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

**Meeting Report  
for  
TSG CT WG3  
meeting: 111e**

**e-meeting, e-meeting, 2020-08-19 to 2020-08-28**

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## 1 Opening of the meeting

## 2 Agenda/Schedule

**C3-204016 Way of Working for CT3#111e Electronic Meeting**

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

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

### 2.1 Approval of the agenda

**C3-204000 Draft Agenda for the CT3#111 e-Meeting**

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

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

### 2.2 Proposed Schedule

**C3-204001 INFO Proposed Schedule for CT3#111e**

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

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

## 3 Registration of documents

**C3-204002 Allocation of documents to agenda items (at Deadline)**

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

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

**C3-204003 Allocation of documents to agenda items (Start of Day 1)**

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

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

**C3-204004 Allocation of documents to agenda items (Start of Day 2)**

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

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

**C3-204005 Allocation of documents to agenda items (Start of Day 3)**

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

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

**C3-204006 Allocation of documents to agenda items (Start of Day 4)**

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

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

**C3-204007 Allocation of documents to agenda items (Start of Day 5)**

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

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

**C3-204008 Allocation of documents to agenda items (Start of Day 6)**

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

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

**C3-204009 Allocation of documents to agenda items (Start of Day 7)**

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

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

**C3-204010 Allocation of documents to agenda items (Start of Day 8)**

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

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

**C3-204011 Allocation of documents to agenda items (End of Day 8)**

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

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

**C3-204401 Allocation of documents to agenda items after email approval**

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

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

## 4 Reports

### 4.1 Report from previous CT3 meeting

**C3-204013 Minutes of CT3#110e**

*Type: report For: Approval  
 Source: MCC*

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

### 4.2 Report from previous CT plenary

**C3-204024 Summary of CT#88e related to CT3**

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

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

### 4.3 Reports from other groups

## 5 Items for immediate consideration

### 5.1 IPR disclosures

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

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

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

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

### 5.2 Antitrust declarations

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

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

### 5.4 Other items for immediate consideration

Delegates were reminded of the fair network use rules established by the PCG:

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

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

## 6 Received Liaison Statements

**C3-204018 5G-ACIA\_ LS\_3GPP\_Exposure\_29062020**

*Type: LS in For: Discussion  
 Original outgoing LS: -, to 3GPP TSG SA, cc 3GPP SA WG1, 3GPP SA WG2, 3GPP SA WG3,*

*3GPP SA WG5, 3GPP SA WG6, 3GPP CT WG3, IEC TC 65, oneM2M TP, OPC Foundation, PI, IEEE TSN, TM Forum, ETG  
 Source: 5G-ACIA*

**Discussion:**

5G-ACIA believes the service exposure requirements derived from the operational use cases that are needed by factory operators to manage and maintain 5G-enabled devices and 5G Non-Public Networks (NPN) in a simple and efficient manner are valuable input for upcoming contributions addressing ongoing work in 3GPP, such as the study items documented in TR 23.700 and TR 23.745. These requirements have been published in the 5G-ACIA white paper Exposure of 5G capabilities for connected industries and automation applications (www.5g-acia.org/publications).

5G-ACIA would be eager to receive 3GPP’s feedback on these new exposure interface requirements and related Stage-2 and Stage-3 work.

5G-ACIA requests 3GPP SA to consider the content of the white paper and advice any related 3GPP WG on needed study items or actions and provide feedback to 5G-ACIA on planned activities.

Action proposed by Chair:

The LS is addressed to SA and may have implications in the CT3 work based on the required actions to cover the service exposure requirements.

Wait for the SA response and further actions in stage 2. No immediate action required. The LS can be NOTED.

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

**C3-204019 LS on Bulk operation of LCS-service**

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

**Discussion:**

CT4 asks SA2:

1. When using Service Based Interface (SBI), which node is expected to be the aggregation point of Bulk Operation of LCS Service, i.e. the node who resolves the group identifier to member UEs and aggregate the location requests and responses for each UE in the group, NEF or GMLC or both?

2. If the GMLC is expected to be the aggregation point of Bulk Operation of LCS Service, what should the GMLC respond for a request of bulk operation, especially for 5GC\_MT\_LR procedure?

3. If used as aggregation point, when does the GMLC / NEF acknowledge the request for Bulk Operation, i.e. does it respond the LCS client / AF after it received all positioning responses from network side for all UEs in the group or respond without AMF checking?

4. If GMLC / NEF responds the LCS client / AF immediately, based on what criterion does the GMLC / NEF decide to respond success or failure or partial success? And How should GMLC / NEF to notify the LCS Client / AF if the requests for positioning for some UEs fail because of some different reasons (e.g. The UE is not online) after GMLC / NEF responded success to LCS client / AF?

Action proposed by Chair:

The LS is addressed to SA2 and may have implications in the CT3 based on the reply. Wait for SA2 reply to check if CT3 is impacted.

No immediate action is required. The LS can be NOTED.

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

**C3-204020 LS reply on RACS multiple radio capability formats**

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

**Discussion:**

RAN3 has agreed to introduce the support for multiple coding formats from the RAN node to the CN node over S1 and NG interfaces (as indicated by the SA2 LS).

Action proposed by Chair:

Discuss the LS.

Ask CT3 whether there is any additional impact in CT3 interfaces based on the introduction of these multiple coding formats between RAN & CN.

Nokia: The capability formats were introduced with C3-203508 last meeting. The LS can be noted.

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

**C3-204021 LS on Media Feature Tag for IMS Data Channel**

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

**Discussion:**

SA4 would like to inform CT1 and CT3 that SA4 discovered that it is ambiguous what streaming media feature tag to use for the recently introduced IMS data channel media in MTSI.

Due to this ambiguity in the IMS data channel media feature tag value and media-agnostic handling of media feature tags in TS 24.229, SA4 has chosen to amend the IMS data channel media handling specification in TS 26.114 to specify what media feature tag value to use for IMS data channel media (see attache CR 26.114).

SA4 asks CT1 and CT3 to consider the above and inform SA4:

1. Whether the media feature tag value specified in TS 26.114 for IMS data channel media is sufficient.

2. Whether any CT1 and CT3 specifications need to be updated.

Action proposed by Chair:

Discuss possible replies to these two questions.

Nokia: The LS was postponed from last meeting. There is no change in the meantime. Ericsson already propose an answer in C3-204168, with which I agree. This LS IN C3-204021 can be noted

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

**C3-204022 LIAISE-411 Completion of WT-456 and WT-470**

*Type: LS in For: Discussion  
 Original outgoing LS: -, to SA2, SA3, SA5, CT1, CT3, CT4, RAN3, cc -  
 Source: Broadband Forum*

**Discussion:**

Broadband Forum is pleased to attach the finalized versions of WT-456 “AGF Requirements” and WT-470 “5G WWC Architecture”.

Review and comments are welcome, although any modifications to the document will not appear until the next revision.

These two documents are part of the phase 1 of BBF WWC work, which is also expected to include updates to TR-124 (Functional Requirements for Broadband Residential Gateway Devices) and TR-181 (Device Data Model for TR-069) – these two specifications have started finalization process with comment resolution to take place at our Q3 meeting.

We have a number of functional extensions and refinements to the WWC work planned for the remainder of the year and beyond, including some FFS items present in the attached WT documents.

Action proposed by Chair:

Ask the WG if there are comments to the attached documents to be provided.

CT3 does not plan to comment on the documents.

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

**C3-204023 Reply LS on location reporting triggers**

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

**Discussion:**

The following is the response to the questions from CT3:

Q1: If the VAL server has configured the reporting event triggers to the location management server, can the VAL server update the configuration information later, e.g. extend Triggering criteria?

SA6: Yes, VALserver/Location Management Client can update the configuration information at the location management server at any time.

Q2: If the VAL server has configured the reporting event triggers to the location management server, can the VAL server cancel the configurations at a later time?

SA6: Yes, VAL server/Location Management Client can cancel the configuration information it has provided at the location management server at any time.

SA6 has taken note on the change related to Configure\_Group\_Info service operation name for SS\_GroupManagement API. It is implemented in clause 10.4.1 and clause 10.4.2.3 in TS 23.434 v16.4.0.

SA6 has agreed on the attached CR and ask CT3 and CT1 to take it into account in their work and update the related specifications.

Action proposed by Chair:

Discuss the LS and possible CRs to align with SA6 response.

CT3 is already aligned with SA6 Reply. The LS can be noted.

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

**C3-204168 LS reply on Media Feature Tag for IMS Data Channel**

*Type: LS out For: Approval  
 to SA4, cc CT1, SA2  
 Source: Ericsson*

**Discussion:**

Nokia: agrees with the LS OUT (relates to LS IN C-204021).

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

### 8.1 Release 8 IMS/CS Work Items

### 8.2 Release 8 Packet Core Work Items

### 9.1 Release 9 IMS/CS Work Items

### 9.2 Release 9 Packet Core Work Items

### 10.1 Release 10 IMS/CS Work Items

### 10.2 Release 10 Packet Core Work Items

**C3-204272 Updates to IPv6 Prefix Delegation**

*Type: CR For: Agreement  
 29.561 v16.4.0 CR-0050 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-204287**.

**C3-204273 Corrections to Delegated-IPv6-Prefix**

*Type: CR For: Agreement  
 29.061 v10.14.0 CR-0517 Cat: F (Rel-10)  
  
 Source: Ericsson*

**Discussion:**

Huawei: I agree the procedure defined in 29.061 is not consistent with the procedure defined in RFC 4818. But I can’t agree this is an essential correction. So from my point for view these CRs are not needed.

Ericsson: further consider below on this essential correction according to Specs definition, with your kind further comments

1) TS 29.061 has clear mandatory definition that Radius AAA shall be used according to RFCs including RFC 4818.

2) TS 29.061,clause 11.2.1.3.5 has below clear definition that IPv6 prefix provided from local pool is PLMN based, local pool is not defined in external PDN based IPv6 prefix allocation.

When PLMN based parameter configuration is used, the GGSN / PDN GW provides the requested IPv6 prefix from a locally provisioned pool. When external PDN based IPv6 prefix allocation is used, the GGSN / PDN GW may obtain the prefix from the external PDN as per subclauses 16.4 and 16a.4.

3) RFC 4818 I’ve checked completely also with related RFCs, with clear definition and procedures of IPv6 prefix delegation required from AAA server and has nothing to do with local pool.

4) This essential error in existing specs impacting both Wrong implementation, Wrong interworking with Radius server also Wrong Impacting Requesting Router.

Huawei:

For 1) 3GPP can make some enhancements based on the principle defined in RFC 4818.

For 2) & 3) I understand current mechanism defined in 29.061 is that when the GGSN/P-GW assign the delegated IPv6 prefix from the local pool, the GGSN/PGW sends it to the AAA. It is the same as the IPvv4 address or IPv6 prefix.

For 4) We don’t have any interworking issue based on current protocol. If the RADIUS server follows the protocol defined in 29.061, I don’t see any problem.

Ericsson:

1) 3GPP has clear definition “shall be” as mandatory requirement, which must be followed, ie. RFC 4818 shall be followed in this Spec to support interworking with Radius server.

RADIUS Accounting shall be used according to RFC 2866 [39] , RFC 3162 [50] and RFC 4818 [97].

2) TS 29.061,clause 11.2.1.3.5 has clear definition of GGSN/PGW provides requested IPv6 prefix from a locally provisioned pool is PLMN based parameter configuration, NOT the external DN based IPv6 prefix allocation.

3) 3GPP clearly defined “When external PDN based IPv6 prefix allocation is used, the PDN GW obtains the prefix from the external PDN.” That’s the CRs essential correction updated accordingly.

4) For your last comments, my perception is seems you still haven’t implement the external DN based IPv6 prefix allocation. Radius Server follows IETF specs which also defined in 3GPP shall be used.

Would you kindly support we fulfill CRs follow 3GPP including definition of RFCs ?

Huawei:

To 2) yes. So the GGSN/PGW assigns a delegated IPv6 prefix to the UE and included it in the Accounting request.

To 3) yes. So the AAA assigns a delegated IPv6 prefix to the UE and includes it in the Accounting Accept.

Ericsson: IPv6 Prefix range allocated by Operator network, can Not be mixed with external DN (e.g. external Enterprise) controlled IPv6 Prefix range and delegation procedure.

Your comments “So the GGSN/PGW assigns a delegated IPv6 prefix to the UE and included it in the Accounting request.” does Not align with 3GPP, neither follow RFCs used in 3GPP.

“the GGSN/PGW assigns a delegated IPv6 prefix to the UE” is PLMN based parameter configuration, ie. GGSN/PGW as Delegating Router assign IPv6 prefix to the UE within Operator controlled IPv6 Pool range.

Why shall the Operator network assigned IPv6 prefix range be sent to external DN Radius Server owned by e.g. external Enterprises?

Why should external DN Enterprise controlled IPv6 Prefix range which is totally different from PLMN assigned IPv6 prefix range, be wrongly delegated to operator controlled UE segment ?

Huawei: I am difficult to understand what you said. When the GGSN/PGW assigns a IPv4 address/IPv6 prefix to a UE, the GGSN/PGW provides the IPv4 address/IPv6 prefix to the external AAA before the delegated IPv6 prefix. Do you think there is any problem. I think including the delegated IPv6 prefix in the accounting request follow the same principle.

Ericsson: 1stly, please do not mix IPv4 address allocation with IPv6 Prefix Delegation, they’re different.

And Would clarify “GGSN/PGW provides the IPv4 address/IPv6 prefix to the external AAA before the delegated IPv6 prefix.”,

Do you actually mean the Framed-IP-Address/Framed-IPv6-Prefix allocated by GGSN/PGW upon PDN connection establishment? then it’s NOT Delegated-IPv6-Prefix.

TS 29.061 refer detail in TS 23.401 including RFC 3633 describes UE as Requesting Router in Solicit message with IA\_PD initiate the IPv6 Prefix Delegation request, need external DN RADIUS Server IPv6 Prefix Delegation, aligned in the CR essential correction.

Huawei: In the reason of change, you mentioned:

"It MAY appear in an Access-Request packet as a hint by the NAS to the server that it would prefer these prefix(es), but the server is not required to honor the hint" in the reference RFC 4818.

It is aligned with it when the GGSN/PGW assigns the prefix and include the request.

Ericsson: RFC3633 + RFC4818 need to be together to get the complete procedure,

Your quoted prefix is coming from UE/CPE as Requesting Router initiate in Solicit message with prefixes in the IA\_PDs as a hint to the delegating router about specific prefixes for which the requesting router has a preference, as specified in RFC3633.

Ie. Delegated-Ipv6-Prefix in Access Request send by PGW/GGSN to Radius server, is Not the PGW/GGSN delegated IPv6 Prefix from the local pool.

the UE initiated IA\_PD with Prefix preference of external DN IPv6 Prefix range in the Delegated-IPv6-Prefix is not the prefix range of PGW/GGSN allocated from the local pool.

Ericsson: Upon "the user was delegated an IPv6 prefix from a local pool by GGSN/PDN GW as the delegating router" is not the condition that Delegated IPv6 prefix shall be present.

Would you agree:

NOTE 10: Delegated IPv6 prefix shall be present if the user was delegated an IPv6 prefix from a local pool. => Delegated IPv6 prefix shall be present if IPv6 prefix delegation is required from AAA server.

Huawei: As the change is made from Rel-10 and we have not found the interoperability issue after double check with my colleague, we need more time to check.

The CR requires more time till next CT3 meeting.

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

**C3-204274 Corrections to Delegated-IPv6-Prefix**

*Type: CR For: Agreement  
 29.061 v11.12.0 CR-0518 Cat: A (Rel-11)  
  
 Source: Ericsson*

**Discussion:**

Same comments as C3-204273.

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

**C3-204275 Corrections to Delegated-IPv6-Prefix**

*Type: CR For: Agreement  
 29.061 v12.12.0 CR-0519 Cat: A (Rel-12)  
  
 Source: Ericsson*

**Discussion:**

Same comments as C3-204273.

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

**C3-204276 Corrections to Delegated-IPv6-Prefix**

*Type: CR For: Agreement  
 29.061 v13.7.0 CR-0520 Cat: A (Rel-13)  
  
 Source: Ericsson*

**Discussion:**

Same comments as C3-204273.

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

**C3-204277 Corrections to Delegated-IPv6-Prefix**

*Type: CR For: Agreement  
 29.061 v14.4.0 CR-0521 Cat: A (Rel-14)  
  
 Source: Ericsson*

**Discussion:**

Same comments as C3-204273.

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

**C3-204278 Corrections to Delegated-IPv6-Prefix**

*Type: CR For: Agreement  
 29.061 v15.6.0 CR-0522 Cat: A (Rel-15)  
  
 Source: Ericsson*

**Discussion:**

Same comments as C3-204273.

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

**C3-204279 Corrections to Delegated-IPv6-Prefix**

*Type: CR For: Agreement  
 29.061 v16.0.0 CR-0523 Cat: A (Rel-16)  
  
 Source: Ericsson*

**Discussion:**

Same comments as C3-204273.

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

### 11.1 Release 11 IMS/CS Work Items

### 11.2 Release 11 Packet Core Work Items

### 12.1 Release 12 IMS/CS Work Items

### 12.2 Release 12 Packet Core Work Items

### 13.1 Release 13 IMS/CS Work Items

**C3-204169 Support of P-Charging-Vector header field in BYE and PRACK**

*Type: CR For: Agreement  
 29.165 v13.14.0 CR-1012 Cat: F (Rel-13)  
  
 Source: Ericsson*

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

**C3-204170 Support of P-Charging-Vector header field in BYE and PRACK**

*Type: CR For: Agreement  
 29.165 v14.13.0 CR-1013 Cat: A (Rel-14)  
  
 Source: Ericsson*

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

**C3-204171 Support of P-Charging-Vector header field in BYE and PRACK**

*Type: CR For: Agreement  
 29.165 v15.10.0 CR-1014 Cat: A (Rel-15)  
  
 Source: Ericsson*

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

**C3-204172 Support of P-Charging-Vector header field in BYE and PRACK**

*Type: CR For: Agreement  
 29.165 v16.3.0 CR-1015 Cat: A (Rel-16)  
  
 Source: Ericsson*

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

### 13.2 Release 13 Packet Core Work Items

### 14.1 Release 14 IMS/CS Work Items

**C3-204047 Addition of missing capability.**

*Type: CR For: Agreement  
 29.165 v14.13.0 CR-1009 Cat: F (Rel-14)  
  
 Source: NTT corporation*

**Decision:** The document was **revised to C3-204373**.

**C3-204373 Addition of missing capability.**

*Type: CR For: Agreement  
 29.165 v14.13.0 CR-1009 rev 1 Cat: F (Rel-14)  
  
 Source: NTT corporation*

(Replaces C3-204047)

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

**C3-204054 Addition of missing capability.**

*Type: CR For: Agreement  
 29.165 v15.10.0 CR-1010 Cat: A (Rel-15)  
  
 Source: NTT corporation*

**Decision:** The document was **revised to C3-204374**.

**C3-204374 Addition of missing capability.**

*Type: CR For: Agreement  
 29.165 v15.10.0 CR-1010 rev 1 Cat: A (Rel-15)  
  
 Source: NTT corporation*

(Replaces C3-204054)

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

**C3-204057 Addition of missing capability.**

*Type: CR For: Agreement  
 29.165 v16.3.0 CR-1011 Cat: A (Rel-16)  
  
 Source: NTT corporation*

**Decision:** The document was **revised to C3-204375**.

**C3-204375 Addition of missing capability.**

*Type: CR For: Agreement  
 29.165 v16.3.0 CR-1011 rev 1 Cat: A (Rel-16)  
  
 Source: NTT corporation*

(Replaces C3-204057)

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

### 14.2 Release 14 Packet Core Work Items

**C3-204181 Correct xMB update procedure**

*Type: CR For: Agreement  
 29.116 v14.4.0 CR-0048 Cat: F (Rel-14)  
  
 Source: Ericsson*

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

**C3-204182 Correct xMB update procedure**

*Type: CR For: Agreement  
 29.116 v15.2.0 CR-0049 Cat: A (Rel-15)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-204357**.

**C3-204357 Correct xMB update procedure**

*Type: CR For: Agreement  
 29.116 v15.2.0 CR-0049 rev 1 Cat: A (Rel-15)  
  
 Source: Ericsson*

(Replaces C3-204182)

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

**C3-204183 Correct xMB update procedure**

*Type: CR For: Agreement  
 29.116 v16.5.0 CR-0050 Cat: A (Rel-16)  
  
 Source: Ericsson*

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

### 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)

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

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

**C3-204062 relIpv4Address attribute correction**

*Type: CR For: Agreement  
 29.512 v15.7.0 CR-0528 Cat: F (Rel-15)  
  
 Source: ZTE*

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

**C3-204063 relIpv4Address attribute correction**

*Type: CR For: Agreement  
 29.512 v16.5.0 CR-0529 Cat: A (Rel-16)  
  
 Source: ZTE*

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

**C3-204082 Correction to QosData**

*Type: CR For: Agreement  
 29.512 v15.7.0 CR-0530 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204358**.

**C3-204358 Correction to QosData**

*Type: CR For: Agreement  
 29.512 v15.7.0 CR-0530 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces C3-204082)

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

**C3-204083 Correction to QosData**

*Type: CR For: Agreement  
 29.512 v16.5.0 CR-0531 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204359**.

**C3-204359 Correction to QosData**

*Type: CR For: Agreement  
 29.512 v16.5.0 CR-0531 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces C3-204083)

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

**C3-204084 Correction to QoS Flow usage negotiation**

*Type: CR For: Agreement  
 29.512 v15.7.0 CR-0532 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204360**.

**C3-204360 Correction to QoS Flow usage negotiation**

*Type: CR For: Agreement  
 29.512 v15.7.0 CR-0532 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces C3-204084)

**Decision:** The document was **revised to C3-204402**.

**C3-204402 Correction to QoS Flow usage negotiation**

*Type: CR For: Agreement  
 29.512 v15.7.0 CR-0532 rev 2 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces C3-204360)

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

**C3-204085 Correction to QoS Flow usage negotiation**

*Type: CR For: Agreement  
 29.512 v16.5.0 CR-0533 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204361**.

**C3-204361 Correction to QoS Flow usage negotiation**

*Type: CR For: Agreement  
 29.512 v16.5.0 CR-0533 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces C3-204085)

**Decision:** The document was **revised to C3-204403**.

**C3-204403 Correction to QoS Flow usage negotiation**

*Type: CR For: Agreement  
 29.512 v16.5.0 CR-0533 rev 2 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces C3-204361)

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

**C3-204086 Correction to RedirectInformation**

*Type: CR For: Agreement  
 29.512 v15.7.0 CR-0534 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204362**.

**C3-204362 Correction to RedirectInformation**

*Type: CR For: Agreement  
 29.512 v15.7.0 CR-0534 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces C3-204086)

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

**C3-204087 Correction to RedirectInformation**

*Type: CR For: Agreement  
 29.512 v16.5.0 CR-0535 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204363**.

**C3-204363 Correction to RedirectInformation**

*Type: CR For: Agreement  
 29.512 v16.5.0 CR-0535 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces C3-204087)

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

**C3-204088 PRA Id transcoding**

*Type: CR For: Agreement  
 29.512 v15.7.0 CR-0536 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**C3-204089 PRA Id transcoding**

*Type: CR For: Agreement  
 29.512 v16.5.0 CR-0537 Cat: A (Rel-16)  
  
 Source: Huawei*

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

**C3-204214 Correction to ADC**

*Type: CR For: Agreement  
 29.512 v15.7.0 CR-0555 Cat: F (Rel-15)  
  
 Source: Ericsson España S.A.*

**Decision:** The document was **revised to C3-204364**.

**C3-204364 Correction to ADC**

*Type: CR For: Agreement  
 29.512 v15.7.0 CR-0555 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson España S.A.*

(Replaces C3-204214)

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

**C3-204216 Correction to ADC**

*Type: CR For: Agreement  
 29.512 v16.5.0 CR-0557 Cat: A (Rel-16)  
  
 Source: Ericsson España S.A.*

**Decision:** The document was **revised to C3-204365**.

**C3-204365 Correction to ADC**

*Type: CR For: Agreement  
 29.512 v16.5.0 CR-0557 rev 1 Cat: A (Rel-16)  
  
 Source: Ericsson España S.A.*

(Replaces C3-204216)

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

**C3-204217 Correction to ChfAddress**

*Type: CR For: Agreement  
 29.512 v15.7.0 CR-0558 Cat: F (Rel-15)  
  
 Source: Ericsson España S.A.*

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

**C3-204224 Correction to ChfAddress**

*Type: CR For: Agreement  
 29.512 v16.5.0 CR-0559 Cat: A (Rel-16)  
  
 Source: Ericsson España S.A.*

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

**C3-204225 Correction to RAN-NAS Release Cause feature**

*Type: CR For: Agreement  
 29.512 v15.7.0 CR-0560 Cat: F (Rel-15)  
  
 Source: Ericsson España S.A.*

**Decision:** The document was **revised to C3-204366**.

**C3-204366 Correction to RAN-NAS Release Cause feature**

*Type: CR For: Agreement  
 29.512 v15.7.0 CR-0560 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson España S.A.*

(Replaces C3-204225)

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

**C3-204226 Correction to RAN-NAS Release Cause feature**

*Type: CR For: Agreement  
 29.512 v16.5.0 CR-0561 Cat: A (Rel-16)  
  
 Source: Ericsson España S.A.*

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

**C3-204227 Correction for emergency sessions**

*Type: CR For: Agreement  
 29.512 v15.7.0 CR-0562 Cat: F (Rel-15)  
  
 Source: Ericsson España S.A.*

**Decision:** The document was **revised to C3-204409**.

**C3-204409 Correction for emergency sessions**

*Type: CR For: Agreement  
 29.512 v15.7.0 CR-0562 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson España S.A.*

(Replaces C3-204227)

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

**C3-204228 Correction for emergency sessions**

*Type: CR For: Agreement  
 29.512 v16.5.0 CR-0563 Cat: A (Rel-16)  
  
 Source: Ericsson España S.A.*

**Decision:** The document was **revised to C3-204410**.

**C3-204410 Correction for emergency sessions**

*Type: CR For: Agreement  
 29.512 v16.5.0 CR-0563 rev 1 Cat: A (Rel-16)  
  
 Source: Ericsson España S.A.*

(Replaces C3-204228)

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

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

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

**C3-204064 Application data change triggers PCF-initiated SM Policy Association Modification**

*Type: CR For: Agreement  
 29.513 v15.7.0 CR-0180 Cat: F (Rel-15)  
  
 Source: ZTE*

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

**C3-204065 Application data change triggers PCF-initiated SM Policy Association Modification**

*Type: CR For: Agreement  
 29.513 v16.4.0 CR-0181 Cat: A (Rel-16)  
  
 Source: ZTE*

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

**C3-204201 Corrections on AF-initiated PFD management procedure**

*Type: CR For: Agreement  
 29.513 v15.7.0 CR-0188 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204346**.

**C3-204346 Corrections on AF-initiated PFD management procedure**

*Type: CR For: Agreement  
 29.513 v15.7.0 CR-0188 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces C3-204201)

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

**C3-204202 Corrections on AF-initiated PFD management procedure**

*Type: CR For: Agreement  
 29.513 v16.4.0 CR-0189 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204347**.

**C3-204347 Corrections on AF-initiated PFD management procedure**

*Type: CR For: Agreement  
 29.513 v16.4.0 CR-0189 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces C3-204202)

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

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

**C3-204291 ResourceURI correction during subscription update**

*Type: CR For: Agreement  
 29.520 v15.6.0 CR-0219 Cat: F (Rel-15)  
  
 Source: ZTE*

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

**C3-204292 ResourceURI correction during subscription update**

*Type: CR For: Agreement  
 29.520 v16.4.0 CR-0218 Cat: A (Rel-16)  
  
 Source: ZTE*

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

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

**C3-204092 Correction to 3GPP-UE-MAC-Address**

*Type: CR For: Agreement  
 29.561 v15.4.0 CR-0039 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204348**.

**C3-204348 Correction to 3GPP-UE-MAC-Address**

*Type: CR For: Agreement  
 29.561 v15.4.0 CR-0039 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei, Ericsson*

(Replaces C3-204092)

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

**C3-204093 Correction to 3GPP-UE-MAC-Address**

*Type: CR For: Agreement  
 29.561 v16.4.0 CR-0040 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204349**.

**C3-204349 Correction to 3GPP-UE-MAC-Address**

*Type: CR For: Agreement  
 29.561 v16.4.0 CR-0040 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei, Ericsson*

(Replaces C3-204093)

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

**C3-204094 Correction on the authentication and authorization procedure**

*Type: CR For: Agreement  
 29.561 v15.4.0 CR-0041 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204398**.

**C3-204398 Correction on the authentication and authorization procedure**

*Type: CR For: Agreement  
 29.561 v15.4.0 CR-0041 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces C3-204094)

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

**C3-204095 Correction on the authentication and authorization procedure**

*Type: CR For: Agreement  
 29.561 v16.4.0 CR-0042 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204399**.

**C3-204399 Correction on the authentication and authorization procedure**

*Type: CR For: Agreement  
 29.561 v16.4.0 CR-0042 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces C3-204095)

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

**C3-204096 Correction on the Acct-Session-Id**

*Type: CR For: Agreement  
 29.561 v15.4.0 CR-0043 Cat: F (Rel-15)  
  
 Source: Huawei*

**Discussion:**

Ericsson: Acct-Session-Id shall not add QFI, upon it is still PDU Session level aligned with Charging ID.

and 3GPP-NSAPI identifies QFI already reused, could updates with 3GPP-NSAPI related description.

Huawei: 3GPP-NSAPI is an optional parameter. It can’t be used to identify the account session in any case. And it will be a big change for the SMF and AAA.

Offline discussions.

Huawei: Acct-Session-Id has been used to uniquely identifier since many many years ago. We only add the information of QFI within the Acct-Session-Id to identify the account session while the behaviors of the AAA are not changed absolutely.

If we follow your proposal, both the SMF and AAA need to be updated to apply the combination of Acct-Session-Id and 3GPP-NSAPI to identify the account session. In the case of re-authentication/authorization or disconnect request from the AAA, the 3GPP-NSAPI shall be included in the message. IMHO, it is not a good choice.

Ericsson:

Acct-Session Id adding QFI formating as “SMF IP address (IPv4 or IPv6), QFI and Charging-ID concatenated in a UTF-8 encoded hexadecimal characters.”

has below issues,

1) Not fit for all the use cases, eg. Some Operators/Enterprises Only need PDU Session level Acct-Session-Id, e.g. Only need one Accounting-Request START per PDU Session same as legacy PDN needs, some operators/enterprises Only need PDU Session level usage reporting ( not requiring per QoS Flow );

2) Extra Accounting Session Resources and Handling cost for above use cases,

3) The Definition requiring extra decoding of QFI in Acct-Session-Id, which is still not backward compatible.

Our proposal still keep Acct-Session-Id same formatting, and with existing NSAPI stand for QFI, could cater for Operators/Enterprises different use cases, avoiding above issues.

1) Only need One Accounting-Request START,

2) Only need One Accounting-Request START, and reporting PDU Session level usage with Accounting-Request Interim-Update;

3) Per QoS Flow usage reporting or QoS Flow control, Keeping the Accounting-Request START only once per Acct-Session-Id, each Accounting-Request Interim-Update including 3GPP-NSAPI for each QFI.

Huawei: on first 1) & 2) In this case, SMF can determine not to include the QFI in the Acct-Session-Id based on the SLA.

On first 3) according to current specification, the per QoS flow accounting doesn’t support. As per PDU session accounting, QFI is not included in the Acct-Session-Id, there‘s no backward incompatible issue. Usually, the AAA just treat the Acct-Session-id as a string. We only need to make sure that Acct-Session-Id for different account sessions are different.

Your proposal require that NSAPI shall be provided in each message if per QoS flow accounting is required. And the SMF and AAA needs to be enhanced to identify the accounting session based on the Acct-Session-Id and NSAPI.

Ericsson: Yes, “NSAPI shall be provided in each message if per QoS flow accounting is required”,

while this is aligned with QoS Flow introduced in 5GC that Radius Server shall support if need policy or charging per QoS flow based.

& for “SMF IP address (IPv4 or IPv6), QFI and Charging-ID concatenated in a UTF-8 encoded hexadecimal characters.”

The logic is if QFI is not specifically added in Acct-Session-Id, then SMF could be implementation based to fulfill.

Huawei: I understand the Acct-Session-Id is used to uniquely identify an account session. The AAA don’t need to understand what exact information is included because we have 3GPP-GGSN-Address to contain the SMF address and 3GPP-Charging-Id to contain Charging Id in the message.

Please consider Diameter protocol, a unique identify is allocated by client for session Id.

Ericsson: “Acct-Session-Id is used to uniquely identify an account session”, while this can be SMF implementation dependent.

And both Solution could be possible with related impact,

1) If you consider QFI adding in Acct-Session-Id, you could have SMF implementation, while shall not add QFI in description as such normative words, upon Account Session with the same level as PDU Session level

( e.g. in some operator live network use case that WAP GW only need Accounting-Request START for PDU session, and some operators only need PDU session accumulated usage reporting not per QoS flow)

2) And upon you mentioned needn’t AAA to understand the exact information, then still needn’t adding QFI in the formatting description of Acct-Session-Id.

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For those use cases with Accounting per QoS Flow handling, still 2 option possible, with implementation depentation to be aligned with SMF and Radius server.

Option1, Acct-Sesson-Id with some related extension but needn’t specify strictly in spec., just fine with vendor implementation;

Option2, Keeping the Accounting-Request START only once per Acct-Session-Id, each Accounting-Request Interim-Update including 3GPP-NSAPI for each QFI.

Ie. If you could consider to update wording remove the QFI in Acct-Session-Id both in the new changes of main body and table, and include above last paragraph contents, could be possible to go ahead.

Huawei: Ok. I can make a more general statement.

What I mean is that AAA does not need to understand QFI, charging id and SMF address. AAA only needs determine that this Acct-session-id is different from the other one because the value of sting type is different.

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

**C3-204097 Correction on the Acct-Session-Id**

*Type: CR For: Agreement  
 29.561 v16.4.0 CR-0044 Cat: A (Rel-16)  
  
 Source: Huawei*

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

**C3-204098 Correction to the Sesson-AMBR**

*Type: CR For: Agreement  
 29.561 v15.4.0 CR-0045 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**C3-204099 Correction to the Sesson-AMBR**

*Type: CR For: Agreement  
 29.561 v16.4.0 CR-0046 Cat: A (Rel-16)  
  
 Source: Huawei*

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

**C3-204294 Correction on the the authorization data**

*Type: CR For: Agreement  
 29.561 v15.4.0 CR-0053 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**C3-204295 Correction on the the authorization data**

*Type: CR For: Agreement  
 29.561 v16.4.0 CR-0054 Cat: A (Rel-16)  
  
 Source: Huawei*

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

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

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

**C3-204090 Correction to the PFD change notification**

*Type: CR For: Agreement  
 29.551 v15.5.0 CR-0034 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**C3-204091 Correction to the PFD change notification**

*Type: CR For: Agreement  
 29.551 v16.4.0 CR-0035 Cat: A (Rel-16)  
  
 Source: Huawei*

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

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

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

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

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

**C3-204143 Correction to spending limit subscribe and unsubscribe procedures**

*Type: CR For: Agreement  
 29.594 v15.6.0 CR-0055 Cat: F (Rel-15)  
  
 Source: Huawei*

**Discussion:**

C3-204143 and C3-204164 are merged into C3-204367

**Decision:** The document was **revised to C3-204367**.

**C3-204367 Correction to spending limit subscribe and unsubscribe procedures**

*Type: CR For: Agreement  
 29.594 v15.6.0 CR-0055 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces C3-204143)

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

**C3-204144 Correction to spending limit subscribe and unsubscribe procedures**

*Type: CR For: Agreement  
 29.594 v16.2.0 CR-0056 Cat: A (Rel-16)  
  
 Source: Huawei*

**Discussion:**

C3-204144 and C3-204166 are merged into C3-204368

**Decision:** The document was **revised to C3-204368**.

**C3-204368 Correction to spending limit subscribe and unsubscribe procedures**

*Type: CR For: Agreement  
 29.594 v16.2.0 CR-0056 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces C3-204144)

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

**C3-204162 Nchf\_SpendingLimitControl Service support of interworking**

*Type: CR For: Agreement  
 29.594 v15.6.0 CR-0057 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204369**.

**C3-204369 Nchf\_SpendingLimitControl Service support of interworking**

*Type: CR For: Agreement  
 29.594 v15.6.0 CR-0057 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces C3-204162)

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

**C3-204163 Nchf\_SpendingLimitControl Service support of interworking**

*Type: CR For: Agreement  
 29.594 v16.2.0 CR-0058 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204370**.

**C3-204370 Nchf\_SpendingLimitControl Service support of interworking**

*Type: CR For: Agreement  
 29.594 v16.2.0 CR-0058 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces C3-204163)

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

**C3-204164 Nchf\_SpendingLimitControl Service Supporting scenario**

*Type: CR For: Agreement  
 29.594 v15.6.0 CR-0059 Cat: F (Rel-15)  
  
 Source: Huawei*

**Discussion:**

C3-204143 and C3-204164 are merged into C3-204367

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

**C3-204166 Nchf\_SpendingLimitControl Service Supporting scenario**

*Type: CR For: Agreement  
 29.594 v16.2.0 CR-0060 Cat: A (Rel-16)  
  
 Source: Huawei*

**Discussion:**

C3-204144 and C3-204166 are merged into C3-204368

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

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

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

**C3-204199 Resource URI for individual subscription**

*Type: CR For: Agreement  
 29.523 v15.3.0 CR-0030 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204371**.

**C3-204371 Resource URI for individual subscription**

*Type: CR For: Agreement  
 29.523 v15.3.0 CR-0030 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces C3-204199)

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

**C3-204200 Resource URI for individual subscription**

*Type: CR For: Agreement  
 29.523 v16.2.0 CR-0031 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204372**.

