**3GPP TSG-SA WG6 Meeting #36 S6-200360**

**Christchurch, New Zeelan, 24th – 28th February 2020**

Source: MCC

Title: SA6 Meeting 35 Report

Agenda Item: 3

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*Abstract: Meeting report of 3GPP SA6 meeting #35*

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

**Meeting Report  
for  
TSG SA WG6  
meeting: 35**

**Hyderabad, India, 13/01/2020 to 17/01/2020**

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## 1 Opening of the meeting

### 1.1 Welcome speech

The chairman of SA6, Suresh Chitturi (Samsung), opened the SA6#35 meeting and welcomed the delegates, on behalf on IF3, to Hyderabad, India.

### 1.2 IPR and antitrust policy reminders

**IPR Call Reminder:**

The chairman of the meeting made the following reminders about members’ obligations in relation to IPRs, and asked members to check the latest version of ETSI's policy available on the web server:

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 are thereby invited:

- to investigate whether their organization or any other organization owns IPRs which were, or are 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 Statement and the Licensing declaration forms (<https://www.3gpp.org/about-3gpp/legal-matters> ).

**Antitrust declaration:**

The chairman of the meeting made the following antitrust declaration:

The attention of the delegates to the meeting was drawn to the fact that 3GPP activities were subject to 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 present meeting would be conducted with strict 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.

### 1.3 EAR statement

The chairman of the meeting read out load the following EAR statement:

**Statement Regarding Engagement with Companies Added to the U.S. Export Administration Regulations (EAR) Entity List in 3GPP Activities** <https://www.3gpp.org/about-3gpp/legal-matters>

1. Public Information is Not Subject to EAR

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

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

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

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

2. Non-Public Information

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

3. Other Information

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

4. Conduct of Meetings

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

5. Responsibility of Individual Members

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

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

### 1.4 Reminder for check-in at the meeting and for wearing badges

Delegates were reminded to wear badges.

## 2 Agenda and Chairman’s notes

**S6-200001 SA6 Meeting 35 Agenda**

*Type: agenda For: Approval  
 Source: SA6 Chairman*

**Abstract:**

Agenda for the SA6#35 meeting

**Discussion:**

The initial agenda used to setup 3GU.

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

**S6-200003 SA6 Meeting #35 - Agenda with Tdocs allocation after submission deadline**

*Type: agenda For: Approval  
 Source: SA6 Chairman*

**Abstract:**

The SA6#35 meeting agenda with Tdocs allocation after submission deadline

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

**S6-200004 SA6 Meeting #35 - Agenda with Tdocs allocation at start of the meeting**

*Type: agenda For: Approval  
 Source: SA6 Chairman*

**Abstract:**

The SA6#35 meeting agenda with Tdocs allocation at the start of the meeting

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

**S6-200005 SA6 Meeting #35 - Chairman's notes at end of the meeting**

*Type: agenda For: Approval  
 Source: SA6 Chairman*

**Abstract:**

Chairman's notes at end of the SA6#35 meeting

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

## 3 Report from previous meetings

**S6-200002 SA6 Meeting 34 Report**

*Type: report For: Approval  
 Source: MCC*

**Abstract:**

The report of the SA6#34 meeting.

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

**S6-200068 Report on SA6 related topics at SA#86**

*Type: report For: Information  
 Source: SA6 Chairman*

**Abstract:**

This document contains a brief report from SA#86 on matters relating to SA6 WG activities

**Discussion:**

The chairman presented document S6-200068 with a report on SA6 related topics at SA#86.

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

## 4 Liaison statements

### 4.1 Incoming LSs

**S6-200006 LS on Unicast resource management with SIP core**

*Type: LS in For: Action  
 Original outgoing LS: C1-198613, to SA6, cc -  
 Source: CT1*

**Abstract:**

1 . Overall description

CT1 are working on the stage 3 details of SEAL for network resource management and based on stage 2 in TS 23.434 the request for unicast resources at VAL service communication establishment procedure can use SIP core (see clause 14.3.3.2). For this case, the SIP protocol is used between the SNRM-S and the SIP core which later communicates with the PCRF/PCF. It is CT1’s understanding that the SIP core just copies the information received in the SIP MESSAGE request (sent to establish unicast resource) and interacts with the PCRF/PCF. CT1 wonder if in stage 3 the SNRM-S can interact directly with the PCRF/PCF.

2. Actions

To 3GPP TSG SA WG6

ACTION: CT1 kindly ask SA6 how the SIP core work with regards to unicast resource management.

**Discussion:**

Huawei presented the LS available as S6-200006.

Motorola Solutions pointed out that SA6 should clarify both the cases of non-SIP as well as SIP applications.

**Decision:** The document was **replied to in S6-200163**.

**S6-200007 LS on Enquiries for supporting vertical applications**

*Type: LS in For: Action  
 Original outgoing LS: C1-198623, to SA6, cc -  
 Source: CT1*

**Abstract:**

1. Overall description

CT1 have the following enquires with regards to the work on supporting vertical applications:

(1) CT1 have checked the stage 2 work in TS 23.434 clause 6.5.3.2 and 6.5.3.3 which indicate that SIP signalling is used (the use of SIP-1 and SIP-2 reference points and indication of communication of the TMGI for multicast operation). CT1 have the understanding that in the context of SEAL HTTP should be used instead of SIP signalling for resource management, and therefore:

CT1 wonder whether it is correct SIP signalling or use HTTP or both for MBMS resource management.

(2) CT1 have checked the stage 2 work in TS 23.434 clause 9.3.3 on Event-triggered location reporting procedure. In that procedure, the location reporting configuration message is sent from the server to the client. CT1 have the understanding that in the context of SEAL HTTP should be used for the event-triggered location reporting procedure, and therefore:

CT1 ask SA6 to clarify how the location reporting configuration message can be used using HTTP methods.

(3) CT1 have checked the stage 2 work in TS 23.434 and TS 23.286 and one aspect is that LMS should be able to leverage the MBMS to configure several LMCs at the same time. In addition to that, for V2AXAPP communication over V1-AE MBMS transport can be used.

CT1 have the understanding that in the context of SEAL and V2XAPP HTTP is used. As TCP cannot be transmitted over MBMS (i.e., MBMS does not support acknowledgement from the client). QUIC with HTTP could be in principle a possibility but note that the use of QUIC is not part of 3GPP yet and a number of issues have been identified in 3GPP (see 3GPP TS 29.893 by CT4 so the use of QUIC seems not possible in Rel-16.

CT1 ask SA6 to provide guidance on how to proceed for which protocol to use for signalling over MBMS.

2. Actions

To 3GPP TSG SA WG6

ACTION: CT1 kindly ask SA6 to provide answer to enquires outlined above in order to progress on the vertical applications work.

**Discussion:**

Huawei presented the LS available as S6-200007.

Qualcomm made a remark with regard to the question 3, that it was difficult for SA6 to provide a reply, as SA6 basically did not care.

**Decision:** The document was **replied to in S6-200164**.

**S6-200010 Reply LS on Application Architecture for enabling Edge Applications**

*Type: LS in For: Action  
 Original outgoing LS: S5-197752, to SA6, cc SA2  
 Source: SA5*

**Abstract:**

**Discussion:**

Samsung presented the LS available as S6-200010.

Motorola Solutions did not think a reply was needed.

Qualcomm agreed that no reply was need but would appreciate knowing more about the status in SA5.

**Decision:** The document was **replied to in S6-200237**.

**S6-200011 LS on Split of work responsibilities between SA2 and SA6**

*Type: LS in For: Action  
 Original outgoing LS: S2-1912771, to SA6, cc SA  
 Source: SA2*

**Abstract:**

1. Overall description:

SA5 thanks SA6 for the LS on “Application Architecture for enabling Edge Applications”.

SA5 would like to inform SA6 that the work on “Application Architecture for enabling Edge Applications” requires close coordination between SA6 and SA5. The “Key Issue 12: Lifecycle Management” documented in 3GPP TR 23.758 has direct relevance with SA5 and may require management solutions from SA5. Further, SA5 would like to inform SA6 that SA5 is working on its Rel-17 work which may include management of edge computing as the probable topic.

SA5 will further analyze TR 23.758 for additional relevance and issues that may require close coordination between SA6 and SA5.

2. Actions:

To 3GPP SA6

ACTION:

SA5 requests SA6 to consider the information provided above and keep SA5 informed for the issues that may need OAM involvement in the work related to “Application Architecture for enabling Edge Applications”.

**Discussion:**

Qualcomm presented the LS available as S6-200011.

Qualcomm further clarified that SA6 could in its TS include application guidelines in an informative annex.

Motorola Solutions agreed with Qualcomm and noted that the split seemed rather clear as bullet 3 stated "Application layer EAS discovery is in the scope of SA6.".

**Decision:** The document was **replied to in S6-200165**.

**S6-200058 IoT API: Edge and Fog Computing**

*Type: LS in For: Action  
 Original outgoing LS: -, to -, cc -  
 Source: oneM2M TP (meeting 43, December 2019)*

**Abstract:**

1. Overview

oneM2M would like to inform 3GPP SA WG6 about its progress in the area of Edge and Fog computing. The latest version of our study on the subject is attached (TR-0052- Study\_on\_Edge\_and\_Fog\_Computing\_in\_oneM2M\_systems-V0\_9\_0). oneM2M believes that IoT services could benefit from Edge and Fog technologies and looks at the opportunity offered by the exposure of the oneM2M API in such context in relation to the 3GPP system. Being aware of the work of 3GPP SA WG6 under the FS\_EDGEAPP study item, we are seeking for collaboration in the area of EDGE computing.

2. Requested Action

Please keep oneM2M Technical Plenary updated about progress in this area of work and look for potential area of collaboration.

**Discussion:**

Convida Wireless presented the LS available as S6-200058.

A brief discussion followed whether a reply was required. It was concluded that no reply would be prepared at this point.

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

**S6-200012 LS on Control Room Workshop**

*Type: LS in For: Discussion  
 Original outgoing LS: LS on Control Room Workshop (from TCCA to 3GPP SA6)\_v1, to SA6, cc -  
 Source: TCCA*

**Abstract:**

TCCA would like to inform 3GPP SA6 about the Control Room Workshop which will be held on 23 January 2020 in Berlin, Germany.

Please see enclosed the registration documents and draft agenda.

The information is also provided on <https://tcca.info/control-room-workshop/>

Participation from 3GPP SA6 experts is welcome.

Inputs to the agenda or short presentations on the topic are welcome as well.

Background and Goal of the Workshop:

When 3GPP standardised the Mission Critical Features (MCX = MCPTT, MCVIDEO, MCDATA) they also included Control Rooms and Consoles functionality, but the underlying concepts are not easy to understand by reading the 3GPP specifications.

The goal of the workshop is to establish and document a common understanding how Control Rooms, Dispatchers and Consoles are to be connected to Mission Critical Broadband systems, such that they can provide the current and future functionality and services to their operators.

The workshop may identify critical or open issues or gaps in the 3GPP standards and decide how these are to be followed up.

**Discussion:**

Motorola Solutions presented the LS available as S6-200012.

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

**S6-200008 LS to CT1 on 3rd ETSI MCX Remote Plugtest**

*Type: LS in For: Information  
 Original outgoing LS: S3-194611, to CT1, cc SA6  
 Source: SA3*

**Abstract:**

1. Overall Description:

SA3 would like to provide the following information to CT1 regarding the security related ETSI Plugtest technical constraints that were identified in the ETSI Plugtests Report V1.0.0 “3rd ETSI MCX Remote Plugtests 3 Dec 2018 – 31 Jan 2019”. These issues were provided to SA3 in S3-191829 (C1-191829) and S3-191834.

1. ETSI Plugtest Technical Constraint 10.2.4:

10.2.4 CLARIFICATION: Need for Client Authentication in IDMS

Many of the vendors’ implementations of IdMS and MCPTT Auth included/required Client Authentication using HTTP Basic Auth.

Regarding 3GPP TS 33.180 [24] this type of mechanisms is only mentioned a couple of times, for example: "Note that client authentication is REQUIRED for native applications (using PKCE) in order to exchange the authorization code for an access token. Assuming that client secrets are used, the client secret is sent in the HTTP Authorization Header."

But nowhere else in the standard is mentioned the use of client authentication or Basic HTTP Auth mechanisms. It is missing completely from the example just below the aforementioned sentence, in section B.4.2.4. Moreover, most of the implementations require the presence of this Basic HTTP Auth (Authorization header) with a content consisting of user:password coded in Base64. This basic method is not specified in the standard (other than inter-domain auth), although it's specified in IETF [RFC 6749](https://tools.ietf.org/html/rfc6749) [38].

