | * 29.513 | * 0144 | * 1 | * Rel-16 | * F | * Vertical\_LAN | * agreed |
| * C3-202091 | * Correction to QoS Flow Binding about TSN | * Huawei | * 29.513 | * 0145 | * - | * Rel-16 | * F | * Vertical\_LAN | * merged |
| * C3-202111 | * Update for eIMS5G\_SBA | * Huawei | * 29.513 | * 0146 | * - | * Rel-16 | * B | * eIMS5G\_SBA | * agreed |
| * C3-202163 | * Corrections on Network data analytics Subscribe procedure | * Huawei | * 29.513 | * 0147 | * - | * Rel-16 | * F | * eNA | * agreed |
| * C3-202192 | * Binding information: PCF set ID and PCF instance ID | * Ericsson | * 29.513 | * 0148 | * - | * Rel-16 | * F | * 5G\_eSBA | * revised |
| * C3-202504 | * Binding information: PCF set ID and PCF instance ID | * Ericsson | * 29.513 | * 0148 | * 1 | * Rel-16 | * F | * 5G\_eSBA | * agreed |
| * C3-202211 | * Removal of not valid BDT policy from UDR | * Ericsson | * 29.513 | * 0149 | * - | * Rel-16 | * F | * eNA | * postponed |
| * C3-202263 | * Binding of PCC rules to a QoS flow considering TSCAI information | * Ericsson | * 29.513 | * 0150 | * - | * Rel-16 | * B | * Vertical\_LAN | * revised |
| * C3-202370 | * Binding of PCC rules to a QoS flow considering TSCAI information | * Ericsson, Huawei | * 29.513 | * 0150 | * 1 | * Rel-16 | * B | * Vertical\_LAN | * agreed |
| * C3-202041 | * Correction to PUT response for Events Subscription | * ZTE, Ericsson | * 29.514 | * 0198 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * revised |
| * C3-202518 | * Correction to PUT response for Events Subscription | * ZTE, Ericsson | * 29.514 | * 0198 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-202042 | * Correction to PUT response for Events Subscription | * ZTE, Ericsson | * 29.514 | * 0199 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * revised |
| * C3-202519 | * Correction to PUT response for Events Subscription | * ZTE, Ericsson | * 29.514 | * 0199 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-202092 | * Correction to bridge information report and port management information container provisioning | * Huawei | * 29.514 | * 0200 | * - | * Rel-16 | * F | * Vertical\_LAN | * revised |
| * C3-202367 | * Correction to bridge information report and port management information container provisioning | * Huawei | * 29.514 | * 0200 | * 1 | * Rel-16 | * F | * Vertical\_LAN | * agreed |
| * C3-202093 | * Correction to TSCAI provisioning | * Huawei | * 29.514 | * 0201 | * - | * Rel-16 | * F | * Vertical\_LAN | * revised |
| * C3-202368 | * Correction to TSCAI provisioning | * Huawei, Ericsson | * 29.514 | * 0201 | * 1 | * Rel-16 | * F | * Vertical\_LAN | * agreed |
| * C3-202094 | * Clarification of target AF configuration | * Huawei | * 29.514 | * 0202 | * - | * Rel-16 | * B | * Vertical\_LAN | * revised |
| * C3-202526 | * Clarification of target AF configuration | * Huawei | * 29.514 | * 0202 | * 1 | * Rel-16 | * B | * Vertical\_LAN | * agreed |
| * C3-202196 | * Removal of MAC address | * Ericsson | * 29.514 | * 0203 | * - | * Rel-16 | * F | * 5WWC | * agreed |
| * C3-202200 | * Solving ENs related to a global line identity | * Ericsson | * 29.514 | * 0204 | * - | * Rel-16 | * F | * 5WWC | * agreed |
| * C3-202202 | * Solving ENs related to NetLoc support for wireline access | * Ericsson | * 29.514 | * 0205 | * - | * Rel-16 | * F | * 5WWC | * agreed |
| * C3-202205 | * Adding QosMonitoringInformationRm in table 5.6.1-1 | * Ericsson | * 29.514 | * 0206 | * - | * Rel-16 | * F | * 5G\_URLLC | * agreed |
| * C3-202206 | * Miscellaneous corrections | * Ericsson | * 29.514 | * 0207 | * - | * Rel-16 | * F | * eIMS5G\_SBA | * agreed |
| * C3-202207 | * Support of FLUS feature | * Ericsson | * 29.514 | * 0208 | * - | * Rel-16 | * F | * TEI16 | * agreed |
| * C3-202208 | * Names of "maxPacketLossRateDl" and "maxPacketLossRateUl" attributes | * Ericsson | * 29.514 | * 0209 | * - | * Rel-16 | * F | * TEI16 | * agreed |
| * C3-202213 | * Adding support of NID | * Ericsson | * 29.514 | * 0210 | * - | * Rel-16 | * B | * Vertical\_LAN | * agreed |
| * C3-202249 | * Correction to Access Network Information for Trusted non-3GPP access | * Ericsson | * 29.514 | * 0211 | * - | * Rel-16 | * F | * 5WWC | * agreed |
| * C3-202250 | * Solving Editor’s notes on report of location for Trusted non-3GPP access | * Ericsson | * 29.514 | * 0212 | * - | * Rel-16 | * B | * 5WWC | * agreed |
| * C3-202254 | * Access Type Report for a MA PDU session | * Ericsson | * 29.514 | * 0213 | * - | * Rel-16 | * B | * ATSSS | * revised |
| * C3-202513 | * Access Type Report for a MA PDU session | * Ericsson | * 29.514 | * 0213 | * 1 | * Rel-16 | * B | * ATSSS | * agreed |
| * C3-202257 | * Correction to NetLoc feature | * Ericsson | * 29.514 | * 0214 | * - | * Rel-16 | * F | * eIMS5G\_SBA | * revised |
| * C3-202492 | * Correction to NetLoc feature | * Ericsson | * 29.514 | * 0214 | * 1 | * Rel-16 | * F | * eIMS5G\_SBA | * agreed |
| * C3-202264 | * Correction to TSCAI UL and DL description | * Ericsson | * 29.514 | * 0215 | * - | * Rel-16 | * B | * Vertical\_LAN | * revised |
| * C3-202371 | * Correction to TSCAI UL and DL description | * Ericsson | * 29.514 | * 0215 | * 1 | * Rel-16 | * B | * Vertical\_LAN | * agreed |
| * C3-202265 | * Update of TSN related events | * Ericsson | * 29.514 | * 0216 | * - | * Rel-16 | * B | * Vertical\_LAN | * revised |
| * C3-202372 | * Update of TSN related events | * Ericsson, Huawei | * 29.514 | * 0216 | * 1 | * Rel-16 | * B | * Vertical\_LAN | * agreed |