**C3-204372 Resource URI for individual subscription**

*Type: CR For: Agreement  
 29.523 v16.2.0 CR-0031 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces C3-204200)

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

#### 15.2.17 5G Impacts in existing TSs

**C3-204034 LS on new AVPs in TS 29.214**

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

**Decision:** The document was **revised to C3-204405**.

**C3-204405 LS on new AVPs in TS 29.214**

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

(Replaces C3-204034)

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

**C3-204229 Correction to RAN-NAS Release Cause feature**

*Type: CR For: Agreement  
 29.214 v15.8.0 CR-1647 Cat: F (Rel-15)  
  
 Source: Ericsson España S.A.*

**Decision:** The document was **revised to C3-204411**.

**C3-204411 Correction to RAN-NAS Release Cause feature**

*Type: CR For: Agreement  
 29.214 v15.8.0 CR-1647 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson España S.A.*

(Replaces C3-204229)

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

**C3-204230 Correction to RAN-NAS Release Cause feature**

*Type: CR For: Agreement  
 29.214 v16.3.0 CR-1648 Cat: A (Rel-16)  
  
 Source: Ericsson España S.A.*

**Decision:** The document was **revised to C3-204412**.

**C3-204412 Correction to RAN-NAS Release Cause feature**

*Type: CR For: Agreement  
 29.214 v16.3.0 CR-1648 rev 1 Cat: A (Rel-16)  
  
 Source: Ericsson España S.A.*

(Replaces C3-204230)

**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]

**C3-204145 Failure response for AsSessionWithQoS API**

*Type: CR For: Agreement  
 29.122 v15.7.0 CR-0270 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**C3-204146 Failure response for AsSessionWithQoS API**

*Type: CR For: Agreement  
 29.122 v16.6.0 CR-0271 Cat: A (Rel-16)  
  
 Source: Huawei*

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

**C3-204147 Same IPv4 address for different PDU sessions**

*Type: CR For: Agreement  
 29.122 v15.7.0 CR-0272 Cat: F (Rel-15)  
  
 Source: Huawei, China Mobile*

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

**C3-204148 Same IPv4 address for different PDU sessions**

*Type: CR For: Agreement  
 29.122 v16.6.0 CR-0273 Cat: A (Rel-16)  
  
 Source: Huawei, China Mobile*

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

**C3-204195 Use correct code for deleting individual ChargeableParty transaction**

*Type: CR For: Agreement  
 29.122 v15.7.0 CR-0280 Cat: F (Rel-15)  
  
 Source: Ericsson*

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

**C3-204196 Use correct code for deleting individual ChargeableParty transaction**

*Type: CR For: Agreement  
 29.122 v16.6.0 CR-0281 Cat: A (Rel-16)  
  
 Source: Ericsson*

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

**C3-204243 Removal of an established AS session**

*Type: CR For: Agreement  
 29.122 v15.7.0 CR-0282 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204350**.

**C3-204350 Removal of an established AS session**

*Type: CR For: Agreement  
 29.122 v15.7.0 CR-0282 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces C3-204243)

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

**C3-204244 Removal of an established AS session**

*Type: CR For: Agreement  
 29.122 v16.6.0 CR-0283 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204351**.

**C3-204351 Removal of an established AS session**

*Type: CR For: Agreement  
 29.122 v16.6.0 CR-0283 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces C3-204244)

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

**C3-204269 Corrections to mtcProviderId**

*Type: CR For: Agreement  
 29.122 v15.7.0 CR-0285 Cat: F (Rel-15)  
  
 Source: Ericsson*

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

**C3-204270 Corrections to mtcProviderId**

*Type: CR For: Agreement  
 29.122 v16.6.0 CR-0286 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]

**C3-204177 CAPIF security inconsistency**

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

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

**C3-204178 Correct CAPIF security API**

*Type: CR For: Agreement  
 29.222 v15.6.0 CR-0154 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-204352**.

**C3-204352 Correct CAPIF security API**

*Type: CR For: Agreement  
 29.222 v15.6.0 CR-0154 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson*

(Replaces C3-204178)

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

**C3-204179 Correct CAPIF security API**

*Type: CR For: Agreement  
 29.222 v16.3.0 CR-0155 Cat: A (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-204353**.

**C3-204353 Correct CAPIF security API**

*Type: CR For: Agreement  
 29.222 v16.3.0 CR-0155 rev 1 Cat: A (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-204179)

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

**C3-204185 Support CAPIF custom header**

*Type: CR For: Agreement  
 29.122 v15.7.0 CR-0278 Cat: F (Rel-15)  
  
 Source: Ericsson*

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

**C3-204186 Support CAPIF custom header**

*Type: CR For: Agreement  
 29.122 v16.6.0 CR-0279 Cat: A (Rel-16)  
  
 Source: Ericsson*

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

**C3-204187 Support CAPIF custom header**

*Type: CR For: Agreement  
 29.222 v15.6.0 CR-0156 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-204354**.

**C3-204354 Correct api invoker certificate in onboarding**

*Type: CR For: Agreement  
 29.222 v15.6.0 CR-0156 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson*

(Replaces C3-204187)

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

**C3-204188 Support CAPIF custom header**

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

**Decision:** The document was **revised to C3-204355**.

**C3-204355 Correct api invoker certificate in onboarding**

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

(Replaces C3-204188)

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

**C3-204189 Support CAPIF custom header**

*Type: CR For: Agreement  
 29.522 v15.5.0 CR-0204 Cat: F (Rel-15)  
  
 Source: Ericsson*

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

**C3-204190 Support CAPIF custom header**

*Type: CR For: Agreement  
 29.522 v16.4.0 CR-0205 Cat: A (Rel-16)  
  
 Source: Ericsson*

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

### 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

**C3-204043 Clarification on using PAP/CHAP for 5GS interoperability**

*Type: CR For: Agreement  
 29.061 v15.6.0 CR-0516 Cat: F (Rel-15)  
  
 Source: Qualcomm Incorporated, Vodafone*

**Discussion:**

Ericsson: Upon related discussions in conference calls and continue in C3-204045 mails for better fulfillment, this CR is not needed.

Vodafone:

- Rel-15 CR C3-204043 to 29.061 is normative (addition of NOTE in a table) and clarifies that a combined SMF/P-GW can be selected by EPC. EPC NAS certainly supports PAP/CHAP and I think this CR is needed to add the combined SMF/P-GW network entity introduced in 5G

Huawei: The scope of 29.061 is not related to the 5GS. And combined SMF/P-GW shall be in the scope of 5GS and related procedure shall be described 29.561.

Actually, from my point of view, we even have not specified anything for interworking scenario in 29.561. You will see we have a dedicated annex in each impacted specification for interworking scenario.

Qualcomm: It would be good to spend a few more minutes on this topic (also on 29.561 CR) during the call

Check CT1 open CRs. Discuss the LS and make a decision.

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

**C3-204045 Clarification on using PAP/CHAP for 5GS interoperability**

*Type: CR For: Agreement  
 29.561 v15.4.0 CR-0038 Cat: F (Rel-15)  
  
 Source: Qualcomm Incorporated, Vodafone*

**Discussion:**

Qualcomm:

We had some further offline discussions and Ericsson kindly pointed us to a solution which ends providing support for PAP/CHAP in 5GS, as proposed in this draft here. Qualcomm makes r1 version available.

R1 version for Release 16 available.

Mirror CR needed.

Ericsson: I suggest to use WI code: 5GS\_Ph1-CT.

Cover sheet: Added table note to support PAP/CHAP.

Qualcomm asks for further comments.

Vodafone: I think these CRs cover what is needed to include the possibility that an SMF handles PAP/CHAP. One small wording suggestion is change "External network operators intending to use PAP/CHAP without proper underlying protection for authentication are warned about the respective vulnerabilities of PAP and CHAP protocols from a security point of view." to "External network operators intending to use PAP/CHAP without proper underlying protection for authentication are warned about to carefully consider the respective security vulnerabilities of PAP and CHAP protocols from a security point of view."

Qualcomm: Based on the discussion from today I think this revision is in the wrong direction. Rather, we need to think and affirm if indeed in Rel-15 and 16 there is no FASMO issue of UE selecting an PGW-C/SMF that supports PAP/CHAP? I think the answer is no, i.e. if we don’t change anything in the frozen release 15/16 specs, they are missing this essential functionality expected out of a combo PGW-C/SMF, unless we add to the specs that S-NSSAI/DNN configuration in UE subscription is needed to accomplish this, as the original CRs proposed.

I really still don’t see how the original CRs preclude the proposed new WID. The two issues of

1. providing necessary fix in Rel 15/16 so that combo PGW-C/SMF is selected for PAP/CHAP, and

2. an SMF that natively supports PAP/CHAP in Rel 17 onwards as targeted by the WID

are not mutually conflicting: the 2nd work can go as planned even as 1st issue is addressed, and addressing the 1st issue does not provide the functionality targeted by the 2nd. Am I still missing something here? Comments are welcome on this.

Vodafone:

I see the issues in the same way as you. Regarding the status of the Qualcomm/Vodafone CRs submitted to this meeting:

- Rel-15 CR C3-204043 to 29.061 is normative (addition of NOTE in a table) and clarifies that a combined SMF/P-GW can be selected by EPC. EPC NAS certainly supports PAP/CHAP and I think this CR is needed to add the combined SMF/P-GW network entity introduced in 5G

- Rel-15 CR C3-204045 to 29.561 is not normative but I believe that 29.561 must say, in some normative way, what happens if an SMF receives PAP/CHAP information. So I would say that a (normative) revision of this CR is needed.

For these reasons, I do not agree with the comments that a Rel-17 WID makes the Rel-15/16 CRs unnecessary.

Ericsson: If I understood the comment (given by Huawei) correctly, the support of EAP based authentication is mandatory in 5G as specified in TS 33.501.

So for a 4G UE (which is capable of 5G NAS), either a PGW-C or combo node is selected and the PAP/CHAP is supported in EPC already.

For a 5G UE, even a combo node is selected, what if SMF still starts EAP procedure towards AAA by ignoring the PAP/CHAP in ePCO?

In your previously sent draft CR for R15, the SMF is mandated to respect the PAP/CHAP inclusion in the ePCO.

Do you know if CT1 has a statement like: inclusion of PAP/CHAP in ePCO indicates UE’s request to use legacy authentication?

Can UE include both PAP/CHAP in ePCO and SM PDU DN Request Container including its DN-specific identity complying with Network Access Identifier (NAI) format and PDU session ID?

Qualcomm: as I see if PAP/CHAP in ePCO reaches an SMF, this is a misconfiguration that the CR attempts to avoid. Actually, when there is appropriate S-NSSAI/DNN configuration in UE subscription to select a combo node instead (PGW-C/SMF), this combo node should know by implementation that it should not start an EAP procedure, and rather use PGW operation as outlined in TS 29.061 by using these credentials over RADIUS/DIAMETER.

Huawei shows the architecture as described in TS 29.561. We assume that the procedures are supported over N6 interface. Now you assume that SMF+PGW can support SGi interface defined in 29.061. I think it is not a standardization way forward.

Check CT1 open CRs. Discuss the LS and make a decision.

Wait for the LS reply before specifying anything.

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

**C3-204356 LS on Clarification on using PAP/CHAP for 5GS**

*Type: LS out For: Approval  
 to CT1, cc SA3  
 Source: Qualcomm*

**Discussion:**

Ask SA2 and CT1 about the possible concerns.

Qualcomm makes r0 available, with a question to SA2.

As for the questions from Ericsson, I don’t see the issue if UE sends both PAP/CHAP in ePCO (during PDU Session Establishment Request) as well as SM PDU DN Request Container mechanism (off course the session authorization information in both containers have to be same/correct in a properly configured scenario). TS 23.502 allows for PCO in PDU Session Establishment Request but does not say obviously that it can contain PAP/CHAP, so this corner case is possible. But I don’t see the problem here. This is a case where combo node has flexibility to use either 5GS or interworking mechanism, the former most likely should be preferred by implementations from security point of view.

Huawei: has different understanding for the Ericsson’s question. I check with my CT1 colleague that there’s no statement that UE can sends both PAP/CHAP in ePCO and SM PDU DN Request Container in CT1 specification.

And we also have different understanding that combo node has flexibility to use either 5GS or interworking mechanism. As we have not defined anything related with interworking scenario in 29.561, we can’t assume that anything supported by PGW are supported by the SMF+PGW-C. I still have a concern than the 5G related information can’t be sent to the DN-AAA via SGi interface protocol.

Vodafone: Can we agree on the impacts on specification(s)? It seems that:

1. 29.561 is the only impacted specification

2. 29.561 needs to define interworking by a combined SMF/P-GW, including whether SGi or N6 support interworking

I would think that CT3 can decide points 2 and 3 and inform SA2 of their decision.

I also did not fully understand the question to CT1. Does it relate to the PDU SESSION ESTABLISHMENT REQUEST defined in 24.501, which seems to show that ePCO can be sent to the SMF.

Ericsson:

Here is the draft for CT1:

- Q1: For 5G UE including PAP/CHAP in ePCO, whether the UE also supports EAP based mechanism?

- Q2: if the answer is Yes for Q1, can 5G UE include both PAP/CHAP in ePCO and SM PDU DN Request Container including its DN-specific identity complying with Network Access Identifier (NAI) format and PDU session ID?

- Q3: If the answer is Yes for Q2, and if 5G UE includes PAP/CHAP in ePCO, is it an indication from the UE requesting to use the legacy authentication mechanism with AAA?

Let me know if a clarification is needed for those questions.

The DN specific id in the SM PDU DN Request Container is used in EAP based authentication.

Qualcomm: I could review the architecture question that we have that perhaps also encompasses the NAS related aspects in the following reformulated questions:

For authentication/authorization by DN AAA in 5GS as specified in clause 4.3.2.3 of 3GPP TS 23.502, the UE replies with DN Request Container information with authentication information during the PDU Session establishment authentication/authorization triggered by the SMF. However, how would PDU Session establishment authentication/authorization procedure be effected in the interworking scenario when it is triggered by a PGW-C/SMF instead? Can the UE provide authentication/authorization information in ePCO during the process? And if so, what is the expected PGW-C/SMF behavior in this case?

To summarize, I think our questions start with the SMF messages towards the UE before we can resolve what the PGW-C/SMF would do with the received messages. Does the above question better incorporate the issues?

Vodafone: My assumption was that the question to CT1 can relate to the UE including PAP/CHAP in a PDU session setup request i.e. secondary authentication can be initiated by the UE and does not always start with an authentication challenge from the network to the UE. Maybe Ericsson can confirm.

Qualcomm to Ericsson:

in addition to Vodafone’s question, two more:

- I think we discussed Question 1 in call today, and I think we already concluded that the answer is Yes for a conforming 5G UE, what do you think?

- In question 2, as per step 3b of clause 4.3.2.3 of 3GPP TS 23.502, isn’t it DN Request Container information that carries the authentication information? This is what my CT1 colleagues have confirmed.

Ericsson:

For 1st bullet: For a 5G compliant UE, yes. But I would be interested to know if there is any non-5G compliant UE (not supporting EAP mechanism) like the ‘old’ enterprise AAA we discussed yesterday.

For second bullet: Yes, I used the term in 33.501 (SM PDU DN request container is also used in 24.501) which is more intuitive for CT1.

Vodafone: which NAS message (or messages) does question 2 relate to?

Ericsson: See table 8.3.1.1.1 in TS 24.501, last two IEs.

Vodafone: I think it would be good to include that information in question 1 as follows:

Question 1: For 5G UE including PAP/CHAP in ePCO in a PDU SESSION ESTABLISHMENT REQUEST message, whether the UE also supports EAP based authentication mechanism?

Huawei: For Q1, why do you assume that 5G UE can include PAP/CHAP in ePCO. I understand 5G supports EAP based authentication mechanism. Whether it also supports PAP/CHAP is not clear to us. Right?

Qualcomm too Huawei: I also agree that this is not clear to how or in which NAS procedure the 5G UE could include the required authentication information in ePCO. R1 is made available.

Ericsson: I see you ask both CT1 & SA2, my original intention is to ask CT1 only since I got the impression that SA2 delegated the PAP/CHAP support to CT group in the previous LS exchange. What if we receive different answers?

We said to copy SA3 (or not)?

For Q3, I would like to reword it as:

Question 3: If the answer to Question 2 is Yes, and if 5G UE includes PAP/CHAP in ePCO, how the SMF or combined PGW-C+SMF determines whether to use EPS or 5GS authentication mechanism with DN AAA? Can UE indicate its preference?

Ericsson: An improved version:

Question 3: If the answer to Question 2 is Yes, and if 5G UE includes PAP/CHAP in ePCO, whether and how the SMF or combined PGW-C+SMF could determine whether to use EPS or 5GS authentication mechanism with DN AAA? Can UE indicate its preference?

We could further discuss them in today’s conf. call.

Qualcomm:

Related to this part of the questions:

how the SMF or combined PGW-C+SMF determines whether to use EPS or 5GS authentication mechanism with DN AAA?

I have had discussions internally with my SA2, SA3, and CT1 colleagues. There can be a few approaches to it, and it may even need to involve UE subscription information or interactions beyond CT1 realm. Hence SA2 is included.

You are right that I need to break down the questions to address to individual groups. I am fine to include SA3; but what questions of their parts are to be addressed to SA3?

Nokia: Related to SA2. As far as I know, they have a statement in there specifications related to a warning:

SA2 however notes that for EPS, TS 23.401 contains a warning about usage of PAP:

“NOTE 7: External network operators wanting to use PAP for authentication are warned that PAP is an obsolete protocol from a security point of view. CHAP provides stronger security than PAP.”

SA2 highlighted that the 5G specifications under SA2 control do not contain any description of (e)PCO-based PAP/CHAP, and therefore also no warning about PAP.

Therefore I think it was not SA2’s intension to specify something for 5GS and SA2 delegated the issue to CT. Probably we should not initate the discussion again, if not really required,

SA2 will not be involved. SA3 will be copied. All questions will go to CT1.

Include latest wording for Q1.

Qualcomm: R3 is made available.

Changes needed from meeting notes:

1. SA2 will not be involved. SA3 will be copied. All questions will go to CT1.

2. Include latest wording for Q1.

On the second item, I used the latest proposed question from Wenliang on Q3, not sure if I’ve seen or missed a proposal on Q1. Thanks Peter for relaying the information from today’s call and proposing edits.

Vodafone is fine with r3.

LS is stored in the inbox.

China Telecom: From the operator`s view, we suggest not to ask SA3 about such questions. Because for the sake of security, SA3 will require that PAP/CHAP supported by EAP-TTLS. But now most of LNSs and AAA servers belong to enterprises (our customers),which cannot support EAP-TTLS, but only support RADIUS/Diameter protocol. So we agree to use EAP-TTLS, but we should also support RADIUS/Diameter protocol as well for the smooth migration purpose.

Vodafone: I believe that SA3 is drafting a reply in their current meeting to the LS from SA2 that we saw in our previous meeting (CT3-110e Tdoc 3599) so SA3 is aware of the discussion and maybe this means we don't risk much by not Cc'ing them in our LS. But, our LS from this meeting does not ask SA3 any questions directly so I don't see a problem with Cc'ing them either.

I am OK either way regarding putting SA3 in Cc

SA3 will be removed.

**Decision:** The document was **revised to C3-204434**.

**C3-204434 LS on Clarification on using PAP/CHAP for 5GS**

*Type: LS out For: Approval  
 to CT1  
 Source: Qualcomm*

(Replaces C3-204356)

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

### 15.18 OpenAPI version updates

**C3-204380 29.122 Rel-15 Update of OpenAPI version and TS version in externalDocs field**

*Type: CR For: Agreement  
 29.122 v15.7.0 CR-0288 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**C3-204413 29.512 Rel-15 Update of OpenAPI version and TS version in externalDocs field**

*Type: CR For: Agreement  
 29.512 v15.7.0 CR-0568 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**C3-204414 29.222 Update of OpenAPI version and TS version in externalDocs field**

*Type: CR For: Agreement  
 29.222 v15.6.0 CR-0159 Cat: F (Rel-15)  
  
 Source: Samsung*

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

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

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

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

**C3-204073 GPSI used for PCF selection**

*Type: CR For: Agreement  
 29.513 v16.4.0 CR-0184 Cat: F (Rel-16)  
  
 Source: ZTE*

**Decision:** The document was **revised to C3-204309**.

**C3-204309 GPSI used for PCF selection**

*Type: CR For: Agreement  
 29.513 v16.4.0 CR-0184 rev 1 Cat: F (Rel-16)  
  
 Source: ZTE, China Mobile*

(Replaces C3-204073)

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

**C3-204074 Include resouceURI in TrafficInfluData for change notification association**

*Type: CR For: Agreement  
 29.519 v16.4.0 CR-0209 Cat: F (Rel-16)  
  
 Source: ZTE*

**Discussion:**

This CR introduces backward compatible correction to the OpenAPI file Nudr\_DataRepository API for Application Data.

Nokia: We propose to use a separate data type for the GET response (e.g. TrafficInfluDataGet) to get the Uri for the association which includes the notifUri in a backward compatible manner and the TrafficInfluData type (similar to the definition of the TrafficInfluDataNotif data type).

Ericsson: I think the proposed solution is fine in the present CR.

To Nokia: your proposal is another form to include the resource id and I suppose the UDR will need to decide whether to return TrafficInfluDataGet or TrafficInfluData in the GET response. It can also work but I don’t see extra benefit.

Huawei: The attribute is only possible be used for the GET on reading all subscriptions.

I am fine with the CR but suggest to extend the description to ‘Shall be present in the HTTP GET response when reading all the subscriptions.’

ZTE: GET method is only used for Influence Data , cannot be used for Individual Influence Data. Hence the extra description is not needed.

Huawei: still prefer to extend the exact description due to future extension of GET on individual level.

ZTE: When GET method used with the query parameter, e.g. DNN, that means reading part of "Influence Data", not all the "Influence Data".

However the extra description will mislead the reader.

Nokia: The current CR is fine for achieving the desired functionality if the implementation is done correctly and Nokia can accept it, if the group supports it.

However, the counter-suggestion was because of the fact that the OpenAPI of the current CR does NOT make resUri mandatory in the GET “all” response (thus requiring more “careful” UDR implementation), although a mandatory resUri could be achieved with a separate data type that would be used only for the response of /application-data/influenceData (GET /application-data/influenceData/{influenceId} would keep using TrafficInfluData). I guess the question is if we want to make resUri mandatory in the response of GET /application-data/influenceData or not.

Huawei to ZTE: Not only one Influence Data will be provided during query response but a list.

ZTE to Nokia: you mentioned "GET /application-data/influenceData/{influenceId} would keep using TrafficInfluData", but GET is not supported for "Resource URI: {apiRoot}/nudr-dr/<apiVersion>/application-data/influenceData/{influenceId}" in current release of specification.

ZTE to Huawei: I mean when the GET method with query parameter used to read part of the data (one or more individial data), not all the data.

Nokia: Good point. Even so, the argument about making resUri mandatory (or not) in the response of GET /application-data/influenceData still holds, right?

Huawei: I am fine to not extend the description due to no individual level GET, you are right.

ZTE to Nokia: "resUri" is defined as Conditional, the presence condition is that it shall be include in the GET response when "EnhancedInfluDataNotification" feature is supported by PCF and UDR.

For GET /application-data/influenceData, if both PCF and UDR support the feature, the resUri is mandatory, otherwise it shall not be present.

Nokia is fine with the CR.

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

**C3-204100 Correction to policy update when UE suspends**

*Type: CR For: Agreement  
 29.512 v16.5.0 CR-0538 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204310**.

**C3-204310 Correction to policy update when UE suspends**

*Type: CR For: Agreement  
 29.512 v16.5.0 CR-0538 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-204100)

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

**C3-204158 MAC addresses and PDU session association**

*Type: CR For: Agreement  
 29.512 v16.5.0 CR-0552 Cat: F (Rel-16)  
  
 Source: Huawei*

**Discussion:**

Nokia: the 2nd change introduces mandatory requirements to the R16 PCF. We should make the requirements optional.

Ericsson: I have a different reading and understanding of 23.502 text, and I cannot infer any new requirement on the PCF we need to take care of in 29.512.

As the extracted text from SA2 says, the UPF detects whether a MAC address is becoming active/inactive for a PDU session. UPF notifies SMF which in turns notifies PCF, so at the end of the process, all the affected NFs end up with consistent information about the MAC addresses that remain active in every PDU session.

The definition of an additional logic in the PCF to check if (temporarily) the same MAC address exists in more than PDU session would not improve the already specified behavior. And the processing cost of these checks in the PCF is high, increasing the complexity unnecessarily.

Nokia: I think we have two options for the 2nd change. We are inline with stage, if we leave a decision on the functionality to the PCF manufacturer and do not specify anything or we make the functionality optional (a note would be possible as well). I would prefer the first one.

Huawei: My understanding is that the issue needs to be solved, otherwise, the UPF can’t forward the DL packets to the exact new PDU session if the previous one is not released yet, especially the two PDU sessions for the same MAC address is in the same UPF.

Ericsson: But, if it is a problem local to the UPF, why cannot it be solved by the UPF?

In the scenario of two PDU sessions, why should we assume that the PCF handling these two PDU sessions is the same?

I believe that if there is a problem, this problem goes beyond the solution proposed by this CR based on the PCF.

And if there is a problem, I think SA2 decided it is out of 5GS specifications to solve it.

23.501, 5.6.10.2:

NOTE 8: 5GS does not support the scenario where a MAC address or if VLAN applies a (MAC address, VLAN) combination is used on more than one PDU Session for the same DNN and S-NSSAI.

Vodafone:

On the cover sheet, the reason for change should refer to 23.501 (not 23.502) clause 5.8.2.5.3.

From 23.501 it looks like the association of MAC address to PDU session or N6 interface is local to the UPF. Is it described somewhere what does the PCF does with the information it receives as per the existing text below in 29.512 clause 5.6.3.6?

"When the SMF detects a new UE MAC address or a used UE MAC address is not used any more, the SMF shall include the "UE\_MAC\_CH" within the "repPolicyCtrlReqTriggers" attribute and new detected UE MAC address within the "ueMac" attribute or the not used UE MAC address within the "relUeMac" attribute. "

The text in 23.501 describes "In order to handle scenarios where a device behind a UE is moved from one UE to another UE", which implies a single MAC address moves from one PDU session to another. If this PDU session is on the same UPF then the UPF could detect locally that traffic routing must change. If the PDU session is not on the same UPF, how will the network avoid routing downlink traffic to the wrong (old) UPF?

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

**C3-204215 Correction to policy update when UE suspends**

*Type: CR For: Agreement  
 29.512 v16.5.0 CR-0556 Cat: F (Rel-16)  
  
 Source: Huawei Technologies R&D UK*

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

**C3-204249 Subscribed delivery status**

*Type: CR For: Agreement  
 29.508 v16.4.0 CR-0101 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204323**.

**C3-204323 Subscribed delivery status**

*Type: CR For: Agreement  
 29.508 v16.4.0 CR-0101 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-204249)

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

**C3-204311 LS on MAC addresses and PDU session association**

*Type: LS out For: Approval  
 to SA2  
 Source: Huawei*

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

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

**C3-204076 Defalt value for eventsRepInfo attribute**

*Type: CR For: Agreement  
 29.591 v16.1.0 CR-0019 Cat: F (Rel-16)  
  
 Source: ZTE*

**Discussion:**

C3-204076 and C3-204223 are merged into C3-204331

**Decision:** The document was **revised to C3-204331**.

**C3-204331 Defalt value for eventsRepInfo attribute**

*Type: CR For: Agreement  
 29.591 v16.1.0 CR-0019 rev 1 Cat: F (Rel-16)  
  
 Source: ZTE, Huawei*

(Replaces C3-204076)

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

**C3-204159 Description for NWDAF services**

*Type: CR For: Agreement  
 29.520 v16.4.0 CR-0196 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204317**.

**C3-204317 Description for NWDAF services**

*Type: CR For: Agreement  
 29.520 v16.4.0 CR-0196 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-204159)

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

**C3-204160 Zero confidence**

*Type: CR For: Agreement  
 29.520 v16.4.0 CR-0197 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204318**.

**C3-204318 Zero confidence**

*Type: CR For: Agreement  
 29.520 v16.4.0 CR-0197 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-204160)

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

**C3-204161 Zero confidence**

*Type: CR For: Agreement  
 29.522 v16.4.0 CR-0203 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-204192 Correct QoS sustainability requirement**

*Type: CR For: Agreement  
 29.520 v16.4.0 CR-0199 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**C3-204207 Missed data type definition**

*Type: CR For: Agreement  
 29.517 v16.1.0 CR-0017 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204332**.

**C3-204332 Missed data type definition**

*Type: CR For: Agreement  
 29.517 v16.1.0 CR-0017 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-204207)

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

**C3-204208 Validity period for analytics information**

*Type: CR For: Agreement  
 29.520 v16.4.0 CR-0200 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-204209 Validity period for analytics information**

*Type: CR For: Agreement  
 29.522 v16.4.0 CR-0209 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-204210 Timestamp of analytics generation**

*Type: CR For: Agreement  
 29.520 v16.4.0 CR-0201 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204319**.

**C3-204319 Timestamp of analytics generation**

*Type: CR For: Agreement  
 29.520 v16.4.0 CR-0201 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-204210)

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

**C3-204211 Notification about subscribed event**

*Type: CR For: Agreement  
 29.520 v16.4.0 CR-0202 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-204219 Corrections on UE Mobility**

*Type: CR For: Agreement  
 29.520 v16.4.0 CR-0203 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-204220 Corrections on UE Mobility**

*Type: CR For: Agreement  
 29.517 v16.1.0 CR-0018 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-204221 Omitted event reporting information**

*Type: CR For: Agreement  
 29.520 v16.4.0 CR-0204 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204320**.

**C3-204320 Omitted event reporting information**

*Type: CR For: Agreement  
 29.520 v16.4.0 CR-0204 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-204221)

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

**C3-204222 Omitted event reporting information**

*Type: CR For: Agreement  
 29.522 v16.4.0 CR-0211 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-204223 Omitted event reporting information**

*Type: CR For: Agreement  
 29.591 v16.1.0 CR-0021 Cat: F (Rel-16)  
  
 Source: Huawei*

**Discussion:**

C3-204076 and C3-204223 are merged into C3-204331

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

**C3-204250 Optional network slice identification**

*Type: CR For: Agreement  
 29.520 v16.4.0 CR-0205 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-204251 Slice load level information**

*Type: CR For: Agreement  
 29.520 v16.4.0 CR-0206 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-204252 Matching direction**

*Type: CR For: Agreement  
 29.520 v16.4.0 CR-0207 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204321**.

**C3-204321 Matching direction**

*Type: CR For: Agreement  
 29.520 v16.4.0 CR-0207 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-204252)

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

**C3-204253 Missed response code**

*Type: CR For: Agreement  
 29.517 v16.1.0 CR-0019 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-204254 Missed response code**

*Type: CR For: Agreement  
 29.591 v16.1.0 CR-0022 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-204255 Time when analytics information is needed**

*Type: CR For: Agreement  
 29.520 v16.4.0 CR-0208 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-204256 Confidence for UE mobility**

*Type: CR For: Agreement  
 29.520 v16.4.0 CR-0209 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204322**.

**C3-204322 Confidence for UE mobility**

*Type: CR For: Agreement  
 29.520 v16.4.0 CR-0209 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Ericsson*

(Replaces C3-204256)

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

**C3-204257 Ratio and confidence for UE mobility**

*Type: CR For: Agreement  
 29.522 v16.4.0 CR-0214 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204333**.

**C3-204333 Ratio and confidence for UE mobility**

*Type: CR For: Agreement  
 29.522 v16.4.0 CR-0214 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Ericsson*

(Replaces C3-204257)

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

**C3-204258 Supported feature in Nnwdaf\_AnalyticsInfo API**

*Type: CR For: Agreement  
 29.520 v16.4.0 CR-0210 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-204259 Target UE identification**

*Type: CR For: Agreement  
 29.520 v16.4.0 CR-0211 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-204260 Correction on NetworkPerfType**

*Type: CR For: Agreement  
 29.520 v16.4.0 CR-0212 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-204261 Correction on Network Area**

*Type: CR For: Agreement  
 29.520 v16.4.0 CR-0213 Cat: F (Rel-16)  
  
 Source: Huawei*

**Discussion:**

C3-204284 and C3-204261 are merged into C3-204315

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

**C3-204262 Extra reporting requirement**

*Type: CR For: Agreement  
 29.522 v16.4.0 CR-0215 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-204263 Reading all subscriptions in AnalyticsExposure API**

*Type: CR For: Agreement  
 29.522 v16.4.0 CR-0216 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-204265 Corrections on appIds and dnns**

*Type: CR For: Agreement  
 29.520 v16.4.0 CR-0214 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-204266 Any UE indication applies to EXCEPTIONS**

*Type: CR For: Agreement  
 29.517 v16.1.0 CR-0020 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204293**.

**C3-204293 Any UE indication applies to EXCEPTIONS**

*Type: CR For: Agreement  
 29.517 v16.1.0 CR-0020 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, ZTE*

(Replaces C3-204266)

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

**C3-204267 Applicabilities of appIds and locArea**

*Type: CR For: Agreement  
 29.591 v16.1.0 CR-0023 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-204268 Applicabilities of snssai, dnn and locArea**

*Type: CR For: Agreement  
 29.522 v16.4.0 CR-0217 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-204284 Corrections to networkArea with anyUE**

*Type: CR For: Agreement  
 29.520 v16.4.0 CR-0215 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Discussion:**

C3-204284 and C3-204261 are merged into C3-204315

**Decision:** The document was **revised to C3-204315**.

**C3-204315 Corrections to networkArea with anyUE**

*Type: CR For: Agreement  
 29.520 v16.4.0 CR-0215 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson, Huawei*

(Replaces C3-204284)

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

**C3-204285 Corrections to abnormal behaviour for any UE**

*Type: CR For: Agreement  
 29.520 v16.4.0 CR-0216 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-204316**.

**C3-204316 Corrections to abnormal behaviour for any UE**

*Type: CR For: Agreement  
 29.520 v16.4.0 CR-0216 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson, Huawei*

(Replaces C3-204285)

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

**C3-204286 Corrections to Service Experience**

*Type: CR For: Agreement  
 29.520 v16.4.0 CR-0217 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

### 16.5 CT aspects on eSBA [5G\_eSBA]

**C3-204242 Correction to PCF discovery and selection**

*Type: CR For: Agreement  
 29.513 v16.4.0 CR-0190 Cat: F (Rel-16)  
  
 Source: Ericsson España S.A.*

**Decision:** The document was **revised to C3-204341**.

**C3-204341 Correction to PCF discovery and selection**

*Type: CR For: Agreement  
 29.513 v16.4.0 CR-0190 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson España S.A.*

(Replaces C3-204242)

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

**C3-204264 Correction to selection of the same PCF**

*Type: CR For: Agreement  
 29.513 v16.4.0 CR-0191 Cat: F (Rel-16)  
  
 Source: Ericsson España S.A.*

**Decision:** The document was **revised to C3-204342**.

**C3-204342 Correction to selection of the same PCF**

*Type: CR For: Agreement  
 29.513 v16.4.0 CR-0191 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson España S.A.*

(Replaces C3-204264)

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

### 16.6 CT aspects of Access Traffic Steering, Switch and Splitting support in 5G system [ATSSS]

**C3-204101 Remove the editor’s note**

*Type: CR For: Agreement  
 29.514 v16.5.0 CR-0254 Cat: F (Rel-16)  
  
 Source: Huawei*

**Discussion:**

C3-204238 and C3-204101 are merged into C3-204344

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

**C3-204238 Removal on Editor’s notes on traffic forwarding for a MA PDU session**

*Type: CR For: Agreement  
 29.514 v16.5.0 CR-0257 Cat: F (Rel-16)  
  
 Source: Ericsson España S.A.*

**Discussion:**

C3-204238 and C3-204101 are merged into C3-204344

**Decision:** The document was **revised to C3-204344**.

**C3-204344 Removal on Editor’s notes on traffic forwarding for a MA PDU session**

*Type: CR For: Agreement  
 29.514 v16.5.0 CR-0257 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson España S.A., Huawei*

(Replaces C3-204238)

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

### 16.7 CT aspects of 5GS enhanced support of vertical and LAN services [Vertical\_LAN]

**C3-204026 Clarification regarding Bridge ID**

*Type: CR For: Agreement  
 29.512 v16.5.0 CR-0526 Cat: F (Rel-16)  
  
 Source: Intel /Thomas*

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

**C3-204102 Correction to QoS flow binding**

*Type: CR For: Agreement  
 29.513 v16.4.0 CR-0185 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-204303 Update the call flows to support TSN**

*Type: CR For: Agreement  
 29.513 v16.4.0 CR-0192 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-204154 List of allowed VLAN Ids within DN authorization data**

*Type: CR For: Agreement  
 29.561 v16.4.0 CR-0048 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204430**.

**C3-204430 List of allowed VLAN Ids within DN authorization data**

*Type: CR For: Agreement  
 29.561 v16.4.0 CR-0048 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-204154)

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

**C3-204218 5G LAN Parameter Provisioning**

*Type: CR For: Agreement  
 29.522 v16.4.0 CR-0210 Cat: F (Rel-16)  
  
 Source: Huawei*

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

### 16.8 CT aspects of Enhancing Topology of SMF and UPF in 5G Networks [ETSUN]

**C3-204193 Add missing applicable messages for IP pool info**

*Type: CR For: Agreement  
 29.561 v16.4.0 CR-0049 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**C3-204194 Remove UP path change for I-SMF**

*Type: CR For: Agreement  
 29.508 v16.4.0 CR-0100 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

### 16.9 CT aspects of System enhancements for Provision of Access to Restricted Local Operator Services by Unauthenticated Ues [PARLOS]

### 16.10 CT aspects on enhancement of network slicing [eNS]

### 16.11 CT aspects of Enhancement to the 5GC LoCation Services [5G\_eLCS]

### 16.12 CT Aspects of Media Handling for RAN Delay Budget Reporting in MTSI [E2E\_DELAY]

### 16.13 Cellular IoT support and evolution for the 5G System [5G\_CIoT]

**C3-204103 Correction to detection of downlink data delivery status change**

*Type: CR For: Agreement  
 29.508 v16.4.0 CR-0097 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-204306 Multiple traffic descriptors**

*Type: CR For: Agreement  
 29.512 v16.5.0 CR-0566 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-204152 Corrections on NiddConfigurationTrigger API**

*Type: CR For: Agreement  
 29.522 v16.4.0 CR-0200 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-204153 Support PDU session status**

*Type: CR For: Agreement  
 29.522 v16.4.0 CR-0201 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-204180 Initial report for multiple PDN connections**

*Type: CR For: Agreement  
 29.122 v16.6.0 CR-0277 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-204406**.

**C3-204406 Initial report for multiple PDN connections**

*Type: CR For: Agreement  
 29.122 v16.6.0 CR-0277 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-204180)

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

**C3-204271 Updates NpConfiguration with mtcProviderId**

*Type: CR For: Agreement  
 29.122 v16.6.0 CR-0287 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to C3-204407**.