Adding an additional layer of client/UE authentication to the mix (apart from UE-id registering in the IdMS), would probably not represent any benefit. It really adds up to the UE registration phase, because instead of only provisioning the IdMS with the UE-id, the client secret must be also provisioned back to the UE.

If a discussion finally validates this HTTP Basic mechanism, it would be reasonable to modify the standard to include more details about this, and clarify client authentication procedures.

**SA3 Response:**

Please note that the use of HTTP Basic authentication is optional but “recommended” per OAuth 2.0 RFC 6749 section 2.3.1 (copied here for convenience):

“2.3.1. Client Password

Clients in possession of a client password MAY use the HTTP Basic authentication scheme as defined in [RFC2617] to authenticate with the authorization server. The client identifier is encoded using the "application/x-www-form-urlencoded" encoding algorithm per Appendix B, and the encoded value is used as the username; the client password is encoded using the same algorithm and used as the password. The authorization server MUST support the HTTP Basic authentication scheme for authenticating clients that were issued a client password.

For example (with extra line breaks for display purposes only):

Authorization: Basic czZCaGRSa3F0Mzo3RmpmcDBaQnIxS3REUmJuZlZkbUl3

Alternatively, the authorization server MAY support including the client credentials in the request-body using the following parameters:

client\_id

REQUIRED. The client identifier issued to the client during the registration process described by Section 2.2.

client\_secret

REQUIRED. The client secret. The client MAY omit the parameter if the client secret is an empty string.

Including the client credentials in the request-body using the two parameters is NOT RECOMMENDED and SHOULD be limited to clients unable to directly utilize the HTTP Basic authentication scheme (or other password-based HTTP authentication schemes). The parameters can only be transmitted in the request-body and MUST NOT be included in the request URI.

For example, a request to refresh an access token (Section 6) using the body parameters (with extra line breaks for display purposes only):

POST /token HTTP/1.1

Host: server.example.com

Content-Type: application/x-www-form-urlencoded

grant\_type=refresh\_token&refresh\_token=tGzv3JOkF0XG5Qx2TlKWIA

&client\_id=s6BhdRkqt3&client\_secret=7Fjfp0ZBr1KtDRbnfVdmIw

The authorization server MUST require the use of TLS as described in Section 1.6 when sending requests using password authentication. Since this client authentication method involves a password, the authorization server MUST protect any endpoint utilizing it against brute force attacks.”

In TS 33.180 (annex B.4.2.4), it states; “Note that client authentication is REQUIRED for native applications (using PKCE) in order to exchange the authorization code for an access token. Assuming that client secrets are used, the client secret is sent in the HTTP Authorization Header.” This sentence applies specifically to the OAuth redirection step when the client is redirected from the authorization endpoint to the token endpoint and must use Proof Key for Code Exchange (PKCE). While PKCE is required, HTTP Basic authentication SHOULD be used if client secrets are used. The use of client secrets is not mandatory.

When not otherwise specified in 33.180, the use of HTTP Basic authentication is per OAuth 2.0 specifications RFC 6749 & RFC 6750.

To clarify this, SA3 has agreed on the following CR: S3-194000 (attached).

2. Actions:

To CT1 group.

ACTION: SA3 respectfully asks CT1 group (as the central communication liaison for ETSI Plugtest responses) to communicate the above SA3 response to the ETSI Plugtest group.

**Discussion:**

Motorola Solutions presented the LS available as S6-200008.

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

**S6-200009 LS on analysis of GSMA GST attributes**

*Type: LS in For: Information  
 Original outgoing LS: S5-197853, to SA2, RAN3, IETF, cc SA, SA1, SA6, RAN2, GSMA 5GJA, ETSI ISG ZSM  
 Source: SA5*

**Abstract:**

1. Overall Description:

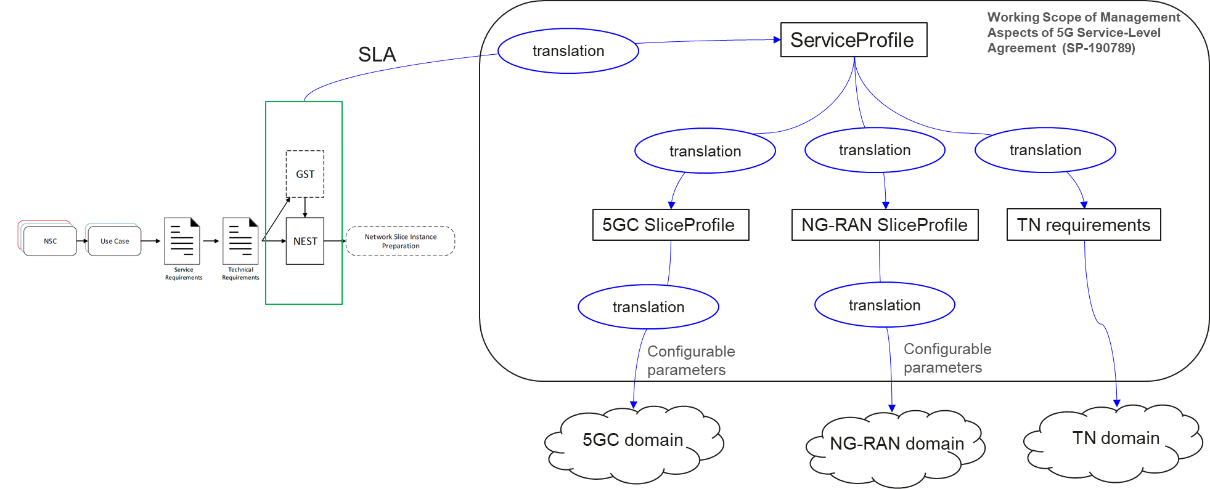
There is an ongoing 3GPP Rel-16 WID which is related to management support for network slicing:

* Management Aspects of 5G Service-Level Agreement (SP-190789)

SA5 thinks that SLA requirements can be fulfilled from management aspect and system aspect in a coordinated way.

3GPP SA5 has started analysing the attributes from GSMA PRD NG.116 v1.0 and has approved S5-197621 in which the 3GPP network slicing ServiceProfile NRM is updated to implement some GST SLA attributes.

3GPP SA5 is working on the translation from GST attributes to 3GPP ServiceProfile NRM and the translation from 3GPP ServiceProfile NRM to 3GPP SliceProfile NRM, and will provide the configurable attributes to 3GPP 5GC domain (e.g. AMF, SMF, UPF etc.) and NG-RAN domain (e.g. NG-RAN node) based on 3GPP SliceProfile NRM, and will provide TN requirements to non-3GPP TN domain management systems, see below figure.



2. Actions:

To SA2 group:

SA5 respectfully requests 3GPP SA2 to take this information into account and provide feedback, if necessary.

To RAN3 group:

SA5 respectfully requests 3GPP RAN3 to take this information into account and provide feedback, if necessary.

To IETF group:

SA5 respectfully requests IETF to take this information into account and provide feedback, if necessary.

**Discussion:**

Chairman presented the LS available as S6-200009.

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

### 4.2 Outgoing LSs

**S6-200028 LS on Requirements on positioning for UAS**

*Type: LS out For: Approval  
 to SA1, cc SA2, RAN2  
 Source: InterDigital*

**Discussion:**

InterDigital presented the draft LS available as S6-200028.

**Decision:** The document was **revised to S6-200269**.

**S6-200269 LS on Requirements on positioning for UAS**

*Type: LS out For: Approval  
 to SA1, cc SA2, RAN2  
 Source: SA6*

(Replaces S6-200028)

**Discussion:**

InterDigital presented the draft LS available as S6-200269.

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

**S6-200169 LS on API additions to SEAL and V2XAPP**

*Type: LS out For: Approval  
 to CT3, CT1  
 Source: SA6*

**Discussion:**

Ericsson presented the draft LS available as S6-200169.

It was noted that the TDoc number was missing.

Huawei suggested reducing the text in the LS (i.e. not include the changes) as the actuals CRs will be attached.

**Decision:** The document was **revised to S6-200270**.

**S6-200270 LS on API additions to SEAL and V2XAPP**

*Type: LS out For: Approval  
 to CT3, CT1  
 Source: SA6*

(Replaces S6-200169)

**Discussion:**

Ericsson presented the draft LS available as S6-200270.

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

**S6-200237 Reply LS on Application Architecture for enabling Edge Applications**

*Type: LS out For: Approval  
 to SA5  
 Source: SA6*

**Discussion:**

Vodafone presented the draft LS available as S6-200237.

Samsung supported the LS, but suggested replacing in bullet 2 and 3, "Edge applications" with "Edge application server(s)".

Qualcomm suggested rephrasing sub-bullet e) and replacing in bullet 3 "Does SA5 plan normative work.." with " Does SA5 plan any work .."

Huawei suggested removing the term instances in various places.

**Decision:** The document was **revised to S6-200271**.

**S6-200271 Reply LS on Application Architecture for enabling Edge Applications**

*Type: LS out For: Approval  
 to SA5  
 Source: SA6*

(Replaces S6-200237)

**Discussion:**

Vodafone presented the draft LS available as S6-200271.

Qualcomm did not support the way the bullets a) to e) were referred to as they seemed as owned by SA6 and should hence be softened.

Samsung suggested correcting the capitalization of Edge application.

Also, the pCR TDoc reference should be corrected.

**Decision:** The document was **revised to S6-200306**.

**S6-200306 Reply LS on Application Architecture for enabling Edge Applications**

*Type: LS out For: Approval  
 to SA5  
 Source: SA6*

(Replaces S6-200271)

**Discussion:**

Vodafone presented the draft LS available as S6-200306.

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

**S6-200163 Reply LS on Unicast resource management with SIP core**

*Type: LS out For: Approval  
 to CT1  
 Source: SA6*

**Discussion:**

Huawei presented the draft LS available as S6-200163.

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

**S6-200164 Reply LS on Enquiries for supporting vertical applications**

*Type: LS out For: Approval  
 to CT1  
 Source: SA6*

**Discussion:**

Huawei presented the draft LS available as S6-200164.

Motorola Solutions suggested replacing the second sentence of Q3 with "SA6 prefers to leave the decision on the protocol choice to stage 3."

The only changes are to:

- replacing "SA6 thanks CT1 for the LS on Unicast resource management with SIP core." with "SA6 thanks CT1 for the LS on Enquiries for supporting vertical applications."

- replacing under Q3 "SA6 suggests CT1 to analyse existing protocols used for mission critical services if they can be used for this purpose" with "SA6 prefers to leave the decision on the protocol choice to stage 3.".

With the above changes the revised contribution, S6-200337, is considered pre-approved.

**Decision:** The document was **revised to S6-200337**.

**S6-200337 Reply LS on Enquiries for supporting vertical application**

*Type: LS out For: Approval  
 to CT1  
 Source: SA6*

(Replaces S6-200164)

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

**S6-200165 Reply LS on Split of work responsibilities between SA2 and SA6**

*Type: LS out For: Approval  
 to SA2, cc SA  
 Source: SA6*

**Discussion:**

Huawei presented the draft LS available as S6-200165.

The only changes are:

- removing the text "There is likely a definition …. associated with a destination IP address."

- replacing "... planning to document.." with "..documenting.."

With the above changes the revised contribution, S6-200357, is considered pre-approved.

**Decision:** The document was **revised to S6-200357**.

**S6-200357 Reply LS on Split of work responsibilities between SA2 and SA6**

*Type: LS out For: discussion  
 to SA2, cc SA  
 Source: SA6*

(Replaces S6-200165)

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

**S6-200355 Reply LS on member ID used in eV2X**

*Type: LS out For: Approval  
 to SA2, RAN1  
 Source: SA6*

**Discussion:**

Huawei presented the draft LS available as S6-200355.

It was suggested to rephrase Q1 to read "What is the expected format of the member ID?"

However, after some further discussion it became clear that Qualcomm, Nokia and Motorola Solutions preferred to postpone the LS.

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

## 5 Items for early consideration

### 5.1 Working Agreements

n/a

### 5.2 Others

n/a

## 6 Rel-13 Maintenance

n/a

## 7 Rel-14 Maintenance

n/a

## 8 Rel-15 Maintenance

n/a

## 9 Rel-16 Work Items

**S6-200071 Shared CAPIF provider domain info in interconnection**

*Type: CR For: (not specified)  
 23.222 v16.6.0 CR-0066 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

The contribution proposes:

1. Small fix for the figure title in 6.2.2-1.

2. Clarifying that one and only one CAPIF provider domain can be sent over CAPIF-6e in the interconnection API publish request.