| * C3-202267 | * Storage of YAML files in ETSI Forge | * Ericsson | * 29.514 | * 0217 | * - | * Rel-16 | * F | * SBIProtoc16 | * revised |
| * C3-202404 | * Storage of YAML files in ETSI Forge | * Ericsson | * 29.514 | * 0217 | * 1 | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-202332 | * Access Type Report for WWC | * Ericsson | * 29.514 | * 0218 | * - | * Rel-16 | * B | * 5WWC | * revised |
| * C3-202357 | * Access Type Report for WWC | * Ericsson | * 29.514 | * 0218 | * 1 | * Rel-16 | * B | * 5WWC | * agreed |
| * C3-202170 | * Update service operation for Ue Communication | * Huawei | * 29.517 | * 0001 | * - | * Rel-16 | * F | * eNA | * agreed |
| * C3-202171 | * Corrections in TS 29.517 | * Huawei | * 29.517 | * 0002 | * - | * Rel-16 | * F | * eNA | * agreed |
| * C3-202193 | * Definition of AfEventExposureSubsc in OpenAPI | * Ericsson | * 29.517 | * 0003 | * - | * Rel-16 | * F | * eNA | * agreed |
| * C3-202194 | * Unsubscribe service operation | * Ericsson | * 29.517 | * 0004 | * - | * Rel-16 | * F | * eNA | * revised |
| * C3-202508 | * Unsubscribe service operation | * Ericsson | * 29.517 | * 0004 | * 1 | * Rel-16 | * D | * eNA | * agreed |
| * C3-202231 | * Correction to event description | * Ericsson | * 29.517 | * 0005 | * - | * Rel-16 | * F | * eNA | * revised |
| * C3-202389 | * Correction to event description | * Ericsson | * 29.517 | * 0005 | * 1 | * Rel-16 | * F | * eNA | * agreed |
| * C3-202232 | * Correction to target UE description | * Ericsson | * 29.517 | * 0006 | * - | * Rel-16 | * F | * eNA | * revised |
| * C3-202390 | * Correction to target UE description | * Ericsson | * 29.517 | * 0006 | * 1 | * Rel-16 | * F | * eNA | * agreed |
| * C3-202319 | * Storage of YAML files in ETSI Forge | * Ericsson | * 29.517 | * 0007 | * - | * Rel-16 | * F | * SBIProtoc16 | * revised |
| * C3-202410 | * Storage of YAML files in ETSI Forge | * Ericsson | * 29.517 | * 0007 | * 1 | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-202043 | * internalGroupId in Influence Data | * ZTE | * 29.519 | * 0178 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-202044 | * internalGroupId in Influence Data | * ZTE | * 29.519 | * 0179 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-202048 | * Definition of ServiceParameterData in openAPI | * ZTE | * 29.519 | * 0180 | * - | * Rel-16 | * F | * eV2XARC | * revised |
| * C3-202345 | * Definition of ServiceParameterData in openAPI | * ZTE | * 29.519 | * 0180 | * 1 | * Rel-16 | * F | * eV2XARC | * agreed |
| * C3-202049 | * Data Types for Application Data | * ZTE | * 29.519 | * 0181 | * - | * Rel-16 | * F | * TEI16 | * revised |
| * C3-202425 | * Data Types for Application Data | * ZTE | * 29.519 | * 0181 | * 1 | * Rel-16 | * F | * TEI16 | * agreed |
| * C3-202054 | * internalGroupId in BdtPolicyData | * ZTE | * 29.519 | * 0182 | * - | * Rel-16 | * F | * xBDT | * merged |
| * C3-202152 | * Correction to IPTV Configuration | * Huawei | * 29.519 | * 0183 | * - | * Rel-16 | * F | * 5WWC | * revised |
| * C3-202359 | * Correction to IPTV Configuration | * Huawei | * 29.519 | * 0183 | * 1 | * Rel-16 | * F | * 5WWC | * agreed |
| * C3-202154 | * Correction to BDT Policy | * Huawei | * 29.519 | * 0184 | * - | * Rel-16 | * F | * xBDT | * revised |
| * C3-202419 | * Correction to BDT Policy | * Huawei, ZTE | * 29.519 | * 0184 | * 1 | * Rel-16 | * F | * xBDT | * agreed |
| * C3-202271 | * Correction to notifications of Operator Specific Data changes | * Ericsson | * 29.519 | * 0185 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * revised |
| * C3-202521 | * Correction to notifications of Operator Specific Data changes | * Ericsson | * 29.519 | * 0185 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-202272 | * Correction to notifications of Operator Specific Data changes | * Ericsson | * 29.519 | * 0186 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * revised |
| * C3-202520 | * Correction to notifications of Operator Specific Data changes | * Ericsson | * 29.519 | * 0186 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-202278 | * Correct content type in PATCHing traffic influence application data | * Ericsson | * 29.519 | * 0187 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-202279 | * Correct content type in PATCHing traffic influence application data | * Ericsson | * 29.519 | * 0188 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-202284 | * Correct DataFilter presence condition | * Ericsson | * 29.519 | * 0189 | * - | * Rel-16 | * F | * en5GPccSer | * agreed |
| * C3-202285 | * Correct resourceId in required field | * Ericsson | * 29.519 | * 0190 | * - | * Rel-16 | * F | * en5GPccSer | * agreed |
| * C3-202298 | * Support local traffic routing in session subscription | * Ericsson, China Mobile | * 29.519 | * 0191 | * - | * Rel-16 | * B | * en5GPccSer | * revised |
| * C3-202500 | * Support local traffic routing in session subscription | * Ericsson, China Mobile | * 29.519 | * 0191 | * 1 | * Rel-16 | * B | * en5GPccSer | * agreed |
| * C3-202320 | * Storage of YAML files in ETSI Forge | * Ericsson | * 29.519 | * 0192 | * - | * Rel-16 | * F | * SBIProtoc16 | * revised |
| * C3-202411 | * Storage of YAML files in ETSI Forge | * Ericsson | * 29.519 | * 0192 | * 1 | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-202035 | * Clarification of QoS Sustainability | * China Telecom, Huawei | * 29.520 | * 0141 | * - | * Rel-16 | * F | * eNA, eV2XARC | * merged |