**C3-204407 Updates NpConfiguration with mtcProviderId**

*Type: CR For: Agreement  
 29.122 v16.6.0 CR-0287 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-204271)

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

### 16.14 CT aspects on wireless and wireline convergence for the 5G system architecture [5WWC]

**C3-204066 correction to ACCESS\_TYPE\_CH trigger**

*Type: CR For: Agreement  
 29.507 v16.4.0 CR-0129 Cat: F (Rel-16)  
  
 Source: ZTE*

**Decision:** The document was **revised to C3-204343**.

**C3-204343 correction to ACCESS\_TYPE\_CH trigger**

*Type: CR For: Agreement  
 29.507 v16.4.0 CR-0129 rev 1 Cat: F (Rel-16)  
  
 Source: ZTE*

(Replaces C3-204066)

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

**C3-204067 Procedure for IPTV configuration**

*Type: CR For: Agreement  
 29.513 v16.4.0 CR-0182 Cat: F (Rel-16)  
  
 Source: ZTE*

**Decision:** The document was **revised to C3-204334**.

**C3-204334 Procedure for IPTV configuration**

*Type: CR For: Agreement  
 29.513 v16.4.0 CR-0182 rev 1 Cat: F (Rel-16)  
  
 Source: ZTE*

(Replaces C3-204067)

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

**C3-204068 Include resouceURI in IptvConfigData for change notification association**

*Type: CR For: Agreement  
 29.519 v16.4.0 CR-0207 Cat: F (Rel-16)  
  
 Source: ZTE*

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

**C3-204104 Correction to policy control request triggers for wireline access**

*Type: CR For: Agreement  
 29.512 v16.5.0 CR-0539 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-204155 Missed Location header table**

*Type: CR For: Agreement  
 29.522 v16.4.0 CR-0202 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-204173 Corrections related to framed routes**

*Type: CR For: Agreement  
 29.512 v16.5.0 CR-0553 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**C3-204203 URI of ACSParameterProvision API**

*Type: CR For: Agreement  
 29.522 v16.4.0 CR-0206 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-204231 Correction on RAT-Type AVP**

*Type: CR For: Agreement  
 29.212 v16.3.0 CR-1699 Cat: F (Rel-16)  
  
 Source: Ericsson España S.A.*

**Decision:** The document was **revised to C3-204335**.

**C3-204335 Correction on RAT-Type AVP**

*Type: CR For: Agreement  
 29.212 v16.3.0 CR-1699 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson España S.A.*

(Replaces C3-204231)

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

**C3-204232 Correction to E.2**

*Type: CR For: Agreement  
 29.214 v16.3.0 CR-1649 Cat: F (Rel-16)  
  
 Source: Ericsson España S.A.*

**Decision:** The document was **revised to C3-204336**.

**C3-204336 Correction to E.2**

*Type: CR For: Agreement  
 29.214 v16.3.0 CR-1649 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson España S.A.*

(Replaces C3-204232)

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

**C3-204233 Support of 5GS non-3GPP Trusted Access**

*Type: CR For: Agreement  
 29.214 v16.3.0 CR-1650 Cat: F (Rel-16)  
  
 Source: Ericsson España S.A.*

**Decision:** The document was **revised to C3-204337**.

**C3-204337 Support of 5GS non-3GPP Trusted Access**

*Type: CR For: Agreement  
 29.214 v16.3.0 CR-1650 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson España S.A.*

(Replaces C3-204233)

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

**C3-204234 Support of 5GS Wireline Access**

*Type: CR For: Agreement  
 29.214 v16.3.0 CR-1651 Cat: F (Rel-16)  
  
 Source: Ericsson España S.A.*

**Decision:** The document was **revised to C3-204338**.

**C3-204338 Support of 5GS Wireline Access**

*Type: CR For: Agreement  
 29.214 v16.3.0 CR-1651 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson España S.A.*

(Replaces C3-204234)

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

**C3-204237 Support of 5GS and EPC interworking for non-3GPP Trusted Access**

*Type: CR For: Agreement  
 29.512 v16.5.0 CR-0565 Cat: F (Rel-16)  
  
 Source: Ericsson España S.A.*

**Decision:** The document was **revised to C3-204339**.

**C3-204339 Support of 5GS and EPC interworking for non-3GPP Trusted Access**

*Type: CR For: Agreement  
 29.512 v16.5.0 CR-0565 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson España S.A.*

(Replaces C3-204237)

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

**C3-204280 RAT Type extension for 5WWC**

*Type: CR For: Agreement  
 29.061 v16.0.0 CR-0524 Cat: B (Rel-17)  
  
 Source: Ericsson*

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

**C3-204431 RAT Type extension for 5WWC**

*Type: CR For: Agreement  
 29.061 v16.0.0 CR-0526 Cat: B (Rel-16)  
  
 Source: Ericsson*

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

**C3-204281 RAT Type extension for 5WWC**

*Type: CR For: Agreement  
 29.561 v16.4.0 CR-0051 Cat: B (Rel-17)  
  
 Source: Ericsson*

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

**C3-204432 RAT Type extension for 5WWC**

*Type: CR For: Agreement  
 29.561 v16.4.0 CR-0055 Cat: B (Rel-16)  
  
 Source: Ericsson*

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

**C3-204282 User Location extension for 5WWC**

*Type: CR For: Agreement  
 29.561 v16.4.0 CR-0052 Cat: B (Rel-17)  
  
 Source: Ericsson*

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

**C3-204433 User Location extension for 5WWC**

*Type: CR For: Agreement  
 29.561 v16.4.0 CR-0056 Cat: B (Rel-16)  
  
 Source: Ericsson*

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

**C3-204287 Updates to IPv6 Prefix Delegation**

*Type: CR For: Agreement  
 29.561 v16.4.0 CR-0050 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces C3-204272)

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

### 16.15 Volume Based Charging Aspects for VoLTE [VBCLTE]

### 16.16 CT aspects of optimisations on UE radio capability signalling [RACS]

**C3-204156 Unique RACS Id**

*Type: CR For: Agreement  
 29.122 v16.6.0 CR-0275 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204340**.

**C3-204340 Unique RACS Id**

*Type: CR For: Agreement  
 29.122 v16.6.0 CR-0275 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-204156)

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

**C3-204157 Failure response**

*Type: CR For: Agreement  
 29.122 v16.6.0 CR-0276 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-204206 Resource correction**

*Type: CR For: Agreement  
 29.675 v16.1.0 CR-0011 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-204247 Usage of PUT and PATCH**

*Type: CR For: Agreement  
 29.122 v16.6.0 CR-0284 Cat: F (Rel-16)  
  
 Source: Huawei*

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

### 16.17 Service Based Interface Protocol Enhancement [SBIProtoc16]

### 16.18 CT aspects of eV2XARC [eV2XARC]

**C3-204033 Correction of the alternative QoS profile**

*Type: CR For: Agreement  
 29.512 v16.5.0 CR-0527 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Stage 2 changed the alternative QoS parameter sets.

**Discussion:**

C3-204033 and C3-204105 are merged into C3-204308

**Decision:** The document was **revised to C3-204308**.

**C3-204308 Correction of the alternative QoS profile**

*Type: CR For: Agreement  
 29.512 v16.5.0 CR-0527 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell, Huawei*

(Replaces C3-204033)

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

**C3-204069 Include N2 PC5 policy in update response**

*Type: CR For: Agreement  
 29.525 v16.4.0 CR-0106 Cat: F (Rel-16)  
  
 Source: ZTE*

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

**C3-204070 Remove the dependency of subscription data in UDR for V2X**

*Type: CR For: Agreement  
 29.525 v16.4.0 CR-0107 Cat: F (Rel-16)  
  
 Source: ZTE*

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

**C3-204071 Procedure of AF-based service parameter provisioning for V2X**

*Type: CR For: Agreement  
 29.513 v16.4.0 CR-0183 Cat: F (Rel-16)  
  
 Source: ZTE*

**Decision:** The document was **revised to C3-204325**.

**C3-204325 Procedure of AF-based service parameter provisioning for V2X**

*Type: CR For: Agreement  
 29.513 v16.4.0 CR-0183 rev 1 Cat: F (Rel-16)  
  
 Source: ZTE*

(Replaces C3-204071)

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

**C3-204072 Include resouceURI in ServiceParameterData for change notification association**

*Type: CR For: Agreement  
 29.519 v16.4.0 CR-0208 Cat: F (Rel-16)  
  
 Source: ZTE*

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

**C3-204105 Correction to alternative QoS**

*Type: CR For: Agreement  
 29.512 v16.5.0 CR-0540 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-204204 Subscription creation**

*Type: CR For: Agreement  
 29.522 v16.4.0 CR-0207 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-204205 Resource correction**

*Type: CR For: Agreement  
 29.522 v16.4.0 CR-0208 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204324**.

**C3-204324 Resource correction**

*Type: CR For: Agreement  
 29.522 v16.4.0 CR-0208 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-204205)

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

### 16.19 CT aspects of 5G URLLC [5G\_URLLC]

**C3-204077 notifId used for QoS monitoring report**

*Type: CR For: Agreement  
 29.508 v16.4.0 CR-0096 Cat: F (Rel-16)  
  
 Source: ZTE*

**Decision:** The document was **revised to C3-204408**.

**C3-204408 notifId used for QoS monitoring report**

*Type: CR For: Agreement  
 29.508 v16.4.0 CR-0096 rev 1 Cat: F (Rel-16)  
  
 Source: ZTE*

(Replaces C3-204077)

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

### 16.20 Enhancement of 3GPP Northbound APIs [eNAPIs]

### 16.21 CT Aspects of 5GS Transfer of Policies for Background Data [xBDT]

**C3-204075 Include resouceURI in BdtPolicyData for change notification association**

*Type: CR For: Agreement  
 29.519 v16.4.0 CR-0210 Cat: F (Rel-16)  
  
 Source: ZTE*

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

**C3-204245 Reading all subscriptions in ApplyingBdtPolicy API**

*Type: CR For: Agreement  
 29.522 v16.4.0 CR-0212 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204404**.

**C3-204404 Reading all subscriptions in ApplyingBdtPolicy API**

*Type: CR For: Agreement  
 29.522 v16.4.0 CR-0212 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-204245)

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

**C3-204246 Resource URI corrections**

*Type: CR For: Agreement  
 29.522 v16.4.0 CR-0213 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204379**.

**C3-204379 Resource URI corrections**

*Type: CR For: Agreement  
 29.522 v16.4.0 CR-0213 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-204246)

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

### 16.22 CT aspects of SBA interactions between IMS and 5GC [eIMS5G\_SBA]

**C3-204165 Data type correction of the reqAni**

*Type: CR For: Agreement  
 29.514 v16.5.0 CR-0256 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to C3-204312**.

**C3-204312 Data type correction of the reqAni**

*Type: CR For: Agreement  
 29.514 v16.5.0 CR-0256 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces C3-204165)

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

**C3-204239 Correction to Trusted Non-3GPP location information**

*Type: CR For: Agreement  
 29.514 v16.5.0 CR-0258 Cat: F (Rel-16)  
  
 Source: Ericsson España S.A.*

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

**C3-204240 Correction of handling of non-3GPP location information by the P-CSCF**

*Type: CR For: Agreement  
 29.514 v16.5.0 CR-0259 Cat: F (Rel-16)  
  
 Source: Ericsson España S.A.*

**Decision:** The document was **revised to C3-204313**.

**C3-204313 Correction of handling of non-3GPP location information by the P-CSCF**

*Type: CR For: Agreement  
 29.514 v16.5.0 CR-0259 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson España S.A.*

(Replaces C3-204240)

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

**C3-204241 Handling of MPS Session by the P-CSCF**

*Type: CR For: Agreement  
 29.514 v16.5.0 CR-0260 Cat: F (Rel-16)  
  
 Source: Ericsson España S.A.*

**Decision:** The document was **revised to C3-204314**.

**C3-204314 Handling of MPS Session by the P-CSCF**

*Type: CR For: Agreement  
 29.514 v16.5.0 CR-0260 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson España S.A.*

(Replaces C3-204241)

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

### 16.23 CT aspects of application layer support for V2X services[V2XAPP]

**C3-204197 V2XAPP stage 3 specification duplication**

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

**Discussion:**

CP-192077 (CT1 leading)

Huawei: I am confused that 29.486 is specified based on the CT WID and it is not beyond the scope described in that WID. If there are some overlapping between 24.486 and 29.486, I understand there are something wrong in CT1. So it shall be discussed in CT1 not in CT3.

Check the status in CT1.

CT1 pre-agrees to remove duplicity.

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

**C3-204198 LS on V2XAPP stage 3 requirements overlap**

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

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

### 16.24 xMB extension for mission critical services [MC\_XMB-CT]

### 16.25 CT aspects of enhancements for Common API Framework for 3GPP Northbound APIs [eCAPIF]

**C3-204046 Missing and inconsistent “apiVersion” notations and Location header**

*Type: CR For: Agreement  
 29.222 v16.3.0 CR-0151 Cat: F (Rel-16)  
  
 Source: Samsung Electronics Iberia SA*

**Decision:** The document was **revised to C3-204326**.

**C3-204326 Missing and inconsistent “apiVersion” notations and Location header**

*Type: CR For: Agreement  
 29.222 v16.3.0 CR-0151 rev 1 Cat: F (Rel-16)  
  
 Source: Samsung Electronics Iberia SA*

(Replaces C3-204046)

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

**C3-204048 CAPIF Routing Info API corrections**

*Type: CR For: Agreement  
 29.222 v16.3.0 CR-0152 Cat: F (Rel-16)  
  
 Source: Samsung Electronics Iberia SA*

**Decision:** The document was **revised to C3-204327**.

**C3-204327 CAPIF Routing Info API corrections**

*Type: CR For: Agreement  
 29.222 v16.3.0 CR-0152 rev 1 Cat: F (Rel-16)  
  
 Source: Samsung Electronics Iberia SA*

(Replaces C3-204048)

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

**C3-204049 CAPIF topology hiding correction**

*Type: CR For: Agreement  
 29.222 v16.3.0 CR-0153 Cat: F (Rel-16)  
  
 Source: Samsung Electronics Iberia SA*

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

### 16.26 CT aspects of Service Enabler Architecture Layer for Verticals [SEAL]

**C3-204050 Correct apiVersion notation**

*Type: CR For: Agreement  
 29.549 v16.0.0 CR-0001 Cat: F (Rel-16)  
  
 Source: Samsung Electronics Iberia SA*

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

**C3-204051 Corrections to API and Event names**

*Type: CR For: Agreement  
 29.549 v16.0.0 CR-0002 Cat: F (Rel-16)  
  
 Source: Samsung Electronics Iberia SA*

**Decision:** The document was **revised to C3-204328**.

**C3-204328 Corrections to API and Event names**

*Type: CR For: Agreement  
 29.549 v16.0.0 CR-0002 rev 1 Cat: F (Rel-16)  
  
 Source: Samsung Electronics Iberia SA*

(Replaces C3-204051)

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

**C3-204052 Correct Identity filter in Events API**

*Type: CR For: Agreement  
 29.549 v16.0.0 CR-0003 Cat: F (Rel-16)  
  
 Source: Samsung Electronics Iberia SA*

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

**C3-204053 SS\_KeyInfoRetrieval API correction**

*Type: CR For: Agreement  
 29.549 v16.0.0 CR-0004 Cat: F (Rel-16)  
  
 Source: Samsung Electronics Iberia SA*

**Decision:** The document was **revised to C3-204329**.

**C3-204329 SS\_KeyInfoRetrieval API correction**

*Type: CR For: Agreement  
 29.549 v16.0.0 CR-0004 rev 1 Cat: F (Rel-16)  
  
 Source: Samsung Electronics Iberia SA*

(Replaces C3-204053)

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

**C3-204055 Key Management API description**

*Type: CR For: Agreement  
 29.549 v16.0.0 CR-0005 Cat: F (Rel-16)  
  
 Source: Samsung Electronics Iberia SA*

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

**C3-204056 UnicastSubscription attribute presence correction**

*Type: CR For: Agreement  
 29.549 v16.0.0 CR-0006 Cat: F (Rel-16)  
  
 Source: Samsung Electronics Iberia SA*

**Decision:** The document was **revised to C3-204330**.

**C3-204330 UnicastSubscription attribute presence correction**

*Type: CR For: Agreement  
 29.549 v16.0.0 CR-0006 rev 1 Cat: F (Rel-16)  
  
 Source: Samsung Electronics Iberia SA*

(Replaces C3-204056)

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

**C3-204058 SS\_LocationInfoRetrieval API service operation semantic**

*Type: CR For: Agreement  
 29.549 v16.0.0 CR-0007 Cat: F (Rel-16)  
  
 Source: Samsung Electronics Iberia SA*

**Discussion:**

Huawei: Even use the SS\_Events API to implement the SS\_LocationInfoRetrieval, it’s still request/response communication. Hence the change of operation semantics should be recall.

Samsung: All the SEAL APIs using SS\_Events API are of type subscribe/notify. Like other APIs, SS\_LocationInfoRetrieval also sends event subscription request and receives the response in notification message.

Can you clarify why we cannot classify SS\_LocationInfoRetrieval as subscribe/notify?

Huawei: My understanding if it’s just use single request&reponse message, it should keep the communication as it’s.

If SS\_LocationInfoRetrieval API should be request/response, then need to also correct it.

Ericsson: agree with current CR proposal. Actually even for a simple request to retrieve the target UE location, as described in 9.3.9 of 23.434, the LMS relies on the procedure 9.3.4 to get target LMC location and such procedure involves user interaction, that is why the step 4 is a separate report (not a response) sent by the target LMC.

Huawei: My understanding is that step 4 is the corresponding HTTP response of step 2. But do you mean, step 4 is another HTTP request, and after step 2 there is a response which is not indicated in the figure?

And how the stage 2 define the communication way for the API? Request/response or subscribe/notify?

Ericsson: Step 4 is another HTTP request and after step 2 there is a response not shown in the figure.

Yes, you can check CT1 specification, it is a POST for step 4. I would say stage 2 is incorrect.

Huawei: Why CT1 define the procedure or messages?

And if step 4 is a new HTTP request, then CT3’s specification is incorrect, right?

Ericsson: CT1 is entitled to define the interaction btw. LMC & LMS.

CT3 specification is correct, we re-use the SEAL EVENT API to realize SS\_LocationInfoRetrieval API, and it is perfectly fitting the subs/notif. model.

You may also observe a duplicated definition for the interaction btw. SEAL server and VAL server in both CT3 and CT1, this is connected to the separate discussion we will need to solve (maybe next time).

Samsung: As per Stage 2, the service operation (Obtain\_Location\_Info) is Request/Response, as it is a request for information from VAL server. Also, most of the specifications in CT3, for delayed responses, were handled through provisional response and notification target. We still kept them Request/Response.

In this case, we in stage 3, considered to reuse SS\_Events API to realize the service operation. This CR is just aligning to what we agreed for Obtain\_location\_Info service operation.

Huawei: Change the communication from request/response to subscribe/notify due to reusing the SS\_Events API can’t convinced me. Because, it’s HTTP Request/Response procedure, no notification is needed for the API.

Samsung: Even with immediate reporting, the required location information is sent on the notification target immediately. Correct? Requested location information is not in the response message to Event subscription request message.

Huawei: As we discussed in last meeting, if the immediate flag is set, the location information is provided in the response not a new notification, right?

Samsung: My understanding is the location information is provided in a notification immediately.

That’s my understanding of “Immediate Reporting” feature.

Huawei: As described in TS 23.502, if the immediate reporting flag is set, the first corresponding event report is included in the response, if corresponding information is available at the reception of the subscription request of the event. Please also check agreed CRs C3-203281/3282/3284/3285 in last CT3 meeting.

Huawei:

After checking, the SEALEventDetail is missed in the HTTP response of Event Subscription for SS\_LocationInfoRetrieval API.

Please add the eventDetails which by using SEALEventDetail data type into the SEALEventSubscription data type based on the agreement in last meeting. And extend the subclause 5.2.3 about the response information, e.g. the LMS responds the Location information via the HTTP response ….

Ericsson: Just to confirm:

1) Do you agree this is “subs/notif”?

2) And you also want to have piggybacked response as alternate event report, besides the event report notification?

Huawei: My understanding is that it’s request/response as we already agreed in CT3#109e meeting.

Samsung: Whatever agreements were made in CT3#109 meeting, are implemented. I read the CRs referred by you and you are asking the same to be followed here. However, I see the approach not RESTful. Assuming a resource “/subscription”, which includes all event subscriptions, to maintain event reports as well? I do not have any preference between Request/Response and Subscribe/notify. Either of them are fine with me. As rapporteur my preference is keep the definitions aligned to the principle, whatever approach is taken. Also in C3-203281, with immediate reporting for Nnwdaf\_EventsSubscription, the service semantic is still subscribe/notify. Other specifications do not have operation semantics defined, hence there is no confusion.

As way forward, If this is the approach the group agrees to handle for “immediate reporting” flag, I am fine.

Huawei: As ‘Whatever agreements were made in CT3#109 meeting, are implemented.’, I would like to say the event details are missed in the response in CT3#109e meeting based on our agreement. Right?

If you want to change the mechanism we agreed before for the API, then I would say, SS\_Events API is not suitable to be used here, a new API as Huawei proposed in the beginning should be considered.

The idea of reusing SS\_Events API with immediate reporting is not from Huawei but from Ericsson, I am surprised that you disagree with it in this meeting which is not follow the logic of immediate reporting procedure agreed before and in stage 2.

Samsung:

As suggested in my previous mail, as way forward, I am fine if the group decides to handle “immediate reporting” this way. I just stated by view.

“EventDetails” are missing if immediate reporting is to be implemented in the event subscription response itself.

No disagreement that this was brought by Ericsson.

Ericsson: Just to confirm (again):

1) Do you agree this is “subs/notif”?

2) And you also want to have piggybacked response as alternate event report (i.e. add eventDetails as optional information in SEALEventSubscription), besides the event report notification?

Could it be handled in the next meeting so we can have a clear input from SA6 (step 3 below may be changed to Location information notification)?

Huawei: From the figure, my understanding is still request/response for SS\_LocationInfoRetrieval API.

But let’s see whether we can reach agreement on using SS\_Events API with immediate reporting to implement it as I proposed during the conference call, if yes, I can compromise to accept subscribe/Notify in CT3.

Ericsson: I submitted the SA6 paper as promised (S6-201446), it is good that you can get an early feedback from your colleague and see if CT3 can do something in this meeting.

Huawei: I will check the CR with our SA6 colleagues.

In this meeting, I am fine if the event details is added into the response and indicates ‘if available’, then fine to change request/response to subscribe/notify.

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

### 16.27 CT aspect of single radio voice continuity from 5GS to 3G [5G\_SRVCC]

### 16.28 Technical Enhancements and Improvements [TEI16]

#### 16.28.1 TEI16 for IMS/CS

#### 16.28.2 TEI16 for Packet Core

**C3-204025 Adding Support for Indicating Serialization Format in RDS**

*Type: CR For: Agreement  
 29.122 v16.6.0 CR-0268 Cat: C (Rel-16)  
  
 Source: Convida Wireless LLC, Intel*

**Abstract:**

Updates the NIDD Configuration API to support Indicating the Serialization Format when the reliable data service is used

**Discussion:**

Coversheet: missing impacts in OpenAPI spec in Other Comments.

Ericsson: Please find the comment for this CR:

- I think it doesn’t belong to R16 since this is an optional feature and the R16 was frozen in stage 3.

- The added information in NIDD configuration is not working since it is related to the static RDS ports which doesn’t involve RDS message exchange for serialization format negotiation.

Huawei: prefer to define the feature in Rel-17 and with the following comments:

1. Whether the serialization formats may be different between UE and SCEF indicated by portUE or portSCEF respectively? If yes, how to indicate the relationship?

2. No need to define two data types but only one to support serialization formats;

3. Shorten the attribute name and align the name of data type which should follow the naming conversion

4. More formats may be supported, e.g. Thrift, Protobuf, please indicate at least these two, and define an ‘OTHER’ value to supports other formats.

Convida Wireless to Ericsson: We understand that we need to be selective about what TEI16 proposal are allowed, but we think that this feature belongs in Rel-16. The feature was added in stage-2 in Rel-16 as part of the RDSSI (SP-190446) work item. This was based on a request from oneM2M. We would like to see this work progress so that oneM2M can make better use of the NIDD API.

Regarding your second comment… Yes, NIDD Configuration is not directly part of the format negotiation. However, as described in TS 23.682 (clause 4.5.14.3), NIDD Configuration is used by the SCS to tell the SCEF what formats it supports and the NIDD Configuration update is used by the SCEF to tell the UE what format is configured for each port. Basically, the steps are:

1. NIDD Configuration, the SCS to tell the SCEF what formats it supports

2. Port Management, the format is negotiated.

3. NIDD Configuration Update, the SCEF tells the SCS what format will be used.

This CR addressed step 1 and 3. Step 2 is being addressed in a CT1 CR.

I uploaded a revision which addresses some comments from Huawei. R1 available.

Convida Wireless to Huawei:

We would like to see this work progress in Rel-16. The feature was added in stage-2 in Rel-16 as part of the RDSSI (SP-190446) work item. This was based on a request from oneM2M. We would like to see this work progress so that oneM2M can make better use of the NIDD API.

To address your comments……..

1. I would expect that the serialization format will be the same in each direction. So the answer to Q1 is no.

2. The reason for defining 2 data types is that we need one data type to allow the SCS to indicate what it supports and another data type to indicate what format is configured on each port.

3. In this revision, I shortened the attribute names and tried to make sure that I am following the naming convention. Please let me know if this is better. I might still be missing something in terms of the naming convention. If so I apologize, please let me know.

4. This work is motivated by an LS from oneM2M. oneM2M does not support Thrift and Protobuf. However, I am fine to add them. I also added the ‘OTHER’ value.

Ericsson: I understood format negotiation but my point is not for that.The rds ports in nidd configuration is static.

The dynamic port configuration which involves the RDS port mgmt. message exchange is described in cl.4.4.5.6 of 29.122, so this is what I said “not working”.

For adding protobuf, thrift (and probably another one called avro from apache), I’m not sure if they were adopted into any standard.

I think we should only specify the standardized formats.

Convida Wireless: Regarding protobuf and thrift, your points are well taken. Since they were not previously discussed in the context of RDSSI, we probably should not add them. I removed them in r02. Huawei: hopefully you are also ok with this.

Regarding the static configuration. I think that I see your point now. I made a modification to account for this.

• In terms of what serialization formats are supported by the SCS, this is not dynamic and should not change we ports are reserved, released, etc. Thus, in r02, I made change so that the SCS indicates what format(s) it supports for port numbers 0-15. In other words, there is no need for me to make the array size dynamic. The SCS can indicate the supported formats before any port reservation operations take place.

• Also, I made change so that the configured serialization format a fixed array size of 0-15. I also added a NONE option for the SerializationFormat to indicate the case where no serialization format has been configured.

Regarding oneM2M and the target release. The point is that oneM2M indicated that they desire the feature, stage-2 added it in Rel-16, and we believe that stage-3 should be aligned.

Regarding the CR category. In SA2, we used Cat C. The thinking was that we are modifying an existing feature (e.g. the T8 interface). Although I could see why one could argue that it is a B.

Revision available.

Ericsson: On “The SCS can indicate the supported formats before any port reservation operations take place.” Well, it can. But it is still not clear which supportedFormats instance corresponds to which dynamic port sub-resource that was created later under the same NIDD configuration.

I would prefer to make a clean separation, i.e. the impact in cl.4.4.5.6 of TS 29.122.

Convida Wireless: In a situation where the SCS indicates that it supports different serialization formats on different ports, there is no reason that the supported formats will change due to a Port Management Configuration operation. In other words, the SCS knows the application type based on the port number. Situations might arise an App tries to reserve a port number, finds that it is already reserved, and then ends up using a different port number. However, even in that scenario, the SCS would still have to indicate what serialization formats it supports before the ports are negotiated.

In other words, a common situation would be that the SCS indicates that same supported formats on all port numbers. However, if the SCS does indicate different serialization formats on different ports, then then the outcome of Port Management Configuration will not change what the SCS supports.

This is consistent with TS 23.682 which states “During NIDD Configuration, the SCS/AS may indicate which serialization formats it supports for mobile originated and mobile terminated traffic in the Reliable Data Server Configuration.”. So we would like to avoid any impact to the Port Management Configuration Clause.

Category of the CR will be F.

In CT3#111e will be a bit tolerant for non-fully FASMO CRs for the alignment with SA2. We will be a bit flexible with NBC changes as long as it is related with functionality introduced in Release 16 that is not considered major. The major version in that case will not be increased.

Ericsson: I agree that the supported serialization formats is not supposed to be changed in the middle of the transaction but it could happen when the application SW is upgraded to support more formats then new port reservation can include new formats. But I found this limitation is not so related to the discussion.

In Port Management Configuration operation, the AF can indicate what formats (JSON, CBOR…) it supports along with other application info, and once the sub-resource is created, it can only be deleted/read, there is no chance to update the sub-resource.

Once the format negotiation is done btw. SCEF and UE, the final commonly agreed format (only one format) is sent to AF.

If you put the new info in NiddConfiguration, this configuration resource can be updated then we have a risk of allowing format modification and will require extra procedure limitation and complexity.

Convida Wireless: I agree with you that “the final commonly agreed format (only one format) is sent to AF”. If your point is that the SCS should not be able to change the commonly agreed format, then I agree. Further to your point, I think that I should have made serializationFormats read-only. This is what I see is already done for niddStatus.

In r03, I made serializationFormats read-only so that we do not risk the SCS attempting to change it (similar to how niddStatus is handled). I also fixed 2 mistakes that I had in the naming of the 2 new tables. Changes compared to r02 are highlighted in green.

R3 is made available.

Ericsson: I don’t think we have agreed where to put those “formats” information.

Current proposal still put it under NiddConfiguration. My proposal is to put it under ManagePort.

The disadvantages to have it in NiddConfiguration:

- Extra complexity to limit “format” to be untouchable. Note that niddStatus is provided in the response message, not in the request message. See https://swagger.io/specification

- Extra complexity to trigger RDS messages during NIDD configuration. If “format” for max. 16 ports are provided by AF, it will trigger at least 16 RDS message pair exchange. The legacy NIDD configuration can piggyback \*one and only one\* MT NIDD.

If triggering RDS message was not intended in the current CR but just offering a provisioning possibility for the AF, it is still unclear which supportedFormats instance corresponds to which individual managePort configuration instance that is created by Manage Port procedure.

Then to have clear 1:1 relationship it is fine to provide it via ManagePort, from “format” provisioning point of view.

But I do see the advantage to provide it under ManagePort since it doesn’t allow modification of any resource representation (i.e. no PUT for update defined).

Convida Wireless:

agree with your point below that stage-2 does not say where we need to put the formats.

R4 is made available.

In r4, I moved the configured format under ManagePort. I think that this is aligned with what you suggest. Please see the yellow highlighted text in the update and let me know if this is ok.

Huawei: Please find my comments on r4 as follows:

1. Subclause 4.4.5.2.1 adds ‘the serialization formats are supported by the SCS/AS for each port number’, but in subclause 5.6.2.1.2 NiddConfiguration, the supported formats are added together with a list of RdsPorts, which means the formats indicated by the ‘supportedFormats’ attribute apply to all the port numbers indicated by ‘rdsPorts’. My understanding is that, the supported serialization formats should be defined within each RdsPort data type which indicate each port number;

2. Subclasue 5.6.2.1.2: if the supportedFormats is described only to indicate the serialization format(s), suggest to use a precise attribute name for serialization format(s) and one data type is good enough. If more formats need to supported, then just add a new attribute in the RdsPort data. And why the cardinality is 0..15?

3. The definition for data type is not following the naming convention, e.g. should use Capital letter as the first letter of a data type name.

Ericsson: For R4:

- supportedFormat is still not removed from NiddConfiguration, it should be added under ManagePort not as part of the resource URI in 5.6.3.9.2.

- The final selected format will also be part of the ManagePort which indicates the negotiated result.

- Align the openAPI definition accordingly, RdsPort data type in openAPI definition should not be impacted.

Convida Wireless:I moved the supportedFormat so that it is also under ManagePort. Now, the supportedFormat and the final negotiated port (i.e. configuredFormat) are both under ManagePort.

After this change, things are simplified a bit and this also addresses Huawei’s comments. R5 is made available.

Ericsson: Couple of comments for R5:

- For R4, I said “it should be added under ManagePort not as part of the resource URI in 5.6.3.9.2.” In R5, I see it is still updating 5.6.3.9.2.

- Correspondingly, the change for cl.4.4.5.2.1 should be moved to cl.4.4.5.6.

BTW, this CR has functional dependency with CT1 CR C1-204912. From meeting minute, CT1 may decide to implement this function in R17. If so, there is no point to support it via T8/N33 in R16 since it is not working E2E in R16.

Convida Wireless: the corresponding CT1 CR (C1-204912) has been postponed until Rel-17, so it does not make sense for us to continue with this CR in CT3. Thus, I propose to mark this CR as POSTPONED.

**Decision:** The document was **revised to C3-204288**.

**C3-204288 Adding Support for Indicating Serialization Format in RDS**

*Type: CR For: Agreement  
 29.122 v16.6.0 CR-0268 rev 1 Cat: F (Rel-16)  
  
 Source: Convida Wireless LLC, Intel*

(Replaces C3-204025)

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

**C3-204042 Clarification on using PAP/CHAP for 5GS interoperability**

*Type: CR For: Agreement  
 29.061 v16.0.0 CR-0515 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated, Vodafone*

**Discussion:**

Huawei: The protocol defined in 29.061 does not support to carry the information enhanced for the 5GS. I don’t think it can work well when the UE accesses the 5GC.

It is also not clear to me how this proposal works in the interwork scenario.

Ericsson: Updating TS 29.061 gives incorrect impression that the MME/SGSN needs to select the combo node but EPC CN already support raw PAP/CHAP as it is.

I suggest to discuss this under 29.561 thread for the 5G TS.

Vodafone to Ericsson: Are you suggesting that any description of routing of the PCO contents to a combined SMF/P-GW should be in 29.561 and not 29.061? Since 29.061 already describes authentication via RADIUS or diameter server why is it not better to make the change in 29.061?

Vodafone to Huawei: please can you indicate which interworking scenario are you referring to by "It is also not clear to me how this proposal works in the interwork scenario" so that I can check it?

Ericsson: TS 29.061 is describing EPC interworking with AAA via Gi/SGi so UE supporting EPC NAS including PAP/CHAP is ready supported by PGW, I don’t see any need to impact this TS.

Huawei: We don’t define the 5GS and EPS interworking scenario either in 29.061 or 29.561. So I don’t understand how your proposal works in this scenario, e.g. the UE moves from the 5GS to EPS or vice versa.

Vodafone to Ericsson: Since the architecture with PDN gateway and combined SMF/PDN gateway are described in different specifications (23.401, 23.501) it seems to me good to clarify that this PAP/CHAP procedure still applies in the combined SMF/P-GW case. Are you aware of any existing general statement that makes this clear? For example I found the following text in 23.501

"When the UE requests to establish a PDU Session to a DNN and an S-NSSAI of the HPLMN, if the UE MM Core Network Capability indicates the UE supports EPC NAS and optionally, if the UE subscription indicates the support for interworking with EPS for this DNN and S-NSSAI of the HPLMN, the selection functionality (in AMF or SCP) selects a combined SMF+PGW-C. Otherwise, a standalone SMF may be selected. "

Check offline if it would be acceptable to support SMF decoding PAP/CHAP from ePCO and using N6 for that purpose in Release 15. In that case the WID would not be accepted.

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

**C3-204044 Clarification on using PAP/CHAP for 5GS interoperability**

*Type: CR For: Agreement  
 29.561 v16.4.0 CR-0037 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated, Vodafone*

**Discussion:**

Huawei: I understand:

Adding a NOTE in Rel-16 is not essential correction.

How to select a SMF+PGW-C is not the scope of 29.561.

I can’t agree this proposal.

Ericsson: The current NOTE gives me the impression that AMF will be able to detect PAP/CHAP (?) and then select a combo node.

Maybe this is not what was intended but I agree a NOTE is not appropriate.

The essential thing is how to make SMF support raw PAP/CHAP in 5G then it doesn’t matter whether a combo node is selected or not.

Nokia: I would agree that the essential aspect is the enhancement of an Release 17 SMF to support RADIUS/DIAMETER protocols to interact with external DN-AAA server. I assume we do not need something for Release 16, because for a specific DNN an AMF can select a combo SMF+PGW without a change in the specifications. May be in 29.561 for Release 17 an indication like “PAP/CHAP information received in PCO may need to be sent by the SMF to the DN-AAA”.

May be that’s all (?).

Qualcomm:

The note says “appropriate configuration of S-NSSAI/DNN combination can be included in the UE's subscription” which results in using the combo node.

This note does not propose how an SMF can support PAP/CHAP, but only points to what support already exists and how it can be used.

The note does not provide a new technique to select an SMF+PGW-C, rather it only points to what is already existing, which is using configuration of S-NSSAI/DNN in the UE's subscription, resulting in using a slice that supports a combo node.

Qualcomm: This selection of combo node can indeed be done, but all the note is doing is to point this existing support out explicitly.

Ericsson: For UE not supporting EPC NAS, will you also enforce the selection of combo GW?

If yes, this will impact the SMF selection logic in AMF.

If no, we are not solving the need.

Qualcomm: I am not sure I am understanding your question fully. When you say that if the UE is not supporting EPC NAS, are you implying that there will be no native 5GS solution? If this is what you are asking then yes, the note does not add any native 5GS solution for the problem, and this is not the intention. We are rather supportive of doing parallel work on a native 5GS solution as well and the note is not meant to preclude that.

Huawei: I would like know your assumption behind your proposal.

1) Do you have separate AAA server for EPS or 5GS respectively or only one AAA server supporting 5GS and EPS?

2) Do you have two interfaces between the SMF+PGW-C and AAA server or only one interface?

The protocol defined in 29.061 supports the PAP/CHAP authentication, but it doesn’t support the 5GS specific procedure. Can you make it clear how the PGW-C component can support the 5GS specific procedure?

Qualcomm:

On 1) I think it depends on deployment scenario since AAA may be in or outside the operator network, perhaps Vodafoe could comment on this.

On 2) Sorry I don’t understand why would there be more than one interface between two node types,

On last question, ff by 5GS specific procedure I understand PAP/CHAP authentication in 5GS with no interworking, then no. I would repeat this: this note is not adding any new functionality: PAP/CHAP support in 5GS without interworking does not exist and would need to be implemented as noted in the proposed WID in this meeting. This note is just pointing to the existing support of PAP/CHAP in an interworking scenario

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

**C3-204149 Remove 5G procedures to TS 29.522**

*Type: CR For: Agreement  
 29.122 v16.6.0 CR-0274 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204289**.