3. Removing CAPIF provider domain information from table 8.25.2.1-1.

**Discussion:**

Ericsson presented the document available as S6-200071.

**Decision:** The document was **revised to S6-200166**.

**S6-200166 Shared CAPIF provider domain info in interconnection**

*Type: CR For: -  
 23.222 v16.6.0 CR-0066 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces S6-200071)

**Discussion:**

Ericsson presented the document available as S6-200166.

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

**S6-200085 Align with TS 23.434**

*Type: CR For: Approval  
 23.286 v16.2.0 CR-0016 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

**Abstract:**

The contribution proposes some changes to align with TS 23.434.

**Discussion:**

ZTE presented the document available as S6-200085.

Some cover sheet issues were pointed out.

**Decision:** The document was **revised to S6-200167**.

**S6-200167 Align with TS 23.434**

*Type: CR For: Approval  
 23.286 v16.2.0 CR-0016 rev 1 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

(Replaces S6-200085)

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

**S6-200074 Add VAE application requirement notification**

*Type: CR For: (not specified)  
 23.286 v16.2.0 CR-0013 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Discussion:**

Ericsson presented the document available as S6-200074.

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

**S6-200075 Add VAE service continuity API**

*Type: CR For: (not specified)  
 23.286 v16.2.0 CR-0014 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

The contribution proposes:

1. Updating subclause 10.2.1 with VAE\_ServiceContinuity API;

2. Adding new subclause under subclause 10.2 with VAE\_ServiceContinuity API definition.

**Discussion:**

Ericsson presented the document available as S6-200075.

Samsung was of the view that it would be challenging for CT3 to add the corresponding APIs.

Motorola Solutions pointed out that the proposal might be better suited as cat B CR for rel-17.

**Decision:** The document was **revised to S6-200168**.

**S6-200168 Add VAE service continuity API**

*Type: CR For: -  
 23.286 v16.2.0 CR-0014 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces S6-200075)

**Discussion:**

Ericsson presented the document available as S6-200168.

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

**S6-200072 Complete SS\_NetworkResourceAdaptation API**

*Type: CR For: (not specified)  
 23.434 v16.2.0 CR-0016 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

The contribution proposes:

1. Adding the endpoint information in MBMS bearers request.

2. Adding API operations for:

- request unicast resource

- update unicast resource

- request multicast resource

- notify UP delivery mode

**Discussion:**

Ericsson presented the document available as S6-200072.

Samsung raised a concern whether not the proposed API operations should be left for Rel-17.

Motorola Solutions did not think the creation of the new API operations were a cat F change.

The proposed CR was finally agreed, and it was agreed to send an LS to CT 3 on the topic.

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

**S6-200073 Correct dynamic MBMS bearer establishment**

*Type: CR For: (not specified)  
 23.434 v16.2.0 CR-0017 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Discussion:**

Ericsson presented the document available as S6-200073.

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

**S6-200076 V2XAPP Group Management**

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

**Discussion:**

Ericsson presented the document available as S6-200076.

Huawei suggested leaving the corresponding change to Rel-17, they further noted there were several ways how to solve the Dynamic Group solution.

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

**S6-200077 Correct Group Management procedure**

*Type: CR For: (not specified)  
 23.286 v16.2.0 CR-0015 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

The contribution proposes:

1. updating clause 9.1.1 is with new referred clauses of TS 23.434.

2. updating clause 9.12.2.1 to remove the use of Push L2 group ID between VAE server and client.

3. updating clause 9.12.2.2 with end point information.

4. adding configure dynamic group response and notification.

5. changing the procedure in clause 9.12.3.2 with SEAL GM interaction.

6. updating the API description in clause 10.2.

**Discussion:**

Ericsson presented the document available as S6-200077.

Qualcomm suggested to study the proposal further, possibly generalising it, and move it to Rel-17.

Motorola Solutions agreed with the view of Qualcomm.

It was noted that some of the changes could be brought as changes to Rel-16 (reason to change to be modified accordingly).

**Decision:** The document was **revised to S6-200170**.

**S6-200170 Correct Group Management procedure**

*Type: CR For: -  
 23.286 v16.2.0 CR-0015 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces S6-200077)

**Abstract:**

The contribution proposes:

1. updating clause 9.12.2.2 with end point information.

2. adding configure dynamic group response and notification in information flow.

3. changing the procedure in clause 9.12.3.2 with configure dynamic group response and add the procedure in new subclause for notification.

4. updating the API description in clause 10.2.

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

**S6-200078 Correct Group Management procedure**

*Type: CR For: (not specified)  
 23.434 v16.2.0 CR-0018 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S6-200033 Correction of internal clause references for Enhanced Status transmission**

*Type: CR For: Agreement  
 23.282 v17.1.0 CR-0197 Cat: F (Rel-17)  
  
 Source: Sepura, Hytera Communications Corp*

**Abstract:**

Enhanced Status is realised as a group service, but the subclause referenced for the delivery procedure via the group standalone SDS via signalling control plane is 7.4.2.2 (one-to-one) not 7.4.2.5 (group) for on-network and 7.4.3.3 vs 7.4.3.4 for off-net

**Discussion:**

Sepura presented the document available as S6-200033.

The only changes are:

- Cat A,

- WI code eMCData2 and

- check the CR number.

With the above change the revised contribution, S6-200033, is considered pre-agreed.

**Decision:** The document was **revised to S6-200196**.

**S6-200196 Correction of internal clause references for Enhanced Status transmission**

*Type: CR For: Agreement  
 23.282 v17.1.0 CR-0197 rev 1 Cat: A (Rel-17)  
  
 Source: Sepura, Hytera Communications Corp*

(Replaces S6-200033)

**Discussion:**

Sepura presented the document available as S6-200196.

The only changes are:

- WI code eMCData2

With the above change the revised contribution, S6-200276, is considered pre-agreed.

**Decision:** The document was **revised to S6-200276**.

**S6-200276 Correction of internal clause references for Enhanced Status transmission**

*Type: CR For: Agreement  
 23.282 v17.1.0 CR-0197 rev 2 Cat: A (Rel-17)  
  
 Source: Sepura, Hytera Communications Corp*

(Replaces S6-200196)

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

**S6-200197 Correction of internal clause references for Enhanced Status transmission**

*Type: CR For: Agreement  
 23.282 v16.5.0 CR-0206 Cat: F (Rel-16)  
  
 Source: Sepura, Hytera Communications Corp*

**Discussion:**

Sepura presented the document available as S6-200197.

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

## 10 Rel-17 Work Items

### 10.1 eMONASTERY2 – Enhancements to Application Architecture for the Mobile Communication System for Railways Phase 2

**S6-200038 Stage 1 requirements and their treatment in stage 2**

*Type: discussion For: Information  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

The discussion paper identifies stage 1 requirements not yet covered by stage 2 and those which are covered.

**Discussion:**

Nokia presented the document available as S6-200038.

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

**S6-200039 To-do-list for eMONASTERY2**

*Type: discussion For: Agreement  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

The paper provides the list of open issues and the list of agreed CRs.

**Discussion:**

Nokia presented the document available as S6-200039.

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

**S6-200021 Clarification on procedures related to server to server communication**

*Type: CR For: Agreement  
 23.379 v17.1.0 CR-0248 Cat: F (Rel-17)  
  
 Source: Kontron Transportation France*

**Abstract:**

The contribution proposes adding some clarification on representation of servers acting as participating or controlling role in the procedures.

**Discussion:**

Kontron presented the document available as S6-200021.

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

**S6-200036 Clarification on procedures related to server to server communication**

*Type: CR For: Agreement  
 23.280 v17.1.0 CR-0230 Cat: F (Rel-17)  
  
 Source: Kontron Transportation France*

**Abstract:**

The contribution proposes adding some clarification on representation of servers acting as participating or controlling role in the procedures.

**Discussion:**

Kontron presented the document available as S6-200036.

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

**S6-200040 Clarification on procedures related to server to server communication**

*Type: CR For: Agreement  
 23.281 v17.1.0 CR-0141 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell, Kontron Transportation*

**Abstract:**

Adding a note explaining the representation of servers acting in participating or controlling role within the procedures.

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

**S6-200041 Clarification on procedures related to server to server communication**

*Type: CR For: Agreement  
 23.282 v17.1.0 CR-0198 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell, Kontron Transportation*

**Abstract:**

Adding a note explaining the representation of servers acting in participating or controlling role within the procedures.

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

**S6-200019 Add announced call transfer for MCPTT private calls**

*Type: CR For: Agreement  
 23.379 v17.1.0 CR-0246 Cat: B (Rel-17)  
  
 Source: Kontron Transportation France*

**Abstract:**

The contribution proposes adding a new procedure for MCPTT announced private call transfer.

**Discussion:**

Kontron presented the document available as S6-200019.

**Decision:** The document was **revised to S6-200175**.

**S6-200175 Add announced call transfer for MCPTT private calls**

*Type: CR For: Agreement  
 23.379 v17.1.0 CR-0246 rev 1 Cat: B (Rel-17)  
  
 Source: Kontron Transportation France*

(Replaces S6-200019)

**Discussion:**

Kontron presented the document available as S6-200175.

**Decision:** The document was **revised to S6-200207**.

**S6-200207 Add announced call transfer for MCPTT private calls**

*Type: CR For: Agreement  
 23.379 v17.1.0 CR-0246 rev 2 Cat: B (Rel-17)  
  
 Source: Kontron Transportation France*

(Replaces S6-200175)

**Abstract:**

The contribution proposes adding a new procedure for MCPTT private call announced redirection and changing name from transfer to redirection.

**Discussion:**

Kontron presented the document available as S6-200207.

Some offline further discussion needed.

**Decision:** The document was **revised to S6-200277**.

**S6-200277 Add announced call transfer for MCPTT private calls**

*Type: CR For: Agreement  
 23.379 v17.1.0 CR-0246 rev 3 Cat: B (Rel-17)  
  
 Source: Kontron Transportation France*

(Replaces S6-200207)

**Discussion:**

Revised prior to presentation.

**Decision:** The document was **revised to S6-200314**.

**S6-200314 Add announced call redirection for MCPTT private calls**

*Type: CR For: Agreement  
 23.379 v17.1.0 CR-0246 rev 4 Cat: B (Rel-17)  
  
 Source: Kontron Transportation France*

(Replaces S6-200277)

**Discussion:**

Kontron presented the document available as S6-200314.

AT&T suggested to move the editor's note in clause 10.7.6.2.1 under step 10 and the one in clause 10.7.6.2.2 under step 15.

The only changes are moving the editor's note:

- in 10.7.6.2.1 under step 10 and

- in 10.7.6.2.2 under step 15.

With the above changes the revised contribution, S6-200332, is considered pre-agreed.

**Decision:** The document was **revised to S6-200332**.

**S6-200332 Add announced call redirection for MCPTT private calls**

*Type: CR For: Agreement  
 23.379 v17.1.0 CR-0246 rev 5 Cat: B (Rel-17)  
  
 Source: Kontron Transportation France*

(Replaces S6-200314)

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

**S6-200020 Add call deflection for MCPTT private calls**

*Type: CR For: Agreement  
 23.379 v17.1.0 CR-0247 Cat: B (Rel-17)  
  
 Source: Kontron Transportation France*

**Discussion:**

Kontron presented the document available as S6-200020.

**Decision:** The document was **revised to S6-200176**.

**S6-200176 Add call deflection for MCPTT private calls**

*Type: CR For: Agreement  
 23.379 v17.1.0 CR-0247 rev 1 Cat: B (Rel-17)  
  
 Source: Kontron Transportation France*

(Replaces S6-200020)

**Discussion:**

Kontron presented the document available as S6-200176.

**Decision:** The document was **revised to S6-200208**.

**S6-200208 Add call deflection for MCPTT private calls**

*Type: CR For: Agreement  
 23.379 v17.1.0 CR-0247 rev 2 Cat: B (Rel-17)  
  
 Source: Kontron Transportation France*

(Replaces S6-200176)

**Abstract:**

The contribution proposes adding new information flows and modify procedures.

**Discussion:**

Kontron presented the document available as S6-200208.

Some offline further discussion needed.

**Decision:** The document was **revised to S6-200278**.

**S6-200278 Add call deflection for MCPTT private calls**

*Type: CR For: Agreement  
 23.379 v17.1.0 CR-0247 rev 3 Cat: B (Rel-17)  
  
 Source: Kontron Transportation France*

(Replaces S6-200208)

**Discussion:**

Revised prior to presentation.