| * C3-202052 | * Condition description for threshold related attributes | * ZTE | * 29.520 | * 0142 | * - | * Rel-16 | * F | * eNA | * revised |
| * C3-202379 | * Condition description for threshold related attributes | * ZTE | * 29.520 | * 0142 | * 1 | * Rel-16 | * F | * eNA | * agreed |
| * C3-202053 | * Some corrections to Nnwdaf\_AnalyticsInfo Service | * ZTE | * 29.520 | * 0143 | * - | * Rel-16 | * F | * eNA | * revised |
| * C3-202380 | * Some corrections to Nnwdaf\_AnalyticsInfo Service | * ZTE | * 29.520 | * 0143 | * 1 | * Rel-16 | * F | * eNA | * agreed |
| * C3-202117 | * Support of multiple network slice instances | * Huawei | * 29.520 | * 0144 | * - | * Rel-16 | * F | * eNA | * revised |
| * C3-202506 | * Clarification on applicability for network slice information | * Huawei | * 29.520 | * 0144 | * 1 | * Rel-16 | * F | * eNA | * agreed |
| * C3-202118 | * Analyticis result per DNN | * Huawei | * 29.520 | * 0145 | * - | * Rel-16 | * F | * eNA | * revised |
| * C3-202381 | * Analyticis result per DNN | * Huawei | * 29.520 | * 0145 | * 1 | * Rel-16 | * F | * eNA | * agreed |
| * C3-202119 | * Maximum number of SUPIs | * Huawei | * 29.520 | * 0146 | * - | * Rel-16 | * F | * eNA | * revised |
| * C3-202522 | * Maximum number of SUPIs | * Huawei | * 29.520 | * 0146 | * 1 | * Rel-16 | * F | * eNA | * postponed |
| * C3-202120 | * Correction on FlowDescription | * Huawei | * 29.520 | * 0147 | * - | * Rel-16 | * F | * eNA | * revised |
| * C3-202382 | * Correction on FlowDescription | * Huawei | * 29.520 | * 0147 | * 1 | * Rel-16 | * F | * eNA | * agreed |
| * C3-202121 | * Corrections on QoS requirement | * Huawei | * 29.520 | * 0148 | * - | * Rel-16 | * F | * eNA | * merged |
| * C3-202122 | * Support of Abnormal behaviour | * Huawei | * 29.520 | * 0149 | * - | * Rel-16 | * F | * eNA | * revised |
| * C3-202384 | * Support of Abnormal behaviour | * Huawei | * 29.520 | * 0149 | * 1 | * Rel-16 | * F | * eNA | * agreed |
| * C3-202123 | * Confidence for User Data Congestion Information | * Huawei | * 29.520 | * 0150 | * - | * Rel-16 | * F | * eNA | * agreed |
| * C3-202124 | * Data type used for NWDAF services | * Huawei | * 29.520 | * 0151 | * - | * Rel-16 | * F | * eNA | * revised |
| * C3-202385 | * Data type used for NWDAF services | * Huawei | * 29.520 | * 0151 | * 1 | * Rel-16 | * F | * eNA | * agreed |
| * C3-202156 | * Adding new attribute maxSupi in TS 29.520 | * China Telecom | * 29.520 | * 0152 | * - | * Rel-16 | * F | * eNA | * withdrawn |
| * C3-202157 | * Adding maxAnaEntry attribute in related feature of NWDAF analytics service | * China Telecom, Huawei | * 29.520 | * 0153 | * - | * Rel-16 | * F | * eNA | * postponed |
| * C3-202158 | * Adding UDM as consumer of services provided by NWDAF | * China Telecom, Huawei | * 29.520 | * 0154 | * - | * Rel-16 | * F | * eNA | * revised |
| * C3-202386 | * Adding UDM as consumer of services provided by NWDAF | * China Telecom, Huawei | * 29.520 | * 0154 | * 1 | * Rel-16 | * F | * eNA | * agreed |
| * C3-202159 | * Corrections on descriptions of NF service consumers offered by NWDAF | * China Telecom, Huawei | * 29.520 | * 0155 | * - | * Rel-16 | * F | * eNA | * agreed |
| * C3-202178 | * Adding “maxReportNbr” attribute | * China Telecom | * 29.520 | * 0156 | * - | * Rel-16 | * F | * eNA | * not pursued |
| * C3-202220 | * Nnwdaf\_EventsSubscription API, Slice load level support NSI ID | * Ericsson | * 29.520 | * 0157 | * - | * Rel-16 | * B | * eNA | * revised |
| * C3-202525 | * Updates to Abbreviations | * Ericsson | * 29.520 | * 0157 | * 1 | * Rel-16 | * D | * eNA | * agreed |
| * C3-202221 | * Nnwdaf\_AnalyticsInfo API, Slice load level support NSI ID | * Ericsson | * 29.520 | * 0158 | * - | * Rel-16 | * B | * eNA | * postponed |
| * C3-202222 | * Nnwdaf\_EventsSubscription API, support maximum number of objects | * Ericsson | * 29.520 | * 0159 | * - | * Rel-16 | * B | * eNA | * postponed |
| * C3-202223 | * Nnwdaf\_AnalyticsInfo API, support maximum number of objects | * Ericsson | * 29.520 | * 0160 | * - | * Rel-16 | * B | * eNA | * postponed |
| * C3-202224 | * Nnwdaf\_EventsSubscription API, Updates to Abnormal Behaviour | * Ericsson | * 29.520 | * 0161 | * - | * Rel-16 | * B | * eNA | * postponed |
| * C3-202225 | * Nnwdaf\_AnalyticsInfo API, Updates to Abnormal Behaviour | * Ericsson | * 29.520 | * 0162 | * - | * Rel-16 | * B | * eNA | * postponed |
| * C3-202226 | * Nnwdaf\_EventsSubscription API, Updates to Service Experience | * Ericsson | * 29.520 | * 0163 | * - | * Rel-16 | * B | * eNA | * postponed |
| * C3-202509 | * Nnwdaf\_EventsSubscription API, Updates to Service Experience | * Ericsson | * 29.520 | * 0163 | * 1 | * Rel-16 | * B | * eNA | * withdrawn |
| * C3-202227 | * Nnwdaf\_AnalyticsInfo API, Updates to Service Experience | * Ericsson | * 29.520 | * 0164 | * - | * Rel-16 | * B | * eNA | * postponed |
| * C3-202510 | * Nnwdaf\_AnalyticsInfo API, Updates to Service Experience | * Ericsson | * 29.520 | * 0164 | * 1 | * Rel-16 | * B | * eNA | * withdrawn |
| * C3-202228 | * Correction to Service Description | * Ericsson | * 29.520 | * 0165 | * - | * Rel-16 | * F | * eNA | * revised |
| * C3-202387 | * Correction to Service Description | * Ericsson | * 29.520 | * 0165 | * 1 | * Rel-16 | * F | * eNA | * agreed |