**C3-204289 Remove 5G procedures to TS 29.522**

*Type: CR For: Agreement  
 29.122 v16.6.0 CR-0274 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-204149)

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

**C3-204150 Remove 5G procedures from TS 29.122**

*Type: CR For: Agreement  
 29.522 v16.4.0 CR-0199 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-204151 Data type correction**

*Type: CR For: Agreement  
 29.521 v16.4.0 CR-0092 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-204174 Correcting feature numbers**

*Type: CR For: Agreement  
 29.512 v16.5.0 CR-0554 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**C3-204184 Support CAPIF custom header**

*Type: CR For: Agreement  
 29.116 v16.5.0 CR-0051 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**C3-204191 Support CAPIF custom header**

*Type: CR For: Agreement  
 29.549 v16.0.0 CR-0008 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

### 16.29 OpenAPI version updates

**C3-204381 29.522 Rel-16 Update of OpenAPI version and TS version in externalDocs field**

*Type: CR For: Agreement  
 29.522 v16.4.0 CR-0218 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-204382 29.122 Rel-16 Update of OpenAPI version and TS version in externalDocs field**

*Type: CR For: Agreement  
 29.122 v16.6.0 CR-0289 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**C3-204383 OpenAPI version update of Nudr\_DataRepository API**

*Type: discussion For: discussion  
 Source: Huawe*

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

**C3-204384 29.519 Rel-16 Update of TS version in externalDocs field**

*Type: CR For: Agreement  
 29.519 v16.4.0 CR-0213 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204438**.

**C3-204438 29.519 Rel-16 Update of TS version in externalDocs field**

*Type: CR For: Agreement  
 29.519 v16.4.0 CR-0213 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-204384)

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

**C3-204393 29.512 Rel-16 Update of OpenAPI version and TS version in externalDocs field**

*Type: CR For: Agreement  
 29.512 v16.5.0 CR-0567 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204441**.

**C3-204441 29.512 Rel-16 Update of OpenAPI version and TS version in externalDocs field**

*Type: CR For: Agreement  
 29.512 v16.5.0 CR-0567 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces C3-204393)

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

**C3-204394 29.514 Rel-16 Update of OpenAPI version and TS version in externalDocs field**

*Type: CR For: Agreement  
 29.514 v16.5.0 CR-0261 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**C3-204395 29.520 Rel-16 Update of OpenAPI version and TS version in externalDocs field**

*Type: CR For: Agreement  
 29.520 v16.4.0 CR-0221 Cat: F (Rel-16)  
  
 Source: China Mobile*

**Decision:** The document was **revised to C3-204440**.

**C3-204440 29.520 Rel-16 Update of OpenAPI version and TS version in externalDocs field**

*Type: CR For: Agreement  
 29.520 v16.4.0 CR-0221 rev 1 Cat: F (Rel-16)  
  
 Source: China Mobile*

(Replaces C3-204395)

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

**C3-204396 29.549 Rel-16 Update of OpenAPI version and TS version in externalDocs field**

*Type: CR For: Agreement  
 29.549 v16.0.0 CR-0009 Cat: F (Rel-16)  
  
 Source: Samsung*

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

**C3-204397 29.222 Rel-16 Update of OpenAPI version and TS version in externalDocs field**

*Type: CR For: Agreement  
 29.222 v16.3.0 CR-0158 Cat: F (Rel-16)  
  
 Source: Samsung*

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

**C3-204435 29.507 Rel-16 Update of OpenAPI version and TS version in externalDocs field**

*Type: CR For: Agreement  
 29.507 v16.4.0 CR-0135 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**C3-204436 29.525 Rel-16 Update of OpenAPI version and TS version in externalDocs field**

*Type: CR For: Agreement  
 29.525 v16.4.0 CR-0113 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**C3-204437 29.591 Rel-16 Update of OpenAPI version and TS version in externalDocs field**

*Type: CR For: Agreement  
 29.591 v16.1.0 CR-0024 Cat: F (Rel-16)  
  
 Source: Huawei*

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

### 17.1 Rel-17 Work Items

**C3-204017 Status of study on enhanced support of IIoT in 5GS (FS\_IIoT)**

*Type: discussion For: Information  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

We provide information on a Rel-17 study item for which Nokia has taken the role of rapporteur: FS\_IIoT.

**Discussion:**

A lot of work is still required to finish the work. The WID will come once the study is concluded.

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

**C3-204027 Analytics on eNA Phase 2 work**

*Type: discussion For: Discussion  
 Source: Huawei*

**Discussion:**

WID will start when normative work is ready in SA2. A proposed TS for Network Data Analytics signalling flows is acceptable in CT3. NWDAF procedures from TS 29.513 would be moved to the new TS from Release 17 onwards.

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

**C3-204028 Discussion paper on FS\_enh\_EC**

*Type: discussion For: Discussion  
 Source: Huawei*

**Discussion:**

WID will start when normative work is ready in SA2.

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

**C3-204059 Impacts of EDGEAPP to CT WGs**

*Type: discussion For: Information  
 Source: Samsung Electronics Iberia SA*

**Discussion:**

The WID will be brought in CT3#112e where it is expected that SA6 work is ready. Companies are asked to provide feedback on the followed approach before next meeting.

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

**C3-204167 State of Rel-17 enhancements for non-public networks (eNPN) in other WGs**

*Type: discussion For: Information  
 Source: Ericsson*

**Abstract:**

Corresponds to CT1 document C1-204776.

**Discussion:**

The WID will be brought when the requirements are stable.

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

#### 17.1.1 New or revised Work Items

**C3-204029 Discussion on TEI17\_SPSFAS and TEI17\_DCAMP**

*Type: discussion For: Endorsement  
 Source: China Telecom*

**Abstract:**

This paper discusses on the necessity of SA2 TEI17 WIDs established as separate projects in stage 3.

**Discussion:**

CT3 agrees to handle these functionalities as two separate Work Items.

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

**C3-204030 New WID on CT aspects on Dynamically Charging AM Policies in the 5GC**

*Type: WID new For: Approval  
 Source: China Telecom*

**Abstract:**

New WID on CT aspects on Dynamically Charging AM Policies in the 5GC

**Discussion:**

Nokia: the WID clashes with the WID C3-204212. The title should be in-line with the SA2 title. Please check whether SP-200446 or SP-200580 was approved by SA. Further comments, see C3-204212.

China Telecom: Discussed offline with Ericsson. We'd like to merge 4030 to Ericsson's 4212 after further discussions on details and other comments

CT3 agrees to postpone the WI to next CT3 meeting if stable content is ready. WIDs from China Telecom and Ericsson will be merged and updated according to the agreed scope in SA2. Ericsson WID will be used as a basis. Check how to handle TEI17 WIs.

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

**C3-204031 New WID on CT aspects on Same PCF Selection For AMF and SMF**

*Type: WID new For: Approval  
 Source: China Telecom*

**Abstract:**

New WID on CT aspects on Same PCF Selection For AMF and SMF

**Discussion:**

China Telecom: I made some modifications on C3-204031 after the deadline of tdoc submission.

So please check C3-204031\_r1. Revision available.

CT3 agrees to postpone the WID to next meeting when stable content is ready. Comments in the meantime are welcome. Check how to handle TEI17 WIs.

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

**C3-204035 CT aspects on Dynamically Changing AM Policies in the 5GC**

*Type: WID new For: Approval  
 Source: Ericsson España S.A.*

**Decision:** The document was **revised to C3-204212**.

**C3-204036 Discussion on Dynamically Changing AM Policies in the 5GC**

*Type: discussion For: Information  
 Source: Ericsson España S.A.*

**Decision:** The document was **revised to C3-204213**.

**C3-204037 Discussion on Dynamic Management of Group-based Event Monitoring**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Discussion:**

The WID will be presented by next CT3 meeting if work is stable.

Companies require more time to see if separate WIDs are needed.

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

**C3-204038 New WID CT aspects on Dynamic Management of Group-based Event Monitoring**

*Type: WID new For: Approval  
 Source: Ericsson*

**Discussion:**

Huawei: The WID is still premature due to no CR or normative work is agreed in stage 2, we should wait for stable stage 2 input.

And the title should use TEI17\_GEM as WID title to align with stage 2.

The WID would be presented when work is stable. Further discussions are needed.

Ericsson:

As comments and discussion in our yesterday conference call,

1) This is standalone WI with clear Objective and normative works scope defined, different from each release WI eg. TEI15, TEI16, TEI17 with updates can’t be classified into a specific standalone WI.

2) The issue of TEI17\_ as prefix is let the standalone WI hidden and easily mixed with massive TEI17 CRs, which doesn’t happen with eg. current Release 16 standalone WIs’ CR vs hundreds of TEI16 CRs.

We could better discuss with other CT groups to get common effective views to align accordingly.

Huawei: I disagree with the argument. If stage 2 use TEI17\_ as prefix of WID and not be mixed with other massive TEI 17 CRs, why CT3 has the issue? CT3 has more massive number than SA2?

And as we commented, stage 2 use TEI17\_XXX WID to define late and small requirement in the SA plenary which is just because of specific procedure in the plenary, does not mean CT should follow the same way.

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

**C3-204039 New WID on Authentication and key management for applications based on 3GPP credential in 5G**

*Type: WID new For: Approval  
 Source: China Mobile*

**Discussion:**

Nokia: will support the WID. Please list Nokia and Nokia Shanghai Bell as supporting companies.

Qualcomm: Overall we are supportive of this WID but have some comments:

1. What is the expected ME impact (it is shown as “Yes”)? Also, the WID does not list the impacted CT1 specs.

2. AN impact should be set to “No” (this is a CT WID).

3. UICC apps impact is set to “Don’t’ know”. We don’t think there is an AKMA impact for UICC. In that case, the UICC impact should be set to “No”

If the comments can be addressed, we from Qualcomm Incorporated would like to support the WID.

Ericsson: Would you consider below comments,

1) Clause 3, normative work required for the following features : please consider to add “Deriving the A-KID”;

2) Clause 4, for CT3 normative work a), please consider updates AKMA AF Key => AKMA Key;

3) Whether possible to check CT1 potential impact on not, by LS to CT1 group or other effective way, e.g. whether below TS 33.535 description will impact CT1 on Kausf for A-KID and Kakma generation.

“Before invoking AKMA service, UE shall have successfully registered to the 5G core, which results in KAUSF being stored at the AUSF and the UE after a successful 5G primary authentication.”

China Mobile to Qualcomm: Thank you for your comments and supporting. A draft revision will be available based on your comment 2 and 3.

For comment 1, as Ericsson also have the comment related to CT1 impact, I suggest to change the ME impact as "Don't know" and draft a LS to CT1 for comments. Do you agree with this proposal?

China Mobile to Ericsson: Comments 1 and 2 are accepted. A draft revision will be available.

For comment 3, China Mobile would like to be volunteer to draft the LS.

Qualcomm: Instead of an LS, a better way we suggest is to provide this WID as a late input to CT1 to get the feedback.

China Mobile: Draft revision 2 of C3-204039 new WID of AKMA have been uploaded. Main changes are:

1) ME impact is changed into "Don't Know";

2) UICC APP impact is changed into "No";

3) AN impact is changed into "No";

4) Deriving the A-KID is added;

5) AKMA AF Key is changed into AKMA Key;

6) CT3/4 responsibility are added;

7) Hewlett Packard Enterprise, Nokia, Nokia Shanghai Bell, Qualcomm Incorporated are added as support company.

Any further comments and support are welcome.

China Mobile to Qualcomm: My concern is that how to describe CT1 responsibility in the WID and affected TSs. Any suggestion?

Further offline check with SA3/CT1 colleagues will be done. Possible way forward is to add a note indicating that further impacts that could impact other WGs would be considered based on the evolution of the work.

CT3 agrees to add the Note.

Ericsson:

Ericsson have further comments on CT4 part to r2,

Clause 4 Objective,

For CT4, the expected work will include analysis and the related normative work on:

a) Impacts on AUSF and UDM to provide AKMA key material;

b) Impacts on UDM to provide the AKMA indicator

The AUSF does not expose any services for AKMA so that changes to 29.509 are not needed.

The AUSF uses AAnF services for pushing AKMA key material to AAnF, The transfer to the AKMA indicator from UDM to AUSF is implemented by a UDM service.

China Mobile:

Draft revision 4 of C3-204039 new WID of AKMA have been uploaded. Main changes are:

1) Impove the description of CT4 objective.

2) Adding a note to indicate potential impace related to CT1 could be further added when the evolution of the work.

3) Remove the impact of TS 29.509.

Qualcomm: As discussed in the meeting that we all should check internally, I have checked with my CT1 and SA3 colleagues and we don’t see any UE impact. We should mark the UE impact to “No” unless someone has an information otherwise.

China I can accept removing impact on UE for this revision.

As some experts suggested, I have requested a late discussion paper in CT1(C1-205204) to discuss the WID. And maybe we can wait the output from CT1 for the time being. The doc may be discussed next Monday in CT1.

Ericsson is fine with r4.

Nokia is fine with r4.

China Mobile: After discussion in CT1, there is no clear way to go forward at this time. Based on the conclusion, I made the R5 available with following changes:

1) Shift the note to the normal word to indicate the potential CT1 impact;

2) Coordinate between CT1, CT3, CT4 and SA3 could be performed during the work.

Due to some potential CT1 impact has been written in the WID, I kept the impact to the UE as "don't know".

China Mobile makes r5 available.

Ericsson is fine with r5.

Nokia: The proposed normal text instead of a note will also be fine for me, if CT1 would like to have normal text (as long as the word potential is kept as it is).

**Decision:** The document was **revised to C3-204307**.

**C3-204307 New WID on Authentication and key management for applications based on 3GPP credential in 5G**

*Type: WID new For: Approval  
 Source: China Mobile*

(Replaces C3-204039)

**Discussion:**

China Mobile has brought a DP in CT1 that will be discussed next Monday.

China Mobile ask Qualcomm for comments.

China Mobile: Only one more comment from CT1 with following change:

1) Add 24.501 as potential impacted TS.

China Mobile makes r1 available.

Ericsson is fine with r1.

CT1 discuss the last version today

WID endorsed by CT1.

**Decision:** The document was **revised to C3-204376**.

**C3-204376 New WID on Authentication and key management for applications based on 3GPP credential in 5G**

*Type: WID new For: Approval  
 Source: China Mobile*

(Replaces C3-204307)

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

**C3-204040 New WID on N7 Interfaces Enhancements to Support GERAN and UTRAN**

*Type: WID new For: Approval  
 Source: China Mobile*

**Discussion:**

Nokia: Nokia, Nokia Shanghai Bell will support the WID, but thinks that we are in an too early stage for WID, because it is an TEI17 WI in an early stage. Therefore, the right time schedule for an agreement of the WID is the next CT3 meeting.

China Mobile: I proposed to collect comments at this meeting. For the time schedule, we could discuss them during the meeting today.

Wait for the work to be stable. Check how to handle TEI17 WIDs. Companies are welcome to provide comments.

Ericsson: supports the WID.

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

**C3-204041 CT aspects on PAP/CHAP protocols usage in 5GS**

*Type: WID new For: Approval  
 Source: China Telecom Corporation Ltd.*

**Discussion:**

Ericsson:

Clause 4,

1) For CT1, the UE and the network support (e)PCO parameters related to PAP/CHAP protocols indicated in TS 24.501,

Would you indicate what the contents to be covered?

considering the comparison of TS 24.301 only one sentence presence as below

“- if use of a PDN using the default APN requires PAP/CHAP, then the UE should include the Access point name IE; “

2) For CT3, there are separate CRs of early releases C3-204042~C3-204045 on same topics, better to be discussed together to see which approach valid.

Continue offline discussions to see how to proceed with the WI, the CRs for Rel-15 & Rel-16 and with the WG that leads the work (CT3 vs CT1).

ZTE & Huawei & China Mobile & China Telecom support to proceed with the WID.

China Telecom:

Through the discussion of these days, I would like to clarify the following points:

1) We want to propose the WID“New WID on CT aspects on PAP/CHAP protocols usage in 5GS”in R17 version, with CT3 leading the project; (Because in this project, CT3 involves a lot of work, while CT1 involves a little work. Therefore, some delegates suggested that CT3 should lead this WID instead，and we adopted the suggestion.

2) I agree that there is not much conflict between Qualcomm's CRs (C3-204042~C3-204045) (R15/R16) and our R17 WID proposal.

CT3 accepts that the WID is approved. Further adjustments can be made based on LS Reply.

Qualcomm: In the light of recent discussions on sending an LS for clarifications of these aspects, we see that there is a significant gap in information and clarifications needed on the scope of this work for any given release. Hence from Qualcomm side we would like to review and postpone this WID till clarifications become available from CT1/SA3 etc. on these matters.

China Telecom: The LS mainly focus on whether the UE of 5G support both EAP and PAP/CHAP, which is not the main focus of my WID. So my WID should not be delayed by irrelevant problems.

**Decision:** The document was **revised to C3-204345**.

**C3-204345 CT aspects on PAP/CHAP protocols usage in 5GS**

*Type: WID new For: Approval  
 Source: China Telecom Corporation Ltd.*

(Replaces C3-204041)

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

**C3-204060 DISC on eNS\_Ph2**

*Type: discussion For: Discussion  
 Source: ZTE*

**Discussion:**

The WID will be presented in next CT3 meeting.

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

**C3-204061 WID\_eNS\_Ph2**

*Type: WID new For: Approval  
 Source: ZTE*

**Discussion:**

Huawei: The WID is still premature due to no any conclusion is agreed in stage 2, we should wait for stable stage 2 input.

WID will be presented in next CT3 meeting.

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

**C3-204212 CT aspects on Dynamically Changing AM Policies in the 5GC**

*Type: WID new For: Approval  
 Source: Ericsson España S.A.*

(Replaces C3-204035)

**Discussion:**

Nokia: the WID clashes with the WID C3-204030. Nokia proposes to agree on a rapporteur this meeting and to write this down in the DAD, but to postpone the agreement on the WID to the meeting in November 2020. The decision on the WID, which will be supported by Nokia, Nokia Shanghai Bell, seems possible in November 2020 due to the SA2 status (TEI17 work not started). We assume the WID will be fit to SA2 requirements and others in any case during the next month.

China Mobile: China Mobile would like to support this WID. Please add China Mobile as supporting company.

Huawei: I fully agree with Horst that the WID is still premature due to no CR or normative work is agreed in stage 2, we should wait for stable stage 2 input.

And the title should use TEI17\_DCAMP as WID title to align with stage 2.

Ericsson: We could discuss the comments during the meeting today. Postponing the agreement on the WID to November sounds reasonable to me, so we can further work on the merging with C3-204030.

About the title, also, it can be accommodated to the preference of the group.

Note that TEI17\_DCAMP was a convention SA2 decided to follow to identify TEI17 topics more easily for their prioritization work.

I understand we do not need to follow this same convention now in CT, since we do not have the same need as SA2.

Or may I be missing anything else in relation to the comment of updating the title?

CT3 agrees to postpone the WI to next CT3 meeting when stable content is ready. WIDs from China Telecom and Ericsson will be merged and updated according to the agreed scope in SA2. Ericsson WID will be used as a basis.

Further discuss whether the title of the WID should include TEI17 in the title. Find alignment with other WGs.

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

**C3-204213 Discussion on Dynamically Changing AM Policies in the 5GC**

*Type: discussion For: Information  
 Source: Ericsson España S.A.*

(Replaces C3-204036)

**Discussion:**

The WID will be presented by next CT3 meeting if work is stable.

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

#### 17.1.2 Contributions on Work Items

### 17.2 Stage 3 of Multimedia Priority Service (MPS) Phase 2 [MPS2]

### 17.3 PFD Management Enhancement [pfdManEnh]

**C3-204106 Notification PUSH**

*Type: CR For: Agreement  
 29.551 v16.4.0 CR-0036 Cat: B (Rel-17)  
  
 Source: Huawei*

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

**C3-204142 Notification PUSH**

*Type: CR For: Agreement  
 29.551 v16.4.0 CR-0038 Cat: B (Rel-17)  
  
 Source: Huawei, China Telecom, China Mobile*

**Decision:** The document was **revised to C3-204385**.

**C3-204385 Notification PUSH**

*Type: CR For: Agreement  
 29.551 v16.4.0 CR-0038 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei, China Telecom, China Mobile, Ericsson*

(Replaces C3-204142)

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

### 17.4 Service Based Interface Protocol Improvements Release 17 [SBIProtoc17]

**C3-204107 204 status code**

*Type: CR For: Agreement  
 29.507 v16.4.0 CR-0131 Cat: B (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204377**.

**C3-204377 Successful Response**

*Type: CR For: Agreement  
 29.507 v16.4.0 CR-0131 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei*

(Replaces C3-204107)

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

**C3-204108 204 status code**

*Type: CR For: Agreement  
 29.525 v16.4.0 CR-0109 Cat: B (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204378**.

**C3-204378 Successful Response**

*Type: CR For: Agreement  
 29.525 v16.4.0 CR-0109 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei*

(Replaces C3-204108)

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

**C3-204109 Error status code**

*Type: CR For: Agreement  
 29.507 v16.4.0 CR-0132 Cat: B (Rel-17)  
  
 Source: Huawei*

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

**C3-204110 Error status code**

*Type: CR For: Agreement  
 29.525 v16.4.0 CR-0110 Cat: B (Rel-17)  
  
 Source: Huawei*

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

**C3-204111 Successful status code**

*Type: CR For: Agreement  
 29.508 v16.4.0 CR-0098 Cat: B (Rel-17)  
  
 Source: Huawei*

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

**C3-204112 Successful status code**

*Type: CR For: Agreement  
 29.523 v16.2.0 CR-0028 Cat: B (Rel-17)  
  
 Source: Huawei*

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

**C3-204175 Removal of sibling elements**

*Type: CR For: Agreement  
 29.519 v16.4.0 CR-0211 Cat: F (Rel-17)  
  
 Source: Ericsson*

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

**C3-204176 Reference to enumeration Accuracy**

*Type: CR For: Agreement  
 29.520 v16.4.0 CR-0198 Cat: F (Rel-17)  
  
 Source: Ericsson*

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

**C3-204235 Resource Level Authorization for Policy Data, Application Data, and Exposure Data**

*Type: CR For: Agreement  
 29.519 v16.4.0 CR-0212 Cat: B (Rel-17)  
  
 Source: Nokia Germany*

**Abstract:**

Resource Level Authorization for Policy Data, Application Data, and Exposure Data

**Discussion:**

This CR introduces backwards compatible new features, with impacts on the following APIs: TS29504\_Nudr\_DR.yaml

Huawei: The UDR API level security field is already defined in TS 29.504.

And for my clarification, why we need access to Policy Data, Application Data and Exposure Data in the UDR should be controlled separately and independently?

Ericsson: agrees on the proposed CR, conditioned to the agreement to define these new scopes, these new authorization levels as well in 29.504 (as indicated in the coversheet).

Nokia: This CR adds operation-level usage of scopes that are being added to 29.504 with a CT4 CR.

These scopes are required because the UDR is accessed by various NFs (AMF, PCF, NEF etc), but we may want to restrict access to e.g., the policy data only to the PCF, and so on.

Nokia: The related CT4 CR for 29.504 is C4-204136 and it should be approved by Monday, so I guess we can make the approval of C3-204235 conditional to that, as suggested by Fuen.

The point is that operators may not want to grant access to Policy Data to UDMs, however they need to grant access to the Nudr API to UDMs (so that the UDM can access Subscription Data). Without any resource-level authorization, access to the API granted to the UDM allows the UDM to access not only Subscription Data but also Policy Data. Similar is true for the other data categories. We are aware of the agreement not to introduce resource-level authorization “just in case”, but we believe that the usage of UDR by different NFs, each of them storing their own data, is a typical case where access control has a high probability to be desired.

Huawei: We can wait for the conclusion of C4-204136, but even it is agreed in CT4, I still don’t know why TS 29.519 needs to be updated.

Regardless of which NF consumer intends to access the UDR for which sub data, the NF consumer access to the UDR only by using the OpenAPI file of Nudr\_DataRepository API as defined in TS 29.504. My understanding is that the security management and control defined in TS 29.504 is good enough.

Nokia: The OpenAPI of 29.504 specifies the Nudr\_DataRepository API via references to 29.505 (for subscription data) and 29.519 (for policy, application, and exposure data). Therefore, the definition of the new security scopes has to be added in the security schemes section, which is in 29.504, but the usage of these security scopes at resource-level has to be added in the individual paths, i.e., in 29.505 and 29.519.

Please let me know if there are still doubts.

Huawei: I still don’t think it’s necessary, the security scope is no needed to added in each individual path, e.g. for Policy data, there are quite a lot of individual paths referred from the TS 29.519 by the TS 29.504, define the security control of different sub data in TS 29.504 is much better than authorize the security each time when access to each path even for the same sub data, right?

Nokia: How would you “define the security control of different sub data in TS 29.504”?

By splitting the Nudr\_DataRepository API in four separate APIs?

Or is there a mechanism for using the scopes inside 29.504, which I am missing?

Can you give an example?

Huawei: Whether the same definition into the TS 29.505 is agreed?

Nokia: For 29.505 there is C4-204137, which I assume is going through a “joint” approval process with the 29.504 CR (C4-204136).

I’ll keep checking with my CT-4 colleagues and I will let you know once the approval of both is confirmed and final.

(Btw yes, I agree with you that it would probably be a nice feature if OpenAPI allowed the usage of security scopes for “groups” of resources/operations, but apparently scopes can be used only at root level and at operation level...)

Agreed CRs in CT4: C4-204136 & C4-204137

Huawei is fine with the CR.

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

### 17.5 IMS Stage-3 IETF Protocol Alignment [IMSProtoc17]

### 17.6 Study on enhanced IMS to 5GC Integration Phase 2 [FS\_eIMS5G2]

**C3-204032 23700-11 initial version**

*Type: pCR For: Approval  
 23.700-11 v0.0.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to C3-204290**.

**C3-204290 23700-11 initial version**

*Type: pCR For: Approval  
 23.700-11 v0.0.0  
 Source: Huawei, HiSilicon*

(Replaces C3-204032)

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

### 17.7 Technical Enhancements and Improvements [TEI17]

#### 17.7.1 TEI17 for IMS/CS

#### 17.7.2 TEI17 for Packet Core

**C3-204078 report initial presence status for PRA**

*Type: CR For: Agreement  
 29.507 v16.4.0 CR-0130 Cat: F (Rel-17)  
  
 Source: ZTE*

**Decision:** The document was **revised to C3-204296**.

**C3-204296 report initial presence status for PRA**

*Type: CR For: Agreement  
 29.507 v16.4.0 CR-0130 rev 1 Cat: F (Rel-17)  
  
 Source: ZTE*

(Replaces C3-204078)

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

**C3-204079 report initial presence status for PRA**

*Type: CR For: Agreement  
 29.525 v16.4.0 CR-0108 Cat: F (Rel-17)  
  
 Source: ZTE*

**Decision:** The document was **revised to C3-204297**.

**C3-204297 report initial presence status for PRA**

*Type: CR For: Agreement  
 29.525 v16.4.0 CR-0108 rev 1 Cat: F (Rel-17)  
  
 Source: ZTE*

(Replaces C3-204079)

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

**C3-204080 Some corrections on 29.520**

*Type: CR For: Agreement  
 29.520 v16.4.0 CR-0194 Cat: F (Rel-17)  
  
 Source: ZTE*

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

**C3-204081 Correct the description of anyUeInd**

*Type: CR For: Agreement  
 29.517 v16.1.0 CR-0016 Cat: F (Rel-17)  
  
 Source: ZTE*

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

**C3-204113 Support of stateless NFs**

*Type: CR For: Agreement  
 29.507 v16.4.0 CR-0133 Cat: B (Rel-17)  
  
 Source: Huawei*

**Discussion:**

This CR introduces a backwards compatible feature to the OpenAPI file

Ericsson: My understanding is that CRs from 4113 to 4127 are not required.

They specify a behaviour already covered in 29.500, 6.5.3.2 and 6.5.3.3, that applies to all APIs homogenously (note that the title is “stateless NFs”). I.e., there is no service specific behaviour for each specific API to document in the proposed CRs.

Note that since CRs are only covering one aspect of a more complete and complex solution, it may create confusion/misunderstandings to include only a partial view in every TS.

The situation is similar to 29.500 and clause 6.10-Support of Indirect Communication. 6.10 specifies the procedures that are applicable to all the APIs in order to support indirect communication.

All the APIs would be impacted by e.g., the support of the corresponding headers, however it was decided not to document it in every service related TSs.

Nokia: I would agree with Ericsson’s comments. Stateless NFs are key principles (23.501, clause 4.1) and hold true for any 5GC NF type as mentioned in 29.500, clause 6.5.3. Therefore, the functionality is not a new feature or service specific from my point of understanding.

Huawei: I agree with you that 29.500 specifies the behaviour that applies to all APIs. I would like to ask you if it can be supported if the OpenAPI file of each API is not enhanced, e.g. the 308 status code is not added, notification URI is not updated in some APIs.

Huawei:

I agree with you that the OpenAPI file does not show the complete figure, but I know something shall be included in the OpeAPI file.

If we don’t specify something, e.g. 308 status code, in OpenAPI file, I can’t find a solution to resolve the interoperability issue between the NF service client and NF service producer.

I check table 5.2.7.1-1 of 29.500, 3xx status code is service specific. So in order to support the requirement above, we need to add 3xx status code in the Opean API file.

I can remove the description of support of stateless NFs to avoid the confusion/misunderstandings of the whole solution and keep the necessary update of service specific status code. What do you think?

Ericsson: API developers need to follow what 29.500 says, in relation to functionality that is common to all the APIs, and what the specific APIs say in relation to the service specification.

It is not necessary to duplicate the information in the service APIs to guarantee interoperability.

And text highlighted below in 29.500 provides the necessary guidance.

It would be necessary if the service, due to its service behavior, needs to disambiguate the redirection behavior. But this is not what the CRs under discussion are addressing.

Huawei: According the requirement： The new NF service producer may generate a new resource URI and return it to the NF service consumer upon reception of a service request related to the resource from that NF service consumer.

I understand different API developers may have different implementation. Now 29.500 just gives an example, but we can’t assume that all API developers will follow this example to resolve interoperability issue. Right?

Further check. Ask CT4 colleagues if needed.

Huawei:

1) Subclause 6.5.2 of 29.500 specifies the procedure for stateless AMF. Nokia proposed to specify the same procedure and define 307 status code to redirect the notification in 29.507 and 29.525.

2) Table 5.2.7.1-1 of 29.500 specify the mandatory status codes for HTTP methods. Ericsson proposed to make alignments with this table for each applicable HTTP method in each API.

3) “SS” in Table 5.2.7.1-1 of 29.500 means the requirement to process the HTTP status code depends on the definition of the specific API. From my perspective, it is more reasonable to define service specific status code in applicable APIs rather than to define the mandatory status codes in the API.

Nokia:

This discussion forced some internal discussions in the background that are not finished. Needs some further time.

Bullet 1: I meant yesterday that we have 29.500, clause 6.5.3 (Stateless NFs (for any 5GC NF type) which specifies something for all stateless NFs. This is behind bullet 1 and we do not need to specify something. The question is whether we interpret 29.500, clause 6.5.3 in this way or not with the result nothing has to be specified in addition? Probably the discussion shows that the answer is “no”.

Bullet 2: An alignment would be a clean solution, but we must enhance 29.571 as well to allow the $ref reference to 308. If we go for mandatory codes in 29.500, table 5.2.7.1-1 for 307 Temporary and 308 Permanent instead of SS, (bullet 2) we must introduce into our APIs the mandatory codes in each OpenAPI, because we did this for all other mandatory codes as well. We have to discuss with CT4 as well. What was the reason to classify 307 and 308 as SS?

A further possibility: May be we can keep SS in 29.500, table 5.2.7.1-1, but improve 29.571 with SS responses to allow the $ref reference to 29.571 for HTTP responses.

Huawei:

Subclause 6.5.2 of 29.500 specifies the procedure for stateless AMF. Following your logic, we don’t need to specify anything in 29.507 and 29.525. right?

You say an alignment is a clean solution based they are mandatory. But since we have defined service specific status codes in applicable OpenAPI, we also need to define 307 and 308 now. This is another alignment. Right?

Nokia: For 6.5.2, yes, but we are discussing in circles and it seems we should have a precise solution.

For last concern, Yes, but the concretization could be done in different ways. In the moment, I do not know whether there is an acceptance in CT4 to go for mandatory codes. Since all this is for several APIs and a generalization seems meaningful.

Huawei: I check 29.500 and find the NF service producer can provide new resource URI in two ways:

1) When the NF service producer changes, the new NF service producer may update the Subscription Correlation ID by sending a notification to the NF service consumer.

2) The new NF service producer may generate a new resource URI and return it to the NF service consumer upon reception of a service request related to the resource from that NF service consumer, e.g. the new NF service producer may reply with an HTTP 3xx redirect status code pointing to the new location of the resource.

For the 1), we need to include the new resource URI in the notification, e.g including the new resource URI within the SmPolicyNotification for 29.512. I think it shall be update in the APIs case by case. Right?

Huawei: I try to revise the CR based on what I proposed below. I add the new resource URI in the notification from the PCF. R1 is made available.

ZTE: New resource URI in the notification introduced in the revision r1, thus in PolicyUpdate data structure we have a resourceUri which is Mandatory indicating "The resource URI of the individual AM policy related to the notification." and the new resource URI which is Optional indicating "The new resource URI of the individual AM policy generated by the new PCF when the PCF is deployed as a stateless NF and the PCF is changed".

Should they be the same? If YES, why we need to have the new one? If NOT, it means the Mandatory one is old and the optional one is new, how will the AMF associate the notification from the PCF with the Mandatory old resourceURI?

Huawei: Mandatory one is old one, the optional one is new.

The mandatory one is used to identify the policy association, which is the same as current notification. Then the AMF knows that the old one is replaced by the new one.

ZTE: How about the subsequent notifications? The Mandatory resourceURI is still old or new?

There could be some clarifications added.

Huawei: It can be added “The AMF and PCF shall use this URI in any subsequent communication” in the description of the new attribute.

Ericsson: I’m totally lost.Why it is needed a “newResourceUri” attribute?

Still, I do not see it is needed anything else than what already specified in 29.500. So, no need to specify anything else in the individual APIs

Huawei:

In 29.500, it is described:

1. When the NF service producer changes, the new NF service producer may update the Subscription Correlation ID by sending a notification to the NF service consumer.

2. The new NF service producer may generate a new resource URI and return it to the NF service consumer upon reception of a service request related to the resource from that NF service consumer, e.g. the new NF service producer may reply with an HTTP 3xx redirect status code pointing to the new location of the resource.

the new resource URI cover the case highlighted in yellow, the 308 status code cover the case highlighted in blue.

Ericsson: There is already a “resourceUri” attribute specified, that represents the resource to which a notification is addressed, i.e., the Subscription Correlation Id. Why do we need a new one?

Huawei: Stage 3 implements the stage 2 terminology subscription correlation id as resource URI. So if the subscription correlation id is updated by the service, it can be implemented that a new resource URI is notified of the client.

Ericsson: But, it is the subscription correlation Id value what is updated by the service.

Why a new attribute?

What would be the handling of the old one? It obsoletes once the new one is in use??

Or maybe I’m confused? When do we have defined in CT3 a new attribute to carry an updated value of an existing one?

Huawei: Resource URI is used to identify the policy association in 29.507 for the policy update currently. We need old resource URI to identify the policy association and use the new attribute to contain the new resource URI.

Nokia: Policy Update in 200 ok (create service operation) uses the notification URI to provide a resource URI for notifications from the AMF. Seems the intension of newresourceURI is to use the Policy Update data type in the POST notification from a new PCF to the AMF as a redirect URI as well, but we already have the mandatory resourceURI that can include the correct address. I also have some difficulties to understand the new requirement. I would also say that the newresource URI is not required.

Huawei: We don’t define that the AMF provides the unique notification URI for each policy association when the AMF creates the policy association. Please consider if we have such kind of assumption, why do we need the resource URI in the notification.

ZTE: My understanding is:

If PCF2 takes over PCF1, PCF2 shall use new resourceURI to tell the AMF that PCF2 takes over PCF1 for the existing policy association which identified by the mandatory resourceURI.

That is to say, the mandatory resourceURI is the key cannot be updated.

Check offline for the stage 2 requirements on the need of a new resourceURI.

Ericsson: I’d like to think about all this with some more time. As you say before, the PCF 2 already knows the subscription correlation Id, because it is not lost, it is kept in the context.

So, why it is needed to update it?

(about 29.500, yes, new question to them)

Maybe our mistake in Rel-15 was to use the resource URI as correlation identifier, and we should have defined another kind of attribute.

ZTE: I have checked with our R&D , PCF2 may send UpdateNotify to update the subscription Id before AMF gets aware of PCF2 which belongs to the same PCFset by querying NRF, and it seems 29.500 also support the case by saying "When the NF service producer changes, the new NF service producer may update the Subscription Correlation ID by sending a notification to the NF service consumer."

Huawei: I checked with my CT4 colleague and got the feedback that there is no stage 2 requirement for the server to update the resource URI. But I found the agreed CR C4-201006. You can find the answer that the new server updates the resource URI.

Ericsson: Could you explain why if the subscription correlation id is known by the NF instance that takes over it is needed to replace it?

The attached CR doesn’t provide an explanation in the reason for change.

Huawei: Let me take following resource URI as an example: {apiRoot}/npcf-am-policy-control/v1/policies/{polAssoId}

A PCF within a PCF set may allocate a unique polAssoId per PCF set. But it is one implementation option. The standardization shouldn't limit other implementation, in which the polAssoId is allocated by each PCF instance. In this case, the new PCF may want to allocate a new internal polAssoId to avoid possible conflicts. The standardization shouldn't limit implementations, and TS 29.500 has already documented this as a principle.

Ericsson: I agree that a new resource URI will be allocated by the NF instance that takes over.

My concern is that when we’re using the resource URI as subscription correlation Id, it is losing its “property” of location of a resource to gain the “property” of correlation identifier. And this correlation identifier, as I see it, needs to be kept along the resource context lifetime, regardless the NF instance that indicates the location to be used to access the resource.

That was why I said in the previous comment that during Rel-15 we might have not properly implemented the stage 2 concept of subscription correlation id.

Ericsson: Explains subscription/notification correlation id interpretation by CT3.

For 29.500:

6.5.3.2, bullet 6: For me, as it is specified, indicating that at NF service consumer failure, the NF (service consumer) that takes over should notify the affected NF (service producers) of the new notification URI (creating a new subscription or updating the existing one) for every context it keeps, it implies a high risk of unnecessarily overloading the whole system. If there was any other interpretation behind which could avoid the overload of network resources and related computing cost, it should be clarified first in 29.500 before going beyond with this requirement.

6.5.3.3, bullet 6: Same concern as above: The first sentence “the new NF service producer may update the Subscription Correlation ID by sending a notification to the NF service consumer” should be clarified, to know if it refers to the resource URI returned in the subscription response or to anything else, and then, what “sending a notification” means. I cannot believe it may be referring to any massive update. Probably the first sentence it is only introducing the second sentence. For the second sentence, the only concern I have is what we’ve already discussed about how to document these response codes to make them applicable to all the APIs.

Huawei: on 6.5.3.2: I understand it is still per individual UE basis. For example, the UE performs the registration update and the RAN detects the old AMF is failure. The RAN reselects a new AMF for the UE from the same AMF set. From this moment, the new AMF takes over the UE and may decide to update the notification URI to the PCF. I’m sure support of stateless NFs follows the principle of the support of stateless AMF.