**Decision:** The document was **revised to S6-200315**.

**S6-200315 Add call deflection for MCPTT private calls**

*Type: CR For: Agreement  
 23.379 v17.1.0 CR-0247 rev 4 Cat: B (Rel-17)  
  
 Source: Kontron Transportation France*

(Replaces S6-200278)

**Discussion:**

Kontron presented the document available as S6-200315.

AT&T suggested to move the editor's note in clause 10.7.5.2.3 under step 17.

The only changes are moving the editor's note:

- in 10.7.5.2.3 under step 17 and

- adding a note on the cover page about dependency with the CR in S6-200332.

With the above changes the revised contribution, S6-200333, is considered pre-agreed.

**Decision:** The document was **revised to S6-200333**.

**S6-200333 Add call deflection for MCPTT private calls**

*Type: CR For: Agreement  
 23.379 v17.1.0 CR-0247 rev 5 Cat: B (Rel-17)  
  
 Source: Kontron Transportation France*

(Replaces S6-200315)

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

**S6-200023 Enhancing MCPTT communication requests with application priority capabilities in on-network mode**

*Type: CR For: Agreement  
 23.379 v17.1.0 CR-0249 Cat: B (Rel-17)  
  
 Source: UIC*

**Discussion:**

UIC presented the document available as S6-200023.

**Decision:** The document was **revised to S6-200177**.

**S6-200177 Enhancing MCPTT communication requests with application priority capabilities in on-network mode**

*Type: CR For: Agreement  
 23.379 v17.1.0 CR-0249 rev 1 Cat: B (Rel-17)  
  
 Source: UIC*

(Replaces S6-200023)

**Discussion:**

UIC presented the document available as S6-200177.

The only change is to remove all occurrences of NOTE2.

With the above changes the revised contribution, S6-200209, is considered pre-agreed.

**Decision:** The document was **revised to S6-200209**.

**S6-200209 Enhancing MCPTT communication requests with application priority capabilities in on-network mode**

*Type: CR For: Agreement  
 23.379 v17.1.0 CR-0249 rev 2 Cat: B (Rel-17)  
  
 Source: UIC*

(Replaces S6-200177)

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

**S6-200024 Enhancing MCVideo communication requests with application priority capabilities in on-network mode**

*Type: CR For: Agreement  
 23.281 v17.1.0 CR-0139 Cat: B (Rel-17)  
  
 Source: UIC*

**Discussion:**

UIC presented the document available as S6-200024.

**Decision:** The document was **revised to S6-200178**.

**S6-200178 Enhancing MCVideo communication requests with application priority capabilities in on-network mode**

*Type: CR For: Agreement  
 23.281 v17.1.0 CR-0139 rev 1 Cat: B (Rel-17)  
  
 Source: UIC*

(Replaces S6-200024)

**Decision:** The document was **revised to S6-200210**.

**S6-200210 Enhancing MCVideo communication requests with application priority capabilities in on-network mode**

*Type: CR For: Agreement  
 23.281 v17.1.0 CR-0139 rev 2 Cat: B (Rel-17)  
  
 Source: UIC*

(Replaces S6-200178)

**Discussion:**

UIC presented the document available as S6-200210.

The only change is to uncheck the UICC box and check the ME check box on the cover page.

With the above change the revised contribution, S6-200279, is considered pre-agreed.

**Decision:** The document was **revised to S6-200279**.

**S6-200279 Enhancing MCVideo communication requests with application priority capabilities in on-network mode**

*Type: CR For: Agreement  
 23.281 v17.1.0 CR-0139 rev 3 Cat: B (Rel-17)  
  
 Source: UIC*

(Replaces S6-200210)

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

**S6-200034 Clarification on functional alias to group binding function**

*Type: CR For: Approval  
 23.379 v17.1.0 CR-0250 Cat: F (Rel-17)  
  
 Source: ZTE Trunking Technology Corp.*

**Discussion:**

ZTE presented the document available as S6-200034.

**Decision:** The document was **revised to S6-200179**.

**S6-200179 Clarification on functional alias to group binding function**

*Type: CR For: Approval  
 23.379 v17.1.0 CR-0250 rev 1 Cat: F (Rel-17)  
  
 Source: ZTE Trunking Technology Corp.*

(Replaces S6-200034)

**Discussion:**

ZTE presented the document available as S6-200179.

**Decision:** The document was **revised to S6-200211**.

**S6-200211 Clarification on functional alias to group binding function**

*Type: CR For: Approval  
 23.379 v17.1.0 CR-0250 rev 2 Cat: F (Rel-17)  
  
 Source: ZTE Trunking, Motorola Solutions*

(Replaces S6-200179)

**Discussion:**

ZTE presented the document available as S6-200211.

It was noted that Motorola Solutions was now co-author.

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

**S6-200035 Alignment of functional alias to group binding handling in MCVideo**

*Type: CR For: (not specified)  
 23.281 v17.1.0 CR-0140 Cat: B (Rel-17)  
  
 Source: ZTE Trunking Technology Corp.*

**Discussion:**

ZTE presented the document available as S6-200035.

**Decision:** The document was **revised to S6-200180**.

**S6-200180 Alignment of functional alias to group binding handling in MCVideo**

*Type: CR For: -  
 23.281 v17.1.0 CR-0140 rev 1 Cat: B (Rel-17)  
  
 Source: ZTE Trunking Technology Corp.*

(Replaces S6-200035)

**Discussion:**

ZTE presented the document available as S6-200180.

**Decision:** The document was **revised to S6-200212**.

**S6-200212 Alignment of functional alias to group binding handling in MCVideo**

*Type: CR For: -  
 23.281 v17.1.0 CR-0140 rev 2 Cat: B (Rel-17)  
  
 Source: ZTE Trunking, Motorola Solutions*

(Replaces S6-200180)

**Discussion:**

ZTE presented the document available as S6-200212.

It was noted that Motorola Solutions was now co-author.

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

**S6-200042 Introducing a functional alias as target address for private calls**

*Type: CR For: Agreement  
 23.281 v17.1.0 CR-0142 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Adding function alias as target address to the information flows and describe the handling of the functional alias within the procedures.

**Discussion:**

Nokia presented the document available as S6-200042.

**Decision:** The document was **revised to S6-200181**.

**S6-200181 Introducing a functional alias as target address for private calls**

*Type: CR For: Agreement  
 23.281 v17.1.0 CR-0142 rev 1 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S6-200042)

**Discussion:**

Nokia presented the document available as S6-200181.

**Decision:** The document was **revised to S6-200213**.

**S6-200213 Introducing a functional alias as target address for private calls**

*Type: CR For: Agreement  
 23.281 v17.1.0 CR-0142 rev 2 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S6-200181)

**Discussion:**

Nokia presented the document available as S6-200213.

Nokia suggested to bring in a solution (to the next meeting) instead of agreeing the editor's note as initially planned.

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

**S6-200043 Adding missing server to server information flows for group calls**

*Type: CR For: Agreement  
 23.281 v17.1.0 CR-0143 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Adds missing server to server information flows for group calls.

**Discussion:**

Nokia presented the document available as S6-200043.

**Decision:** The document was **revised to S6-200182**.

**S6-200182 Adding missing server to server information flows for group calls**

*Type: CR For: Agreement  
 23.281 v17.1.0 CR-0143 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S6-200043)

**Discussion:**

Nokia presented the document available as S6-200182.

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

**S6-200044 Adding missing server to server information flows for private calls**

*Type: CR For: Agreement  
 23.281 v17.1.0 CR-0144 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Adds missing server to server information flows for private calls.

**Discussion:**

Nokia presented the document available as S6-200044.

**Decision:** The document was **revised to S6-200183**.

**S6-200183 Adding missing server to server information flows for private calls**

*Type: CR For: Agreement  
 23.281 v17.1.0 CR-0144 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S6-200044)

**Discussion:**

Nokia presented the document available as S6-200183.

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

**S6-200025 Gateway UE**

*Type: other For: Endorsement  
 23.280 v..  
 Source: UIC*

**Abstract:**

In TR 23.796 the topic gateway UE was brought up in the discussion. However, the fundamental approaches to this have not been fully accomplished. The present presentation is intended to discuss possible approaches and work out their differences.

**Discussion:**

UIC presented the document available as S6-200025.

Initial discussion during track 1. Question (to SA6 main session): should this be added to existing TR or should we start a new study item.

The main session concluded that a study item on the topic is expected.

Whether open/using an existing TR is feasible, will be checked offline.

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

**S6-200188 Purpose of requested priority**

*Type: CR For: Agreement  
 23.280 v17.1.0 CR-236 Cat: B (Rel-17)  
  
 Source: UIC*

**Discussion:**

UIC presented the document available as S6-200188.

**Decision:** The document was **revised to S6-200206**.

**S6-200206 Purpose of requested priority**

*Type: CR For: Agreement  
 23.280 v17.1.0 CR-236 rev 1 Cat: B (Rel-17)  
  
 Source: UIC*

(Replaces S6-200188)

**Discussion:**

UIC presented the document available as S6-200206.

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

### 10.2 MCIOPS – MC services support on IOPS mode of operation

**S6-200056 Pseudo-CR on adding a requirement for IOPS MC system to support UE mobility**

*Type: pCR For: (not specified)  
 23.180 v0.2.0  
 Source: ZTE Trunking Technology Corp.*

**Abstract:**

Considering that issues are probably caused by MC UE mobility in IOPS mode, and to ensure the user experience the contribution proposes the IOPS system should support MC UE mobility.

**Discussion:**

ZTE presented the document available as S6-200056.

**Decision:** The document was **revised to S6-200184**.

**S6-200184 Pseudo-CR on adding a requirement for IOPS MC system to support UE mobility**

*Type: pCR For: -  
 23.180 v0.2.0  
 Source: ZTE Trunking Technology Corp.*

(Replaces S6-200056)

**Discussion:**

ZTE presented the document available as S6-200184.

The only change is in requirement AR-5.1.2-c, to replace "..IOPS EPS coverage.." with "..IOPS MC system..".

With the above change the revised contribution, S6-200280, is considered pre-approved.

**Decision:** The document was **revised to S6-200280**.

**S6-200280 Pseudo-CR on adding a requirement for IOPS MC system to support UE mobility**

*Type: pCR For: -  
 23.180 v0.2.0  
 Source: ZTE Trunking Technology Corp.*

(Replaces S6-200184)

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

**S6-200094 Pseudo-CR on IOPS discovery update**

*Type: pCR For: Approval  
 23.180 v0.2.0  
 Source: Ericsson*

**Discussion:**

Ericsson presented the (late) document available as S6-200094.

The only change is adding the below text to NOTE2:

NOTE 2: The IOPS MC connectivity function shall send a new IOPS discovery response to the IOPS connectivity client for the case that the periodic IOPS discovery request has not been received yet or when the periodicity needs to be changed. The IOPS MC connectivity function can verify the availability and IP connectivity information of the MC user within the IOPS system.

With the above change the revised contribution, S6-200185, is considered pre-approved.

**Decision:** The document was **revised to S6-200185**.

**S6-200185 Pseudo-CR on IOPS discovery update**

*Type: pCR For: Approval  
 23.180 v0.2.0  
 Source: Ericsson*

(Replaces S6-200094)

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

**S6-200095 Pseudo-CR on MCPTT private call in IOPS – Call setup in manual commencement mode**

*Type: pCR For: Approval  
 23.180 v0.2.0  
 Source: Ericsson*

**Discussion:**

Ericsson presented the document available as S6-200095.

The only changes are in clause 10.5.2.2.2 to:

- change the description of SDP answer for private call into “SDP with media parameters selected”

-remove “Failure reason”

With the above change the revised contribution, S6-200186, is considered pre-approved.

**Decision:** The document was **revised to S6-200186**.

**S6-200186 Pseudo-CR on MCPTT private call in IOPS – Call setup in manual commencement mode**

*Type: pCR For: Approval  
 23.180 v0.2.0  
 Source: Ericsson*

(Replaces S6-200095)

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

**S6-200096 Pseudo-CR on MCPTT private call in IOPS – Call release**

*Type: pCR For: Approval  
 23.180 v0.2.0  
 Source: Ericsson*

**Discussion:**

Ericsson presented the document available as S6-200096.

The only changes are to:

- in clause 10.5.2.2.x – remove the text “target client requested”

- in clause 10.5.2.2.y remove the IE “MCPTT private call release reason”

With the above change the revised contribution, S6-200187, is considered pre-approved.

**Decision:** The document was **revised to S6-200187**.

**S6-200187 Pseudo-CR on MCPTT private call in IOPS – Call release**

*Type: pCR For: Approval  
 23.180 v0.2.0  
 Source: Ericsson*

(Replaces S6-200096)

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

**S6-200097 Pseudo-CR on Removing Editor’s Note from the IOPS MCPTT group call procedure**

*Type: pCR For: Approval  
 23.180 v0.2.0  
 Source: Ericsson*

**Discussion:**

Ericsson presented the document available as S6-200097.