| * C3-202229 | * Correction to description of consumer functionalities | * Ericsson | * 29.520 | * 0166 | * - | * Rel-16 | * F | * eNA | * revised |
| * C3-202378 | * Correction to description of consumer functionalities | * Ericsson, China Telecom, Huawei | * 29.520 | * 0166 | * 1 | * Rel-16 | * F | * eNA | * agreed |
| * C3-202230 | * Correction to variance of Start time in UE Communication | * Ericsson | * 29.520 | * 0167 | * - | * Rel-16 | * F | * eNA | * revised |
| * C3-202388 | * Correction to variance of Start time in UE Communication | * Ericsson | * 29.520 | * 0167 | * 1 | * Rel-16 | * F | * eNA | * agreed |
| * C3-202287 | * Correct supported feature in AnalyticsData | * Ericsson | * 29.520 | * 0168 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * revised |
| * C3-202478 | * Correct supported feature in AnalyticsData | * Ericsson | * 29.520 | * 0168 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-202299 | * Correct supported feature in AnalyticsData | * Ericsson | * 29.520 | * 0169 | * - | * Rel-16 | * B | * eNA | * revised |
| * C3-202392 | * Correct supported feature in AnalyticsData | * Ericsson | * 29.520 | * 0169 | * 1 | * Rel-16 | * B | * eNA | * agreed |
| * C3-202300 | * Clarify service experience data | * Ericsson | * 29.520 | * 0170 | * - | * Rel-16 | * F | * eNA | * agreed |
| * C3-202301 | * Correct threshold | * Ericsson | * 29.520 | * 0171 | * - | * Rel-16 | * F | * eNA | * agreed |
| * C3-202302 | * Resource type in QoS requirement | * Ericsson | * 29.520 | * 0172 | * - | * Rel-16 | * F | * eNA | * revised |
| * C3-202383 | * Resource type in QoS requirement | * Ericsson, Huawei | * 29.520 | * 0172 | * 1 | * Rel-16 | * F | * eNA | * agreed |
| * C3-202321 | * Storage of YAML files in ETSI Forge | * Ericsson | * 29.520 | * 0173 | * - | * Rel-16 | * F | * SBIProtoc16 | * revised |
| * C3-202412 | * Storage of YAML files in ETSI Forge | * Ericsson | * 29.520 | * 0173 | * 1 | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-202045 | * Corrections on SamePcf | * ZTE | * 29.521 | * 0066 | * - | * Rel-16 | * F | * en5GPccSer | * revised |
| * C3-202429 | * Corrections on SamePcf | * ZTE | * 29.521 | * 0066 | * 1 | * Rel-16 | * F | * en5GPccSer | * agreed |
| * C3-202050 | * Corrections related to Ueaddr | * ZTE | * 29.521 | * 0067 | * - | * Rel-16 | * F | * TEI16 | * revised |
| * C3-202440 | * Corrections related to Ueaddr | * ZTE | * 29.521 | * 0067 | * 1 | * Rel-16 | * F | * TEI16 | * agreed |
| * C3-202079 | * Level of Binding | * Huawei | * 29.521 | * 0068 | * - | * Rel-16 | * B | * 5G\_eSBA | * revised |
| * C3-202502 | * Level of Binding | * Huawei | * 29.521 | * 0068 | * 1 | * Rel-16 | * B | * 5G\_eSBA | * agreed |
| * C3-202095 | * Clarification of the DS-TT MAC address | * Huawei | * 29.521 | * 0069 | * - | * Rel-16 | * B | * Vertical\_LAN | * postponed |
| * C3-202099 | * Support of full Frame Routing feature | * Huawei | * 29.521 | * 0070 | * - | * Rel-16 | * B | * 5WWC | * revised |
| * C3-202352 | * Support of full Frame Routing feature | * Huawei | * 29.521 | * 0070 | * 1 | * Rel-16 | * B | * 5WWC | * agreed |
| * C3-202191 | * Binding information retrieval: PCF set ID and PCF instance ID | * Ericsson | * 29.521 | * 0071 | * - | * Rel-16 | * F | * 5G\_eSBA | * revised |
| * C3-202501 | * Binding information retrieval: PCF set ID and PCF instance ID | * Ericsson | * 29.521 | * 0071 | * 1 | * Rel-16 | * F | * 5G\_eSBA | * agreed |
| * C3-202288 | * Correct use of application error | * Ericsson | * 29.521 | * 0072 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * revised |
| * C3-202468 | * Correct use of application error | * Ericsson, China Mobile Communications Group Co.,Ltd. | * 29.521 | * 0072 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-202289 | * Correct use of application error | * Ericsson | * 29.521 | * 0073 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * revised |
| * C3-202469 | * Correct use of application error | * Ericsson, China Mobile Communications Group Co.,Ltd. | * 29.521 | * 0073 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-202290 | * Correct IPv6 prefix | * Ericsson | * 29.521 | * 0074 | * - | * Rel-16 | * F | * 5WWC | * revised |
| * C3-202356 | * Correct IPv6 prefix | * Ericsson, ZTE | * 29.521 | * 0074 | * 1 | * Rel-16 | * F | * 5WWC | * agreed |
| * C3-202291 | * Remove feature for IPTV data configuration | * Ericsson | * 29.521 | * 0075 | * - | * Rel-16 | * F | * 5WWC | * agreed |
| * C3-202322 | * Storage of YAML files in ETSI Forge | * Ericsson | * 29.521 | * 0076 | * - | * Rel-16 | * F | * SBIProtoc16 | * revised |
| * C3-202413 | * Storage of YAML files in ETSI Forge | * Ericsson | * 29.521 | * 0076 | * 1 | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-202328 | * Align the HTTP response code | * China Mobile Communications Group Co.,Ltd. | * 29.521 | * 0077 | * - | * Rel-15 | * F | * TEI15 | * merged |
| * C3-202329 | * Align the HTTP response code | * China Mobile Communications Group Co.,Ltd. | * 29.521 | * 0078 | * - | * Rel-16 | * A | * TEI16 | * merged |
| * C3-202173 | * Supporting the Location Services in NEF in TS 29.522 | * Datang Mobile Com. Equipment | * 29.522 | * 0139 | * 3 | * Rel-16 | * B | * 5G\_eLCS | * withdrawn |
| * C3-202175 | * Supporting the Location Services in NEF in TS 29.522 | * Datang Mobile Com. Equipment | * 29.522 | * 0139 | * 4 | * Rel-16 | * B | * 5G\_eLCS | * withdrawn |