On 6.5.3.3: As I described above, the behavior of the new NF service producer taking over the UE is initiated by the per UE signaling. For example, a new PCF may be selected by the AF because the AF needs to update the service information for a UE. In this case, the a new PCF may return a new resource URI of AF session to the AF in the response by 3xx status code. The new PCF may also sends a new resource URI of SM policy association to the SMF by sending a request.

The reselection of the NF is initiated by per UE signaling, and it is not defined that a new NF will retrieve all the UE context from the failure one in stage 2 and 29.500. Hope it can resolve your concern.

Nokia: Should we add to the LS to CT4 Ericsson’s concern for 29.500, clause 6.5.3.3, bullet 6: “Probably the first sentence it is only introducing the second sentence.”

Nokia: Seems 29.500 is not really clear in 6.5.3.3, bullet 6.

Why is it the new NF service producer that replies with HTTP 3xx redirect status codes in 29.500, 6.5.3.3, bullet 6?

On the other hand an active information from PCF2 (29.500, 6.5.3.3, bullet 6: “When the NF service producer changes, the new NF service producer may update the Subscription Correlation ID by sending a notification to the NF service consumer.”). The subscription Correlation ID = {polAssoId} is updated, but why do we require it, because we have the standard HTTP behavior in case the consumer would like to communicate with the server? Of course noticationURI (SA2NotificationTargetAddress, NotificationCorrelationId) of the consumer and newtargetAdress (subscriptionID=polAssocID, the address that can be provided by 3xx status codes) are not the same. I think, we do not require this active behavior.

I think we should not agree on the CRs (they are for Release 17) before we do not have a clear understanding of all this.

Ericsson: comments based on the proposed questions to the LS. Summarizing, in 29.500 the alternative Service Consumer behavior when updating the notification URI is unclear/incomplete. The alternative Service Producer behavior notifying of changes in resource URI is unclear/incomplete.

When a new producer takes over a UE, there are three options can be taken. I understand your concern is regarding the network overload. But I check 29.500 and 23.502, the NF reselection is initiated by per UE signaling, e.g. in 6.10.3.4 fo29.500, it is stated: For Indirect Communications with or without delegated discovery, the SCP may select or reselect the specific NF (service) instance towards which to send a request.

Nokia: This means we have two options (bullet 7): updates to the resource URIs notified in step 6, or by replying with an HTTP 3xx redirect pointing to a new NF

The first one is something that requires an update of the data structure. I would interpret this option as a new feature even. The second one is the normal behavior.

Independent of the CR you included: Wha does 29.500 mention “the new NF service producer may reply with an HTTP 3xx redirect status code pointing to the new location of the resource.”? Is this not the old one?

OK not to ask “Probably the first sentence it is only introducing the second sentence”, because bullet 7 describes the intension of bullet 6, which is only option 1.

Ericsson: if it is per UE signaling, what does “may update the Subscription Correlation ID by sending a notification to the NF service consumer” mean?

Huawei to Nokia: When the AMF would like to communicate with PCF1 and if the AMF detects the PCF1 is failure, the AMF will select PCF 2 from the PCF set. The AMF will construct the new resource URI based on the {apiRoot} of the PCF2. When the PCF2 receives the message from the AMF, the PCF2 shall be able to retrieve the context of the UE from the UDSF. From the moment, the PCF 2 takes over policy decision for the UE. The PCF2 may determines the constructed new resource URI is not appropriate, so the PCF will generate a second new resource URI in the 3xx response. So before the AMF sends the request, the AMF will not receive the 3xx response because no active PCF has taken over the handling of the UE. But the AMF may receive the notification from a new PCF , as this new PCF is selected by the AF. The new PCF generates new resource for the AMF.

Nokia: You give the answer to an aspect that relates to 29.500, 6.5.3.3, bullet 1 as well (binding). So New the question: Why is it the new NF service producer that replies with HTTP 3xx redirect status codes in 29.500, 6.5.3.3, bullet 6?

May be that should be clearly stated in 29.500.

Huawei:

In some implementation case, a NF instance generate the resource URI from their own namespace, e.g. the PCF assigns the polAssoId from the range specific to the NF instance.

When the AMF communicate with the new PCF based on the constructed resource URI, as the polAssoId within the constructed resource URI is not within the range specific to the new PCF, the new PCF decides to assign a new polAssoId, and return 3xx status code.

**Decision:** The document was **revised to C3-204415**.

**C3-204415 Support of stateless NFs**

*Type: CR For: Agreement  
 29.507 v16.4.0 CR-0133 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei*

(Replaces C3-204113)

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

**C3-204114 Support of stateless NFs**

*Type: CR For: Agreement  
 29.508 v16.4.0 CR-0099 Cat: B (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204416**.

**C3-204416 Support of stateless NFs**

*Type: CR For: Agreement  
 29.508 v16.4.0 CR-0099 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei*

(Replaces C3-204114)

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

**C3-204115 Support of stateless NFs**

*Type: CR For: Agreement  
 29.512 v16.5.0 CR-0541 Cat: B (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204417**.

**C3-204417 Support of stateless NFs**

*Type: CR For: Agreement  
 29.512 v16.5.0 CR-0541 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei*

(Replaces C3-204115)

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

**C3-204116 Support of stateless NFs**

*Type: CR For: Agreement  
 29.514 v16.5.0 CR-0255 Cat: B (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204418**.

**C3-204418 Support of stateless NFs**

*Type: CR For: Agreement  
 29.514 v16.5.0 CR-0255 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei*

(Replaces C3-204116)

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

**C3-204117 Support of stateless NFs**

*Type: CR For: Agreement  
 29.520 v16.4.0 CR-0195 Cat: B (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204419**.

**C3-204419 Support of stateless NFs**

*Type: CR For: Agreement  
 29.520 v16.4.0 CR-0195 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei*

(Replaces C3-204117)

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

**C3-204118 Support of stateless NFs**

*Type: CR For: Agreement  
 29.521 v16.4.0 CR-0091 Cat: B (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204420**.

**C3-204420 Support of stateless NFs**

*Type: CR For: Agreement  
 29.521 v16.4.0 CR-0091 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei*

(Replaces C3-204118)

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

**C3-204119 Support of stateless NFs**

*Type: CR For: Agreement  
 29.522 v16.4.0 CR-0197 Cat: B (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204421**.

**C3-204421 Support of stateless NFs**

*Type: CR For: Agreement  
 29.522 v16.4.0 CR-0197 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei*

(Replaces C3-204119)

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

**C3-204120 Support of stateless NFs**

*Type: CR For: Agreement  
 29.122 v16.6.0 CR-0269 Cat: B (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204422**.

**C3-204422 Support of stateless NFs**

*Type: CR For: Agreement  
 29.122 v16.6.0 CR-0269 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei*

(Replaces C3-204120)

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

**C3-204121 Support of stateless NFs**

*Type: CR For: Agreement  
 29.523 v16.2.0 CR-0029 Cat: B (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204423**.

**C3-204423 Support of stateless NFs**

*Type: CR For: Agreement  
 29.523 v16.2.0 CR-0029 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei*

(Replaces C3-204121)

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

**C3-204122 Support of stateless NFs**

*Type: CR For: Agreement  
 29.525 v16.4.0 CR-0111 Cat: B (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204424**.

**C3-204424 Support of stateless NFs**

*Type: CR For: Agreement  
 29.525 v16.4.0 CR-0111 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei*

(Replaces C3-204122)

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

**C3-204123 Support of stateless NFs**

*Type: CR For: Agreement  
 29.551 v16.4.0 CR-0037 Cat: B (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204425**.

**C3-204425 Support of stateless NFs**

*Type: CR For: Agreement  
 29.551 v16.4.0 CR-0037 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei*

(Replaces C3-204123)

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

**C3-204124 Support of stateless NFs**

*Type: CR For: Agreement  
 29.554 v16.4.0 CR-0052 Cat: B (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204426**.

**C3-204426 Support of stateless NFs**

*Type: CR For: Agreement  
 29.554 v16.4.0 CR-0052 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei*

(Replaces C3-204124)

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

**C3-204125 Support of stateless NFs**

*Type: CR For: Agreement  
 29.591 v16.1.0 CR-0020 Cat: B (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204427**.

**C3-204427 Support of stateless NFs**

*Type: CR For: Agreement  
 29.591 v16.1.0 CR-0020 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei*

(Replaces C3-204125)

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

**C3-204126 Support of stateless NFs**

*Type: CR For: Agreement  
 29.594 v16.2.0 CR-0054 Cat: B (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204428**.

**C3-204428 Support of stateless NFs**

*Type: CR For: Agreement  
 29.594 v16.2.0 CR-0054 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei*

(Replaces C3-204126)

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

**C3-204127 Support of stateless NFs**

*Type: CR For: Agreement  
 29.675 v16.1.0 CR-0010 Cat: B (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204429**.

**C3-204429 Support of stateless NFs**

*Type: CR For: Agreement  
 29.675 v16.1.0 CR-0010 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei*

(Replaces C3-204127)

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

**C3-204128 Correction on the the authorization data**

*Type: CR For: Agreement  
 29.561 v16.4.0 CR-0047 Cat: B (Rel-17)  
  
 Source: Huawei*

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

**C3-204129 Clarification of default QoS**

*Type: CR For: Agreement  
 29.512 v16.5.0 CR-0542 Cat: B (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204298**.

**C3-204298 Clarification of default QoS**

*Type: CR For: Agreement  
 29.512 v16.5.0 CR-0542 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei*

(Replaces C3-204129)

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

**C3-204130 Clarification of IP index provisioning**

*Type: CR For: Agreement  
 29.512 v16.5.0 CR-0543 Cat: B (Rel-17)  
  
 Source: Huawei*

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

**C3-204131 Clarification of usage monitoring control**

*Type: CR For: Agreement  
 29.512 v16.5.0 CR-0544 Cat: F (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204299**.

**C3-204299 Clarification of usage monitoring control**

*Type: CR For: Agreement  
 29.512 v16.5.0 CR-0544 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei*

(Replaces C3-204131)

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

**C3-204132 Correction to indication of UE IP address preservation**

*Type: CR For: Agreement  
 29.512 v16.5.0 CR-0545 Cat: F (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204300**.

**C3-204300 Correction to indication of UE IP address preservation**

*Type: CR For: Agreement  
 29.512 v16.5.0 CR-0545 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei*

(Replaces C3-204132)

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

**C3-204133 Correction to policy control functions for TSN**

*Type: CR For: Agreement  
 29.512 v16.5.0 CR-0546 Cat: F (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204301**.

**C3-204301 Correction to policy control functions for TSN**

*Type: CR For: Agreement  
 29.512 v16.5.0 CR-0546 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei*

(Replaces C3-204133)

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

**C3-204134 Internal group id**

*Type: CR For: Agreement  
 29.522 v16.4.0 CR-0198 Cat: B (Rel-17)  
  
 Source: Huawei*

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

**C3-204135 Correction to the policy decision**

*Type: CR For: Agreement  
 29.512 v16.5.0 CR-0547 Cat: F (Rel-17)  
  
 Source: Huawei*

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

**C3-204136 Correction to the session-AMBR provisioning**

*Type: CR For: Agreement  
 29.512 v16.5.0 CR-0548 Cat: F (Rel-17)  
  
 Source: Huawei*

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

**C3-204137 Correction to the SM policy association procedure**

*Type: CR For: Agreement  
 29.513 v16.4.0 CR-0186 Cat: F (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204302**.

**C3-204302 Correction to the SM policy association procedure**

*Type: CR For: Agreement  
 29.513 v16.4.0 CR-0186 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei*

(Replaces C3-204137)

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

**C3-204138 Update the call flows to support TSN**

*Type: CR For: Agreement  
 29.513 v16.4.0 CR-0187 Cat: F (Rel-17)  
  
 Source: Huawei*

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

**C3-204139 Traffic steering control for 5G-LAN type of services**

*Type: CR For: Agreement  
 29.512 v16.5.0 CR-0549 Cat: B (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204304**.

**C3-204304 Traffic steering control for 5G-LAN type of services**

*Type: CR For: Agreement  
 29.512 v16.5.0 CR-0549 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei*

(Replaces C3-204139)

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

**C3-204140 Update the definitions in 3.1**

*Type: CR For: Agreement  
 29.512 v16.5.0 CR-0550 Cat: B (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204305**.

**C3-204305 Update the definitions in 3.1**

*Type: CR For: Agreement  
 29.512 v16.5.0 CR-0550 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei*

(Replaces C3-204140)

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

**C3-204141 Multiple traffic descriptors**

*Type: CR For: Agreement  
 29.512 v16.5.0 CR-0551 Cat: B (Rel-17)  
  
 Source: Huawei*

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

**C3-204236 Clarification of trace control**

*Type: CR For: Agreement  
 29.512 v16.5.0 CR-0564 Cat: F (Rel-17)  
  
 Source: Huawei Technologies R&D UK*

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

**C3-204248 Reference point representation**

*Type: CR For: Agreement  
 29.675 v16.1.0 CR-0012 Cat: F (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to C3-204387**.

**C3-204387 Reference point representation**

*Type: CR For: Agreement  
 29.675 v16.1.0 CR-0012 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei*

(Replaces C3-204248)

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

**C3-204283 Corrections to Framed IPv6**

*Type: CR For: Agreement  
 29.061 v16.0.0 CR-0525 Cat: F (Rel-17)  
  
 Source: Ericsson*

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

**C3-204386 LS on support of stateless NFs**

*Type: LS out For: Approval  
 to CT4, cc SA5  
 Source: Huawei*

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

### 17.8 OpenAPI version updates

**C3-204388 29.525 Rel-17 Update of OpenAPI version and TS version in externalDocs field**

*Type: CR For: Agreement  
 29.525 v16.4.0 CR-0112 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bel*

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

**C3-204389 29.507 Rel-17 Update of OpenAPI version and TS version in externalDocs field**

*Type: CR For: Agreement  
 29.507 v16.4.0 CR-0134 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bel*

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

**C3-204390 29.520 Rel-17 Update of OpenAPI version and TS version in externalDocs field**

*Type: CR For: Agreement  
 29.520 v16.4.0 CR-0220 Cat: F (Rel-17)  
  
 Source: China Mobile*

**Decision:** The document was **revised to C3-204439**.

**C3-204439 29.520 Rel-17 Update of OpenAPI version and TS version in externalDocs field**

*Type: CR For: Agreement  
 29.520 v16.4.0 CR-0220 rev 1 Cat: F (Rel-17)  
  
 Source: China Mobile*

(Replaces C3-204390)

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

**C3-204391 29.551 Rel-17 Update of OpenAPI version and TS version in externalDocs field**

*Type: CR For: Agreement  
 29.551 v16.4.0 CR-0039 Cat: F (Rel-17)  
  
 Source: ZTE*

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

**C3-204392 29.519 Rel-17 Update of externalDocs field**

*Type: CR For: Agreement  
 29.519 v16.4.0 CR-0214 Cat: F (Rel-17)  
  
 Source: Huawei*

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

## 18 Work Organisation

### 18.1 Work Plan Review

**C3-204012 Status of CT3 Work Items**

*Type: Work Plan For: Information  
 Source: CT3 chairman*

**Decision:** The document was **revised to C3-204400**.

**C3-204400 Status of CT3 Work Items**

*Type: Work Plan For: Information  
 Source: CT3 chairman*

(Replaces C3-204012)