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

**S6-200098 pCR on Editorial changes to TS 23.180**

*Type: pCR For: Approval  
 23.180 v0.2.0  
 Source: Ericsson*

**Discussion:**

Ericsson presented the document available as S6-200098.

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

### 10.3 eMCData3 – Enhancements for functional architecture and information flows for Mission Critical Data

**S6-200065 Corrections and enhancements to IP Connectivity**

*Type: CR For: Agreement  
 23.282 v17.1.0 CR-0199 Cat: F (Rel-17)  
  
 Source: AT&T GNS Belgium SPRL*

**Abstract:**

Corrections and enhancements to IP Connectivity.

**Discussion:**

AT&T presented the document available as S6-200065.

**Decision:** The document was **revised to S6-200189**.

**S6-200189 Corrections and enhancements to IP Connectivity**

*Type: CR For: Agreement  
 23.282 v17.1.0 CR-0199 rev 1 Cat: C (Rel-17)  
  
 Source: AT&T GNS Belgium SPRL*

(Replaces S6-200065)

**Discussion:**

AT&T presented the document available as S6-200189.

Motorola Solutions made a remark that the numbering of the notes in clause 7.14.2.6.2 are incorrect.

Also, the other specs affected check boxes on the cover page should be updated.

**Decision:** The document was **revised to S6-200281**.

**S6-200281 Corrections and enhancements to IP Connectivity**

*Type: CR For: Agreement  
 23.282 v17.1.0 CR-0199 rev 2 Cat: C (Rel-17)  
  
 Source: AT&T GNS Belgium SPRL*

(Replaces S6-200189)

**Discussion:**

AT&T presented the document available as S6-200281.

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

**S6-200086 Enhancements and clarifications for file repair and file delivery using MBMS**

*Type: CR For: Approval  
 23.282 v17.1.0 CR-0200 Cat: C (Rel-17)  
  
 Source: AT&T*

**Discussion:**

AT&T presented the document available as S6-200086.

**Decision:** The document was **revised to S6-200190**.

**S6-200190 Enhancements and clarifications for file repair and file delivery using MBMS**

*Type: CR For: Approval  
 23.282 v17.1.0 CR-0200 rev 1 Cat: A (Rel-17)  
  
 Source: AT&T*

(Replaces S6-200086)

**Discussion:**

Revised as a result of S6-200191 being revised.

**Decision:** The document was **revised to S6-200273**.

**S6-200273 Enhancements and clarifications for file repair and file delivery using MBMS**

*Type: CR For: Approval  
 23.282 v17.1.0 CR-0200 rev 2 Cat: A (Rel-17)  
  
 Source: AT&T*

(Replaces S6-200190)

**Discussion:**

Agreed as a result of S6-200272 being agreed.

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

**S6-200191 Enhancements and clarifications for file repair and file delivery using MBMS**

*Type: CR For: Agreement  
 23.282 v16.5.0 CR-0205 Cat: F (Rel-16)  
  
 Source: AT&T*

**Abstract:**

This CR attempts to further address the solutions and clarify / document the issues, as follows:

1. File repair is applicable to all incomplete downloads not just MBMS.

2. SA4’s MBMS User Service part that could be used for MBMS repair, would be outside the security trust domain, thus not acceptable

3. The file repair can be based on partial transfer of data and is executed between the MCData content server and the media storage client.

4. How to provide end-to-end encryption in case of file repair still needs to be decided (currently is FFS).

5. There seems to be some confused text and conflation of concepts and procedures between MBMS User Service and xMB interface. This CR clarifies that in case of file distribution using MBMS it is possible:

a) To use MB2, without using MBMS User Service

b) To use MB2 with MBMS User Service

c) To use xMB with MBMS User Service.

**Discussion:**

AT&T presented the document available as S6-200191.

Ericsson suggested deleting the changes related to sub-bullet 5b on the cover page.

Qualcomm made the remark that the "..MCData may use the xMB interface specified.." should read "..MCData uses the xMB interface specified.." or "..MCData shall use the xMB interface specified..".

The mirror CR in S6-200190 is revised accordingly.

**Decision:** The document was **revised to S6-200272**.

**S6-200272 Enhancements and clarifications for file repair and file delivery using MBMS**

*Type: CR For: Agreement  
 23.282 v16.5.0 CR-0205 rev 1 Cat: F (Rel-16)  
  
 Source: AT&T*

(Replaces S6-200191)

**Discussion:**

AT&T presented the document available as S6-200272.

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

**S6-200149 Clarification on prepending the MCData content server URI**

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

**Discussion:**

Samsung presented the document available as S6-200149.

**Decision:** The document was **revised to S6-200192**.

**S6-200192 Clarification on prepending the MCData content server URI**

*Type: CR For: Agreement  
 23.282 v16.5.0 CR-0203 rev 1 Cat: F (Rel-16)  
  
 Source: Samsung*

(Replaces S6-200149)

**Discussion:**

Samsung presented the document available as S6-200192.

It was noted that the check boxes should be checked with "X" (not "Y").

The Police of Netherlands suggested some rewording of the bullet 5.

The mirror CR in S6-200193 is revised accordingly.

**Decision:** The document was **revised to S6-200274**.

**S6-200274 Clarification on prepending the MCData content server URI**

*Type: CR For: Agreement  
 23.282 v16.5.0 CR-0203 rev 2 Cat: F (Rel-16)  
  
 Source: Samsung*

(Replaces S6-200192)

**Discussion:**

Samsung presented the document available as S6-200274.

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

**S6-200146 Clarification on prepending the MCData content server URI**

*Type: CR For: Agreement  
 23.282 v17.1.0 CR-0201 Cat: F (Rel-17)  
  
 Source: Samsung*

**Discussion:**

Samsung presented the document available as S6-200146.

**Decision:** The document was **revised to S6-200193**.

**S6-200193 Clarification on prepending the MCData content server URI**

*Type: CR For: Agreement  
 23.282 v17.1.0 CR-0201 rev 1 Cat: A (Rel-17)  
  
 Source: Samsung*

(Replaces S6-200146)

**Discussion:**

Revised as a result of S6-200192 being revised.

**Decision:** The document was **revised to S6-200275**.

**S6-200275 Clarification on prepending the MCData content server URI**

*Type: CR For: Agreement  
 23.282 v17.1.0 CR-0201 rev 2 Cat: A (Rel-17)  
  
 Source: Samsung*

(Replaces S6-200193)

**Discussion:**

Samsung presented the document available as S6-200275.

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

**S6-200150 Inclusion of MCData content server address in initial UE configuration**

*Type: CR For: Agreement  
 23.280 v16.5.0 CR-0235 Cat: A (Rel-16)  
  
 Source: Samsung*

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

**S6-200147 Inclusion of MCData content server address in initial UE configuration**

*Type: CR For: Agreement  
 23.280 v17.1.0 CR-0234 Cat: F (Rel-17)  
  
 Source: Samsung*

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

**S6-200151 Local policies at Partner MCData system is not applied**

*Type: CR For: Agreement  
 23.282 v16.5.0 CR-0204 Cat: A (Rel-16)  
  
 Source: Samsung*

**Discussion:**

Samsung presented the document available as S6-200151.

The only changes are ;

- changing the category to Cat F and

- WI code from eMCData3 to eMCData2.

With the above change the revised contribution, S6-200194, is considered pre-agreed.

**Decision:** The document was **revised to S6-200194**.

**S6-200194 Local policies at Partner MCData system is not applied**

*Type: CR For: Agreement  
 23.282 v16.5.0 CR-0204 rev 1 Cat: F (Rel-16)  
  
 Source: Samsung*

(Replaces S6-200151)

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

**S6-200148 Local policies at Partner MCData system is not applied**

*Type: CR For: Agreement  
 23.282 v17.1.0 CR-0202 Cat: F (Rel-17)  
  
 Source: Samsung*

**Discussion:**

Samsung presented the document available as S6-200148.

The only changes are ;

- Cat A and

- WI code eMCData2

With the above change the revised contribution, S6-200195, is considered pre-agreed.

**Decision:** The document was **revised to S6-200195**.

**S6-200195 Local policies at Partner MCData system is not applied**

*Type: CR For: Agreement  
 23.282 v17.1.0 CR-0202 rev 1 Cat: F (Rel-17)  
  
 Source: Samsung*

(Replaces S6-200148)

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

### 10.4 EDGEAPP – Architecture for enabling Edge Applications

**S6-200107 Proposed skeleton for TS 23.558**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Samsung Electronics*

**Abstract:**

This contribution provides a proposal for the structure of TS 23.558 on architecture for enabling Edge Applications (EDGEAPP).

**Discussion:**

Samsung presented the document available as S6-200107.

Qualcomm suggested moving the deployment models into an informative annex.

Huawei suggested replacing the term architectural elements with functional entities.

Also, some further changes to the structure were proposed.

**Decision:** The document was **revised to S6-200223**.

**S6-200223 Proposed skeleton for TS 23.558**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Samsung Electronics*

(Replaces S6-200107)

**Discussion:**

Samsung presented the document available as S6-200223.

It was suggested to rephrase the Annex B title to read "Involved entities, actors and relationships".

InterDigital pointed out that the document history should be the last annex.

The only changes are:

- removing clause 7.3

- rewording the Annex B title to read "Involved entities, actors and relationships" and

- making history the last Annex.

With the above changes the revised contribution, S6-200283, is considered pre-approved.

**Decision:** The document was **revised to S6-200283**.

**S6-200283 Proposed skeleton for TS 23.558**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Samsung Electronics*

(Replaces S6-200223)

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

**S6-200108 Pseudo-CR on Introduction and Scope**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Samsung Electronics*

**Discussion:**

Samsung presented the document available as S6-200108.

Vodafone suggested replacing "..supporting the .." with "..satisfying the ..".

CATT suggested deleting the "..supporting the architecture requirements.." all together.

Intel pointed out they had a contribution (S6-200061) on the scope that could be merged with the revision of the present contribution.

Qualcomm suggested deleting "several".

**Decision:** The document was **revised to S6-200224**.

**S6-200224 Pseudo-CR on Introduction and Scope**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Samsung Electronics, Intel Corporation (UK) Ltd*

(Replaces S6-200108)

**Discussion:**

Samsung presented the document available as S6-200224.

Qualcomm suggested replacing "The technical specification .." with "It..".

Ericsson suggested using the term facilitating instead of enabling.

**Decision:** The document was **revised to S6-200284**.

**S6-200284 Pseudo-CR on Introduction and Scope**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Samsung Electronics, Intel Corporation (UK) Ltd*

(Replaces S6-200224)

**Discussion:**

Samsung presented the document available as S6-200284.

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

**S6-200061 Pseudo-CR on Scope**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Intel Corporation (UK) Ltd*

**Discussion:**

Intel presented the document available as S6-200061.

The document was merged in to S6-200224.

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

**S6-200109 Pseudo-CR on Architecture Principles**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Samsung Electronics*

**Discussion:**

Samsung presented the document available as S6-200109.

Qualcomm made a remark that some rewording was needed e.g. with regard to clause 5.2.5.

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

**S6-200110 Pseudo-CR on General requirements**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Samsung Electronics*

**Abstract:**

This document provides general requirements for the architecture.

**Discussion:**

Samsung presented the document available as S6-200110.

**Decision:** The document was **revised to S6-200225**.

**S6-200225 Pseudo-CR on General requirements**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Samsung Electronics*

(Replaces S6-200110)

**Discussion:**

Samsung presented the document available as S6-200225.

Qualcomm suggest replacing in requirement AR-5.3.1.2-c "..shall be compliant with the 3GPP network." with "..shall be compatible with the 3GPP system architecture.".

**Decision:** The document was **revised to S6-200285**.

**S6-200285 Pseudo-CR on General requirements**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Samsung Electronics, Ericsson*

(Replaces S6-200225)

**Discussion:**

Samsung presented the document available as S6-200285.

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

**S6-200111 Pseudo-CR on Requirements for Edge Data Network configuration data**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Samsung Electronics*

**Abstract:**

This document provides requirements for the architecture related to Edge Data Network configuration data.

**Discussion:**

Samsung presented the document available as S6-200111.

Ericsson suggested rephrasing the clause 5.2 title "Edge Data Network configuration data" with "Edge Data Network discovery/access".

Qualcomm suggested rewording the "..access the Edge Data Network(s)." with e.g. "..access the Edge services on Edge Data Network(s)."