| * C3-202017 | * Add External Group Identifier | * CATT | * 29.522 | * 0147 | * - | * Rel-16 | * B | * 5G\_CIoT | * postponed |
| * C3-202027 | * Missing mapping in the overview | * Qualcomm Incorporated | * 29.522 | * 0148 | * - | * Rel-16 | * F | * TEI16 | * revised |
| * C3-202427 | * Missing mapping in the overview | * Qualcomm Incorporated | * 29.522 | * 0148 | * 1 | * Rel-16 | * F | * RACS | * agreed |
| * C3-202046 | * Wrong datatypes Datatime and Plmn | * ZTE | * 29.522 | * 0149 | * - | * Rel-16 | * F | * eV2XARC | * revised |
| * C3-202344 | * Wrong datatypes Datatime and Plmn | * ZTE, Huawei | * 29.522 | * 0149 | * 1 | * Rel-16 | * F | * eV2XARC | * agreed |
| * C3-202051 | * Wrong datatype referred in analytics exposure procedure | * ZTE | * 29.522 | * 0150 | * - | * Rel-16 | * F | * eNA | * agreed |
| * C3-202100 | * Procedure of ACS Information Configuration | * Huawei | * 29.522 | * 0151 | * - | * Rel-16 | * B | * 5WWC | * revised |
| * C3-202484 | * Procedure of ACS Information Configuration | * Huawei | * 29.522 | * 0151 | * 1 | * Rel-16 | * B | * 5WWC | * agreed |
| * C3-202101 | * Resources and data types of Nnef\_ACSParameterProvision service | * Huawei | * 29.522 | * 0152 | * - | * Rel-16 | * B | * 5WWC | * revised |
| * C3-202485 | * Resources and data types of Nnef\_ACSParameterProvision service | * Huawei | * 29.522 | * 0152 | * 1 | * Rel-16 | * B | * 5WWC | * agreed |
| * C3-202102 | * OpenAPI file of Nnef\_ACSParameterProvision service | * Huawei | * 29.522 | * 0153 | * - | * Rel-16 | * B | * 5WWC | * revised |
| * C3-202486 | * OpenAPI file of Nnef\_ACSParameterProvision service | * Huawei | * 29.522 | * 0153 | * 1 | * Rel-16 | * B | * 5WWC | * agreed |
| * C3-202104 | * Some corrections to ServiceParameter API | * Huawei | * 29.522 | * 0154 | * - | * Rel-16 | * B | * eV2XARC | * revised |
| * C3-202482 | * Some corrections to ServiceParameter API | * Huawei | * 29.522 | * 0154 | * 1 | * Rel-16 | * B | * eV2XARC | * agreed |
| * C3-202105 | * Update of ParameterOverUu data type | * Huawei | * 29.522 | * 0155 | * - | * Rel-16 | * B | * eV2XARC | * revised |
| * C3-202483 | * Update of ParameterOverUu data type | * Huawei | * 29.522 | * 0155 | * 1 | * Rel-16 | * B | * eV2XARC | * agreed |
| * C3-202106 | * Update of ServiceParameterDataPatch | * Huawei | * 29.522 | * 0156 | * - | * Rel-16 | * B | * eV2XARC | * revised |
| * C3-202346 | * Update of ServiceParameterDataPatch | * Huawei | * 29.522 | * 0156 | * 1 | * Rel-16 | * B | * eV2XARC | * agreed |
| * C3-202128 | * Data type for PLMN | * Huawei | * 29.522 | * 0157 | * - | * Rel-16 | * F | * eV2XARC | * merged |
| * C3-202133 | * Loss of connectivity reason | * Huawei | * 29.522 | * 0158 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * postponed |
| * C3-202134 | * Loss of connectivity reason | * Huawei | * 29.522 | * 0159 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * revised |
| * C3-202446 | * Loss of connectivity reason | * Huawei | * 29.522 | * 0159 | * 1 | * Rel-16 | * A | * eNAPIs | * agreed |
| * C3-202138 | * Allow IP address prefix as one of Individual UE information | * Huawei | * 29.522 | * 0160 | * - | * Rel-16 | * F | * eNAPIs | * postponed |
| * C3-202139 | * Any UE clarification | * Huawei | * 29.522 | * 0161 | * - | * Rel-16 | * F | * eNAPIs | * revised |
| * C3-202424 | * Any UE clarification | * Huawei | * 29.522 | * 0161 | * 1 | * Rel-16 | * F | * eNAPIs | * agreed |
| * C3-202150 | * Correction to 5GLANParameterProvision API | * Huawei | * 29.522 | * 0162 | * - | * Rel-16 | * F | * Vertical\_LAN | * revised |
| * C3-202400 | * Correction to 5GLANParameterProvision API | * Huawei | * 29.522 | * 0162 | * 1 | * Rel-16 | * F | * Vertical\_LAN | * agreed |
| * C3-202153 | * Correction to IPTVConfiguration API | * Huawei | * 29.522 | * 0163 | * - | * Rel-16 | * F | * 5WWC | * revised |
| * C3-202487 | * Correction to IPTVConfiguration API | * Huawei | * 29.522 | * 0163 | * 1 | * Rel-16 | * F | * 5WWC | * agreed |
| * C3-202155 | * Correction to ApplyingBdtPolicy API | * Huawei | * 29.522 | * 0164 | * - | * Rel-16 | * F | * xBDT | * revised |
| * C3-202421 | * Correction to ApplyingBdtPolicy API | * Huawei | * 29.522 | * 0164 | * 1 | * Rel-16 | * F | * xBDT | * agreed |
| * C3-202166 | * Open issue for 5GLanParametersProvisionPatch | * Huawei | * 29.522 | * 0165 | * - | * Rel-16 | * F | * Vertical\_LAN | * revised |
| * C3-202401 | * Open issue for 5GLanParametersProvisionPatch | * Huawei | * 29.522 | * 0165 | * 1 | * Rel-16 | * F | * Vertical\_LAN | * agreed |
| * C3-202174 | * Supporting the Location Services in NEF in TS 29.522 | * Datang Mobile Com. Equipment | * 29.522 | * 0166 | * - | * Rel-16 | * B | * 5G\_eLCS | * withdrawn |
| * C3-202176 | * Supporting the Location Services in NEF in TS 29.522 | * CATT | * 29.522 | * 0167 | * - | * Rel-16 | * B | * 5G\_eLCS | * revised |
| * C3-202517 | * Supporting the Location Services in NEF in TS 29.522 | * CATT | * 29.522 | * 0167 | * 1 | * Rel-16 | * B | * 5G\_eLCS | * agreed |
| * C3-202183 | * Periodic reporting by Nnef | * Huawei | * 29.522 | * 0168 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * not pursued |
| * C3-202184 | * Periodic reporting by Nnef | * Huawei | * 29.522 | * 0169 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * revised |
| * C3-202445 | * Periodic reporting by Nnef | * Huawei | * 29.522 | * 0169 | * 1 | * Rel-16 | * A | * eNAPIs | * agreed |