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

**C3-204014 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

**C3-204015 Meeting Calendar**

*Type: other For: Information  
 Source: MCC*

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

## 19 Joint Sessions

## 20 Summary of results

## 21 Any other business

## 22 Closing of the meeting

Report prepared by: Hao Jing

## Annex A: Contribution documents and status

### A1: List of TDocs

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Decision | Replaces | Replaced by |
| * C3-204000 | * Draft Agenda for the CT3#111 e-Meeting | * CT3 chairman | * noted |  |  |
| * C3-204001 | * INFO Proposed Schedule for CT3#111e | * CT3 chairman | * noted |  |  |
| * C3-204002 | * Allocation of documents to agenda items (at Deadline) | * CT3 chairman | * noted |  |  |
| * C3-204003 | * Allocation of documents to agenda items (Start of Day 1) | * CT3 chairman | * noted |  |  |
| * C3-204004 | * Allocation of documents to agenda items (Start of Day 2) | * CT3 chairman | * noted |  |  |
| * C3-204005 | * Allocation of documents to agenda items (Start of Day 3) | * CT3 chairman | * noted |  |  |
| * C3-204006 | * Allocation of documents to agenda items (Start of Day 4) | * CT3 chairman | * noted |  |  |
| * C3-204007 | * Allocation of documents to agenda items (Start of Day 5) | * CT3 chairman | * noted |  |  |
| * C3-204008 | * Allocation of documents to agenda items (Start of Day 6) | * CT3 chairman | * noted |  |  |
| * C3-204009 | * Allocation of documents to agenda items (Start of Day 7) | * CT3 chairman | * noted |  |  |
| * C3-204010 | * Allocation of documents to agenda items (Start of Day 8) | * CT3 chairman | * noted |  |  |
| * C3-204011 | * Allocation of documents to agenda items (End of Day 8) | * CT3 chairman | * noted |  |  |
| * C3-204012 | * Status of CT3 Work Items | * CT3 chairman | * revised |  | * C3-204400 |
| * C3-204013 | * Minutes of CT3#110e | * MCC | * approved |  |  |
| * C3-204014 | * WI status report from MCC | * MCC | * noted |  |  |
| * C3-204015 | * Meeting Calendar | * MCC | * noted |  |  |
| * C3-204016 | * Way of Working for CT3#111e Electronic Meeting | * CT3 chairman | * noted |  |  |
| * C3-204017 | * Status of study on enhanced support of IIoT in 5GS (FS\_IIoT) | * Nokia, Nokia Shanghai Bell | * noted |  |  |
| * C3-204018 | * 5G-ACIA\_ LS\_3GPP\_Exposure\_29062020 | * 5G-ACIA | * noted |  |  |
| * C3-204019 | * LS on Bulk operation of LCS-service | * CT4 | * noted |  |  |
| * C3-204020 | * LS reply on RACS multiple radio capability formats | * RAN3 | * noted |  |  |
| * C3-204021 | * LS on Media Feature Tag for IMS Data Channel | * SA4 | * noted |  |  |
| * C3-204022 | * LIAISE-411 Completion of WT-456 and WT-470 | * Broadband Forum | * noted |  |  |
| * C3-204023 | * Reply LS on location reporting triggers | * SA6 | * noted |  |  |
| * C3-204024 | * Summary of CT#88e related to CT3 | * CT3 chairman | * noted |  |  |
| * C3-204025 | * Adding Support for Indicating Serialization Format in RDS | * Convida Wireless LLC, Intel | * revised |  | * C3-204288 |
| * C3-204026 | * Clarification regarding Bridge ID | * Intel /Thomas | * postponed |  |  |
| * C3-204027 | * Analytics on eNA Phase 2 work | * Huawei | * noted |  |  |
| * C3-204028 | * Discussion paper on FS\_enh\_EC | * Huawei | * noted |  |  |
| * C3-204029 | * Discussion on TEI17\_SPSFAS and TEI17\_DCAMP | * China Telecom | * noted |  |  |
| * C3-204030 | * New WID on CT aspects on Dynamically Charging AM Policies in the 5GC | * China Telecom | * postponed |  |  |
| * C3-204031 | * New WID on CT aspects on Same PCF Selection For AMF and SMF | * China Telecom | * postponed |  |  |
| * C3-204032 | * 23700-11 initial version | * Huawei, HiSilicon | * revised |  | * C3-204290 |
| * C3-204033 | * Correction of the alternative QoS profile | * Nokia, Nokia Shanghai Bell | * revised |  | * C3-204308 |
| * C3-204034 | * LS on new AVPs in TS 29.214 | * Ericsson | * revised |  | * C3-204405 |
| * C3-204035 | * CT aspects on Dynamically Changing AM Policies in the 5GC | * Ericsson España S.A. | * revised |  | * C3-204212 |
| * C3-204036 | * Discussion on Dynamically Changing AM Policies in the 5GC | * Ericsson España S.A. | * revised |  | * C3-204213 |
| * C3-204037 | * Discussion on Dynamic Management of Group-based Event Monitoring | * Ericsson | * noted |  |  |
| * C3-204038 | * New WID CT aspects on Dynamic Management of Group-based Event Monitoring | * Ericsson | * postponed |  |  |
| * C3-204039 | * New WID on Authentication and key management for applications based on 3GPP credential in 5G | * China Mobile | * revised |  | * C3-204307 |
| * C3-204040 | * New WID on N7 Interfaces Enhancements to Support GERAN and UTRAN | * China Mobile | * postponed |  |  |
| * C3-204041 | * CT aspects on PAP/CHAP protocols usage in 5GS | * China Telecom Corporation Ltd. | * revised |  | * C3-204345 |
| * C3-204042 | * Clarification on using PAP/CHAP for 5GS interoperability | * Qualcomm Incorporated, Vodafone | * postponed |  |  |
| * C3-204043 | * Clarification on using PAP/CHAP for 5GS interoperability | * Qualcomm Incorporated, Vodafone | * postponed |  |  |
| * C3-204044 | * Clarification on using PAP/CHAP for 5GS interoperability | * Qualcomm Incorporated, Vodafone | * postponed |  |  |
| * C3-204045 | * Clarification on using PAP/CHAP for 5GS interoperability | * Qualcomm Incorporated, Vodafone | * postponed |  |  |
| * C3-204046 | * Missing and inconsistent “apiVersion” notations and Location header | * Samsung Electronics Iberia SA | * revised |  | * C3-204326 |
| * C3-204047 | * Addition of missing capability. | * NTT corporation | * revised |  | * C3-204373 |
| * C3-204048 | * CAPIF Routing Info API corrections | * Samsung Electronics Iberia SA | * revised |  | * C3-204327 |
| * C3-204049 | * CAPIF topology hiding correction | * Samsung Electronics Iberia SA | * agreed |  |  |
| * C3-204050 | * Correct apiVersion notation | * Samsung Electronics Iberia SA | * agreed |  |  |
| * C3-204051 | * Corrections to API and Event names | * Samsung Electronics Iberia SA | * revised |  | * C3-204328 |
| * C3-204052 | * Correct Identity filter in Events API | * Samsung Electronics Iberia SA | * agreed |  |  |
| * C3-204053 | * SS\_KeyInfoRetrieval API correction | * Samsung Electronics Iberia SA | * revised |  | * C3-204329 |
| * C3-204054 | * Addition of missing capability. | * NTT corporation | * revised |  | * C3-204374 |
| * C3-204055 | * Key Management API description | * Samsung Electronics Iberia SA | * agreed |  |  |
| * C3-204056 | * UnicastSubscription attribute presence correction | * Samsung Electronics Iberia SA | * revised |  | * C3-204330 |
| * C3-204057 | * Addition of missing capability. | * NTT corporation | * revised |  | * C3-204375 |
| * C3-204058 | * SS\_LocationInfoRetrieval API service operation semantic | * Samsung Electronics Iberia SA | * postponed |  |  |
| * C3-204059 | * Impacts of EDGEAPP to CT WGs | * Samsung Electronics Iberia SA | * noted |  |  |
| * C3-204060 | * DISC on eNS\_Ph2 | * ZTE | * noted |  |  |
| * C3-204061 | * WID\_eNS\_Ph2 | * ZTE | * postponed |  |  |
| * C3-204062 | * relIpv4Address attribute correction | * ZTE | * agreed |  |  |
| * C3-204063 | * relIpv4Address attribute correction | * ZTE | * agreed |  |  |
| * C3-204064 | * Application data change triggers PCF-initiated SM Policy Association Modification | * ZTE | * agreed |  |  |
| * C3-204065 | * Application data change triggers PCF-initiated SM Policy Association Modification | * ZTE | * agreed |  |  |
| * C3-204066 | * correction to ACCESS\_TYPE\_CH trigger | * ZTE | * revised |  | * C3-204343 |
| * C3-204067 | * Procedure for IPTV configuration | * ZTE | * revised |  | * C3-204334 |
| * C3-204068 | * Include resouceURI in IptvConfigData for change notification association | * ZTE | * agreed |  |  |
| * C3-204069 | * Include N2 PC5 policy in update response | * ZTE | * agreed |  |  |
| * C3-204070 | * Remove the dependency of subscription data in UDR for V2X | * ZTE | * agreed |  |  |
| * C3-204071 | * Procedure of AF-based service parameter provisioning for V2X | * ZTE | * revised |  | * C3-204325 |
| * C3-204072 | * Include resouceURI in ServiceParameterData for change notification association | * ZTE | * agreed |  |  |
| * C3-204073 | * GPSI used for PCF selection | * ZTE | * revised |  | * C3-204309 |
| * C3-204074 | * Include resouceURI in TrafficInfluData for change notification association | * ZTE | * agreed |  |  |
| * C3-204075 | * Include resouceURI in BdtPolicyData for change notification association | * ZTE | * agreed |  |  |
| * C3-204076 | * Defalt value for eventsRepInfo attribute | * ZTE | * revised |  | * C3-204331 |
| * C3-204077 | * notifId used for QoS monitoring report | * ZTE | * revised |  | * C3-204408 |
| * C3-204078 | * report initial presence status for PRA | * ZTE | * revised |  | * C3-204296 |
| * C3-204079 | * report initial presence status for PRA | * ZTE | * revised |  | * C3-204297 |
| * C3-204080 | * Some corrections on 29.520 | * ZTE | * not pursued |  | * - |
| * C3-204081 | * Correct the description of anyUeInd | * ZTE | * not pursued |  |  |
| * C3-204082 | * Correction to QosData | * Huawei | * revised |  | * C3-204358 |
| * C3-204083 | * Correction to QosData | * Huawei | * revised |  | * C3-204359 |
| * C3-204084 | * Correction to QoS Flow usage negotiation | * Huawei | * revised |  | * C3-204360 |
| * C3-204085 | * Correction to QoS Flow usage negotiation | * Huawei | * revised |  | * C3-204361 |
| * C3-204086 | * Correction to RedirectInformation | * Huawei | * revised |  | * C3-204362 |
| * C3-204087 | * Correction to RedirectInformation | * Huawei | * revised |  | * C3-204363 |
| * C3-204088 | * PRA Id transcoding | * Huawei | * postponed |  |  |
| * C3-204089 | * PRA Id transcoding | * Huawei | * postponed |  |  |
| * C3-204090 | * Correction to the PFD change notification | * Huawei | * agreed |  |  |
| * C3-204091 | * Correction to the PFD change notification | * Huawei | * agreed |  |  |
| * C3-204092 | * Correction to 3GPP-UE-MAC-Address | * Huawei | * revised |  | * C3-204348 |
| * C3-204093 | * Correction to 3GPP-UE-MAC-Address | * Huawei | * revised |  | * C3-204349 |
| * C3-204094 | * Correction on the authentication and authorization procedure | * Huawei | * revised |  | * C3-204398 |
| * C3-204095 | * Correction on the authentication and authorization procedure | * Huawei | * revised |  | * C3-204399 |
| * C3-204096 | * Correction on the Acct-Session-Id | * Huawei | * postponed |  |  |
| * C3-204097 | * Correction on the Acct-Session-Id | * Huawei | * postponed |  |  |
| * C3-204098 | * Correction to the Sesson-AMBR | * Huawei | * agreed |  |  |
| * C3-204099 | * Correction to the Sesson-AMBR | * Huawei | * agreed |  |  |
| * C3-204100 | * Correction to policy update when UE suspends | * Huawei | * revised |  | * C3-204310 |
| * C3-204101 | * Remove the editor’s note | * Huawei | * merged |  |  |
| * C3-204102 | * Correction to QoS flow binding | * Huawei | * agreed |  |  |
| * C3-204103 | * Correction to detection of downlink data delivery status change | * Huawei | * agreed |  |  |
| * C3-204104 | * Correction to policy control request triggers for wireline access | * Huawei | * agreed |  |  |
| * C3-204105 | * Correction to alternative QoS | * Huawei | * merged |  |  |
| * C3-204106 | * Notification PUSH | * Huawei | * withdrawn |  |  |
| * C3-204107 | * 204 status code | * Huawei | * revised |  | * C3-204377 |
| * C3-204108 | * 204 status code | * Huawei | * revised |  | * C3-204378 |
| * C3-204109 | * Error status code | * Huawei | * agreed |  |  |
| * C3-204110 | * Error status code | * Huawei | * agreed |  |  |
| * C3-204111 | * Successful status code | * Huawei | * agreed |  |  |
| * C3-204112 | * Successful status code | * Huawei | * agreed |  |  |
| * C3-204113 | * Support of stateless NFs | * Huawei | * revised |  | * C3-204415 |
| * C3-204114 | * Support of stateless NFs | * Huawei | * revised |  | * C3-204416 |
| * C3-204115 | * Support of stateless NFs | * Huawei | * revised |  | * C3-204417 |
| * C3-204116 | * Support of stateless NFs | * Huawei | * revised |  | * C3-204418 |
| * C3-204117 | * Support of stateless NFs | * Huawei | * revised |  | * C3-204419 |
| * C3-204118 | * Support of stateless NFs | * Huawei | * revised |  | * C3-204420 |
| * C3-204119 | * Support of stateless NFs | * Huawei | * revised |  | * C3-204421 |
| * C3-204120 | * Support of stateless NFs | * Huawei | * revised |  | * C3-204422 |
| * C3-204121 | * Support of stateless NFs | * Huawei | * revised |  | * C3-204423 |
| * C3-204122 | * Support of stateless NFs | * Huawei | * revised |  | * C3-204424 |
| * C3-204123 | * Support of stateless NFs | * Huawei | * revised |  | * C3-204425 |
| * C3-204124 | * Support of stateless NFs | * Huawei | * revised |  | * C3-204426 |
| * C3-204125 | * Support of stateless NFs | * Huawei | * revised |  | * C3-204427 |
| * C3-204126 | * Support of stateless NFs | * Huawei | * revised |  | * C3-204428 |
| * C3-204127 | * Support of stateless NFs | * Huawei | * revised |  | * C3-204429 |
| * C3-204128 | * Correction on the the authorization data | * Huawei | * not pursued |  |  |
| * C3-204129 | * Clarification of default QoS | * Huawei | * revised |  | * C3-204298 |
| * C3-204130 | * Clarification of IP index provisioning | * Huawei | * agreed |  |  |
| * C3-204131 | * Clarification of usage monitoring control | * Huawei | * revised |  | * C3-204299 |
| * C3-204132 | * Correction to indication of UE IP address preservation | * Huawei | * revised |  | * C3-204300 |
| * C3-204133 | * Correction to policy control functions for TSN | * Huawei | * revised |  | * C3-204301 |
| * C3-204134 | * Internal group id | * Huawei | * not pursued |  |  |
| * C3-204135 | * Correction to the policy decision | * Huawei | * agreed |  |  |
| * C3-204136 | * Correction to the session-AMBR provisioning | * Huawei | * agreed |  |  |
| * C3-204137 | * Correction to the SM policy association procedure | * Huawei | * revised |  | * C3-204302 |
| * C3-204138 | * Update the call flows to support TSN | * Huawei | * not pursued |  | * - |
| * C3-204139 | * Traffic steering control for 5G-LAN type of services | * Huawei | * revised |  | * C3-204304 |
| * C3-204140 | * Update the definitions in 3.1 | * Huawei | * revised |  | * C3-204305 |
| * C3-204141 | * Multiple traffic descriptors | * Huawei | * not pursued |  | * - |
| * C3-204142 | * Notification PUSH | * Huawei, China Telecom, China Mobile | * revised |  | * C3-204385 |
| * C3-204143 | * Correction to spending limit subscribe and unsubscribe procedures | * Huawei | * revised |  | * C3-204367 |
| * C3-204144 | * Correction to spending limit subscribe and unsubscribe procedures | * Huawei | * revised |  | * C3-204368 |
| * C3-204145 | * Failure response for AsSessionWithQoS API | * Huawei | * agreed |  |  |
| * C3-204146 | * Failure response for AsSessionWithQoS API | * Huawei | * agreed |  |  |
| * C3-204147 | * Same IPv4 address for different PDU sessions | * Huawei, China Mobile | * agreed |  |  |
| * C3-204148 | * Same IPv4 address for different PDU sessions | * Huawei, China Mobile | * agreed |  |  |
| * C3-204149 | * Remove 5G procedures to TS 29.522 | * Huawei | * revised |  | * C3-204289 |
| * C3-204150 | * Remove 5G procedures from TS 29.122 | * Huawei | * agreed |  |  |
| * C3-204151 | * Data type correction | * Huawei | * agreed |  |  |
| * C3-204152 | * Corrections on NiddConfigurationTrigger API | * Huawei | * agreed |  |  |
| * C3-204153 | * Support PDU session status | * Huawei | * agreed |  |  |
| * C3-204154 | * List of allowed VLAN Ids within DN authorization data | * Huawei | * revised |  | * C3-204430 |
| * C3-204155 | * Missed Location header table | * Huawei | * agreed |  |  |
| * C3-204156 | * Unique RACS Id | * Huawei | * revised |  | * C3-204340 |
| * C3-204157 | * Failure response | * Huawei | * agreed |  |  |
| * C3-204158 | * MAC addresses and PDU session association | * Huawei | * postponed |  |  |
| * C3-204159 | * Description for NWDAF services | * Huawei | * revised |  | * C3-204317 |
| * C3-204160 | * Zero confidence | * Huawei | * revised |  | * C3-204318 |
| * C3-204161 | * Zero confidence | * Huawei | * agreed |  |  |
| * C3-204162 | * Nchf\_SpendingLimitControl Service support of interworking | * Huawei | * revised |  | * C3-204369 |
| * C3-204163 | * Nchf\_SpendingLimitControl Service support of interworking | * Huawei | * revised |  | * C3-204370 |
| * C3-204164 | * Nchf\_SpendingLimitControl Service Supporting scenario | * Huawei | * merged |  |  |
| * C3-204165 | * Data type correction of the reqAni | * Nokia, Nokia Shanghai Bell | * revised |  | * C3-204312 |
| * C3-204166 | * Nchf\_SpendingLimitControl Service Supporting scenario | * Huawei | * merged |  |  |
| * C3-204167 | * State of Rel-17 enhancements for non-public networks (eNPN) in other WGs | * Ericsson | * noted |  |  |
| * C3-204168 | * LS reply on Media Feature Tag for IMS Data Channel | * Ericsson | * approved |  |  |
| * C3-204169 | * Support of P-Charging-Vector header field in BYE and PRACK | * Ericsson | * agreed |  |  |
| * C3-204170 | * Support of P-Charging-Vector header field in BYE and PRACK | * Ericsson | * agreed |  |  |
| * C3-204171 | * Support of P-Charging-Vector header field in BYE and PRACK | * Ericsson | * agreed |  |  |
| * C3-204172 | * Support of P-Charging-Vector header field in BYE and PRACK | * Ericsson | * agreed |  |  |
| * C3-204173 | * Corrections related to framed routes | * Ericsson | * agreed |  |  |
| * C3-204174 | * Correcting feature numbers | * Ericsson | * agreed |  |  |
| * C3-204175 | * Removal of sibling elements | * Ericsson | * agreed |  |  |
| * C3-204176 | * Reference to enumeration Accuracy | * Ericsson | * agreed |  |  |
| * C3-204177 | * CAPIF security inconsistency | * Ericsson | * noted |  |  |
| * C3-204178 | * Correct CAPIF security API | * Ericsson | * revised |  | * C3-204352 |
| * C3-204179 | * Correct CAPIF security API | * Ericsson | * revised |  | * C3-204353 |
| * C3-204180 | * Initial report for multiple PDN connections | * Ericsson | * revised |  | * C3-204406 |
| * C3-204181 | * Correct xMB update procedure | * Ericsson | * agreed |  | * - |
| * C3-204182 | * Correct xMB update procedure | * Ericsson | * revised |  | * C3-204357 |
| * C3-204183 | * Correct xMB update procedure | * Ericsson | * agreed |  | * - |
| * C3-204184 | * Support CAPIF custom header | * Ericsson | * not pursued |  |  |
| * C3-204185 | * Support CAPIF custom header | * Ericsson | * not pursued |  |  |
| * C3-204186 | * Support CAPIF custom header | * Ericsson | * not pursued |  |  |
| * C3-204187 | * Support CAPIF custom header | * Ericsson | * revised |  | * C3-204354 |
| * C3-204188 | * Support CAPIF custom header | * Ericsson | * revised |  | * C3-204355 |
| * C3-204189 | * Support CAPIF custom header | * Ericsson | * not pursued |  |  |
| * C3-204190 | * Support CAPIF custom header | * Ericsson | * not pursued |  |  |
| * C3-204191 | * Support CAPIF custom header | * Ericsson | * not pursued |  |  |
| * C3-204192 | * Correct QoS sustainability requirement | * Ericsson | * agreed |  |  |
| * C3-204193 | * Add missing applicable messages for IP pool info | * Ericsson | * agreed |  |  |
| * C3-204194 | * Remove UP path change for I-SMF | * Ericsson | * agreed |  |  |
| * C3-204195 | * Use correct code for deleting individual ChargeableParty transaction | * Ericsson | * agreed |  |  |
| * C3-204196 | * Use correct code for deleting individual ChargeableParty transaction | * Ericsson | * agreed |  |  |
| * C3-204197 | * V2XAPP stage 3 specification duplication | * Ericsson | * noted |  |  |
| * C3-204198 | * LS on V2XAPP stage 3 requirements overlap | * Ericsson | * not pursued |  |  |
| * C3-204199 | * Resource URI for individual subscription | * Huawei | * revised |  | * C3-204371 |
| * C3-204200 | * Resource URI for individual subscription | * Huawei | * revised |  | * C3-204372 |
| * C3-204201 | * Corrections on AF-initiated PFD management procedure | * Huawei | * revised |  | * C3-204346 |
| * C3-204202 | * Corrections on AF-initiated PFD management procedure | * Huawei | * revised |  | * C3-204347 |
| * C3-204203 | * URI of ACSParameterProvision API | * Huawei | * agreed |  |  |
| * C3-204204 | * Subscription creation | * Huawei | * agreed |  |  |
| * C3-204205 | * Resource correction | * Huawei | * revised |  | * C3-204324 |
| * C3-204206 | * Resource correction | * Huawei | * agreed |  |  |
| * C3-204207 | * Missed data type definition | * Huawei | * revised |  | * C3-204332 |
| * C3-204208 | * Validity period for analytics information | * Huawei | * agreed |  |  |
| * C3-204209 | * Validity period for analytics information | * Huawei | * agreed |  |  |
| * C3-204210 | * Timestamp of analytics generation | * Huawei | * revised |  | * C3-204319 |
| * C3-204211 | * Notification about subscribed event | * Huawei | * agreed |  |  |
| * C3-204212 | * CT aspects on Dynamically Changing AM Policies in the 5GC | * Ericsson España S.A. | * postponed | * C3-204035 |  |
| * C3-204213 | * Discussion on Dynamically Changing AM Policies in the 5GC | * Ericsson España S.A. | * noted | * C3-204036 |  |
| * C3-204214 | * Correction to ADC | * Ericsson España S.A. | * revised |  | * C3-204364 |
| * C3-204215 | * Correction to policy update when UE suspends | * Huawei Technologies R&D UK | * withdrawn |  |  |
| * C3-204216 | * Correction to ADC | * Ericsson España S.A. | * revised |  | * C3-204365 |
| * C3-204217 | * Correction to ChfAddress | * Ericsson España S.A. | * agreed |  |  |
| * C3-204218 | * 5G LAN Parameter Provisioning | * Huawei | * agreed |  |  |
| * C3-204219 | * Corrections on UE Mobility | * Huawei | * postponed |  |  |
| * C3-204220 | * Corrections on UE Mobility | * Huawei | * agreed |  |  |
| * C3-204221 | * Omitted event reporting information | * Huawei | * revised |  | * C3-204320 |
| * C3-204222 | * Omitted event reporting information | * Huawei | * agreed |  |  |
| * C3-204223 | * Omitted event reporting information | * Huawei | * merged |  |  |
| * C3-204224 | * Correction to ChfAddress | * Ericsson España S.A. | * agreed |  |  |
| * C3-204225 | * Correction to RAN-NAS Release Cause feature | * Ericsson España S.A. | * revised |  | * C3-204366 |
| * C3-204226 | * Correction to RAN-NAS Release Cause feature | * Ericsson España S.A. | * agreed |  |  |
| * C3-204227 | * Correction for emergency sessions | * Ericsson España S.A. | * revised |  | * C3-204409 |
| * C3-204228 | * Correction for emergency sessions | * Ericsson España S.A. | * revised |  | * C3-204410 |
| * C3-204229 | * Correction to RAN-NAS Release Cause feature | * Ericsson España S.A. | * revised |  | * C3-204411 |
| * C3-204230 | * Correction to RAN-NAS Release Cause feature | * Ericsson España S.A. | * revised |  | * C3-204412 |
| * C3-204231 | * Correction on RAT-Type AVP | * Ericsson España S.A. | * revised |  | * C3-204335 |
| * C3-204232 | * Correction to E.2 | * Ericsson España S.A. | * revised |  | * C3-204336 |
| * C3-204233 | * Support of 5GS non-3GPP Trusted Access | * Ericsson España S.A. | * revised |  | * C3-204337 |
| * C3-204234 | * Support of 5GS Wireline Access | * Ericsson España S.A. | * revised |  | * C3-204338 |
| * C3-204235 | * Resource Level Authorization for Policy Data, Application Data, and Exposure Data | * Nokia Germany | * agreed |  |  |
| * C3-204236 | * Clarification of trace control | * Huawei Technologies R&D UK | * agreed |  |  |
| * C3-204237 | * Support of 5GS and EPC interworking for non-3GPP Trusted Access | * Ericsson España S.A. | * revised |  | * C3-204339 |
| * C3-204238 | * Removal on Editor’s notes on traffic forwarding for a MA PDU session | * Ericsson España S.A. | * revised |  | * C3-204344 |
| * C3-204239 | * Correction to Trusted Non-3GPP location information | * Ericsson España S.A. | * agreed |  |  |
| * C3-204240 | * Correction of handling of non-3GPP location information by the P-CSCF | * Ericsson España S.A. | * revised |  | * C3-204313 |
| * C3-204241 | * Handling of MPS Session by the P-CSCF | * Ericsson España S.A. | * revised |  | * C3-204314 |
| * C3-204242 | * Correction to PCF discovery and selection | * Ericsson España S.A. | * revised |  | * C3-204341 |
| * C3-204243 | * Removal of an established AS session | * Huawei | * revised |  | * C3-204350 |
| * C3-204244 | * Removal of an established AS session | * Huawei | * revised |  | * C3-204351 |
| * C3-204245 | * Reading all subscriptions in ApplyingBdtPolicy API | * Huawei | * revised |  | * C3-204404 |
| * C3-204246 | * Resource URI corrections | * Huawei | * revised |  | * C3-204379 |
| * C3-204247 | * Usage of PUT and PATCH | * Huawei | * agreed |  |  |
| * C3-204248 | * Reference point representation | * Huawei | * revised |  | * C3-204387 |
| * C3-204249 | * Subscribed delivery status | * Huawei | * revised |  | * C3-204323 |
| * C3-204250 | * Optional network slice identification | * Huawei | * agreed |  |  |
| * C3-204251 | * Slice load level information | * Huawei | * agreed |  |  |
| * C3-204252 | * Matching direction | * Huawei | * revised |  | * C3-204321 |
| * C3-204253 | * Missed response code | * Huawei | * agreed |  |  |
| * C3-204254 | * Missed response code | * Huawei | * agreed |  |  |
| * C3-204255 | * Time when analytics information is needed | * Huawei | * agreed |  |  |
| * C3-204256 | * Confidence for UE mobility | * Huawei | * revised |  | * C3-204322 |
| * C3-204257 | * Ratio and confidence for UE mobility | * Huawei | * revised |  | * C3-204333 |
| * C3-204258 | * Supported feature in Nnwdaf\_AnalyticsInfo API | * Huawei | * agreed |  |  |
| * C3-204259 | * Target UE identification | * Huawei | * agreed |  |  |
| * C3-204260 | * Correction on NetworkPerfType | * Huawei | * agreed |  |  |
| * C3-204261 | * Correction on Network Area | * Huawei | * merged |  |  |
| * C3-204262 | * Extra reporting requirement | * Huawei | * agreed |  |  |
| * C3-204263 | * Reading all subscriptions in AnalyticsExposure API | * Huawei | * agreed |  |  |
| * C3-204264 | * Correction to selection of the same PCF | * Ericsson España S.A. | * revised |  | * C3-204342 |
| * C3-204265 | * Corrections on appIds and dnns | * Huawei | * agreed |  |  |
| * C3-204266 | * Any UE indication applies to EXCEPTIONS | * Huawei | * revised |  | * C3-204293 |
| * C3-204267 | * Applicabilities of appIds and locArea | * Huawei | * agreed |  |  |
| * C3-204268 | * Applicabilities of snssai, dnn and locArea | * Huawei | * agreed |  |  |
| * C3-204269 | * Corrections to mtcProviderId | * Ericsson | * agreed |  |  |
| * C3-204270 | * Corrections to mtcProviderId | * Ericsson | * agreed |  |  |
| * C3-204271 | * Updates NpConfiguration with mtcProviderId | * Ericsson | * revised |  | * C3-204407 |
| * C3-204272 | * Updates to IPv6 Prefix Delegation | * Ericsson | * revised |  | * C3-204287 |
| * C3-204273 | * Corrections to Delegated-IPv6-Prefix | * Ericsson | * postponed |  |  |
| * C3-204274 | * Corrections to Delegated-IPv6-Prefix | * Ericsson | * postponed |  |  |
| * C3-204275 | * Corrections to Delegated-IPv6-Prefix | * Ericsson | * postponed |  |  |
| * C3-204276 | * Corrections to Delegated-IPv6-Prefix | * Ericsson | * postponed |  |  |
| * C3-204277 | * Corrections to Delegated-IPv6-Prefix | * Ericsson | * postponed |  |  |
| * C3-204278 | * Corrections to Delegated-IPv6-Prefix | * Ericsson | * postponed |  |  |
| * C3-204279 | * Corrections to Delegated-IPv6-Prefix | * Ericsson | * postponed |  |  |
| * C3-204280 | * RAT Type extension for 5WWC | * Ericsson | * not pursued |  | * - |
| * C3-204281 | * RAT Type extension for 5WWC | * Ericsson | * not pursued |  | * - |
| * C3-204282 | * User Location extension for 5WWC | * Ericsson | * not pursued |  | * - |
| * C3-204283 | * Corrections to Framed IPv6 | * Ericsson | * agreed |  |  |
| * C3-204284 | * Corrections to networkArea with anyUE | * Ericsson | * revised |  | * C3-204315 |
| * C3-204285 | * Corrections to abnormal behaviour for any UE | * Ericsson | * revised |  | * C3-204316 |
| * C3-204286 | * Corrections to Service Experience | * Ericsson | * postponed |  |  |
| * C3-204287 | * Updates to IPv6 Prefix Delegation | * Ericsson | * postponed | * C3-204272 |  |
| * C3-204288 | * Adding Support for Indicating Serialization Format in RDS | * Convida Wireless LLC, Intel | * not pursued | * C3-204025 | * - |
| * C3-204289 | * Remove 5G procedures to TS 29.522 | * Huawei | * agreed | * C3-204149 | * - |
| * C3-204290 | * 23700-11 initial version | * Huawei, HiSilicon | * agreed | * C3-204032 | * - |
| * C3-204291 | * ResourceURI correction during subscription update | * ZTE | * agreed | * - | * - |
| * C3-204292 | * ResourceURI correction during subscription update | * ZTE | * agreed | * - | * - |
| * C3-204293 | * Any UE indication applies to EXCEPTIONS | * Huawei, ZTE | * agreed | * C3-204266 | * - |
| * C3-204294 | * Correction on the the authorization data | * Huawei | * agreed | * - | * - |
| * C3-204295 | * Correction on the the authorization data | * Huawei | * agreed | * - | * - |
| * C3-204296 | * report initial presence status for PRA | * ZTE | * agreed | * C3-204078 | * - |
| * C3-204297 | * report initial presence status for PRA | * ZTE | * agreed | * C3-204079 | * - |
| * C3-204298 | * Clarification of default QoS | * Huawei | * agreed | * C3-204129 | * - |
| * C3-204299 | * Clarification of usage monitoring control | * Huawei | * agreed | * C3-204131 | * - |
| * C3-204300 | * Correction to indication of UE IP address preservation | * Huawei | * agreed | * C3-204132 | * - |
| * C3-204301 | * Correction to policy control functions for TSN | * Huawei | * agreed | * C3-204133 | * - |
| * C3-204302 | * Correction to the SM policy association procedure | * Huawei | * agreed | * C3-204137 | * - |
| * C3-204303 | * Update the call flows to support TSN | * Huawei | * agreed | * - | * - |
| * C3-204304 | * Traffic steering control for 5G-LAN type of services | * Huawei | * agreed | * C3-204139 | * - |
| * C3-204305 | * Update the definitions in 3.1 | * Huawei | * agreed | * C3-204140 | * - |
| * C3-204306 | * Multiple traffic descriptors | * Huawei | * agreed | * - | * - |
| * C3-204307 | * New WID on Authentication and key management for applications based on 3GPP credential in 5G | * China Mobile | * revised | * C3-204039 | * C3-204376 |
| * C3-204308 | * Correction of the alternative QoS profile | * Nokia, Nokia Shanghai Bell, Huawei | * agreed | * C3-204033 | * - |
| * C3-204309 | * GPSI used for PCF selection | * ZTE, China Mobile | * agreed | * C3-204073 | * - |
| * C3-204310 | * Correction to policy update when UE suspends | * Huawei | * agreed | * C3-204100 | * - |
| * C3-204311 | * LS on MAC addresses and PDU session association | * Huawei | * not pursued | * - | * - |
| * C3-204312 | * Data type correction of the reqAni | * Nokia, Nokia Shanghai Bell | * agreed | * C3-204165 | * - |
| * C3-204313 | * Correction of handling of non-3GPP location information by the P-CSCF | * Ericsson España S.A. | * agreed | * C3-204240 | * - |
| * C3-204314 | * Handling of MPS Session by the P-CSCF | * Ericsson España S.A. | * agreed | * C3-204241 | * - |
| * C3-204315 | * Corrections to networkArea with anyUE | * Ericsson, Huawei | * agreed | * C3-204284 | * - |
| * C3-204316 | * Corrections to abnormal behaviour for any UE | * Ericsson, Huawei | * agreed | * C3-204285 | * - |
| * C3-204317 | * Description for NWDAF services | * Huawei | * agreed | * C3-204159 | * - |
| * C3-204318 | * Zero confidence | * Huawei | * agreed | * C3-204160 | * - |
| * C3-204319 | * Timestamp of analytics generation | * Huawei | * agreed | * C3-204210 | * - |
| * C3-204320 | * Omitted event reporting information | * Huawei | * agreed | * C3-204221 | * - |
| * C3-204321 | * Matching direction | * Huawei | * agreed | * C3-204252 | * - |
| * C3-204322 | * Confidence for UE mobility | * Huawei, Ericsson | * agreed | * C3-204256 | * - |
| * C3-204323 | * Subscribed delivery status | * Huawei | * agreed | * C3-204249 | * - |
| * C3-204324 | * Resource correction | * Huawei | * agreed | * C3-204205 | * - |
| * C3-204325 | * Procedure of AF-based service parameter provisioning for V2X | * ZTE | * agreed | * C3-204071 | * - |
| * C3-204326 | * Missing and inconsistent “apiVersion” notations and Location header | * Samsung Electronics Iberia SA | * agreed | * C3-204046 | * - |
| * C3-204327 | * CAPIF Routing Info API corrections | * Samsung Electronics Iberia SA | * agreed | * C3-204048 | * - |
| * C3-204328 | * Corrections to API and Event names | * Samsung Electronics Iberia SA | * agreed | * C3-204051 | * - |
| * C3-204329 | * SS\_KeyInfoRetrieval API correction | * Samsung Electronics Iberia SA | * agreed | * C3-204053 | * - |
| * C3-204330 | * UnicastSubscription attribute presence correction | * Samsung Electronics Iberia SA | * agreed | * C3-204056 | * - |
| * C3-204331 | * Defalt value for eventsRepInfo attribute | * ZTE, Huawei | * agreed | * C3-204076 | * - |
| * C3-204332 | * Missed data type definition | * Huawei | * agreed | * C3-204207 | * - |
| * C3-204333 | * Ratio and confidence for UE mobility | * Huawei, Ericsson | * agreed | * C3-204257 | * - |
| * C3-204334 | * Procedure for IPTV configuration | * ZTE | * agreed | * C3-204067 | * - |
| * C3-204335 | * Correction on RAT-Type AVP | * Ericsson España S.A. | * agreed | * C3-204231 | * - |
| * C3-204336 | * Correction to E.2 | * Ericsson España S.A. | * agreed | * C3-204232 | * - |
| * C3-204337 | * Support of 5GS non-3GPP Trusted Access | * Ericsson España S.A. | * agreed | * C3-204233 | * - |
| * C3-204338 | * Support of 5GS Wireline Access | * Ericsson España S.A. | * agreed | * C3-204234 | * - |
| * C3-204339 | * Support of 5GS and EPC interworking for non-3GPP Trusted Access | * Ericsson España S.A. | * agreed | * C3-204237 | * - |
| * C3-204340 | * Unique RACS Id | * Huawei | * agreed | * C3-204156 | * - |
| * C3-204341 | * Correction to PCF discovery and selection | * Ericsson España S.A. | * agreed | * C3-204242 | * - |
| * C3-204342 | * Correction to selection of the same PCF | * Ericsson España S.A. | * agreed | * C3-204264 | * - |
| * C3-204343 | * correction to ACCESS\_TYPE\_CH trigger | * ZTE | * agreed | * C3-204066 | * - |
| * C3-204344 | * Removal on Editor’s notes on traffic forwarding for a MA PDU session | * Ericsson España S.A., Huawei | * agreed | * C3-204238 | * - |
| * C3-204345 | * CT aspects on PAP/CHAP protocols usage in 5GS | * China Telecom Corporation Ltd. | * postponed | * C3-204041 | * - |
| * C3-204346 | * Corrections on AF-initiated PFD management procedure | * Huawei | * agreed | * C3-204201 | * - |
| * C3-204347 | * Corrections on AF-initiated PFD management procedure | * Huawei | * agreed | * C3-204202 | * - |
| * C3-204348 | * Correction to 3GPP-UE-MAC-Address | * Huawei, Ericsson | * agreed | * C3-204092 | * - |
| * C3-204349 | * Correction to 3GPP-UE-MAC-Address | * Huawei, Ericsson | * agreed | * C3-204093 | * - |
| * C3-204350 | * Removal of an established AS session | * Huawei | * agreed | * C3-204243 | * - |
| * C3-204351 | * Removal of an established AS session | * Huawei | * agreed | * C3-204244 | * - |
| * C3-204352 | * Correct CAPIF security API | * Ericsson | * agreed | * C3-204178 | * - |
| * C3-204353 | * Correct CAPIF security API | * Ericsson | * agreed | * C3-204179 | * - |
| * C3-204354 | * Correct api invoker certificate in onboarding | * Ericsson | * agreed | * C3-204187 | * - |
| * C3-204355 | * Correct api invoker certificate in onboarding | * Ericsson | * agreed | * C3-204188 | * - |
| * C3-204356 | * LS on Clarification on using PAP/CHAP for 5GS | * Qualcomm | * revised | * - | * C3-204434 |
| * C3-204357 | * Correct xMB update procedure | * Ericsson | * agreed | * C3-204182 | * - |
| * C3-204358 | * Correction to QosData | * Huawei | * agreed | * C3-204082 | * - |
| * C3-204359 | * Correction to QosData | * Huawei | * agreed | * C3-204083 | * - |
| * C3-204360 | * Correction to QoS Flow usage negotiation | * Huawei | * revised | * C3-204084 | * C3-204402 |
| * C3-204361 | * Correction to QoS Flow usage negotiation | * Huawei | * revised | * C3-204085 | * C3-204403 |
| * C3-204362 | * Correction to RedirectInformation | * Huawei | * agreed | * C3-204086 | * - |
| * C3-204363 | * Correction to RedirectInformation | * Huawei | * agreed | * C3-204087 | * - |
| * C3-204364 | * Correction to ADC | * Ericsson España S.A. | * agreed | * C3-204214 | * - |
| * C3-204365 | * Correction to ADC | * Ericsson España S.A. | * agreed | * C3-204216 | * - |
| * C3-204366 | * Correction to RAN-NAS Release Cause feature | * Ericsson España S.A. | * agreed | * C3-204225 | * - |
| * C3-204367 | * Correction to spending limit subscribe and unsubscribe procedures | * Huawei | * agreed | * C3-204143 | * - |
| * C3-204368 | * Correction to spending limit subscribe and unsubscribe procedures | * Huawei | * agreed | * C3-204144 | * - |
| * C3-204369 | * Nchf\_SpendingLimitControl Service support of interworking | * Huawei | * agreed | * C3-204162 | * - |
| * C3-204370 | * Nchf\_SpendingLimitControl Service support of interworking | * Huawei | * agreed | * C3-204163 | * - |
| * C3-204371 | * Resource URI for individual subscription | * Huawei | * agreed | * C3-204199 | * - |
| * C3-204372 | * Resource URI for individual subscription | * Huawei | * agreed | * C3-204200 | * - |
| * C3-204373 | * Addition of missing capability. | * NTT corporation | * agreed | * C3-204047 | * - |
| * C3-204374 | * Addition of missing capability. | * NTT corporation | * agreed | * C3-204054 | * - |
| * C3-204375 | * Addition of missing capability. | * NTT corporation | * agreed | * C3-204057 | * - |
| * C3-204376 | * New WID on Authentication and key management for applications based on 3GPP credential in 5G | * China Mobile | * approved | * C3-204307 | * - |
| * C3-204377 | * Successful Response | * Huawei | * agreed | * C3-204107 | * - |
| * C3-204378 | * Successful Response | * Huawei | * agreed | * C3-204108 | * - |
| * C3-204379 | * Resource URI corrections | * Huawei | * agreed | * C3-204246 | * - |
| * C3-204380 | * 29.122 Rel-15 Update of OpenAPI version and TS version in externalDocs field | * Huawei | * agreed | * - | * - |
| * C3-204381 | * 29.522 Rel-16 Update of OpenAPI version and TS version in externalDocs field | * Huawei | * agreed | * - | * - |
| * C3-204382 | * 29.122 Rel-16 Update of OpenAPI version and TS version in externalDocs field | * Huawei | * agreed | * - | * - |
| * C3-204383 | * OpenAPI version update of Nudr\_DataRepository API | * Huawe | * agreed | * - | * - |
| * C3-204384 | * 29.519 Rel-16 Update of TS version in externalDocs field | * Huawei | * revised | * - | * C3-204438 |
| * C3-204385 | * Notification PUSH | * Huawei, China Telecom, China Mobile, Ericsson | * agreed | * C3-204142 | * - |
| * C3-204386 | * LS on support of stateless NFs | * Huawei | * approved | * - | * - |
| * C3-204387 | * Reference point representation | * Huawei | * agreed | * C3-204248 | * - |
| * C3-204388 | * 29.525 Rel-17 Update of OpenAPI version and TS version in externalDocs field | * Nokia, Nokia Shanghai Bel | * agreed | * - | * - |
| * C3-204389 | * 29.507 Rel-17 Update of OpenAPI version and TS version in externalDocs field | * Nokia, Nokia Shanghai Bel | * agreed | * - | * - |
| * C3-204390 | * 29.520 Rel-17 Update of OpenAPI version and TS version in externalDocs field | * China Mobile | * revised | * - | * C3-204439 |
| * C3-204391 | * 29.551 Rel-17 Update of OpenAPI version and TS version in externalDocs field | * ZTE | * agreed | * - | * - |
| * C3-204392 | * 29.519 Rel-17 Update of externalDocs field | * Huawei | * agreed | * - | * - |
| * C3-204393 | * 29.512 Rel-16 Update of OpenAPI version and TS version in externalDocs field | * Huawei | * revised | * - | * C3-204441 |
| * C3-204394 | * 29.514 Rel-16 Update of OpenAPI version and TS version in externalDocs field | * Ericsson | * agreed | * - | * - |
| * C3-204395 | * 29.520 Rel-16 Update of OpenAPI version and TS version in externalDocs field | * China Mobile | * revised | * - | * C3-204440 |
| * C3-204396 | * 29.549 Rel-16 Update of OpenAPI version and TS version in externalDocs field | * Samsung | * agreed | * - | * - |
| * C3-204397 | * 29.222 Rel-16 Update of OpenAPI version and TS version in externalDocs field | * Samsung | * agreed | * - | * - |
| * C3-204398 | * Correction on the authentication and authorization procedure | * Huawei | * agreed | * C3-204094 | * - |
| * C3-204399 | * Correction on the authentication and authorization procedure | * Huawei | * agreed | * C3-204095 | * - |
| * C3-204400 | * Status of CT3 Work Items | * CT3 chairman | * noted | * C3-204012 | * - |
| * C3-204401 | * Allocation of documents to agenda items after email approval | * CT3 Chairman | * noted | * - | * - |
| * C3-204402 | * Correction to QoS Flow usage negotiation | * Huawei | * agreed | * C3-204360 | * - |
| * C3-204403 | * Correction to QoS Flow usage negotiation | * Huawei | * agreed | * C3-204361 | * - |
| * C3-204404 | * Reading all subscriptions in ApplyingBdtPolicy API | * Huawei | * agreed | * C3-204245 | * - |
| * C3-204405 | * LS on new AVPs in TS 29.214 | * Ericsson | * approved | * C3-204034 | * - |
| * C3-204406 | * Initial report for multiple PDN connections | * Ericsson | * agreed | * C3-204180 | * - |
| * C3-204407 | * Updates NpConfiguration with mtcProviderId | * Ericsson | * agreed | * C3-204271 | * - |
| * C3-204408 | * notifId used for QoS monitoring report | * ZTE | * agreed | * C3-204077 | * - |
| * C3-204409 | * Correction for emergency sessions | * Ericsson España S.A. | * agreed | * C3-204227 | * - |
| * C3-204410 | * Correction for emergency sessions | * Ericsson España S.A. | * agreed | * C3-204228 | * - |
| * C3-204411 | * Correction to RAN-NAS Release Cause feature | * Ericsson España S.A. | * agreed | * C3-204229 | * - |
| * C3-204412 | * Correction to RAN-NAS Release Cause feature | * Ericsson España S.A. | * agreed | * C3-204230 | * - |
| * C3-204413 | * 29.512 Rel-15 Update of OpenAPI version and TS version in externalDocs field | * Huawei | * agreed | * - | * - |
| * C3-204414 | * 29.222 Update of OpenAPI version and TS version in externalDocs field | * Samsung | * agreed | * - | * - |
| * C3-204415 | * Support of stateless NFs | * Huawei | * not pursued | * C3-204113 | * - |
| * C3-204416 | * Support of stateless NFs | * Huawei | * not pursued | * C3-204114 | * - |
| * C3-204417 | * Support of stateless NFs | * Huawei | * not pursued | * C3-204115 | * - |
| * C3-204418 | * Support of stateless NFs | * Huawei | * not pursued | * C3-204116 | * - |
| * C3-204419 | * Support of stateless NFs | * Huawei | * not pursued | * C3-204117 | * - |
| * C3-204420 | * Support of stateless NFs | * Huawei | * not pursued | * C3-204118 | * - |
| * C3-204421 | * Support of stateless NFs | * Huawei | * not pursued | * C3-204119 | * - |
| * C3-204422 | * Support of stateless NFs | * Huawei | * not pursued | * C3-204120 | * - |
| * C3-204423 | * Support of stateless NFs | * Huawei | * not pursued | * C3-204121 | * - |
| * C3-204424 | * Support of stateless NFs | * Huawei | * not pursued | * C3-204122 | * - |
| * C3-204425 | * Support of stateless NFs | * Huawei | * not pursued | * C3-204123 | * - |
| * C3-204426 | * Support of stateless NFs | * Huawei | * not pursued | * C3-204124 | * - |
| * C3-204427 | * Support of stateless NFs | * Huawei | * not pursued | * C3-204125 | * - |
| * C3-204428 | * Support of stateless NFs | * Huawei | * not pursued | * C3-204126 | * - |
| * C3-204429 | * Support of stateless NFs | * Huawei | * not pursued | * C3-204127 | * - |
| * C3-204430 | * List of allowed VLAN Ids within DN authorization data | * Huawei | * agreed | * C3-204154 | * - |
| * C3-204431 | * RAT Type extension for 5WWC | * Ericsson | * agreed | * - | * - |
| * C3-204432 | * RAT Type extension for 5WWC | * Ericsson | * agreed | * - | * - |
| * C3-204433 | * User Location extension for 5WWC | * Ericsson | * agreed | * - | * - |
| * C3-204434 | * LS on Clarification on using PAP/CHAP for 5GS | * Qualcomm | * approved | * C3-204356 | * - |
| * C3-204435 | * 29.507 Rel-16 Update of OpenAPI version and TS version in externalDocs field | * Nokia, Nokia Shanghai Bell | * agreed | * - | * - |
| * C3-204436 | * 29.525 Rel-16 Update of OpenAPI version and TS version in externalDocs field | * Nokia, Nokia Shanghai Bell | * agreed | * - | * - |
| * C3-204437 | * 29.591 Rel-16 Update of OpenAPI version and TS version in externalDocs field | * Huawei | * agreed | * - | * - |
| * C3-204438 | * 29.519 Rel-16 Update of TS version in externalDocs field | * Huawei | * agreed | * C3-204384 | * - |
| * C3-204439 | * 29.520 Rel-17 Update of OpenAPI version and TS version in externalDocs field | * China Mobile | * agreed | * C3-204390 | * - |
| * C3-204440 | * 29.520 Rel-16 Update of OpenAPI version and TS version in externalDocs field | * China Mobile | * agreed | * C3-204395 | * - |
| * C3-204441 | * 29.512 Rel-16 Update of OpenAPI version and TS version in externalDocs field | * Huawei | * agreed | * C3-204393 | * - |

### A2: Tdoc decision timing

|  |  |  |
| --- | --- | --- |
| Document | Date/time UTC | Decision |
| * C3-204000 | * 2020-08-19 12:07:57 | * noted |
| * C3-204001 | * 2020-08-19 12:09:41 | * noted |
| * C3-204002 | * 2020-08-28 08:34:03 | * noted |
| * C3-204003 | * 2020-08-28 08:34:04 | * noted |
| * C3-204004 | * 2020-08-28 08:34:06 | * noted |
| * C3-204005 | * 2020-08-28 08:34:07 | * noted |
| * C3-204006 | * 2020-08-28 08:34:08 | * noted |
| * C3-204007 | * 2020-08-28 08:34:14 | * noted |
| * C3-204008 | * 2020-08-28 08:34:15 | * noted |
| * C3-204009 | * 2020-08-28 08:34:16 | * noted |
| * C3-204010 | * 2020-08-28 13:21:40 | * noted |
| * C3-204011 | * 2020-08-28 13:21:41 | * noted |
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| * C3-204015 | * 2020-08-28 12:52:16 | * noted |
| * C3-204016 | * 2020-08-19 12:01:45 | * noted |
| * C3-204017 | * 2020-08-19 12:41:51 | * noted |
| * C3-204018 | * 2020-08-19 12:18:51 | * noted |
| * C3-204019 | * 2020-08-19 12:19:15 | * noted |
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| * C3-204021 | * 2020-08-19 12:20:43 | * noted |
| * C3-204022 | * 2020-08-19 12:23:55 | * noted |
| * C3-204023 | * 2020-08-19 12:26:25 | * noted |
| * C3-204024 | * 2020-08-19 12:10:35 | * noted |
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| * C3-204026 | * 2020-08-28 12:29:51 | * postponed |
| * C3-204027 | * 2020-08-19 12:41:52 | * noted |
| * C3-204028 | * 2020-08-21 08:44:36 | * noted |
| * C3-204029 | * 2020-08-19 12:50:52 | * noted |
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| * C3-204047 | * 2020-08-25 13:17:20 | * revised |
| * C3-204048 | * 2020-08-21 13:07:56 | * revised |
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| * C3-204050 | * 2020-08-26 13:53:19 | * agreed |
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| * C3-204079 | * 2020-08-20 14:19:40 | * revised |
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| * C3-204089 | * 2020-08-27 12:30:54 | * postponed |
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| * C3-204094 | * 2020-08-25 12:04:34 | * available |
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| * C3-204096 | * 2020-08-28 12:07:02 | * postponed |
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| * C3-204110 | * 2020-08-26 12:28:45 | * agreed |
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| * C3-204115 | * 2020-08-27 13:11:05 | * revised |
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| * C3-204297 | * 2020-08-26 12:33:02 | * agreed |
| * C3-204298 | * 2020-08-26 12:54:42 | * agreed |
| * C3-204299 | * 2020-08-26 12:54:53 | * agreed |
| * C3-204300 | * 2020-08-26 12:54:55 | * agreed |
| * C3-204301 | * 2020-08-26 12:54:58 | * agreed |
| * C3-204302 | * 2020-08-26 12:56:52 | * agreed |
| * C3-204303 | * 2020-08-26 13:46:48 | * revised |
| * C3-204303 | * 2020-08-26 13:47:24 | * agreed |
| * C3-204304 | * 2020-08-26 12:57:03 | * agreed |
| * C3-204305 | * 2020-08-26 12:57:09 | * agreed |
| * C3-204306 | * 2020-08-27 12:04:13 | * agreed |
| * C3-204306 | * 2020-08-27 12:04:20 | * available |
| * C3-204306 | * 2020-08-27 12:05:19 | * agreed |
| * C3-204307 | * 2020-08-25 13:19:07 | * revised |
| * C3-204308 | * 2020-08-26 13:47:45 | * agreed |
| * C3-204309 | * 2020-08-26 13:10:27 | * agreed |
| * C3-204310 | * 2020-08-26 13:10:37 | * agreed |
| * C3-204311 | * 2020-08-28 12:28:52 | * not pursued |
| * C3-204312 | * 2020-08-26 13:48:57 | * agreed |
| * C3-204313 | * 2020-08-28 12:35:39 | * agreed |
| * C3-204314 | * 2020-08-28 12:35:41 | * agreed |
| * C3-204315 | * 2020-08-27 12:01:48 | * agreed |
| * C3-204316 | * 2020-08-27 12:01:49 | * agreed |
| * C3-204317 | * 2020-08-26 13:24:51 | * agreed |
| * C3-204318 | * 2020-08-26 13:24:53 | * agreed |
| * C3-204319 | * 2020-08-26 13:25:12 | * agreed |
| * C3-204320 | * 2020-08-27 12:02:00 | * agreed |
| * C3-204321 | * 2020-08-26 13:26:20 | * agreed |
| * C3-204322 | * 2020-08-26 13:26:31 | * agreed |
| * C3-204323 | * 2020-08-26 13:23:16 | * agreed |
| * C3-204324 | * 2020-08-27 13:21:19 | * agreed |
| * C3-204325 | * 2020-08-26 13:47:57 | * agreed |
| * C3-204326 | * 2020-08-28 12:36:20 | * agreed |
| * C3-204327 | * 2020-08-26 13:53:14 | * agreed |
| * C3-204328 | * 2020-08-26 13:53:22 | * agreed |
| * C3-204329 | * 2020-08-28 12:36:31 | * agreed |
| * C3-204330 | * 2020-08-28 12:36:34 | * agreed |
| * C3-204331 | * 2020-08-27 12:01:36 | * agreed |
| * C3-204332 | * 2020-08-26 13:24:56 | * agreed |
| * C3-204333 | * 2020-08-27 12:02:15 | * agreed |
| * C3-204334 | * 2020-08-27 12:06:10 | * agreed |
| * C3-204335 | * 2020-08-27 12:06:23 | * agreed |
| * C3-204336 | * 2020-08-27 12:06:26 | * agreed |
| * C3-204337 | * 2020-08-27 12:06:36 | * agreed |
| * C3-204338 | * 2020-08-27 12:06:41 | * agreed |
| * C3-204339 | * 2020-08-28 12:30:26 | * agreed |
| * C3-204340 | * 2020-08-27 12:10:37 | * agreed |
| * C3-204341 | * 2020-08-27 12:03:37 | * agreed |
| * C3-204342 | * 2020-08-27 12:03:38 | * agreed |
| * C3-204343 | * 2020-08-27 12:06:09 | * agreed |
| * C3-204344 | * 2020-08-27 12:03:47 | * agreed |
| * C3-204345 | * 2020-08-28 12:41:04 | * postponed |
| * C3-204346 | * 2020-08-27 12:32:25 | * agreed |
| * C3-204347 | * 2020-08-27 12:32:30 | * agreed |
| * C3-204348 | * 2020-08-28 12:06:14 | * agreed |
| * C3-204349 | * 2020-08-28 12:06:15 | * agreed |
| * C3-204350 | * 2020-08-27 12:46:17 | * agreed |
| * C3-204351 | * 2020-08-27 12:46:21 | * agreed |
| * C3-204352 | * 2020-08-27 12:46:34 | * agreed |
| * C3-204353 | * 2020-08-27 12:46:36 | * agreed |
| * C3-204354 | * 2020-08-27 12:46:47 | * agreed |
| * C3-204355 | * 2020-08-27 12:46:53 | * agreed |
| * C3-204356 | * 2020-08-28 12:26:34 | * revised |
| * C3-204357 | * 2020-08-27 12:29:38 | * agreed |
| * C3-204358 | * 2020-08-27 12:30:01 | * agreed |
| * C3-204359 | * 2020-08-27 12:30:03 | * agreed |
| * C3-204360 | * 2020-08-27 08:16:29 | * revised |
| * C3-204361 | * 2020-08-27 08:16:34 | * revised |
| * C3-204362 | * 2020-08-27 12:30:28 | * agreed |
| * C3-204363 | * 2020-08-27 12:30:31 | * agreed |
| * C3-204364 | * 2020-08-27 12:31:02 | * agreed |
| * C3-204365 | * 2020-08-27 12:31:04 | * agreed |
| * C3-204366 | * 2020-08-27 12:31:26 | * agreed |
| * C3-204367 | * 2020-08-27 12:44:36 | * agreed |
| * C3-204368 | * 2020-08-27 12:44:37 | * agreed |
| * C3-204369 | * 2020-08-27 12:44:44 | * agreed |
| * C3-204370 | * 2020-08-27 12:44:45 | * agreed |
| * C3-204371 | * 2020-08-27 12:44:50 | * agreed |
| * C3-204372 | * 2020-08-27 12:44:50 | * agreed |
| * C3-204373 | * 2020-08-27 12:29:16 | * agreed |
| * C3-204374 | * 2020-08-27 12:29:19 | * agreed |
| * C3-204375 | * 2020-08-27 12:29:23 | * agreed |
| * C3-204376 | * 2020-08-27 13:02:20 | * approved |
| * C3-204377 | * 2020-08-26 12:28:18 | * agreed |
| * C3-204378 | * 2020-08-26 12:28:30 | * agreed |
| * C3-204379 | * 2020-08-27 12:11:42 | * agreed |
| * C3-204380 | * 2020-08-28 12:27:39 | * agreed |
| * C3-204381 | * 2020-08-28 12:38:53 | * agreed |
| * C3-204382 | * 2020-09-01 08:39:24 | * agreed |
| * C3-204383 | * 2020-08-28 12:38:57 | * agreed |
| * C3-204384 | * 2020-08-28 12:39:03 | * agreed |
| * C3-204384 | * 2020-09-03 11:39:12 | * revised |
| * C3-204385 | * 2020-08-28 12:41:20 | * agreed |
| * C3-204386 | * 2020-08-28 12:45:52 | * approved |
| * C3-204387 | * 2020-08-27 13:15:20 | * agreed |
| * C3-204388 | * 2020-09-01 08:39:44 | * agreed |
| * C3-204389 | * 2020-09-01 08:39:44 | * agreed |
| * C3-204390 | * 2020-09-01 08:39:45 | * agreed |
| * C3-204390 | * 2020-09-03 13:53:22 | * revised |
| * C3-204391 | * 2020-09-01 08:39:47 | * agreed |
| * C3-204392 | * 2020-08-28 12:44:51 | * agreed |
| * C3-204393 | * 2020-09-01 08:39:28 | * agreed |
| * C3-204393 | * 2020-09-04 09:16:56 | * revised |
| * C3-204394 | * 2020-09-01 08:39:29 | * agreed |
| * C3-204395 | * 2020-09-01 08:39:30 | * agreed |
| * C3-204395 | * 2020-09-03 13:53:50 | * revised |
| * C3-204396 | * 2020-09-01 08:39:31 | * agreed |
| * C3-204397 | * 2020-09-01 08:39:32 | * agreed |
| * C3-204398 | * 2020-08-27 12:35:08 | * agreed |
| * C3-204399 | * 2020-08-27 12:35:10 | * agreed |
| * C3-204400 | * 2020-08-28 13:22:13 | * noted |
| * C3-204401 | * 2020-09-01 08:38:58 | * noted |
| * C3-204402 | * 2020-08-28 12:05:45 | * agreed |
| * C3-204403 | * 2020-08-28 12:05:48 | * agreed |
| * C3-204404 | * 2020-08-27 12:11:39 | * agreed |
| * C3-204405 | * 2020-08-27 12:44:59 | * approved |
| * C3-204406 | * 2020-08-28 12:30:15 | * agreed |
| * C3-204407 | * 2020-08-28 12:30:18 | * agreed |
| * C3-204408 | * 2020-08-28 12:35:28 | * agreed |
| * C3-204409 | * 2020-08-28 12:06:00 | * agreed |
| * C3-204410 | * 2020-08-28 12:06:01 | * agreed |
| * C3-204411 | * 2020-08-28 12:07:25 | * agreed |
| * C3-204412 | * 2020-08-28 12:07:26 | * agreed |
| * C3-204413 | * 2020-09-01 08:39:10 | * agreed |
| * C3-204414 | * 2020-09-01 08:39:11 | * agreed |
| * C3-204415 | * 2020-08-28 12:42:36 | * not pursued |
| * C3-204416 | * 2020-08-28 12:42:41 | * not pursued |
| * C3-204417 | * 2020-08-28 12:42:44 | * not pursued |
| * C3-204418 | * 2020-08-28 12:42:47 | * not pursued |
| * C3-204419 | * 2020-08-28 12:42:52 | * not pursued |
| * C3-204420 | * 2020-08-28 12:42:55 | * not pursued |
| * C3-204421 | * 2020-08-28 12:43:02 | * not pursued |
| * C3-204422 | * 2020-08-28 12:43:07 | * not pursued |
| * C3-204423 | * 2020-08-28 12:43:10 | * not pursued |
| * C3-204424 | * 2020-08-28 12:43:14 | * not pursued |
| * C3-204425 | * 2020-08-28 12:43:17 | * not pursued |
| * C3-204426 | * 2020-08-28 12:43:21 | * not pursued |
| * C3-204427 | * 2020-08-28 12:43:24 | * not pursued |
| * C3-204428 | * 2020-08-28 12:43:27 | * not concluded |
| * C3-204428 | * 2020-08-28 12:43:29 | * not pursued |
| * C3-204429 | * 2020-08-28 12:43:32 | * not pursued |
| * C3-204430 | * 2020-08-28 12:30:06 | * agreed |
| * C3-204431 | * 2020-08-28 12:53:04 | * agreed |
| * C3-204432 | * 2020-08-28 12:53:05 | * agreed |
| * C3-204433 | * 2020-08-28 12:53:07 | * agreed |
| * C3-204434 | * 2020-08-28 12:45:20 | * approved |
| * C3-204435 | * 2020-09-04 13:13:53 | * agreed |
| * C3-204436 | * 2020-09-04 13:13:54 | * agreed |
| * C3-204437 | * 2020-09-04 13:13:54 | * agreed |
| * C3-204438 | * 2020-09-04 13:15:10 | * agreed |
| * C3-204439 | * 2020-09-04 14:24:18 | * agreed |
| * C3-204440 | * 2020-09-04 14:24:12 | * agreed |
| * C3-204441 | * 2020-09-04 13:14:23 | * agreed |