It was also suggested replacing "..UE to access.." with "..UE to enable Application Client(s) to access..".

Qualcomm also raised the question whether the requirement was needed at all.

**Decision:** The document was **revised to S6-200226**.

**S6-200226 Pseudo-CR on Requirements for Edge Data Network configuration data**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Samsung Electronics*

(Replaces S6-200111)

**Discussion:**

Samsung presented the document available as S6-200226.

**Decision:** The document was **revised to S6-200286**.

**S6-200286 Pseudo-CR on Requirements for Edge Data Network configuration data**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Samsung Electronics*

(Replaces S6-200226)

**Discussion:**

Samsung presented the document available as S6-200286.

Ericsson wished it to be recorded that they don't support listing specific entities in the requirements in the enabler layer.

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

**S6-200112 Pseudo-CR on Requirements for Edge Enabler Client registration**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Samsung Electronics*

**Abstract:**

This document provides requirements for the architecture related to Edge Enabler Client registration.

**Discussion:**

Samsung presented the document available as S6-200112.

Qualcomm suggested replacing in the requirements the term UE with Edge Enabler Client.

**Decision:** The document was **revised to S6-200227**.

**S6-200227 Pseudo-CR on Requirements for Edge Enabler Client registration**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Samsung Electronics*

(Replaces S6-200112)

**Discussion:**

Samsung presented the document available as S6-200227.

Qualcomm suggested clarifying the "relevant changes" in the requirement.

**Decision:** The document was **revised to S6-200287**.

**S6-200287 Pseudo-CR on Requirements for Edge Enabler Client registration**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Samsung Electronics*

(Replaces S6-200227)

**Discussion:**

Revised prior to presentation.

**Decision:** The document was **revised to S6-200334**.

**S6-200334 Pseudo-CR on Requirements for Edge Enabler Client registration**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Samsung Electronics*

(Replaces S6-200287)

**Discussion:**

Samsung presented the document available as S6-200334.

Ericsson wished it to be recorded that they don't support listing specific entities in the requirements in the enabler layer.

The only changes are:

- replacing "Ehat" with What" and

- replacing "a Edge Enabler Client" with "an Edge Enabler Client".

With the above changes the revised contribution, S6-200338, is considered pre-approved.

**Decision:** The document was **revised to S6-200338**.

**S6-200338 Pseudo-CR on Requirements for Edge Enabler Client registration**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Samsung Electronics*

(Replaces S6-200334)

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

**S6-200113 Pseudo-CR on Requirements for Edge Application Server enablement**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Samsung Electronics*

**Abstract:**

This document provides requirements for the architecture related to Edge Application Server enablement.

**Discussion:**

Samsung presented the document available as S6-200113.

AT&T raised some concern with the usefulness of the registration.

**Decision:** The document was **revised to S6-200228**.

**S6-200228 Pseudo-CR on Requirements for Edge Application Server enablement**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Samsung Electronics, Nokia, Nokia Shanghai Bell, Vodafone*

(Replaces S6-200113)

**Discussion:**

Samsung presented the document available as S6-200228.

Qualcomm raised a concern with the term "time related information".

Ericsson raised a concern with the requirements AR-5.3.3.3-g and AR-5.3.3.3-h.

**Decision:** The document was **revised to S6-200288**.

**S6-200288 Pseudo-CR on Requirements for Edge Application Server enablement**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Samsung Electronics, Nokia, Nokia Shanghai Bell, Vodafone*

(Replaces S6-200228)

**Discussion:**

Samsung presented the document available as S6-200288.

Ericsson wished it to be recorded that they don't support listing specific entities in the requirements in the enabler layer.

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

**S6-200114 Pseudo-CR on Requirements for Edge Application Server discovery**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Samsung Electronics*

**Abstract:**

This document provides requirements for the architecture related to Edge Application Server discovery.

**Discussion:**

Samsung presented the document available as S6-200114.

Ericsson was wondering what was meant with configuration data, they also thought the requirements a and b were the same.

AT&T suggested replacing "relevant configurations of" with "relevant configuration information of".

**Decision:** The document was **revised to S6-200229**.

**S6-200229 Pseudo-CR on Requirements for Edge Application Server discovery**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Samsung Electronics*

(Replaces S6-200114)

**Discussion:**

Samsung presented the document available as S6-200229.

Ericsson suggested replacing "Edge Enabler Client" with "UE" in the requirement [AR-5.3.5.2-b] .

CATT shared the view of Ericsson.

It was suggested to replace in [AR-5.3.5.2-a] "available" with "available or potentially available".

**Decision:** The document was **revised to S6-200289**.

**S6-200289 Pseudo-CR on Requirements for Edge Application Server discovery**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Samsung Electronics*

(Replaces S6-200229)

**Discussion:**

Samsung presented the document available as S6-200289.

Ericsson wished it to be recorded that they don't support listing specific entities in the requirements in the enabler layer.

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

**S6-200115 Pseudo-CR on Requirements for Capability exposure to Edge Application Servers**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Samsung Electronics*

**Abstract:**

This document provides requirements for the architecture related to Capability exposure to Edge Application Servers.

**Discussion:**

Samsung presented the document available as S6-200115.

It was suggested to rephrase "..shall support for exposure.." with "..shall support Edge capability exposure..".

Qualcomm suggested rephrasing the requirement to read "The architecture shall support Edge Application Server to access network capability exposure of 3GPP network's capabilities."

Deutsche Telekom proposed a new requirement along the line of "Network capability exposure to EEC"

**Decision:** The document was **revised to S6-200230**.

**S6-200230 Pseudo-CR on Requirements for Capability exposure to Edge Application Servers**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Samsung Electronics*

(Replaces S6-200115)

**Discussion:**

Samsung presented the document available as S6-200230.

Huawei suggested rewording the requirement as it seems to suggest a solution.

The only change is to delete the "through the Edge Enabler Server" from the requirement.

With the above change the revised contribution, S6-200294, is considered pre-approved.

**Decision:** The document was **revised to S6-200294**.

**S6-200294 Pseudo-CR on Requirements for Capability exposure to Edge Application Servers**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Samsung Electronics, Ericsson*

(Replaces S6-200230)

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

**S6-200116 Pseudo-CR on Requirements for Security**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Samsung Electronics*

**Abstract:**

This document provides requirements for the architecture related to security.

**Discussion:**

Samsung presented the document available as S6-200116.

Qualcomm suggested clarifying whether requirements a) and b) were for the case where MNO is providing those services.

AT&T suggested replacing "..credentials for different deployment needs.." with "..credentials or both for different deployment needs..".

Vodafone suggested rephrasing in requirements a) and b) "..to authorize the usage of Edge Computing services.." to read "to authorize the usage of their Edge Computing services".

Qualcomm proposed:

- replacing the requirements, a) and b) with "The architecture shall provide mechanims for the Edge Comp service provider to authorise usage of Edge Computing services by the UE."

- sending an LS to SA3 before agreeing such a pCR.

The chairman noted that it could also be feasible to add an editor's note to reflect the responsibility of SA3 security related solutions.

**Decision:** The document was **revised to S6-200231**.

**S6-200231 Pseudo-CR on Requirements for Security**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Samsung Electronics*

(Replaces S6-200116)

**Discussion:**

Samsung presented the document available as S6-200231.

Qualcomm suggested rewording in the Edge Computing Service Provider definition "or a trusted 3rd party service provider" with "or a 3rd party service provider".

There was a discussion initiated by Ericsson on why the contribution here mentions entities while we have "avoided" them until now (see [AR-5.3.7.2-f, g, h, i]).

Qualcomm suggested referring to any clients and servers that interact.

**Decision:** The document was **revised to S6-200295**.

**S6-200295 Pseudo-CR on Requirements for Security**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Samsung Electronics*

(Replaces S6-200231)

**Discussion:**

Samsung presented the document available as S6-200295.

Qualcomm suggested deleting the word trusted.

InterDigital raised a comment about the Editor's Note on security requirements.

Ericsson wished it to be recorded that they don't support listing specific entities in the requirements in the enabler layer.

The only changes are

- deleting the word trusted from the Edge Computing Service Provider definition and

- Converting the Editor's Note into a NOTE the actual statement remaining unchanged i.e. " Security requirements are in the scope of SA3 to resolve.".

With the above changes the revised contribution, S6-200339, is considered pre-approved.

**Decision:** The document was **revised to S6-200339**.

**S6-200339 Pseudo-CR on Requirements for Security**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Samsung Electronics*

(Replaces S6-200295)

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

**S6-200081 Pseudo-CR on Architecture requirement for edge application enabler**

*Type: pCR For: (not specified)  
 23.558 v0.0.0  
 Source: Ericsson*

**Abstract:**

TS 23.558 is missing the architecture requirement for enabling edge application.

**Discussion:**

Ericsson presented the document available as S6-200081.

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

**S6-200130 EDN definition**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Huawei, Hisilicon*

**Abstract:**

This contribution proposes the EDN definition.

**Discussion:**

Huawei presented the document available as S6-200130.

**Decision:** The document was **revised to S6-200324**.

**S6-200324 EDN definition**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Huawei, Hisilicon*

(Replaces S6-200130)

**Discussion:**

Huawei presented the document available as S6-200324.

The only changes are:

- deleting the definition of Local Data Network and

- in the definition of Edge Data Network replace "Local Data Network" with "local Data Network".

With the above changes the revised contribution, S6-200352, is considered pre-approved.

**Decision:** The document was **revised to S6-200352**.

**S6-200352 EDN definition**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Huawei, Hisilicon*

(Replaces S6-200324)

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

**S6-200100 Pseudo-CR on definitions**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: CATT*

**Abstract:**

This contribution defines terms for the specification.

**Discussion:**

CATT presented the document available as S6-200100.

Qualcomm raised the question of the actual usage of these proposed terms.

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

**S6-200101 Pseudo-CR on identities**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: CATT*

**Abstract:**

This contribution defines identities for the specification.

**Discussion:**

CATT presented the document available as S6-200101.

Huawei did not think that a specific ID was required for every Edge Enabler Service Instance.

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

**S6-200102 Pseudo-CR on requirements for edge application announcement and update**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: CATT*

**Abstract:**

This contribution addresses requirements for edge application announcement and update.

**Discussion:**

CATT presented the document available as S6-200102.

Qualcomm did not think that the EDN should be consuming service resources.

Vodafone was of the view that the roles should be the inversed in the first paragraph.

It was also suggested to rephrase the clause 5.3.2.

**Decision:** The document was **revised to S6-200232**.

**S6-200232 Pseudo-CR on requirements for edge application announcement and update**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: CATT*

(Replaces S6-200102)

**Discussion:**

CATT presented the document available as S6-200232.

Qualcomm suggested rewording the term "of newly launched".

The chairman suggested the "of newly available".

Qualcomm further suggested rewording the 3rd requirement (paragraph in clause 5.3.2.2).

**Decision:** The document was **revised to S6-200296**.

**S6-200296 Pseudo-CR on requirements for edge application announcement and update**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: CATT*

(Replaces S6-200232)

**Discussion:**

CATT presented the document available as S6-200296.

It was suggested to rephrase the clause 5.3.2 title to read "Edge application KPIs".

Huawei suggested replacing "..shall be able to advertise .." with "..shall be able to publish ..".

Intel raised some concern about using the term "or high level requirements".

Ericsson raised a concern with the "shall be able to identify" requirement in the last bullet.

**Decision:** The document was **revised to S6-200340**.

**S6-200340 Pseudo-CR on requirements for edge application announcement and update**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: CATT*

(Replaces S6-200296)

**Discussion:**

CATT presented the document available as S6-200340.

It was noted that "..shall be able to advertise .." should be replaced "..shall be able to publish ..".

Ericsson suggested deleting requirement [AR-5.3.x.2-c].

Intel was of the opinion that the requirement was too general.

The only changes are:

- replacing "..shall be able to advertise .." with "..shall be able to publish .." and

- deleting requirement [AR-5.3.x.2-c].

With the above changes the revised contribution, S6-200358, is considered pre-approved.

**Decision:** The document was **revised to S6-200358**.

**S6-200358 Pseudo-CR on requirements for edge application announcement and update**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: CATT*

(Replaces S6-200340)

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

**S6-200103 Pseudo-CR on requirements on traffic management**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: CATT*

**Abstract:**

This contribution addresses requirements for traffic management for Edge Enabler Service.

**Discussion:**

CATT presented the document available as S6-200103.

Ericsson suggested replacing Edge Enabler Service with architecture in the first paragraph in clause 5.3.2.2.

Qualcomm thought that the shalls in the first and second paragraph should read should.