| * C3-202236 | * Clarify nullable attributes used in PATCH | * Ericsson | * 29.522 | * 0170 | * - | * Rel-16 | * F | * Vertical\_LAN | * revised |
| * C3-202402 | * Clarify nullable attributes used in PATCH | * Ericsson | * 29.522 | * 0170 | * 1 | * Rel-16 | * F | * Vertical\_LAN | * agreed |
| * C3-202323 | * Storage of YAML files in ETSI Forge | * Ericsson | * 29.522 | * 0171 | * - | * Rel-16 | * F | * SBIProtoc16 | * revised |
| * C3-202414 | * Storage of YAML files in ETSI Forge | * Ericsson | * 29.522 | * 0171 | * 1 | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-202214 | * Adding support of NID | * Ericsson | * 29.523 | * 0019 | * - | * Rel-16 | * B | * Vertical\_LAN | * agreed |
| * C3-202255 | * Access Type Report for a MA PDU session | * Ericsson | * 29.523 | * 0020 | * - | * Rel-16 | * B | * ATSSS | * revised |
| * C3-202514 | * Access Type Report for a MA PDU session | * Ericsson | * 29.523 | * 0020 | * 1 | * Rel-16 | * B | * ATSSS | * agreed |
| * C3-202268 | * Storage of YAML files in ETSI Forge | * Ericsson | * 29.523 | * 0021 | * - | * Rel-16 | * F | * SBIProtoc16 | * revised |
| * C3-202405 | * Storage of YAML files in ETSI Forge | * Ericsson | * 29.523 | * 0021 | * 1 | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-202057 | * Location header of 307 status code | * Huawei | * 29.525 | * 0079 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * revised |
| * C3-202470 | * Location header of 307 status code | * Huawei | * 29.525 | * 0079 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-202058 | * Location header of 307 status code | * Huawei | * 29.525 | * 0080 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * revised |
| * C3-202471 | * Location header of 307 status code | * Huawei | * 29.525 | * 0080 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-202065 | * Notification URI | * Huawei | * 29.525 | * 0081 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * revised |
| * C3-202472 | * Notification URI | * Huawei | * 29.525 | * 0081 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-202066 | * Notification URI | * Huawei | * 29.525 | * 0082 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * revised |
| * C3-202473 | * Notification URI | * Huawei | * 29.525 | * 0082 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-202078 | * FQDN of alternative AMF | * Huawei | * 29.525 | * 0083 | * - | * Rel-16 | * B | * en5GPccSer | * agreed |
| * C3-202187 | * Description of scopes field and presenceStatus attribute | * Ericsson | * 29.525 | * 0084 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-202188 | * Description of scopes field and presenceStatus attribute | * Ericsson | * 29.525 | * 0085 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-202198 | * Removal of MAC address | * Ericsson | * 29.525 | * 0086 | * - | * Rel-16 | * F | * 5WWC | * agreed |
| * C3-202210 | * Removal of unbreakable spaces | * Ericsson | * 29.525 | * 0087 | * - | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-202251 | * Untrusted FN-RG PEI | * Ericsson | * 29.525 | * 0088 | * - | * Rel-16 | * B | * 5WWC | * revised |
| * C3-202490 | * Untrusted FN-RG PEI | * Ericsson | * 29.525 | * 0088 | * 1 | * Rel-16 | * B | * 5WWC | * agreed |
| * C3-202324 | * Storage of YAML files in ETSI Forge | * Ericsson | * 29.525 | * 0089 | * - | * Rel-16 | * F | * SBIProtoc16 | * revised |
| * C3-202415 | * Storage of YAML files in ETSI Forge | * Ericsson | * 29.525 | * 0089 | * 1 | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-202204 | * Non-unique operation identifiers | * Ericsson | * 29.551 | * 0028 | * - | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-202325 | * Storage of YAML files in ETSI Forge | * Ericsson | * 29.551 | * 0029 | * - | * Rel-16 | * F | * SBIProtoc16 | * revised |
| * C3-202416 | * Storage of YAML files in ETSI Forge | * Ericsson | * 29.551 | * 0029 | * 1 | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-202212 | * Removal of not valid BDT policy from UDR | * Ericsson | * 29.554 | * 0040 | * - | * Rel-16 | * F | * eNA | * postponed |
| * C3-202215 | * Storage of YAML files in ETSI Forge | * Ericsson | * 29.554 | * 0041 | * - | * Rel-16 | * F | * SBIProtoc16 | * revised |
| * C3-202403 | * Storage of YAML files in ETSI Forge | * Ericsson | * 29.554 | * 0041 | * 1 | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-202276 | * Correct access challenge | * Ericsson | * 29.561 | * 0026 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * revised |
| * C3-202479 | * Correct access challenge | * Ericsson | * 29.561 | * 0026 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-202277 | * Correct access challenge | * Ericsson | * 29.561 | * 0027 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * revised |
| * C3-202480 | * Correct access challenge | * Ericsson | * 29.561 | * 0027 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-202307 | * Support secondary RAT data usage report | * Ericsson | * 29.561 | * 0028 | * - | * Rel-16 | * B | * TEI16, 5GS\_Ph1-CT | * agreed |
| * C3-202309 | * Add NR-U RAT type | * Ericsson | * 29.561 | * 0029 | * - | * Rel-16 | * B | * TEI16, 5GS\_Ph1-CT | * not pursued |
| * C3-202125 | * Correction on resource usage | * Huawei | * 29.591 | * 0001 | * - | * Rel-16 | * F | * eNA | * agreed |