## Annex B: List of change requests

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Spec | CR | Rev | Rel | Cat | WI | Decision |
| * C3-204042 | * Clarification on using PAP/CHAP for 5GS interoperability | * Qualcomm Incorporated, Vodafone | * 29.061 | * 0515 | * - | * Rel-16 | * F | * TEI16 | * postponed |
| * C3-204043 | * Clarification on using PAP/CHAP for 5GS interoperability | * Qualcomm Incorporated, Vodafone | * 29.061 | * 0516 | * - | * Rel-15 | * F | * TEI15 | * postponed |
| * C3-204273 | * Corrections to Delegated-IPv6-Prefix | * Ericsson | * 29.061 | * 0517 | * - | * Rel-10 | * F | * SAES-St3-intwk, TEI10 | * postponed |
| * C3-204274 | * Corrections to Delegated-IPv6-Prefix | * Ericsson | * 29.061 | * 0518 | * - | * Rel-11 | * A | * SAES-St3-intwk, TEI10 | * postponed |
| * C3-204275 | * Corrections to Delegated-IPv6-Prefix | * Ericsson | * 29.061 | * 0519 | * - | * Rel-12 | * A | * SAES-St3-intwk, TEI10 | * postponed |
| * C3-204276 | * Corrections to Delegated-IPv6-Prefix | * Ericsson | * 29.061 | * 0520 | * - | * Rel-13 | * A | * SAES-St3-intwk, TEI10 | * postponed |
| * C3-204277 | * Corrections to Delegated-IPv6-Prefix | * Ericsson | * 29.061 | * 0521 | * - | * Rel-14 | * A | * SAES-St3-intwk, TEI10 | * postponed |
| * C3-204278 | * Corrections to Delegated-IPv6-Prefix | * Ericsson | * 29.061 | * 0522 | * - | * Rel-15 | * A | * SAES-St3-intwk, TEI10 | * postponed |
| * C3-204279 | * Corrections to Delegated-IPv6-Prefix | * Ericsson | * 29.061 | * 0523 | * - | * Rel-16 | * A | * SAES-St3-intwk, TEI10 | * postponed |
| * C3-204280 | * RAT Type extension for 5WWC | * Ericsson | * 29.061 | * 0524 | * - | * Rel-17 | * B | * 5WWC, TEI17 | * not pursued |
| * C3-204283 | * Corrections to Framed IPv6 | * Ericsson | * 29.061 | * 0525 | * - | * Rel-17 | * F | * TEI17 | * agreed |
| * C3-204431 | * RAT Type extension for 5WWC | * Ericsson | * 29.061 | * 0526 | * - | * Rel-16 | * B | * 5WWC, Vertical\_LAN | * agreed |
| * C3-204181 | * Correct xMB update procedure | * Ericsson | * 29.116 | * 0048 | * - | * Rel-14 | * F | * AE\_enTV-CT | * agreed |
| * C3-204182 | * Correct xMB update procedure | * Ericsson | * 29.116 | * 0049 | * - | * Rel-15 | * A | * AE\_enTV-CT | * revised |
| * C3-204357 | * Correct xMB update procedure | * Ericsson | * 29.116 | * 0049 | * 1 | * Rel-15 | * A | * AE\_enTV-CT | * agreed |
| * C3-204183 | * Correct xMB update procedure | * Ericsson | * 29.116 | * 0050 | * - | * Rel-16 | * A | * AE\_enTV-CT | * agreed |
| * C3-204184 | * Support CAPIF custom header | * Ericsson | * 29.116 | * 0051 | * - | * Rel-16 | * F | * TEI16, CAPIF-CT | * not pursued |
| * C3-204025 | * Adding Support for Indicating Serialization Format in RDS | * Convida Wireless LLC, Intel | * 29.122 | * 0268 | * - | * Rel-16 | * C | * CIoT\_Ext, TEI16, RDSSI | * revised |
| * C3-204288 | * Adding Support for Indicating Serialization Format in RDS | * Convida Wireless LLC, Intel | * 29.122 | * 0268 | * 1 | * Rel-16 | * F | * CIoT\_Ext, TEI16, RDSSI | * not pursued |
| * C3-204120 | * Support of stateless NFs | * Huawei | * 29.122 | * 0269 | * - | * Rel-17 | * B | * TEI17, 5G\_eSBA | * revised |
| * C3-204422 | * Support of stateless NFs | * Huawei | * 29.122 | * 0269 | * 1 | * Rel-17 | * B | * TEI17, 5G\_eSBA | * not pursued |
| * C3-204145 | * Failure response for AsSessionWithQoS API | * Huawei | * 29.122 | * 0270 | * - | * Rel-15 | * F | * NAPS-CT | * agreed |
| * C3-204146 | * Failure response for AsSessionWithQoS API | * Huawei | * 29.122 | * 0271 | * - | * Rel-16 | * A | * NAPS-CT | * agreed |
| * C3-204147 | * Same IPv4 address for different PDU sessions | * Huawei, China Mobile | * 29.122 | * 0272 | * - | * Rel-15 | * F | * NAPS-CT | * agreed |
| * C3-204148 | * Same IPv4 address for different PDU sessions | * Huawei, China Mobile | * 29.122 | * 0273 | * - | * Rel-16 | * A | * NAPS-CT | * agreed |
| * C3-204149 | * Remove 5G procedures to TS 29.522 | * Huawei | * 29.122 | * 0274 | * - | * Rel-16 | * F | * TEI16 | * revised |
| * C3-204289 | * Remove 5G procedures to TS 29.522 | * Huawei | * 29.122 | * 0274 | * 1 | * Rel-16 | * F | * TEI16 | * agreed |
| * C3-204156 | * Unique RACS Id | * Huawei | * 29.122 | * 0275 | * - | * Rel-16 | * F | * RACS | * revised |
| * C3-204340 | * Unique RACS Id | * Huawei | * 29.122 | * 0275 | * 1 | * Rel-16 | * F | * RACS | * agreed |
| * C3-204157 | * Failure response | * Huawei | * 29.122 | * 0276 | * - | * Rel-16 | * F | * RACS | * agreed |
| * C3-204180 | * Initial report for multiple PDN connections | * Ericsson | * 29.122 | * 0277 | * - | * Rel-16 | * F | * 5G\_CIoT | * revised |
| * C3-204406 | * Initial report for multiple PDN connections | * Ericsson | * 29.122 | * 0277 | * 1 | * Rel-16 | * F | * 5G\_CIoT | * agreed |
| * C3-204185 | * Support CAPIF custom header | * Ericsson | * 29.122 | * 0278 | * - | * Rel-15 | * F | * CAPIF-CT | * not pursued |
| * C3-204186 | * Support CAPIF custom header | * Ericsson | * 29.122 | * 0279 | * - | * Rel-16 | * A | * CAPIF-CT | * not pursued |
| * C3-204195 | * Use correct code for deleting individual ChargeableParty transaction | * Ericsson | * 29.122 | * 0280 | * - | * Rel-15 | * F | * NAPS-CT | * agreed |
| * C3-204196 | * Use correct code for deleting individual ChargeableParty transaction | * Ericsson | * 29.122 | * 0281 | * - | * Rel-16 | * A | * NAPS-CT | * agreed |
| * C3-204243 | * Removal of an established AS session | * Huawei | * 29.122 | * 0282 | * - | * Rel-15 | * F | * NAPS-CT | * revised |
| * C3-204350 | * Removal of an established AS session | * Huawei | * 29.122 | * 0282 | * 1 | * Rel-15 | * F | * NAPS-CT | * agreed |
| * C3-204244 | * Removal of an established AS session | * Huawei | * 29.122 | * 0283 | * - | * Rel-16 | * A | * NAPS-CT | * revised |
| * C3-204351 | * Removal of an established AS session | * Huawei | * 29.122 | * 0283 | * 1 | * Rel-16 | * A | * NAPS-CT | * agreed |
| * C3-204247 | * Usage of PUT and PATCH | * Huawei | * 29.122 | * 0284 | * - | * Rel-16 | * F | * RACS | * agreed |
| * C3-204269 | * Corrections to mtcProviderId | * Ericsson | * 29.122 | * 0285 | * - | * Rel-15 | * F | * NAPS-CT | * agreed |
| * C3-204270 | * Corrections to mtcProviderId | * Ericsson | * 29.122 | * 0286 | * - | * Rel-16 | * A | * NAPS-CT | * agreed |
| * C3-204271 | * Updates NpConfiguration with mtcProviderId | * Ericsson | * 29.122 | * 0287 | * - | * Rel-16 | * F | * 5G\_CIoT | * revised |
| * C3-204407 | * Updates NpConfiguration with mtcProviderId | * Ericsson | * 29.122 | * 0287 | * 1 | * Rel-16 | * F | * 5G\_CIoT | * agreed |
| * C3-204380 | * 29.122 Rel-15 Update of OpenAPI version and TS version in externalDocs field | * Huawei | * 29.122 | * 0288 | * - | * Rel-15 | * F | * NAPS-CT | * agreed |
| * C3-204382 | * 29.122 Rel-16 Update of OpenAPI version and TS version in externalDocs field | * Huawei | * 29.122 | * 0289 | * - | * Rel-16 | * F | * TEI16 | * agreed |
| * C3-204047 | * Addition of missing capability. | * NTT corporation | * 29.165 | * 1009 | * - | * Rel-14 | * F | * TEI14, EIEI-CT, PS\_DATA\_OFF-CT | * revised |
| * C3-204373 | * Addition of missing capability. | * NTT corporation | * 29.165 | * 1009 | * 1 | * Rel-14 | * F | * TEI14, EIEI-CT, PS\_DATA\_OFF-CT | * agreed |
| * C3-204054 | * Addition of missing capability. | * NTT corporation | * 29.165 | * 1010 | * - | * Rel-15 | * A | * TEI14, EIEI-CT, PS\_DATA\_OFF-CT | * revised |
| * C3-204374 | * Addition of missing capability. | * NTT corporation | * 29.165 | * 1010 | * 1 | * Rel-15 | * A | * TEI14, EIEI-CT, PS\_DATA\_OFF-CT | * agreed |
| * C3-204057 | * Addition of missing capability. | * NTT corporation | * 29.165 | * 1011 | * - | * Rel-16 | * A | * TEI14, EIEI-CT, PS\_DATA\_OFF-CT | * revised |
| * C3-204375 | * Addition of missing capability. | * NTT corporation | * 29.165 | * 1011 | * 1 | * Rel-16 | * A | * TEI14, EIEI-CT, PS\_DATA\_OFF-CT | * agreed |
| * C3-204169 | * Support of P-Charging-Vector header field in BYE and PRACK | * Ericsson | * 29.165 | * 1012 | * - | * Rel-13 | * F | * TEI13, NNI\_DV | * agreed |
| * C3-204170 | * Support of P-Charging-Vector header field in BYE and PRACK | * Ericsson | * 29.165 | * 1013 | * - | * Rel-14 | * A | * TEI13, NNI\_DV | * agreed |
| * C3-204171 | * Support of P-Charging-Vector header field in BYE and PRACK | * Ericsson | * 29.165 | * 1014 | * - | * Rel-15 | * A | * TEI13, NNI\_DV | * agreed |
| * C3-204172 | * Support of P-Charging-Vector header field in BYE and PRACK | * Ericsson | * 29.165 | * 1015 | * - | * Rel-16 | * A | * TEI13, NNI\_DV | * agreed |
| * C3-204231 | * Correction on RAT-Type AVP | * Ericsson España S.A. | * 29.212 | * 1699 | * - | * Rel-16 | * F | * 5WWC | * revised |
| * C3-204335 | * Correction on RAT-Type AVP | * Ericsson España S.A. | * 29.212 | * 1699 | * 1 | * Rel-16 | * F | * 5WWC | * agreed |
| * C3-204229 | * Correction to RAN-NAS Release Cause feature | * Ericsson España S.A. | * 29.214 | * 1647 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * revised |
| * C3-204411 | * Correction to RAN-NAS Release Cause feature | * Ericsson España S.A. | * 29.214 | * 1647 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-204230 | * Correction to RAN-NAS Release Cause feature | * Ericsson España S.A. | * 29.214 | * 1648 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * revised |
| * C3-204412 | * Correction to RAN-NAS Release Cause feature | * Ericsson España S.A. | * 29.214 | * 1648 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-204232 | * Correction to E.2 | * Ericsson España S.A. | * 29.214 | * 1649 | * - | * Rel-16 | * F | * 5WWC | * revised |
| * C3-204336 | * Correction to E.2 | * Ericsson España S.A. | * 29.214 | * 1649 | * 1 | * Rel-16 | * F | * 5WWC | * agreed |
| * C3-204233 | * Support of 5GS non-3GPP Trusted Access | * Ericsson España S.A. | * 29.214 | * 1650 | * - | * Rel-16 | * F | * 5WWC | * revised |
| * C3-204337 | * Support of 5GS non-3GPP Trusted Access | * Ericsson España S.A. | * 29.214 | * 1650 | * 1 | * Rel-16 | * F | * 5WWC | * agreed |
| * C3-204234 | * Support of 5GS Wireline Access | * Ericsson España S.A. | * 29.214 | * 1651 | * - | * Rel-16 | * F | * 5WWC | * revised |
| * C3-204338 | * Support of 5GS Wireline Access | * Ericsson España S.A. | * 29.214 | * 1651 | * 1 | * Rel-16 | * F | * 5WWC | * agreed |
| * C3-204046 | * Missing and inconsistent “apiVersion” notations and Location header | * Samsung Electronics Iberia SA | * 29.222 | * 0151 | * - | * Rel-16 | * F | * eCAPIF | * revised |
| * C3-204326 | * Missing and inconsistent “apiVersion” notations and Location header | * Samsung Electronics Iberia SA | * 29.222 | * 0151 | * 1 | * Rel-16 | * F | * eCAPIF | * agreed |
| * C3-204048 | * CAPIF Routing Info API corrections | * Samsung Electronics Iberia SA | * 29.222 | * 0152 | * - | * Rel-16 | * F | * eCAPIF | * revised |
| * C3-204327 | * CAPIF Routing Info API corrections | * Samsung Electronics Iberia SA | * 29.222 | * 0152 | * 1 | * Rel-16 | * F | * eCAPIF | * agreed |
| * C3-204049 | * CAPIF topology hiding correction | * Samsung Electronics Iberia SA | * 29.222 | * 0153 | * - | * Rel-16 | * F | * eCAPIF | * agreed |
| * C3-204178 | * Correct CAPIF security API | * Ericsson | * 29.222 | * 0154 | * - | * Rel-15 | * F | * CAPIF-CT | * revised |
| * C3-204352 | * Correct CAPIF security API | * Ericsson | * 29.222 | * 0154 | * 1 | * Rel-15 | * F | * CAPIF-CT | * agreed |
| * C3-204179 | * Correct CAPIF security API | * Ericsson | * 29.222 | * 0155 | * - | * Rel-16 | * A | * CAPIF-CT | * revised |
| * C3-204353 | * Correct CAPIF security API | * Ericsson | * 29.222 | * 0155 | * 1 | * Rel-16 | * A | * CAPIF-CT | * agreed |
| * C3-204187 | * Support CAPIF custom header | * Ericsson | * 29.222 | * 0156 | * - | * Rel-15 | * F | * CAPIF-CT | * revised |
| * C3-204354 | * Correct api invoker certificate in onboarding | * Ericsson | * 29.222 | * 0156 | * 1 | * Rel-15 | * F | * CAPIF-CT | * agreed |
| * C3-204188 | * Support CAPIF custom header | * Ericsson | * 29.222 | * 0157 | * - | * Rel-16 | * A | * CAPIF-CT | * revised |
| * C3-204355 | * Correct api invoker certificate in onboarding | * Ericsson | * 29.222 | * 0157 | * 1 | * Rel-16 | * A | * CAPIF-CT | * agreed |
| * C3-204397 | * 29.222 Rel-16 Update of OpenAPI version and TS version in externalDocs field | * Samsung | * 29.222 | * 0158 | * - | * Rel-16 | * F | * TEI16 | * agreed |
| * C3-204414 | * 29.222 Update of OpenAPI version and TS version in externalDocs field | * Samsung | * 29.222 | * 0159 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-204066 | * correction to ACCESS\_TYPE\_CH trigger | * ZTE | * 29.507 | * 0129 | * - | * Rel-16 | * F | * 5WWC | * revised |
| * C3-204343 | * correction to ACCESS\_TYPE\_CH trigger | * ZTE | * 29.507 | * 0129 | * 1 | * Rel-16 | * F | * 5WWC | * agreed |
| * C3-204078 | * report initial presence status for PRA | * ZTE | * 29.507 | * 0130 | * - | * Rel-17 | * F | * TEI17, en5GPccSer | * revised |
| * C3-204296 | * report initial presence status for PRA | * ZTE | * 29.507 | * 0130 | * 1 | * Rel-17 | * F | * TEI17, en5GPccSer | * agreed |
| * C3-204107 | * 204 status code | * Huawei | * 29.507 | * 0131 | * - | * Rel-17 | * B | * SBIProtoc17 | * revised |
| * C3-204377 | * Successful Response | * Huawei | * 29.507 | * 0131 | * 1 | * Rel-17 | * B | * SBIProtoc17 | * agreed |
| * C3-204109 | * Error status code | * Huawei | * 29.507 | * 0132 | * - | * Rel-17 | * B | * SBIProtoc17 | * agreed |
| * C3-204113 | * Support of stateless NFs | * Huawei | * 29.507 | * 0133 | * - | * Rel-17 | * B | * TEI17, 5G\_eSBA | * revised |
| * C3-204415 | * Support of stateless NFs | * Huawei | * 29.507 | * 0133 | * 1 | * Rel-17 | * B | * TEI17, 5G\_eSBA | * not pursued |
| * C3-204389 | * 29.507 Rel-17 Update of OpenAPI version and TS version in externalDocs field | * Nokia, Nokia Shanghai Bel | * 29.507 | * 0134 | * - | * Rel-17 | * F | * TEI17 | * agreed |
| * C3-204435 | * 29.507 Rel-16 Update of OpenAPI version and TS version in externalDocs field | * Nokia, Nokia Shanghai Bell | * 29.507 | * 0135 | * - | * Rel-16 | * F | * TEI16 | * agreed |
| * C3-204077 | * notifId used for QoS monitoring report | * ZTE | * 29.508 | * 0096 | * - | * Rel-16 | * F | * 5G\_URLLC | * revised |
| * C3-204408 | * notifId used for QoS monitoring report | * ZTE | * 29.508 | * 0096 | * 1 | * Rel-16 | * F | * 5G\_URLLC | * agreed |
| * C3-204103 | * Correction to detection of downlink data delivery status change | * Huawei | * 29.508 | * 0097 | * - | * Rel-16 | * F | * 5G\_CIoT | * agreed |
| * C3-204111 | * Successful status code | * Huawei | * 29.508 | * 0098 | * - | * Rel-17 | * B | * SBIProtoc17 | * agreed |
| * C3-204114 | * Support of stateless NFs | * Huawei | * 29.508 | * 0099 | * - | * Rel-17 | * B | * TEI17, 5G\_eSBA | * revised |
| * C3-204416 | * Support of stateless NFs | * Huawei | * 29.508 | * 0099 | * 1 | * Rel-17 | * B | * TEI17, 5G\_eSBA | * not pursued |
| * C3-204194 | * Remove UP path change for I-SMF | * Ericsson | * 29.508 | * 0100 | * - | * Rel-16 | * F | * ETSUN | * agreed |
| * C3-204249 | * Subscribed delivery status | * Huawei | * 29.508 | * 0101 | * - | * Rel-16 | * F | * en5GPccSer | * revised |
| * C3-204323 | * Subscribed delivery status | * Huawei | * 29.508 | * 0101 | * 1 | * Rel-16 | * F | * en5GPccSer | * agreed |
| * C3-204026 | * Clarification regarding Bridge ID | * Intel /Thomas | * 29.512 | * 0526 | * - | * Rel-16 | * F | * Vertical\_LAN | * postponed |
| * C3-204033 | * Correction of the alternative QoS profile | * Nokia, Nokia Shanghai Bell | * 29.512 | * 0527 | * - | * Rel-16 | * F | * ETSUN, 5G\_URLLC, eV2XARC | * revised |
| * C3-204308 | * Correction of the alternative QoS profile | * Nokia, Nokia Shanghai Bell, Huawei | * 29.512 | * 0527 | * 1 | * Rel-16 | * F | * ETSUN, 5G\_URLLC, eV2XARC | * agreed |
| * C3-204062 | * relIpv4Address attribute correction | * ZTE | * 29.512 | * 0528 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-204063 | * relIpv4Address attribute correction | * ZTE | * 29.512 | * 0529 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-204082 | * Correction to QosData | * Huawei | * 29.512 | * 0530 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * revised |
| * C3-204358 | * Correction to QosData | * Huawei | * 29.512 | * 0530 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-204083 | * Correction to QosData | * Huawei | * 29.512 | * 0531 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * revised |
| * C3-204359 | * Correction to QosData | * Huawei | * 29.512 | * 0531 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-204084 | * Correction to QoS Flow usage negotiation | * Huawei | * 29.512 | * 0532 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * revised |
| * C3-204360 | * Correction to QoS Flow usage negotiation | * Huawei | * 29.512 | * 0532 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-CT | * revised |
| * C3-204402 | * Correction to QoS Flow usage negotiation | * Huawei | * 29.512 | * 0532 | * 2 | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-204085 | * Correction to QoS Flow usage negotiation | * Huawei | * 29.512 | * 0533 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * revised |
| * C3-204361 | * Correction to QoS Flow usage negotiation | * Huawei | * 29.512 | * 0533 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-CT | * revised |
| * C3-204403 | * Correction to QoS Flow usage negotiation | * Huawei | * 29.512 | * 0533 | * 2 | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-204086 | * Correction to RedirectInformation | * Huawei | * 29.512 | * 0534 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * revised |
| * C3-204362 | * Correction to RedirectInformation | * Huawei | * 29.512 | * 0534 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-204087 | * Correction to RedirectInformation | * Huawei | * 29.512 | * 0535 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * revised |
| * C3-204363 | * Correction to RedirectInformation | * Huawei | * 29.512 | * 0535 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-204088 | * PRA Id transcoding | * Huawei | * 29.512 | * 0536 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * postponed |
| * C3-204089 | * PRA Id transcoding | * Huawei | * 29.512 | * 0537 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * postponed |
| * C3-204100 | * Correction to policy update when UE suspends | * Huawei | * 29.512 | * 0538 | * - | * Rel-16 | * F | * en5GPccSer | * revised |
| * C3-204310 | * Correction to policy update when UE suspends | * Huawei | * 29.512 | * 0538 | * 1 | * Rel-16 | * F | * en5GPccSer | * agreed |
| * C3-204104 | * Correction to policy control request triggers for wireline access | * Huawei | * 29.512 | * 0539 | * - | * Rel-16 | * F | * 5WWC | * agreed |
| * C3-204105 | * Correction to alternative QoS | * Huawei | * 29.512 | * 0540 | * - | * Rel-16 | * F | * eV2XARC | * merged |
| * C3-204115 | * Support of stateless NFs | * Huawei | * 29.512 | * 0541 | * - | * Rel-17 | * B | * TEI17, 5G\_eSBA | * revised |
| * C3-204417 | * Support of stateless NFs | * Huawei | * 29.512 | * 0541 | * 1 | * Rel-17 | * B | * TEI17, 5G\_eSBA | * not pursued |
| * C3-204129 | * Clarification of default QoS | * Huawei | * 29.512 | * 0542 | * - | * Rel-17 | * B | * TEI17, 5GS\_Ph1-CT | * revised |
| * C3-204298 | * Clarification of default QoS | * Huawei | * 29.512 | * 0542 | * 1 | * Rel-17 | * B | * TEI17, 5GS\_Ph1-CT | * agreed |
| * C3-204130 | * Clarification of IP index provisioning | * Huawei | * 29.512 | * 0543 | * - | * Rel-17 | * B | * TEI17, 5GS\_Ph1-CT | * agreed |
| * C3-204131 | * Clarification of usage monitoring control | * Huawei | * 29.512 | * 0544 | * - | * Rel-17 | * F | * TEI17, 5GS\_Ph1-CT | * revised |
| * C3-204299 | * Clarification of usage monitoring control | * Huawei | * 29.512 | * 0544 | * 1 | * Rel-17 | * F | * TEI17, 5GS\_Ph1-CT | * agreed |
| * C3-204132 | * Correction to indication of UE IP address preservation | * Huawei | * 29.512 | * 0545 | * - | * Rel-17 | * F | * TEI17, 5GS\_Ph1-CT | * revised |
| * C3-204300 | * Correction to indication of UE IP address preservation | * Huawei | * 29.512 | * 0545 | * 1 | * Rel-17 | * F | * TEI17, 5GS\_Ph1-CT | * agreed |
| * C3-204133 | * Correction to policy control functions for TSN | * Huawei | * 29.512 | * 0546 | * - | * Rel-17 | * F | * TEI17, 5GS\_Ph1-CT | * revised |
| * C3-204301 | * Correction to policy control functions for TSN | * Huawei | * 29.512 | * 0546 | * 1 | * Rel-17 | * F | * TEI17, 5GS\_Ph1-CT | * agreed |
| * C3-204135 | * Correction to the policy decision | * Huawei | * 29.512 | * 0547 | * - | * Rel-17 | * F | * TEI17 | * agreed |
| * C3-204136 | * Correction to the session-AMBR provisioning | * Huawei | * 29.512 | * 0548 | * - | * Rel-17 | * F | * TEI17, 5GS\_Ph1-CT | * agreed |
| * C3-204139 | * Traffic steering control for 5G-LAN type of services | * Huawei | * 29.512 | * 0549 | * - | * Rel-17 | * B | * TEI17, Vertical\_LAN | * revised |
| * C3-204304 | * Traffic steering control for 5G-LAN type of services | * Huawei | * 29.512 | * 0549 | * 1 | * Rel-17 | * B | * TEI17, Vertical\_LAN | * agreed |
| * C3-204140 | * Update the definitions in 3.1 | * Huawei | * 29.512 | * 0550 | * - | * Rel-17 | * B | * TEI17, 5GS\_Ph1-CT | * revised |
| * C3-204305 | * Update the definitions in 3.1 | * Huawei | * 29.512 | * 0550 | * 1 | * Rel-17 | * B | * TEI17, 5GS\_Ph1-CT | * agreed |
| * C3-204141 | * Multiple traffic descriptors | * Huawei | * 29.512 | * 0551 | * - | * Rel-17 | * B | * TEI17, 5G\_CIoT | * not pursued |
| * C3-204158 | * MAC addresses and PDU session association | * Huawei | * 29.512 | * 0552 | * - | * Rel-16 | * F | * en5GPccSer | * postponed |
| * C3-204173 | * Corrections related to framed routes | * Ericsson | * 29.512 | * 0553 | * - | * Rel-16 | * F | * 5WWC | * agreed |
| * C3-204174 | * Correcting feature numbers | * Ericsson | * 29.512 | * 0554 | * - | * Rel-16 | * F | * TEI16 | * agreed |
| * C3-204214 | * Correction to ADC | * Ericsson España S.A. | * 29.512 | * 0555 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * revised |
| * C3-204364 | * Correction to ADC | * Ericsson España S.A. | * 29.512 | * 0555 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-204215 | * Correction to policy update when UE suspends | * Huawei Technologies R&D UK | * 29.512 | * 0556 | * - | * Rel-16 | * F | * en5GPccSer | * withdrawn |
| * C3-204216 | * Correction to ADC | * Ericsson España S.A. | * 29.512 | * 0557 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * revised |
| * C3-204365 | * Correction to ADC | * Ericsson España S.A. | * 29.512 | * 0557 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-204217 | * Correction to ChfAddress | * Ericsson España S.A. | * 29.512 | * 0558 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-204224 | * Correction to ChfAddress | * Ericsson España S.A. | * 29.512 | * 0559 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-204225 | * Correction to RAN-NAS Release Cause feature | * Ericsson España S.A. | * 29.512 | * 0560 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * revised |
| * C3-204366 | * Correction to RAN-NAS Release Cause feature | * Ericsson España S.A. | * 29.512 | * 0560 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-204226 | * Correction to RAN-NAS Release Cause feature | * Ericsson España S.A. | * 29.512 | * 0561 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-204227 | * Correction for emergency sessions | * Ericsson España S.A. | * 29.512 | * 0562 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * revised |
| * C3-204409 | * Correction for emergency sessions | * Ericsson España S.A. | * 29.512 | * 0562 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-204228 | * Correction for emergency sessions | * Ericsson España S.A. | * 29.512 | * 0563 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * revised |
| * C3-204410 | * Correction for emergency sessions | * Ericsson España S.A. | * 29.512 | * 0563 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-204236 | * Clarification of trace control | * Huawei Technologies R&D UK | * 29.512 | * 0564 | * - | * Rel-17 | * F | * TEI17 | * agreed |
| * C3-204237 | * Support of 5GS and EPC interworking for non-3GPP Trusted Access | * Ericsson España S.A. | * 29.512 | * 0565 | * - | * Rel-16 | * F | * 5WWC | * revised |
| * C3-204339 | * Support of 5GS and EPC interworking for non-3GPP Trusted Access | * Ericsson España S.A. | * 29.512 | * 0565 | * 1 | * Rel-16 | * F | * 5WWC | * agreed |
| * C3-204306 | * Multiple traffic descriptors | * Huawei | * 29.512 | * 0566 | * - | * Rel-16 | * F | * 5G\_CIoT | * agreed |
| * C3-204393 | * 29.512 Rel-16 Update of OpenAPI version and TS version in externalDocs field | * Huawei | * 29.512 | * 0567 | * - | * Rel-16 | * F | * TEI16 | * revised |
| * C3-204441 | * 29.512 Rel-16 Update of OpenAPI version and TS version in externalDocs field | * Huawei | * 29.512 | * 0567 | * 1 | * Rel-16 | * F | * TEI16 | * agreed |
| * C3-204413 | * 29.512 Rel-15 Update of OpenAPI version and TS version in externalDocs field | * Huawei | * 29.512 | * 0568 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-204064 | * Application data change triggers PCF-initiated SM Policy Association Modification | * ZTE | * 29.513 | * 0180 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-204065 | * Application data change triggers PCF-initiated SM Policy Association Modification | * ZTE | * 29.513 | * 0181 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-204067 | * Procedure for IPTV configuration | * ZTE | * 29.513 | * 0182 | * - | * Rel-16 | * F | * 5WWC | * revised |
| * C3-204334 | * Procedure for IPTV configuration | * ZTE | * 29.513 | * 0182 | * 1 | * Rel-16 | * F | * 5WWC | * agreed |
| * C3-204071 | * Procedure of AF-based service parameter provisioning for V2X | * ZTE | * 29.513 | * 0183 | * - | * Rel-16 | * F | * eV2XARC | * revised |
| * C3-204325 | * Procedure of AF-based service parameter provisioning for V2X | * ZTE | * 29.513 | * 0183 | * 1 | * Rel-16 | * F | * eV2XARC | * agreed |
| * C3-204073 | * GPSI used for PCF selection | * ZTE | * 29.513 | * 0184 | * - | * Rel-16 | * F | * en5GPccSer | * revised |
| * C3-204309 | * GPSI used for PCF selection | * ZTE, China Mobile | * 29.513 | * 0184 | * 1 | * Rel-16 | * F | * en5GPccSer | * agreed |
| * C3-204102 | * Correction to QoS flow binding | * Huawei | * 29.513 | * 0185 | * - | * Rel-16 | * F | * Vertical\_LAN | * agreed |
| * C3-204137 | * Correction to the SM policy association procedure | * Huawei | * 29.513 | * 0186 | * - | * Rel-17 | * F | * TEI17, 5GS\_Ph1-CT | * revised |
| * C3-204302 | * Correction to the SM policy association procedure | * Huawei | * 29.513 | * 0186 | * 1 | * Rel-17 | * F | * TEI17, 5GS\_Ph1-CT | * agreed |
| * C3-204138 | * Update the call flows to support TSN | * Huawei | * 29.513 | * 0187 | * - | * Rel-17 | * F | * TEI17, Vertical\_LAN | * not pursued |
| * C3-204201 | * Corrections on AF-initiated PFD management procedure | * Huawei | * 29.513 | * 0188 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * revised |
| * C3-204346 | * Corrections on AF-initiated PFD management procedure | * Huawei | * 29.513 | * 0188 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-204202 | * Corrections on AF-initiated PFD management procedure | * Huawei | * 29.513 | * 0189 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * revised |
| * C3-204347 | * Corrections on AF-initiated PFD management procedure | * Huawei | * 29.513 | * 0189 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-204242 | * Correction to PCF discovery and selection | * Ericsson España S.A. | * 29.513 | * 0190 | * - | * Rel-16 | * F | * 5G\_eSBA | * revised |
| * C3-204341 | * Correction to PCF discovery and selection | * Ericsson España S.A. | * 29.513 | * 0190 | * 1 | * Rel-16 | * F | * 5G\_eSBA | * agreed |
| * C3-204264 | * Correction to selection of the same PCF | * Ericsson España S.A. | * 29.513 | * 0191 | * - | * Rel-16 | * F | * 5G\_eSBA | * revised |
| * C3-204342 | * Correction to selection of the same PCF | * Ericsson España S.A. | * 29.513 | * 0191 | * 1 | * Rel-16 | * F | * 5G\_eSBA | * agreed |
| * C3-204303 | * Update the call flows to support TSN | * Huawei | * 29.513 | * 0192 | * - | * Rel-16 | * F | * Vertical\_LAN | * agreed |
| * C3-204101 | * Remove the editor’s note | * Huawei | * 29.514 | * 0254 | * - | * Rel-16 | * F | * ATSSS | * merged |
| * C3-204116 | * Support of stateless NFs | * Huawei | * 29.514 | * 0255 | * - | * Rel-17 | * B | * TEI17, 5G\_eSBA | * revised |
| * C3-204418 | * Support of stateless NFs | * Huawei | * 29.514 | * 0255 | * 1 | * Rel-17 | * B | * TEI17, 5G\_eSBA | * not pursued |
| * C3-204165 | * Data type correction of the reqAni | * Nokia, Nokia Shanghai Bell | * 29.514 | * 0256 | * - | * Rel-16 | * F | * eIMS5G\_SBA | * revised |
| * C3-204312 | * Data type correction of the reqAni | * Nokia, Nokia Shanghai Bell | * 29.514 | * 0256 | * 1 | * Rel-16 | * F | * eIMS5G\_SBA | * agreed |
| * C3-204238 | * Removal on Editor’s notes on traffic forwarding for a MA PDU session | * Ericsson España S.A. | * 29.514 | * 0257 | * - | * Rel-16 | * F | * ATSSS | * revised |
| * C3-204344 | * Removal on Editor’s notes on traffic forwarding for a MA PDU session | * Ericsson España S.A., Huawei | * 29.514 | * 0257 | * 1 | * Rel-16 | * F | * ATSSS | * agreed |
| * C3-204239 | * Correction to Trusted Non-3GPP location information | * Ericsson España S.A. | * 29.514 | * 0258 | * - | * Rel-16 | * F | * eIMS5G\_SBA | * agreed |
| * C3-204240 | * Correction of handling of non-3GPP location information by the P-CSCF | * Ericsson España S.A. | * 29.514 | * 0259 | * - | * Rel-16 | * F | * eIMS5G\_SBA | * revised |
| * C3-204313 | * Correction of handling of non-3GPP location information by the P-CSCF | * Ericsson España S.A. | * 29.514 | * 0259 | * 1 | * Rel-16 | * F | * eIMS5G\_SBA | * agreed |
| * C3-204241 | * Handling of MPS Session by the P-CSCF | * Ericsson España S.A. | * 29.514 | * 0260 | * - | * Rel-16 | * F | * eIMS5G\_SBA | * revised |
| * C3-204314 | * Handling of MPS Session by the P-CSCF | * Ericsson España S.A. | * 29.514 | * 0260 | * 1 | * Rel-16 | * F | * eIMS5G\_SBA | * agreed |
| * C3-204394 | * 29.514 Rel-16 Update of OpenAPI version and TS version in externalDocs field | * Ericsson | * 29.514 | * 0261 | * - | * Rel-16 | * F | * TEI16 | * agreed |
| * C3-204081 | * Correct the description of anyUeInd | * ZTE | * 29.517 | * 0016 | * - | * Rel-17 | * F | * TEI17, eNA | * not pursued |
| * C3-204207 | * Missed data type definition | * Huawei | * 29.517 | * 0017 | * - | * Rel-16 | * F | * eNA | * revised |
| * C3-204332 | * Missed data type definition | * Huawei | * 29.517 | * 0017 | * 1 | * Rel-16 | * F | * eNA | * agreed |
| * C3-204220 | * Corrections on UE Mobility | * Huawei | * 29.517 | * 0018 | * - | * Rel-16 | * F | * eNA | * agreed |
| * C3-204253 | * Missed response code | * Huawei | * 29.517 | * 0019 | * - | * Rel-16 | * F | * eNA | * agreed |
| * C3-204266 | * Any UE indication applies to EXCEPTIONS | * Huawei | * 29.517 | * 0020 | * - | * Rel-16 | * F | * eNA | * revised |
| * C3-204293 | * Any UE indication applies to EXCEPTIONS | * Huawei, ZTE | * 29.517 | * 0020 | * 1 | * Rel-16 | * F | * eNA | * agreed |
| * C3-204068 | * Include resouceURI in IptvConfigData for change notification association | * ZTE | * 29.519 | * 0207 | * - | * Rel-16 | * F | * 5WWC | * agreed |
| * C3-204072 | * Include resouceURI in ServiceParameterData for change notification association | * ZTE | * 29.519 | * 0208 | * - | * Rel-16 | * F | * eV2XARC | * agreed |
| * C3-204074 | * Include resouceURI in TrafficInfluData for change notification association | * ZTE | * 29.519 | * 0209 | * - | * Rel-16 | * F | * en5GPccSer | * agreed |
| * C3-204075 | * Include resouceURI in BdtPolicyData for change notification association | * ZTE | * 29.519 | * 0210 | * - | * Rel-16 | * F | * xBDT | * agreed |
| * C3-204175 | * Removal of sibling elements | * Ericsson | * 29.519 | * 0211 | * - | * Rel-17 | * F | * SBIProtoc17 | * agreed |
| * C3-204235 | * Resource Level Authorization for Policy Data, Application Data, and Exposure Data | * Nokia Germany | * 29.519 | * 0212 | * - | * Rel-17 | * B | * SBIProtoc17 | * agreed |
| * C3-204384 | * 29.519 Rel-16 Update of TS version in externalDocs field | * Huawei | * 29.519 | * 0213 | * - | * Rel-16 | * F | * TEI16 | * revised |
| * C3-204438 | * 29.519 Rel-16 Update of TS version in externalDocs field | * Huawei | * 29.519 | * 0213 | * 1 | * Rel-16 | * F | * TEI16 | * agreed |
| * C3-204392 | * 29.519 Rel-17 Update of externalDocs field | * Huawei | * 29.519 | * 0214 | * - | * Rel-17 | * F | * TEI17 | * agreed |
| * C3-204080 | * Some corrections on 29.520 | * ZTE | * 29.520 | * 0194 | * - | * Rel-17 | * F | * TEI17, eNA | * not pursued |
| * C3-204117 | * Support of stateless NFs | * Huawei | * 29.520 | * 0195 | * - | * Rel-17 | * B | * TEI17, 5G\_eSBA | * revised |
| * C3-204419 | * Support of stateless NFs | * Huawei | * 29.520 | * 0195 | * 1 | * Rel-17 | * B | * TEI17, 5G\_eSBA | * not pursued |
| * C3-204159 | * Description for NWDAF services | * Huawei | * 29.520 | * 0196 | * - | * Rel-16 | * F | * eNA | * revised |
| * C3-204317 | * Description for NWDAF services | * Huawei | * 29.520 | * 0196 | * 1 | * Rel-16 | * F | * eNA | * agreed |
| * C3-204160 | * Zero confidence | * Huawei | * 29.520 | * 0197 | * - | * Rel-16 | * F | * eNA | * revised |
| * C3-204318 | * Zero confidence | * Huawei | * 29.520 | * 0197 | * 1 | * Rel-16 | * F | * eNA | * agreed |
| * C3-204176 | * Reference to enumeration Accuracy | * Ericsson | * 29.520 | * 0198 | * - | * Rel-17 | * F | * SBIProtoc17 | * agreed |
| * C3-204192 | * Correct QoS sustainability requirement | * Ericsson | * 29.520 | * 0199 | * - | * Rel-16 | * F | * eNA | * agreed |
| * C3-204208 | * Validity period for analytics information | * Huawei | * 29.520 | * 0200 | * - | * Rel-16 | * F | * eNA | * agreed |
| * C3-204210 | * Timestamp of analytics generation | * Huawei | * 29.520 | * 0201 | * - | * Rel-16 | * F | * eNA | * revised |
| * C3-204319 | * Timestamp of analytics generation | * Huawei | * 29.520 | * 0201 | * 1 | * Rel-16 | * F | * eNA | * agreed |
| * C3-204211 | * Notification about subscribed event | * Huawei | * 29.520 | * 0202 | * - | * Rel-16 | * F | * eNA | * agreed |
| * C3-204219 | * Corrections on UE Mobility | * Huawei | * 29.520 | * 0203 | * - | * Rel-16 | * F | * eNA | * postponed |
| * C3-204221 | * Omitted event reporting information | * Huawei | * 29.520 | * 0204 | * - | * Rel-16 | * F | * eNA | * revised |
| * C3-204320 | * Omitted event reporting information | * Huawei | * 29.520 | * 0204 | * 1 | * Rel-16 | * F | * eNA | * agreed |
| * C3-204250 | * Optional network slice identification | * Huawei | * 29.520 | * 0205 | * - | * Rel-16 | * F | * eNA | * agreed |
| * C3-204251 | * Slice load level information | * Huawei | * 29.520 | * 0206 | * - | * Rel-16 | * F | * eNA | * agreed |
| * C3-204252 | * Matching direction | * Huawei | * 29.520 | * 0207 | * - | * Rel-16 | * F | * eNA | * revised |
| * C3-204321 | * Matching direction | * Huawei | * 29.520 | * 0207 | * 1 | * Rel-16 | * F | * eNA | * agreed |
| * C3-204255 | * Time when analytics information is needed | * Huawei | * 29.520 | * 0208 | * - | * Rel-16 | * F | * eNA | * agreed |
| * C3-204256 | * Confidence for UE mobility | * Huawei | * 29.520 | * 0209 | * - | * Rel-16 | * F | * eNA | * revised |
| * C3-204322 | * Confidence for UE mobility | * Huawei, Ericsson | * 29.520 | * 0209 | * 1 | * Rel-16 | * F | * eNA | * agreed |
| * C3-204258 | * Supported feature in Nnwdaf\_AnalyticsInfo API | * Huawei | * 29.520 | * 0210 | * - | * Rel-16 | * F | * eNA | * agreed |
| * C3-204259 | * Target UE identification | * Huawei | * 29.520 | * 0211 | * - | * Rel-16 | * F | * eNA | * agreed |
| * C3-204260 | * Correction on NetworkPerfType | * Huawei | * 29.520 | * 0212 | * - | * Rel-16 | * F | * eNA | * agreed |
| * C3-204261 | * Correction on Network Area | * Huawei | * 29.520 | * 0213 | * - | * Rel-16 | * F | * eNA | * merged |
| * C3-204265 | * Corrections on appIds and dnns | * Huawei | * 29.520 | * 0214 | * - | * Rel-16 | * F | * eNA | * agreed |
| * C3-204284 | * Corrections to networkArea with anyUE | * Ericsson | * 29.520 | * 0215 | * - | * Rel-16 | * F | * eNA | * revised |
| * C3-204315 | * Corrections to networkArea with anyUE | * Ericsson, Huawei | * 29.520 | * 0215 | * 1 | * Rel-16 | * F | * eNA | * agreed |
| * C3-204285 | * Corrections to abnormal behaviour for any UE | * Ericsson | * 29.520 | * 0216 | * - | * Rel-16 | * F | * eNA | * revised |
| * C3-204316 | * Corrections to abnormal behaviour for any UE | * Ericsson, Huawei | * 29.520 | * 0216 | * 1 | * Rel-16 | * F | * eNA | * agreed |
| * C3-204286 | * Corrections to Service Experience | * Ericsson | * 29.520 | * 0217 | * - | * Rel-16 | * F | * eNA | * postponed |
| * C3-204292 | * ResourceURI correction during subscription update | * ZTE | * 29.520 | * 0218 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-204291 | * ResourceURI correction during subscription update | * ZTE | * 29.520 | * 0219 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-204390 | * 29.520 Rel-17 Update of OpenAPI version and TS version in externalDocs field | * China Mobile | * 29.520 | * 0220 | * - | * Rel-17 | * F | * TEI17 | * revised |
| * C3-204439 | * 29.520 Rel-17 Update of OpenAPI version and TS version in externalDocs field | * China Mobile | * 29.520 | * 0220 | * 1 | * Rel-17 | * F | * TEI17 | * agreed |
| * C3-204395 | * 29.520 Rel-16 Update of OpenAPI version and TS version in externalDocs field | * China Mobile | * 29.520 | * 0221 | * - | * Rel-16 | * F | * TEI16 | * revised |
| * C3-204440 | * 29.520 Rel-16 Update of OpenAPI version and TS version in externalDocs field | * China Mobile | * 29.520 | * 0221 | * 1 | * Rel-16 | * F | * TEI16 | * agreed |
| * C3-204118 | * Support of stateless NFs | * Huawei | * 29.521 | * 0091 | * - | * Rel-17 | * B | * TEI17, 5G\_eSBA | * revised |
| * C3-204420 | * Support of stateless NFs | * Huawei | * 29.521 | * 0091 | * 1 | * Rel-17 | * B | * TEI17, 5G\_eSBA | * not pursued |
| * C3-204151 | * Data type correction | * Huawei | * 29.521 | * 0092 | * - | * Rel-16 | * F | * TEI16 | * agreed |
| * C3-204119 | * Support of stateless NFs | * Huawei | * 29.522 | * 0197 | * - | * Rel-17 | * B | * TEI17, 5G\_eSBA | * revised |
| * C3-204421 | * Support of stateless NFs | * Huawei | * 29.522 | * 0197 | * 1 | * Rel-17 | * B | * TEI17, 5G\_eSBA | * not pursued |
| * C3-204134 | * Internal group id | * Huawei | * 29.522 | * 0198 | * - | * Rel-17 | * B | * TEI17, 5GS\_Ph1-CT | * not pursued |
| * C3-204150 | * Remove 5G procedures from TS 29.122 | * Huawei | * 29.522 | * 0199 | * - | * Rel-16 | * F | * TEI16 | * agreed |
| * C3-204152 | * Corrections on NiddConfigurationTrigger API | * Huawei | * 29.522 | * 0200 | * - | * Rel-16 | * F | * 5G\_CIoT | * agreed |
| * C3-204153 | * Support PDU session status | * Huawei | * 29.522 | * 0201 | * - | * Rel-16 | * F | * 5G\_CIoT | * agreed |
| * C3-204155 | * Missed Location header table | * Huawei | * 29.522 | * 0202 | * - | * Rel-16 | * F | * 5WWC | * agreed |
| * C3-204161 | * Zero confidence | * Huawei | * 29.522 | * 0203 | * - | * Rel-16 | * F | * eNA | * agreed |
| * C3-204189 | * Support CAPIF custom header | * Ericsson | * 29.522 | * 0204 | * - | * Rel-15 | * F | * CAPIF-CT | * not pursued |
| * C3-204190 | * Support CAPIF custom header | * Ericsson | * 29.522 | * 0205 | * - | * Rel-16 | * A | * CAPIF-CT | * not pursued |
| * C3-204203 | * URI of ACSParameterProvision API | * Huawei | * 29.522 | * 0206 | * - | * Rel-16 | * F | * 5WWC | * agreed |
| * C3-204204 | * Subscription creation | * Huawei | * 29.522 | * 0207 | * - | * Rel-16 | * F | * eV2XARC | * agreed |
| * C3-204205 | * Resource correction | * Huawei | * 29.522 | * 0208 | * - | * Rel-16 | * F | * eV2XARC | * revised |
| * C3-204324 | * Resource correction | * Huawei | * 29.522 | * 0208 | * 1 | * Rel-16 | * F | * eV2XARC | * agreed |
| * C3-204209 | * Validity period for analytics information | * Huawei | * 29.522 | * 0209 | * - | * Rel-16 | * F | * eNA | * agreed |
| * C3-204218 | * 5G LAN Parameter Provisioning | * Huawei | * 29.522 | * 0210 | * - | * Rel-16 | * F | * Vertical\_LAN | * agreed |
| * C3-204222 | * Omitted event reporting information | * Huawei | * 29.522 | * 0211 | * - | * Rel-16 | * F | * eNA | * agreed |
| * C3-204245 | * Reading all subscriptions in ApplyingBdtPolicy API | * Huawei | * 29.522 | * 0212 | * - | * Rel-16 | * F | * xBDT | * revised |
| * C3-204404 | * Reading all subscriptions in ApplyingBdtPolicy API | * Huawei | * 29.522 | * 0212 | * 1 | * Rel-16 | * F | * xBDT | * agreed |
| * C3-204246 | * Resource URI corrections | * Huawei | * 29.522 | * 0213 | * - | * Rel-16 | * F | * xBDT | * revised |
| * C3-204379 | * Resource URI corrections | * Huawei | * 29.522 | * 0213 | * 1 | * Rel-16 | * F | * xBDT | * agreed |
| * C3-204257 | * Ratio and confidence for UE mobility | * Huawei | * 29.522 | * 0214 | * - | * Rel-16 | * F | * eNA | * revised |
| * C3-204333 | * Ratio and confidence for UE mobility | * Huawei, Ericsson | * 29.522 | * 0214 | * 1 | * Rel-16 | * F | * eNA | * agreed |
| * C3-204262 | * Extra reporting requirement | * Huawei | * 29.522 | * 0215 | * - | * Rel-16 | * F | * eNA | * agreed |
| * C3-204263 | * Reading all subscriptions in AnalyticsExposure API | * Huawei | * 29.522 | * 0216 | * - | * Rel-16 | * F | * eNA | * agreed |
| * C3-204268 | * Applicabilities of snssai, dnn and locArea | * Huawei | * 29.522 | * 0217 | * - | * Rel-16 | * F | * eNA | * agreed |
| * C3-204381 | * 29.522 Rel-16 Update of OpenAPI version and TS version in externalDocs field | * Huawei | * 29.522 | * 0218 | * - | * Rel-16 | * F | * TEI16 | * agreed |
| * C3-204112 | * Successful status code | * Huawei | * 29.523 | * 0028 | * - | * Rel-17 | * B | * SBIProtoc17 | * agreed |
| * C3-204121 | * Support of stateless NFs | * Huawei | * 29.523 | * 0029 | * - | * Rel-17 | * B | * TEI17, 5G\_eSBA | * revised |
| * C3-204423 | * Support of stateless NFs | * Huawei | * 29.523 | * 0029 | * 1 | * Rel-17 | * B | * TEI17, 5G\_eSBA | * not pursued |
| * C3-204199 | * Resource URI for individual subscription | * Huawei | * 29.523 | * 0030 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * revised |
| * C3-204371 | * Resource URI for individual subscription | * Huawei | * 29.523 | * 0030 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-204200 | * Resource URI for individual subscription | * Huawei | * 29.523 | * 0031 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * revised |
| * C3-204372 | * Resource URI for individual subscription | * Huawei | * 29.523 | * 0031 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-204069 | * Include N2 PC5 policy in update response | * ZTE | * 29.525 | * 0106 | * - | * Rel-16 | * F | * eV2XARC | * agreed |
| * C3-204070 | * Remove the dependency of subscription data in UDR for V2X | * ZTE | * 29.525 | * 0107 | * - | * Rel-16 | * F | * eV2XARC | * agreed |
| * C3-204079 | * report initial presence status for PRA | * ZTE | * 29.525 | * 0108 | * - | * Rel-17 | * F | * TEI17, en5GPccSer | * revised |
| * C3-204297 | * report initial presence status for PRA | * ZTE | * 29.525 | * 0108 | * 1 | * Rel-17 | * F | * TEI17, en5GPccSer | * agreed |
| * C3-204108 | * 204 status code | * Huawei | * 29.525 | * 0109 | * - | * Rel-17 | * B | * SBIProtoc17 | * revised |
| * C3-204378 | * Successful Response | * Huawei | * 29.525 | * 0109 | * 1 | * Rel-17 | * B | * SBIProtoc17 | * agreed |
| * C3-204110 | * Error status code | * Huawei | * 29.525 | * 0110 | * - | * Rel-17 | * B | * SBIProtoc17 | * agreed |
| * C3-204122 | * Support of stateless NFs | * Huawei | * 29.525 | * 0111 | * - | * Rel-17 | * B | * TEI17, 5G\_eSBA | * revised |
| * C3-204424 | * Support of stateless NFs | * Huawei | * 29.525 | * 0111 | * 1 | * Rel-17 | * B | * TEI17, 5G\_eSBA | * not pursued |
| * C3-204388 | * 29.525 Rel-17 Update of OpenAPI version and TS version in externalDocs field | * Nokia, Nokia Shanghai Bel | * 29.525 | * 0112 | * - | * Rel-17 | * F | * TEI17 | * agreed |
| * C3-204436 | * 29.525 Rel-16 Update of OpenAPI version and TS version in externalDocs field | * Nokia, Nokia Shanghai Bell | * 29.525 | * 0113 | * - | * Rel-16 | * F | * TEI16 | * agreed |
| * C3-204050 | * Correct apiVersion notation | * Samsung Electronics Iberia SA | * 29.549 | * 0001 | * - | * Rel-16 | * F | * SEAL | * agreed |
| * C3-204051 | * Corrections to API and Event names | * Samsung Electronics Iberia SA | * 29.549 | * 0002 | * - | * Rel-16 | * F | * SEAL | * revised |
| * C3-204328 | * Corrections to API and Event names | * Samsung Electronics Iberia SA | * 29.549 | * 0002 | * 1 | * Rel-16 | * F | * SEAL | * agreed |
| * C3-204052 | * Correct Identity filter in Events API | * Samsung Electronics Iberia SA | * 29.549 | * 0003 | * - | * Rel-16 | * F | * SEAL | * agreed |
| * C3-204053 | * SS\_KeyInfoRetrieval API correction | * Samsung Electronics Iberia SA | * 29.549 | * 0004 | * - | * Rel-16 | * F | * SEAL | * revised |
| * C3-204329 | * SS\_KeyInfoRetrieval API correction | * Samsung Electronics Iberia SA | * 29.549 | * 0004 | * 1 | * Rel-16 | * F | * SEAL | * agreed |
| * C3-204055 | * Key Management API description | * Samsung Electronics Iberia SA | * 29.549 | * 0005 | * - | * Rel-16 | * F | * SEAL | * agreed |
| * C3-204056 | * UnicastSubscription attribute presence correction | * Samsung Electronics Iberia SA | * 29.549 | * 0006 | * - | * Rel-16 | * F | * SEAL | * revised |
| * C3-204330 | * UnicastSubscription attribute presence correction | * Samsung Electronics Iberia SA | * 29.549 | * 0006 | * 1 | * Rel-16 | * F | * SEAL | * agreed |
| * C3-204058 | * SS\_LocationInfoRetrieval API service operation semantic | * Samsung Electronics Iberia SA | * 29.549 | * 0007 | * - | * Rel-16 | * F | * SEAL | * postponed |
| * C3-204191 | * Support CAPIF custom header | * Ericsson | * 29.549 | * 0008 | * - | * Rel-16 | * F | * TEI16, CAPIF-CT | * not pursued |
| * C3-204396 | * 29.549 Rel-16 Update of OpenAPI version and TS version in externalDocs field | * Samsung | * 29.549 | * 0009 | * - | * Rel-16 | * F | * TEI16 | * agreed |
| * C3-204090 | * Correction to the PFD change notification | * Huawei | * 29.551 | * 0034 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-204091 | * Correction to the PFD change notification | * Huawei | * 29.551 | * 0035 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-204106 | * Notification PUSH | * Huawei | * 29.551 | * 0036 | * - | * Rel-17 | * B | * pfdManEnh | * withdrawn |
| * C3-204123 | * Support of stateless NFs | * Huawei | * 29.551 | * 0037 | * - | * Rel-17 | * B | * TEI17, 5G\_eSBA | * revised |
| * C3-204425 | * Support of stateless NFs | * Huawei | * 29.551 | * 0037 | * 1 | * Rel-17 | * B | * TEI17, 5G\_eSBA | * not pursued |
| * C3-204142 | * Notification PUSH | * Huawei, China Telecom, China Mobile | * 29.551 | * 0038 | * - | * Rel-17 | * B | * pfdManEnh | * revised |
| * C3-204385 | * Notification PUSH | * Huawei, China Telecom, China Mobile, Ericsson | * 29.551 | * 0038 | * 1 | * Rel-17 | * B | * pfdManEnh | * agreed |
| * C3-204391 | * 29.551 Rel-17 Update of OpenAPI version and TS version in externalDocs field | * ZTE | * 29.551 | * 0039 | * - | * Rel-17 | * F | * TEI17 | * agreed |
| * C3-204124 | * Support of stateless NFs | * Huawei | * 29.554 | * 0052 | * - | * Rel-17 | * B | * TEI17, 5G\_eSBA | * revised |
| * C3-204426 | * Support of stateless NFs | * Huawei | * 29.554 | * 0052 | * 1 | * Rel-17 | * B | * TEI17, 5G\_eSBA | * not pursued |
| * C3-204044 | * Clarification on using PAP/CHAP for 5GS interoperability | * Qualcomm Incorporated, Vodafone | * 29.561 | * 0037 | * - | * Rel-16 | * F | * TEI16 | * postponed |
| * C3-204045 | * Clarification on using PAP/CHAP for 5GS interoperability | * Qualcomm Incorporated, Vodafone | * 29.561 | * 0038 | * - | * Rel-15 | * F | * TEI15 | * postponed |
| * C3-204092 | * Correction to 3GPP-UE-MAC-Address | * Huawei | * 29.561 | * 0039 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * revised |
| * C3-204348 | * Correction to 3GPP-UE-MAC-Address | * Huawei, Ericsson | * 29.561 | * 0039 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-204093 | * Correction to 3GPP-UE-MAC-Address | * Huawei | * 29.561 | * 0040 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * revised |
| * C3-204349 | * Correction to 3GPP-UE-MAC-Address | * Huawei, Ericsson | * 29.561 | * 0040 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-204094 | * Correction on the authentication and authorization procedure | * Huawei | * 29.561 | * 0041 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * revised |
| * C3-204398 | * Correction on the authentication and authorization procedure | * Huawei | * 29.561 | * 0041 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-204095 | * Correction on the authentication and authorization procedure | * Huawei | * 29.561 | * 0042 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * revised |
| * C3-204399 | * Correction on the authentication and authorization procedure | * Huawei | * 29.561 | * 0042 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-204096 | * Correction on the Acct-Session-Id | * Huawei | * 29.561 | * 0043 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * postponed |
| * C3-204097 | * Correction on the Acct-Session-Id | * Huawei | * 29.561 | * 0044 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * postponed |
| * C3-204098 | * Correction to the Sesson-AMBR | * Huawei | * 29.561 | * 0045 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-204099 | * Correction to the Sesson-AMBR | * Huawei | * 29.561 | * 0046 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-204128 | * Correction on the the authorization data | * Huawei | * 29.561 | * 0047 | * - | * Rel-17 | * B | * TEI17, 5GS\_Ph1-CT | * not pursued |
| * C3-204154 | * List of allowed VLAN Ids within DN authorization data | * Huawei | * 29.561 | * 0048 | * - | * Rel-16 | * F | * Vertical\_LAN | * revised |
| * C3-204430 | * List of allowed VLAN Ids within DN authorization data | * Huawei | * 29.561 | * 0048 | * 1 | * Rel-16 | * F | * Vertical\_LAN | * agreed |
| * C3-204193 | * Add missing applicable messages for IP pool info | * Ericsson | * 29.561 | * 0049 | * - | * Rel-16 | * F | * ETSUN | * agreed |
| * C3-204272 | * Updates to IPv6 Prefix Delegation | * Ericsson | * 29.561 | * 0050 | * - | * Rel-16 | * F | * SAES-St3-intwk, TEI16 | * revised |
| * C3-204287 | * Updates to IPv6 Prefix Delegation | * Ericsson | * 29.561 | * 0050 | * 1 | * Rel-16 | * F | * 5WWC | * postponed |
| * C3-204281 | * RAT Type extension for 5WWC | * Ericsson | * 29.561 | * 0051 | * - | * Rel-17 | * B | * 5WWC, TEI17 | * not pursued |
| * C3-204282 | * User Location extension for 5WWC | * Ericsson | * 29.561 | * 0052 | * - | * Rel-17 | * B | * 5WWC, TEI17 | * not pursued |
| * C3-204294 | * Correction on the the authorization data | * Huawei | * 29.561 | * 0053 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-204295 | * Correction on the the authorization data | * Huawei | * 29.561 | * 0054 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-204432 | * RAT Type extension for 5WWC | * Ericsson | * 29.561 | * 0055 | * - | * Rel-16 | * B | * 5WWC, Vertical\_LAN | * agreed |
| * C3-204433 | * User Location extension for 5WWC | * Ericsson | * 29.561 | * 0056 | * - | * Rel-16 | * B | * 5WWC | * agreed |
| * C3-204076 | * Defalt value for eventsRepInfo attribute | * ZTE | * 29.591 | * 0019 | * - | * Rel-16 | * F | * eNA | * revised |
| * C3-204331 | * Defalt value for eventsRepInfo attribute | * ZTE, Huawei | * 29.591 | * 0019 | * 1 | * Rel-16 | * F | * eNA | * agreed |
| * C3-204125 | * Support of stateless NFs | * Huawei | * 29.591 | * 0020 | * - | * Rel-17 | * B | * TEI17, 5G\_eSBA | * revised |
| * C3-204427 | * Support of stateless NFs | * Huawei | * 29.591 | * 0020 | * 1 | * Rel-17 | * B | * TEI17, 5G\_eSBA | * not pursued |
| * C3-204223 | * Omitted event reporting information | * Huawei | * 29.591 | * 0021 | * - | * Rel-16 | * F | * eNA | * merged |
| * C3-204254 | * Missed response code | * Huawei | * 29.591 | * 0022 | * - | * Rel-16 | * F | * eNA | * agreed |
| * C3-204267 | * Applicabilities of appIds and locArea | * Huawei | * 29.591 | * 0023 | * - | * Rel-16 | * F | * eNA | * agreed |
| * C3-204437 | * 29.591 Rel-16 Update of OpenAPI version and TS version in externalDocs field | * Huawei | * 29.591 | * 0024 | * - | * Rel-16 | * F | * TEI16 | * agreed |
| * C3-204126 | * Support of stateless NFs | * Huawei | * 29.594 | * 0054 | * - | * Rel-17 | * B | * TEI17, 5G\_eSBA | * revised |
| * C3-204428 | * Support of stateless NFs | * Huawei | * 29.594 | * 0054 | * 1 | * Rel-17 | * B | * TEI17, 5G\_eSBA | * not pursued |
| * C3-204143 | * Correction to spending limit subscribe and unsubscribe procedures | * Huawei | * 29.594 | * 0055 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * revised |
| * C3-204367 | * Correction to spending limit subscribe and unsubscribe procedures | * Huawei | * 29.594 | * 0055 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-204144 | * Correction to spending limit subscribe and unsubscribe procedures | * Huawei | * 29.594 | * 0056 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * revised |
| * C3-204368 | * Correction to spending limit subscribe and unsubscribe procedures | * Huawei | * 29.594 | * 0056 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-204162 | * Nchf\_SpendingLimitControl Service support of interworking | * Huawei | * 29.594 | * 0057 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * revised |
| * C3-204369 | * Nchf\_SpendingLimitControl Service support of interworking | * Huawei | * 29.594 | * 0057 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-CT | * agreed |
| * C3-204163 | * Nchf\_SpendingLimitControl Service support of interworking | * Huawei | * 29.594 | * 0058 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * revised |
| * C3-204370 | * Nchf\_SpendingLimitControl Service support of interworking | * Huawei | * 29.594 | * 0058 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-CT | * agreed |
| * C3-204164 | * Nchf\_SpendingLimitControl Service Supporting scenario | * Huawei | * 29.594 | * 0059 | * - | * Rel-15 | * F | * 5GS\_Ph1-CT | * merged |
| * C3-204166 | * Nchf\_SpendingLimitControl Service Supporting scenario | * Huawei | * 29.594 | * 0060 | * - | * Rel-16 | * A | * 5GS\_Ph1-CT | * merged |
| * C3-204127 | * Support of stateless NFs | * Huawei | * 29.675 | * 0010 | * - | * Rel-17 | * B | * TEI17, 5G\_eSBA | * revised |
| * C3-204429 | * Support of stateless NFs | * Huawei | * 29.675 | * 0010 | * 1 | * Rel-17 | * B | * TEI17, 5G\_eSBA | * not pursued |
| * C3-204206 | * Resource correction | * Huawei | * 29.675 | * 0011 | * - | * Rel-16 | * F | * RACS | * agreed |
| * C3-204248 | * Reference point representation | * Huawei | * 29.675 | * 0012 | * - | * Rel-17 | * F | * TEI17 | * revised |
| * C3-204387 | * Reference point representation | * Huawei | * 29.675 | * 0012 | * 1 | * Rel-17 | * F | * TEI17 | * agreed |