**Decision:** The document was **revised to S6-200233**.

**S6-200233 Pseudo-CR on requirements on traffic management**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: CATT*

(Replaces S6-200103)

**Discussion:**

CATT presented the document available as S6-200233.

Qualcomm noted it was not clear what was meant with traffic management in this context.

**Decision:** The document was **revised to S6-200297**.

**S6-200297 Pseudo-CR on requirements on traffic management**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: CATT*

(Replaces S6-200233)

**Discussion:**

CATT presented the document available as S6-200297.

Huawei suggested deleting the second bullet.

The only changes are:

- deleting the second requirement/bullet,

- replacing "data" with "status" and

- replacing "thoroughput" with "throughput".

With the above change the revised contribution, S6-200341, is considered pre-approved.

**Decision:** The document was **revised to S6-200341**.

**S6-200341 Pseudo-CR on requirements on traffic management**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: CATT*

(Replaces S6-200297)

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

**S6-200062 Pseudo-CR on Identifiers and commonly used values**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Intel Corporation (UK) Ltd*

**Abstract:**

This pCR specifies clause 6 : Identifiers and commonly used values (based on the information from TR 23.758).

**Discussion:**

Intel presented the document available as S6-200062.

Intel noted that clause 6.5 would require some further changes.

InterDigital raised the question about the scope of the uniqueness of the Edge Enabler Client ID.

Huawei indicated they were not convinced of the need for EASIID nor APCIID.

**Decision:** The document was **revised to S6-200234**.

**S6-200234 Pseudo-CR on Identifiers and commonly used values**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Intel Corporation (UK) Ltd*

(Replaces S6-200062)

**Discussion:**

Intel presented the document available as S6-200234.

InterDigital raised a concern about the bullets in 7.9. Intel noted these were examples. It was suggested to indicate this was the case.

Huawei suggested deleting clauses 7.5 and 7.7.

**Decision:** The document was **revised to S6-200307**.

**S6-200307 Pseudo-CR on Identifiers and commonly used values**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Intel Corporation (UK) Ltd*

(Replaces S6-200234)

**Discussion:**

Intel presented the document available as S6-200307.

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

**S6-200117 Pseudo-CR on Architecture and reference points**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Samsung Electronics*

**Abstract:**

This contribution provides the architecture for enabling edge applications based on the outputs of the study captured in TR 23.758.

**Discussion:**

Samsung presented the document available as S6-200117.

Ericsson did not agree with the second sentence in clause 7.3.4 (i.e. Edge Data Network Configuration Server supporting provisioning of Edge Data Network configurations) as there were no procedures for this. They further asked whether EDGE-6 also should support deregistration.

Huawei suggested clarifying that "3GPP network" refers to 5GS.

Qualcomm was not clear on whether the second bullet in clause 7.4.2 was needed.

Interdigital suggested reducing the text under EDGE-5. They further made a remark that working groups should not be mentioned in notes.

**Decision:** The document was **revised to S6-200235**.

**S6-200235 Pseudo-CR on Architecture and reference points**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Samsung Electronics, Huawei, Hisilicon*

(Replaces S6-200117)

**Discussion:**

Samsung presented the document available as S6-200235.

Qualcomm suggested:

- rewording the bullet 3 in clause 7.3.2,

- rewording the "..connect to the Edge Data Network" (bullet 1a, clause 7.3.2),

- and deleting "who has the agreement with the MNO on Edge configurations" from the Note in clause 7.3.4 and

- add an editor's note in clause 7.3.6 "Whether to describe EAS instances is FFS".

Also, a clarification to Edge Hosting environment was requested.

**Decision:** The document was **revised to S6-200291**.

**S6-200291 Pseudo-CR on Architecture and reference points**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Samsung Electronics, Huawei*

(Replaces S6-200235)

**Discussion:**

Samsung presented the document available as S6-200291.

Huawei suggested rephrasing the bullet 1 a) in clause 7.3.4.

The only change is replacing bullet 1 a) in clause 7.3.4 to read "The information for the Edge Enabler Client to connect to the Edge Enabler Server (e.g. service area information applicable to LADN)".

With the above change the revised contribution, S6-200342, is considered pre-approved.

**Decision:** The document was **revised to S6-200342**.

**S6-200342 Pseudo-CR on Architecture and reference points**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Samsung Electronics, Huawei*

(Replaces S6-200291)

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

**S6-200129 Edge application architecture**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Huawei, Hisilicon*

**Abstract:**

Proposal for Edge application architecture

**Discussion:**

Huawei presented the document available as S6-200129.

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

**S6-200145 Pseudo-CR on Initial content for edge application enablement**

*Type: pCR For: Approval  
 23.558 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell, Vodafone*

(Replaces S6-200144)

**Abstract:**

This pCR proposes high level initial content for the architectural principle of Application Enablement as Section 5.2.x.

**Discussion:**

Nokia presented the document available as S6-200145.

Qualcomm was of the view that there was too great mix of different things in the proposal, and should be separated. Also, the actual enablement should be clarified.

InterDigital had some doubts of the need for listing requirements furthermore they suggested deleting the last paragraph.

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

**S6-200057 Lifecyle management of edge applications**

*Type: pCR For: Decision  
 23.558 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell, Vodafone*

**Abstract:**

Content proposal for the architectural principle for lifecycle management

**Discussion:**

Vodafone presented the document available as S6-200057.

InterDigital was of the view that most of the proposal was outside the scope of SA6, and hence not relevant.

Huawei noted that the lifecycle management could be considered to be within SA6 scope, but the other requirements were outside the SA6 scope (e.g. SA5).

It was concluded that an LS (S6-200237) would be prepared.

**Decision:** The document was **revised to S6-200236**.

**S6-200236 Lifecyle management of edge applications**

*Type: pCR For: Decision  
 23.558 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell, Vodafone*

(Replaces S6-200057)

**Discussion:**

Revised prior to presentation.

**Decision:** The document was **revised to S6-200290**.

**S6-200290 Lifecyle management of edge applications**

*Type: pCR For: Decision  
 23.558 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell, Vodafone*

(Replaces S6-200236)

**Discussion:**

Vodafone presented the document available as S6-200290.

The only change is correcting the TDoc number on the cover page.

With the above changes the revised contribution, S6-200305, is considered pre-approved.

**Decision:** The document was **revised to S6-200305**.

**S6-200305 Lifecyle management of edge applications**

*Type: pCR For: Decision  
 23.558 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell, Vodafone*

(Replaces S6-200290)

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

**S6-200051 EDN provisioning based on TR solutions 2 and 3**

*Type: pCR For: Agreement  
 23.558 v0.0.0  
 Source: Convida Wireless LLC*

**Abstract:**

This contribution proposes to bring from TR.758 Solution 2 into the new TS: the EDN provisioning part of Solution 2 and Solution 3.

**Discussion:**

Convida Wireless presented the document available as S6-200051.

Intel suggested making the UE Authorization Info mandatory. They also made remark that they could not recall that a business relationship as assumed by the ECSP Filter IE had been agreed.

Vodafone suggested replacing "EES Point-of-Contact" with "EES Endpoint".

Samsung indicated support for the contribution, but proposed some changes, e.g. deleting the "Service continuity" information element.

AT&T made a number of comments and did e.g. not think the "UE Identifier" IE was needed.

InterDigital suggested to clarify "subscription authentication" in the precondition 3.

Qualcomm made a number of comments e.g. they did not agree with the last paragraph of clause 10.1.1. They also did not think it was necessary to include the information elements in the procedure descriptions (below figure 10.1.3-1).

**Decision:** The document was **revised to S6-200238**.

**S6-200238 EDN provisioning based on TR solutions 2 and 3**

*Type: pCR For: Agreement  
 23.558 v0.0.0  
 Source: Convida Wireless LLC*

(Replaces S6-200051)

**Discussion:**

Revised prior to presentation.

**Decision:** The document was **revised to S6-200312**.

**S6-200312 EDN provisioning based on TR solutions 2 and 3**

*Type: pCR For: Agreement  
 23.558 v0.0.0  
 Source: Convida Wireless LLC*

(Replaces S6-200238)

**Discussion:**

Revised prior to presentation.

**Decision:** The document was **revised to S6-200321**.

**S6-200321 EDN provisioning based on TR solutions 2 and 3**

*Type: pCR For: Agreement  
 23.558 v0.0.0  
 Source: Convida Wireless LLC*

(Replaces S6-200312)

**Discussion:**

Document further revised due to wrong document being made available.

**Decision:** The document was **revised to S6-200329**.

**S6-200329 EDN provisioning based on TR solutions 2 and 3**

*Type: pCR For: Agreement  
 23.558 v0.0.0  
 Source: Convida Wireless LLC*

(Replaces S6-200321)

**Discussion:**

Convida Wireless presented the document available as S6-200329.

The only changes are:

- removing IEs "EAS Instance ID" and "EAS ID"

With the above changes the revised contribution, S6-200343, is considered pre-approved.

**Decision:** The document was **revised to S6-200343**.

**S6-200047 EEC registration based on TR solution 8**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Convida Wireless*

**Abstract:**

This contribution proposes to bring into TS 23.558 an Edge Enabler Client registration solution based on Solution 8 of TR 23.758

**Discussion:**

Convida Wireless presented the document available as S6-200047.

Ericsson did not support having the registration procedure as mandatory but optional.

Convida Wireless pointed out that making the registration optional would imposes a big burden on the overall specification work as it will require everything to be specified for the two different cases.

Samsung indicated support for the contribution as is.

Qualcomm pointed out that the registration is not a feature, but was of the view that registration was required even if not necessarily for each event, if e.g. a valid token exist.

Nokia did not see why the registration would need to be mandatory.

Huawei suggested clarification of the mentioned authorization.

Intel stated they were under the impression that it had been agreed that discovery could be done without registration.

The only changes are:

- removing “EAS Instance ID” and “EAS Application Context Relocation Required” IEs from Table 10.2.4-1: Edge Application Server Profile,

- renaming “EAS instance description” with “EAS description”,

- removing “instance” in the description,

- replacing “resource available” with “resource required” in the description of “Available Storage” IE of table 10.2.3-1: Application Client Service KPI., and changing the IE name to “Storage”

With the above changes the revised contribution, S6-200343, is considered pre-approved.

**Decision:** The document was **revised to S6-200239**.

**S6-200343 EDN provisioning based on TR solutions 2 and 3**

*Type: pCR For: Agreement  
 23.558 v0.0.0  
 Source: Convida Wireless LLC*

(Replaces S6-200329)

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

**S6-200239 EEC Registration based on TR solution 8**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Convida Wireless LLC, Samsung*

(Replaces S6-200047)

**Discussion:**

Convida Wireless presented the document available as S6-200239.

Ericsson noted they were still not convinced about the need for EEC (Edge Enabler Client) registration. They understood however that some other companies consider the registration as a necessity in order to perform subsequent actions. Ericsson was of the view though that other existing procedures could be used instead of the proposed registration, and further noted that discovery was not dependent on registration. In the end a compromise had been worked on introducing a related note. Ericsson however was of the opinion that the current note was too short to give enough clarification.

Vodafone made a comment in relation to user consent.

**Decision:** The document was **revised to S6-200325**.

**S6-200325 EEC Registration based on TR solution 8**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Convida Wireless LLC, Samsung*

(Replaces S6-200239)

**Discussion:**

Convida Wireless presented the document available as S6-200325.

The only change is removing the “EAS Instance ID” element from the table 10.x.2.2.2-1: Edge Enabler Client Registration response.

With the above changes the revised contribution, S6-200344, is considered pre-approved.

**Decision:** The document was **revised to S6-200344**.

**S6-200344 EEC Registration based on TR solution 8**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Convida Wireless LLC, Samsung*

(Replaces S6-200325)

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

**S6-200048 EAS registration based on TR solution 12**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Convida Wireless LLC*

**Abstract:**

This contribution proposes to bring into TS 23.558 an Edge Application Server Registration solution based on Solution 12 from TR 23.758.

**Discussion:**

Convida Wireless presented the document available as S6-200048.

Ericsson made remark that maybe the EAS Provider Identifier IE should be moved up on a higher level, and also noted that there seemed to be an incomplete sentence in table 10.2.3.2.1-2 "..availability of the after a successful Registration."

Qualcomm suggested replacing the used term "range of values" to "set of values".

**Decision:** The document was **revised to S6-200240**.

**S6-200240 EAS registration based on TR solution 12**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Convida Wireless LLC*

(Replaces S6-200048)

**Discussion:**

Convida Wireless presented the document available as S6-200240.

Motorola Solutions suggested removing instance ID and changes on changes.