| * C3-202126 | * Data type used during event subscription | * Huawei | * 29.591 | * 0002 | * - | * Rel-16 | * F | * eNA | * agreed |
| * C3-202135 | * Nnef\_EventExposure\_Subscribe for I-NEF event exposure | * Huawei | * 29.591 | * 0003 | * - | * Rel-16 | * F | * 5G\_CIoT | * postponed |
| * C3-202136 | * Nnef\_EventExposure\_Notify for I-NEF event exposure | * Huawei | * 29.591 | * 0004 | * - | * Rel-16 | * F | * 5G\_CIoT | * postponed |
| * C3-202137 | * OpenAPI update for I-NEF event exposure | * Huawei | * 29.591 | * 0005 | * - | * Rel-16 | * F | * 5G\_CIoT | * postponed |
| * C3-202161 | * I-NEF interworking | * Nokia, Nokia Shanghai Bell | * 29.591 | * 0006 | * - | * Rel-16 | * B | * 5G\_CIoT | * postponed |
| * C3-202233 | * Correction to service operation description | * Ericsson | * 29.591 | * 0007 | * - | * Rel-16 | * F | * eNA | * revised |
| * C3-202391 | * Correction to service operation description | * Ericsson | * 29.591 | * 0007 | * 1 | * Rel-16 | * F | * eNA | * agreed |
| * C3-202326 | * Storage of YAML files in ETSI Forge | * Ericsson | * 29.591 | * 0008 | * - | * Rel-16 | * F | * SBIProtoc16 | * revised |
| * C3-202417 | * Storage of YAML files in ETSI Forge | * Ericsson | * 29.591 | * 0008 | * 1 | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-202189 | * Description of "activationTime" attribute | * Ericsson | * 29.594 | * 0046 | * - | * Rel-16 | * F | * en5GPccSer | * agreed |
| * C3-202190 | * Miscellaneous corrections | * Ericsson | * 29.594 | * 0047 | * - | * Rel-16 | * F | * en5GPccSer | * agreed |
| * C3-202327 | * Storage of YAML files in ETSI Forge | * Ericsson | * 29.594 | * 0048 | * - | * Rel-16 | * F | * SBIProtoc16 | * revised |
| * C3-202418 | * Storage of YAML files in ETSI Forge | * Ericsson | * 29.594 | * 0048 | * 1 | * Rel-16 | * F | * SBIProtoc16 | * agreed |
| * C3-202168 | * Addition of IMEI-TAC values for RACS operations | * Qualcomm Incorporated, Ericsson | * 29.675 | * 0001 | * - | * Rel-16 | * F | * RACS | * revised |
| * C3-202495 | * Addition of IMEI-TAC values for RACS operations | * Qualcomm Incorporated, Ericsson | * 29.675 | * 0001 | * 1 | * Rel-16 | * F | * RACS | * revised |
| * C3-202523 | * Addition of IMEI-TAC values for RACS operations | * Qualcomm Incorporated, Ericsson | * 29.675 | * 0001 | * 2 | * Rel-16 | * F | * RACS | * agreed |
| * C3-202169 | * Update to UE radio capability information data type | * Qualcomm Incorporated, Nokia, Samsung, Vodafone | * 29.675 | * 0002 | * - | * Rel-16 | * F | * RACS | * revised |
| * C3-202496 | * Update to UE radio capability information data type | * Qualcomm Incorporated, Nokia, Samsung, Vodafone, Ericsson | * 29.675 | * 0002 | * 1 | * Rel-16 | * F | * RACS | * agreed |
| * C3-202203 | * Correcting errors in clause 5.6 | * Ericsson | * 29.675 | * 0003 | * - | * Rel-16 | * F | * RACS | * agreed |
| * C3-202313 | * Storage of YAML files in ETSI Forge | * Ericsson | * 29.675 | * 0004 | * - | * Rel-16 | * F | * SBIProtoc16 | * revised |
| * C3-202406 | * Storage of YAML files in ETSI Forge | * Ericsson | * 29.675 | * 0004 | * 1 | * Rel-16 | * F | * SBIProtoc16 | * agreed |

## Annex C: Lists of liaisons

### C1: Incoming liaison statements

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Original | Title | From | Decision | Reply TDoc |
| * C3-202029 |  | * Reply LS on supporting simultaneous online and offline reporting level access | * SA2 | * noted | * (none) |
| * C3-202030 |  | * LS on Group Message Delivery | * SA4 | * postponed | * (none) |
| * C3-202031 |  | * LS on updates to CHEM feature and use of Application Layer Redundancy | * SA4 | * replied to | * C3-202505 |
| * C3-202032 |  | * LS on HLS and Hybrid DASH/HLS Service in MBMS | * SA4 | * postponed | * (none) |
| * C3-202033 |  | * LS Reply to LS Reply to LS to SA2 Introduction of CHF Address from PCF | * SA5 | * postponed | * (none) |
| * C3-202034 |  | * LS reply on Reply LS on supporting simultaneous online and offline reporting level access | * SA5 | * noted | * (none) |
| * C3-202146 |  | * Reply LS on QoS mapping procedure | * SA4 | * postponed | * (none) |
| * C3-202360 |  | * LS/o on ongoing work within ITU-T Study Group 3 (SG3) on new Technical Report on “IMT2020-Related Policy Considering MVNOs” | * ITU-T WP 2/3 | * noted | * (none) |

### C2: Outgoing liaison statements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Document | Title | To | Cc | reply to i/c LS |
| * C3-202347 | * LS on subscription to V2X services | * SA2 | * CT4 | * - |
| * C3-202350 | * LS on Clarification of Support of Frame Routing Feature | * SA2 | * CT4 |  |
| * C3-202420 | * LS on Network Area Information in BDT Policy | * SA2 | * - |  |
| * C3-202441 | * LS on location reporting triggers | * SA6 | * - | * - |
| * C3-202505 | * Reply LS on updates to CHEM feature and use of Application Layer Redundancy | * SA4 | * - | * C3-202031 |
| * C3-202507 | * LS on Clarification on eNA | * SA2 | * - |  |
| * C3-202512 | * LS on Access Type Report for a MA PDU session | * SA2 | * - |  |
| * C3-202515 | * LS on clarification on TSN for Vertical\_LAN | * SA2 | * - |  |

## Annex D: List of agreed/approved new and revised Work Items

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Title | Source | new/revised |

## Annex E: List of draft Technical Specifications and Reports

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Spec | vers | Doc title |
| * C3-202444 | * 29.549 | * 1.2.0 | * TS 29.549 V1.2.0 |