## Annex C: Lists of liaisons

### C1: Incoming liaison statements

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Original | Title | From | Decision | Reply TDoc |
| * C3-204018 |  | * 5G-ACIA\_ LS\_3GPP\_Exposure\_29062020 | * 5G-ACIA | * noted | * (none) |
| * C3-204019 |  | * LS on Bulk operation of LCS-service | * CT4 | * noted | * (none) |
| * C3-204020 |  | * LS reply on RACS multiple radio capability formats | * RAN3 | * noted | * (none) |
| * C3-204021 |  | * LS on Media Feature Tag for IMS Data Channel | * SA4 | * noted | * (none) |
| * C3-204022 |  | * LIAISE-411 Completion of WT-456 and WT-470 | * Broadband Forum | * noted | * (none) |
| * C3-204023 |  | * Reply LS on location reporting triggers | * SA6 | * noted | * (none) |

### C2: Outgoing liaison statements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Document | Title | To | Cc | reply to i/c LS |
| * C3-204168 | * LS reply on Media Feature Tag for IMS Data Channel | * SA4 | * CT1, SA2 | * C3-204021 / S4-200908 |
| * C3-204386 | * LS on support of stateless NFs | * CT4 | * SA5 |  |
| * C3-204405 | * LS on new AVPs in TS 29.214 | * CT4 | * - | * - |
| * C3-204434 | * LS on Clarification on using PAP/CHAP for 5GS | * CT1 | * - | * - |

## Annex D: List of agreed/approved new and revised Work Items

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Title | Source | new/revised |
| * C3-204376 | * New WID on Authentication and key management for applications based on 3GPP credential in 5G | * China Mobile | * WID new |

## Annex E: List of draft Technical Specifications and Reports

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Spec | vers | Doc title |

## 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) |
| ASKERUP, Anders | Hewlett-Packard Enterprise | 3GPPMEMBER (ETSI) |
| ATARIUS, Roozbeh | Motorola Mobility France S.A.S | 3GPPMEMBER (ETSI) |
| AXELL, Jörgen | Ericsson-LG Co., LTD | 3GPPMEMBER (TTA) |
| BAO, Chenxi | CATT | 3GPPMEMBER (CCSA) |
| BIONDIC, Nevenka | Ericsson GmbH, Eurolab | 3GPPMEMBER (ETSI) |
| BRINKMANN, Horst | Nokia Germany | 3GPPMEMBER (ETSI) |
| BROSZEIT, Marco | Vodafone España SA | 3GPPMEMBER (ETSI) |
| CHEN, Xiaoguang | Huawei Technologies Japan K.K. | 3GPPMEMBER (TTC) |
| DAWES, Peter | Vodafone Italia SpA | 3GPPMEMBER (ETSI) |
| DE GREGORIO, Jesus | Ericsson Hungary Ltd | 3GPPMEMBER (ETSI) |
| DOLAN, Michael | FirstNet | 3GPPMEMBER (ATIS) |
| DOLLY, Martin | AT&T | 3GPPMEMBER (ATIS) |
| EITOKU, haruka | NTT corporation | 3GPPMEMBER (ETSI) |
| EL MOATAMID, Abdessamad | Orange Romania | 3GPPMEMBER (ETSI) |
| FERNANDEZ, Susana | Ericsson LM | 3GPPMEMBER (ETSI) |
| GARCIA AZORERO, Fuencisla | Ericsson España S.A. | 3GPPMEMBER (ETSI) |
| GÖRMER, Gerald | Matrixx | 3GPPMEMBER (ETSI) |
| GULBANI, Giorgi | HUAWEI TECH. GmbH | 3GPPMEMBER (ETSI) |
| GUPTA, Varini | Harman GmbH | 3GPPMEMBER (ETSI) |
| HAO, Hongxia | HuaWei Technologies Co., Ltd | 3GPPMEMBER (CCSA) |
| HARTNETT, Daniel | DECT Forum | 3GPPMEMBER (ETSI) |
| HERRERO-VERON, Christian | Huawei Technologies R&D UK | 3GPPMEMBER (ETSI) |
| HIKOSAKA, Maoki | NTT DOCOMO INC. | 3GPPMEMBER (TTC) |
| HOLMSTRÖM, Tomas | Ericsson Telecomunicazioni SpA | 3GPPMEMBER (ETSI) |
| HUANG, Zhenning | China Mobile Com. Corporation | 3GPPMEMBER (CCSA) |
| INOUE, Yoshihiro | NTT | 3GPPMEMBER (TTC) |
| ISHIKAWA, Hiroshi | NTT DOCOMO INC. | 3GPPMEMBER (ARIB) |
| JING, Hao | ETSI | 3GPPORG\_REP (ETSI) |
| KAURA, Ricky | Samsung Electronics GmbH | 3GPPMEMBER (ETSI) |
| KREIPL, Michael | Telekom Deutschland GmbH | 3GPPMEMBER (ETSI) |
| KRUSE, Heiko | IDEMIA | 3GPPMEMBER (ETSI) |
| LAUSTER, Reinhard | Deutsche Telekom AG | 3GPPMEMBER (ETSI) |
| LAVASANI, Shahab | Huawei Technologies Sweden AB | 3GPPMEMBER (ETSI) |
| LAZARA, Dominic | Motorola Solutions Poland | 3GPPMEMBER (ETSI) |
| LEE, Jay | Verizon UK Ltd | 3GPPMEMBER (ETSI) |
| LI, Li | Huawei Technologies (Korea) | 3GPPMEMBER (TTA) |
| LI, Mingxue | China Telecom Corporation Ltd. | 3GPPMEMBER (CCSA) |
| LI, Zhijun | ZONSON | 3GPPMEMBER (CCSA) |
| LIANG, Tianmei | Ericsson Japan K.K. | 3GPPMEMBER (ARIB) |
| LIU, Qingfen | HUAWEI Technologies Japan K.K. | 3GPPMEMBER (ARIB) |
| LIU, Yubing | China Telecommunications | 3GPPMEMBER (ETSI) |
| LU, Yang | Vodafone Telekomünikasyon A.S. | 3GPPMEMBER (ETSI) |
| LUKACS, Don | Perspecta Labs Inc. | 3GPPMEMBER (ATIS) |
| MONNES, Peter | Perspecta Labs Inc. | 3GPPMEMBER (ATIS) |
| MONRAD, Atle | InterDigital, Europe, Ltd. | 3GPPMEMBER (ETSI) |
| MORAND, Lionel | Orange | 3GPPMEMBER (ETSI) |
| PAPAGEORGIOU, Apostolos | Nokia Germany | 3GPPMEMBER (ETSI) |
| PARK, Sang Min | LG Electronics Inc. | 3GPPMEMBER (TTA) |
| PINTO, BARUCH | Allot Ltd | 3GPPMEMBER (ETSI) |
| QI, Caixia | Huawei Telecommunication India | 3GPPMEMBER (TSDSI) |
| SAHIN, Yildirim | Charter Communications, Inc | 3GPPMEMBER (ATIS) |
| SEDLACEK, Ivo | Ericsson France S.A.S | 3GPPMEMBER (ETSI) |
| SHAH, Sapan | Samsung Electronics Romania | 3GPPMEMBER (ETSI) |
| SHU, Lin | Huawei Device Co., Ltd | 3GPPMEMBER (CCSA) |
| SKROCKI, Mariusz | Orange Spain | 3GPPMEMBER (ETSI) |
| SONG, Yue | China Mobile Com. Corporation | 3GPPMEMBER (CCSA) |
| SRIVASTAVA, Vimal | Cisco Systems France | 3GPPMEMBER (ETSI) |
| STARSINIC, Michael | Convida Wireless | 3GPPMEMBER (ETSI) |
| SUH, Kyungjoo Grace | Samsung Electronics Nordic AB | 3GPPMEMBER (ETSI) |
| SUN, Yue | China Telecommunications | 3GPPMEMBER (ETSI) |
| TANGUDU, Narendranath Durga | Samsung Electronics Iberia SA | 3GPPMEMBER (ETSI) |
| TIWARI, Kundan | Samsung R&D Institute India | 3GPPMEMBER (TSDSI) |
| TSANG, Yolanda | ASTRI | 3GPPMEMBER (ETSI) |
| WASS, Mikael | Ericsson Limited | 3GPPMEMBER (ETSI) |
| WATFA, Mahmoud | Samsung Guangzhou Mobile R&D | 3GPPMEMBER (CCSA) |
| WEAVER, Farni | T-Mobile USA | 3GPPMEMBER (ETSI) |
| WEI, haitao | Huawei Technologies France | 3GPPMEMBER (ETSI) |
| XU, Wenliang | L.M. Ericsson Limited | 3GPPMEMBER (ETSI) |
| YAMAKITA, Takayuki | Oki Electric Industry Co. Ltd. | 3GPPMEMBER (TTC) |
| YAN, Yali | Huawei Tech.(UK) Co., Ltd | 3GPPMEMBER (ETSI) |
| YONG, Jiang | Datang Mobile Com. Equipment | 3GPPMEMBER (CCSA) |
| ZHOU, Xiaoyun | Huawei Technologies R&D UK | 3GPPMEMBER (ETSI) |
| ZHOU, Xingyue | ZTE Wistron Telecom AB | 3GPPMEMBER (ETSI) |
| ZIA, Waqar | Qualcomm CDMA Technologies | 3GPPMEMBER (ETSI) |

## Annex I: List of future meetings

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Title** | **Start date** | **End date (OP)** | **Town** | **Country** | **Reference** |
| CT3#112e | 2020-11-04 | 2020-11-13 | e-meeting | e-meeting | C3-112e |
| 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 | Marbella | ES | 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