## 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) |
| * AL-BAKRI, Ban | * DOCOMO Communications Lab. | * 3GPPMEMBER (ETSI) |
| * ANTSEV, Boris | * T-Mobile USA Inc. | * 3GPPMEMBER (ATIS) |
| * ARAI, KENJIRO | * NTT | * 3GPPMEMBER (TTC) |
| * ASKERUP, Anders | * Hewlett-Packard Enterprise | * 3GPPMEMBER (ETSI) |
| * ASSALI, Tarek | * Oracle Corporation | * 3GPPMEMBER (ETSI) |
| * ATARIUS, Roozbeh | * Motorola Mobility UK Ltd. | * 3GPPMEMBER (ETSI) |
| * AXELL, Jörgen | * Ericsson-LG Co., LTD | * 3GPPMEMBER (TTA) |
| * BABOESCU, Florin | * BROADCOM CORPORATION | * 3GPPMEMBER (ETSI) |
| * BAO, Chenxi | * CATT | * 3GPPMEMBER (ETSI) |
| * BIONDIC, Nevenka | * Ericsson GmbH, Eurolab | * 3GPPMEMBER (ETSI) |
| * BRINKMANN, Horst | * Nokia Germany | * 3GPPMEMBER (ETSI) |
| * CHENXU, XU | * China Mobile (Hangzhou) Inf. | * 3GPPMEMBER (CCSA) |
| * DAWES, Peter | * VODAFONE Group Plc | * 3GPPMEMBER (ETSI) |
| * EITOKU, haruka | * NTT corporation | * 3GPPMEMBER (ETSI) |
| * EL MOATAMID, Abdessamad | * Orange Romania | * 3GPPMEMBER (ETSI) |
| * FEDER, Peretz | * Spirent Communications | * 3GPPMEMBER (ETSI) |
| * FERNANDEZ, Susana | * Ericsson LM | * 3GPPMEMBER (ETSI) |
| * GARCIA AZORERO, Fuencisla | * Ericsson Telecomunicazioni SpA | * 3GPPMEMBER (ETSI) |
| * GULBANI, Giorgi | * Huawei Tech.(UK) Co., Ltd | * 3GPPMEMBER (ETSI) |
| * GUPTA, Varini | * SAMSUNG R&D INSTITUTE JAPAN | * 3GPPMEMBER (ARIB) |
| * HERRERO-VERON, Christian | * Huawei Technologies R&D UK | * 3GPPMEMBER (ETSI) |
| * HIKOSAKA, Maoki | * NTT DOCOMO INC. | * 3GPPMEMBER (TTC) |
| * HUANG, Zhenning | * China Mobile Group Device Co. | * 3GPPMEMBER (CCSA) |
| * INOUE, Yoshihiro | * NTT | * 3GPPMEMBER (TTC) |
| * ISHIKAWA, Hiroshi | * NTT DOCOMO INC. | * 3GPPMEMBER (ARIB) |
| * JING, Hao | * ETSI | * 3GPPORG\_REP (ETSI) |
| * KAURA, Ricky | * Samsung Electronics Polska | * 3GPPMEMBER (ETSI) |
| * KOZA, Yvette | * T-Mobile Polska S.A. | * 3GPPMEMBER (ETSI) |
| * KREIPL, Michael | * Telekom Deutschland GmbH | * 3GPPMEMBER (ETSI) |
| * KRISHAN, Rajiv | * Oracle Corporation | * 3GPPMEMBER (ETSI) |
| * LAUSTER, Reinhard | * Deutsche Telekom AG | * 3GPPMEMBER (ETSI) |
| * LAVASANI, Shahab | * Huawei Technologies Sweden AB | * 3GPPMEMBER (ETSI) |
| * LEE, Jay | * Verizon UK Ltd | * 3GPPMEMBER (ETSI) |
| * LI, Zhijun | * ZONSON | * 3GPPMEMBER (CCSA) |
| * LIANG, Tianmei | * Ericsson India Private Limited | * 3GPPMEMBER (TSDSI) |
| * LIU, Liu | * China Telecommunications | * 3GPPMEMBER (ETSI) |
| * LIU, Qingfen | * HUAWEI Technologies Japan K.K. | * 3GPPMEMBER (ARIB) |
| * MCKIBBEN, Bernard | * CableLabs | * 3GPPMEMBER (ETSI) |
| * MELLIES, Renaud | * Orange Spain | * 3GPPMEMBER (ETSI) |
| * MOHAJERI, Shahram | * AT&T GNS Belgium SPRL | * 3GPPMEMBER (ETSI) |
| * MONNES, Peter | * Perspecta Labs Inc. | * 3GPPMEMBER (ATIS) |
| * MONRAD, Atle | * InterDigital, Europe, Ltd. | * 3GPPMEMBER (ETSI) |
| * MORAND, Lionel | * Orange | * 3GPPMEMBER (ETSI) |
| * NAIK, Rohit | * MediaTek Inc. | * 3GPPMEMBER (ETSI) |
| * RV, ANIKETHAN | * Samsung Electronics Czech | * 3GPPMEMBER (ETSI) |
| * SAHIN, Yildirim | * Charter Communications, Inc | * 3GPPMEMBER (ATIS) |
| * SEDLACEK, Ivo | * Ericsson Limited | * 3GPPMEMBER (ETSI) |
| * SHEKHAR, Ravi | * Cisco Systems | * 3GPPMEMBER (ATIS) |
| * SHUZHEN, Chen | * China Telecom Corporation Ltd. | * 3GPPMEMBER (CCSA) |
| * SKROCKI, Mariusz | * Orange Spain | * 3GPPMEMBER (ETSI) |
| * SRIVASTAVA, Vimal | * Cisco Systems France | * 3GPPMEMBER (ETSI) |
| * SUH, Kyungjoo Grace | * Samsung R&D Institute UK | * 3GPPMEMBER (ETSI) |
| * SUN, Yue | * China Telecomunication Corp. | * 3GPPMEMBER (CCSA) |
| * TAKAKURA, Tsuyoshi | * NEC Corporation | * 3GPPMEMBER (ARIB) |
| * TANGUDU, Narendranath Durga | * Samsung Electronics France SA | * 3GPPMEMBER (ETSI) |
| * WATFA, Mahmoud | * BEIJING SAMSUNG TELECOM R&D | * 3GPPMEMBER (CCSA) |
| * WEAVER, Farni | * T-Mobile USA Inc. | * 3GPPMEMBER (ATIS) |
| * WEI, haitao | * Huawei Technologies (Korea) | * 3GPPMEMBER (TTA) |
| * XU, Wenliang | * Ericsson Japan K.K. | * 3GPPMEMBER (ARIB) |
| * YAMAKITA, Takayuki | * Oki Electric Industry Co. Ltd. | * 3GPPMEMBER (TTC) |
| * YAN, Xiaojian | * ZXNE | * 3GPPMEMBER (CCSA) |
| * YAN, Yali | * Huawei Tech.(UK) Co., Ltd | * 3GPPMEMBER (ETSI) |
| * YONG, Jiang | * Datang Mobile Com. Equipment | * 3GPPMEMBER (CCSA) |
| * ZHOU, Xiaoyun | * HuaWei Technologies Co., Ltd | * 3GPPMEMBER (CCSA) |
| * ZIA, Waqar | * Qualcomm Technologies Int | * 3GPPMEMBER (ETSI) |

## Annex I: List of future meetings

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Title | Start date | End date (OP) | Town | Country | Reference |
| * CT3#110e | * 2020-06-02 | * 2020-06-11 | * Oline |  | * C3-110e |
| * CT3#111 | * 2020-08-24 | * 2020-08-28 | * US | * US | * C3-111 |
| * CT3#112 | * 2020-10-12 | * 2020-10-16 | * India | * IN | * C3-112 |
| * CT3#113 | * 2020-11-16 | * 2020-11-20 | * US | * US | * C3-113 |
| * CT3#113-BIS | * 2021-01-25 | * 2021-01-29 | * TBD |  | * C3-ah-37534 |
| * CT3#114 | * 2021-03-01 | * 2021-03-05 | * TBD |  | * C3-114 |
| * CT3#115 | * 2021-04-19 | * 2021-04-23 | * EU | * EU | * C3-115 |
| * CT3#116 | * 2021-05-24 | * 2021-05-28 | * TBD |  | * C3-116 |
| * 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 | * EU | * EU | * C3-118 |
| * CT3#119 | * 2021-11-15 | * 2021-11-19 | * TBD |  | * C3-119 |

Annexes to report prepared by: Hao Jing