Qualcomm suggested correcting "..Registration Type Indicator of type prior.." in step 4.

**Decision:** The document was **revised to S6-200326**.

**S6-200326 EAS registration based on TR solution 12**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Convida Wireless LLC*

(Replaces S6-200240)

**Discussion:**

Convida Wireless presented the document available as S6-200326.

The only change is removing the “EAS Instance ID” element from the table 10.2.x.3.1-1: Edge Application Server Registration request.

With the above change the revised contribution, S6-200345, is considered pre-approved.

**Decision:** The document was **revised to S6-200345**.

**S6-200345 EAS registration based on TR solution 12**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Convida Wireless LLC*

(Replaces S6-200326)

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

**S6-200049 EES registration based on TR solution 17**

*Type: pCR For: Agreement  
 23.558 v0.0.0  
 Source: Convida Wireless LLC*

**Abstract:**

This contribution proposes to bring into TS 23.558 an Edge Enabler Server registration solution based on Solution 17 of the TR 23.758

**Discussion:**

Convida Wireless presented the document available as S6-200049.

It was suggested to clarify what the UE Identifier was for.

**Decision:** The document was **revised to S6-200241**.

**S6-200241 EES registration based on TR solution 17**

*Type: pCR For: Agreement  
 23.558 v0.0.0  
 Source: Convida Wireless LLC*

(Replaces S6-200049)

**Discussion:**

Qualcomm pointed out that it seemed like wrong document had been made available as S6-200241.

The document was revised to make available correct document.

**Decision:** The document was **revised to S6-200327**.

**S6-200327 EES registration based on TR solution 17**

*Type: pCR For: Agreement  
 23.558 v0.0.0  
 Source: Convida Wireless LLC*

(Replaces S6-200241)

**Discussion:**

Convida Wireless presented the document available as S6-200327.

Qualcomm made a comment that the description of IE EAS Profile(s) in table 10.2.x.3.1-1 referring to table Z was incorrect.

The only changes are:

- replacing “EAS Profile(s)” IE with “EAS information - The information of EASs registered with the EES” as optional IE

- adding an editor's note stating “The subset of EAS information provided by the EES is FFS”

With the above changes the revised contribution, S6-200346, is considered pre-approved.

**Decision:** The document was **revised to S6-200346**.

**S6-200346 EES registration based on TR solution 17**

*Type: pCR For: Agreement  
 23.558 v0.0.0  
 Source: Convida Wireless LLC*

(Replaces S6-200327)

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

**S6-200037 Pseudo-CR on Initial content for the EAS Discovery section**

*Type: pCR For: Approval  
 23.558 v0.1.0  
 Source: Vodafone Romania S.A., Nokia*

**Abstract:**

Initial high-level content to Section 5.2.x explaining the Architectural Principle of EAS Discovery, Pointing to the relevant sections of TR23.758 and GS MEC 016, which can be elaborated on in follow-on contributions.

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

**S6-200121 Evaluation\_conclusion and proposal on EAS discovery solutions**

*Type: discussion For: Decision  
 23.558 v..  
 Source: Huawei,Hisilicon*

**Abstract:**

This contribution provide an overall analysis and comparison of all the EAS discovery solutions in X, Y, Z ... aspects.

**Discussion:**

Huawei presented the document available as S6-200121.

Qualcomm noted that the DNS proposal may satisfy some solutions, but noted that we are looking for an optimal solution not just sufficient and hence did not agree to the presented conclusions.

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

**S6-200122 Pseudo-CR on EAS discovery based on EES acting as DNS proxy**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Huawei,Hisilicon*

**Abstract:**

This pCR is moving solution X from TR 23.758 to TS 23.558.

**Discussion:**

Huawei presented the document available as S6-200122.

Qualcomm indicated they did not support the proposal.

There was some discussion on whether not the DNS based solutions should be left for SA2.

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

**S6-200050 EAS discovery based on TR solutions 1 and 13**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Convida Wireless LLC*

**Abstract:**

This contribution proposes to bring into TS 23.558 an Edge Application Server discovery solution based on Solutions 1 and 13 of TR 23.758.

**Discussion:**

Convida Wireless presented the document available as S6-200050.

Ericsson suggested making the UE Identifier IE optional. They also suggested rephrasing the step 2 "Alternatively, the Edge Enabler Client sends.." with "Additionally, the Edge Enabler Client sends.."

Huawei raised a number of comments, they a.o. suggested deleting the EAS Instance xxx IEs. They also suggested clarifying the pre-discovered indicator.

**Decision:** The document was **revised to S6-200242**.

**S6-200242 EAS discovery based on TR solutions 1 and 13**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Convida Wireless LLC*

(Replaces S6-200050)

**Discussion:**

Revised prior to presentation.

**Decision:** The document was **revised to S6-200313**.

**S6-200313 EAS discovery based on TR solutions 1 and 13**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Convida Wireless LLC*

(Replaces S6-200242)

**Discussion:**

Revised prior to presentation.

**Decision:** The document was **revised to S6-200322**.

**S6-200322 EAS discovery based on TR solutions 1 and 13**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Convida Wireless LLC*

(Replaces S6-200313)

**Discussion:**

Convida Wireless presented the document available as S6-200322.

**Decision:** The document was **revised to S6-200347**.

**S6-200347 EAS discovery based on TR solutions 1 and 13**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Convida Wireless LLC*

(Replaces S6-200322)

**Discussion:**

Convida Wireless presented the document available as S6-200347.

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

**S6-200093 UE location reporting API**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Samsung*

**Abstract:**

This pCR provides UE location reporting API to support capability exposure to Edge Application Servers.

**Discussion:**

Samsung presented the document available as S6-200093.

Huawei made a number of detailed comments to the procedures.

Qualcomm made the remark that credentials should not be passed from a source EES to a target EES.

Deutsche Telekom suggested adding UE Location accuracy IE in tables 10.x.2.1-1 and 10.x.2.1-2.

**Decision:** The document was **revised to S6-200243**.

**S6-200243 UE location reporting API**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Samsung, AT&T*

(Replaces S6-200093)

**Discussion:**

Samsung presented the document available as S6-200243.

InterDigital pointed out some errors in the specs referred to beneath the figure 10.x.2.3-1.

**Decision:** The document was **revised to S6-200298**.

**S6-200298 UE location reporting API**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Samsung, AT&T*

(Replaces S6-200243)

**Discussion:**

Samsung presented the document available as S6-200298.

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

**S6-200131 5GC capability exposure to the edge application servers**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Huawei, Hisilicon*

**Abstract:**

Proposal for 5GC capability exposure to the edge application servers

**Discussion:**

Huawei presented the document available as S6-200131.

Ericsson pointed out that the Annex X should be marked informative, they further suggested rephrasing the annex along the line of "5G interaction.."

Qualcomm suggested deleting the requirement [AR-5.6.2-c].

Also, InterDigital supported the deletion of the requirement [AR-5.6.2-c].

**Decision:** The document was **revised to S6-200244**.

**S6-200244 5GC capability exposure to the edge application servers**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Huawei, Hisilicon*

(Replaces S6-200131)

**Discussion:**

Huawei presented the document available as S6-200244.

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

**S6-200052 Client Info based on TR solution 25**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Convida Wireless LLC*

**Abstract:**

This contribution proposes to bring from TR 23.758 into TS 23.558 the Client Information solution based on Solution 25 of the TR.

**Discussion:**

Convida Wireless presented the document available as S6-200052.

InterDigital suggested improving the names of certain steps (e.g. 8 and 9).

Huawei suggested simplifying the procedure.

**Decision:** The document was **revised to S6-200245**.

**S6-200245 Client Info based on TR solution 25**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Convida Wireless LLC*

(Replaces S6-200052)

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

**S6-200123 Evaluation, conclusion and proposal on solutions to preserving service continuity**

*Type: discussion For: Decision  
 23.558 v..  
 Source: Huawei,Hisilicon*

**Abstract:**

This contribution provides an overall analysis and comparison of all the application context relocation solutions to KI#9 preserving service continuity.

**Discussion:**

Huawei presented the document available as S6-200123.

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

**S6-200053 Service continuity based on TR solutions 9 16 20 21**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Convida Wireless*

**Abstract:**

This contribution proposes to bring from TR 23.758 into TS 23.558 an Application Context Relocation solution based on Solutions 9, 16, 20 and 21 of the TR.

**Discussion:**

Convida Wireless presented the document available as S6-200053.

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

**S6-200124 Pseudo-CR on EAS initiated application context relocation**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Huawei,Hisilicon*

**Abstract:**

This pCR proposes moving the solution #9 to key issue# 9 : Preserving Service Continuity.

**Discussion:**

Huawei presented the document available as S6-200124.

CATT suggested renaming as client context relocation.

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

**S6-200090 Application context relocation**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Samsung*

**Abstract:**

This pCR provides application context relocation procedures based on TR solutions (#9, #16, #20, and #21)

**Discussion:**

Samsung presented the document available as S6-200090.

Convida Wireless noted their contribution S6-200053 was in principle aligned with the present contribution and was prepared to merge the two contributions, but suggested renaming of the messages.

Vodafone supported using the present contribution as a base.

Huawei raised a concern for the case when 3a and 3b happens at the same time.

Qualcomm made a remark that the beginning of the procedure is the best part of the proposal but steps 4-13 would need to be modified.

InterDigital proposed to work on the simplest flow to try agreeing something into the spec.

Convida Wireless was of the view that all the flows should be completed at the same time in order to have an holistic view on the complete solution.

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

**S6-200063 Discussion on business relationship cardinality**

*Type: discussion For: (not specified)  
 23.558 v..  
 Source: Intel Corporation (UK) Ltd*

**Discussion:**

Intel presented the document available as S6-200063.

A general discussion followed e.g. Qualcomm pointed out that the presentation (page 3) simply showed one deployment model for one use case, that can if the group so wants, be added e.g. as an informative annex.

It was however noted that an architecture should not be limited to a specific deployment model.

Intel suggested capturing a common understanding.

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

**S6-200064 Pseudo-CR on Involved business relationships and cardinality**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Intel Corporation (UK) Ltd*

**Abstract:**

This pCR specifies clause 7: Involved business relationships (based on the information from TR 23.758).

**Discussion:**

Intel presented the document available as S6-200064.

Qualcomm made a remark that "Applications" was not a business entity and should not be in the figure 7.1-1.

InterDigital was of the view that the business relationships should not be documented within SA6.

Vodafone agreed with InterDigital that the material should not appear in the normative main body of the specification, possibly in an informative annex.

AT&T was of the view that that information was helpful but could possibly be named differently (e.g. involved entities).

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

**S6-200091 Involved business relationships**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Samsung*

**Abstract:**

This pCR describes business relationships involved in edge computing service

**Discussion:**

Samsung presented the document available as S6-200091.

**Decision:** The document was **revised to S6-200246**.

**S6-200246 Involved business relationships**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Samsung, Huawei, Hisilicon, Intel Corporation (UK) Ltd*

(Replaces S6-200091)

**Discussion:**

Revised prior to presentation.

**Decision:** The document was **revised to S6-200292**.

**S6-200292 Involved business relationships**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Samsung, Intel, Huawei, Hisilicon*

(Replaces S6-200246)

**Discussion:**

Samsung presented the document available as S6-200292.

Huawei agreed with the first part of the contribution but had issues with clauses X.3, X.4 and X.5 and suggested adding an editor's note.

Qualcomm had similar concerns as Huawei, and specified certain bullets of main concern.

InterDigital suggested deleting or replacing the term business relationship.

**Decision:** The document was **revised to S6-200328**.

**S6-200328 Involved business relationships**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Samsung, Intel, Huawei, Hisilicon*

(Replaces S6-200292)

**Discussion:**

Samsung presented the document available as S6-200328.

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

**S6-200133 Involved business relationships for edge computing services**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Huawei, Hisilicon*

**Abstract:**

Proposal for Involved business relationships for edge computing services

**Discussion:**

Huawei presented the document available as S6-200091.

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

**S6-200092 Deployment model**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Samsung*

**Abstract:**

This pCR provides three deployment models with respect to different DN implementations.

**Discussion:**

Samsung presented the document available as S6-200092.

Sony suggested structuring the clause 9 to show deployment options as in the study.

Qualcomm agreed with the view of Sony.

**Decision:** The document was **revised to S6-200247**.

**S6-200247 Deployment model**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Samsung*

(Replaces S6-200092)

**Discussion:**

Samsung presented the document available as S6-200247.

InterDigital pointed out some normative language that should be rephrased.

Qualcomm suggested to check for the term service area and rephrase if applicable.

**Decision:** The document was **revised to S6-200299**.

**S6-200299 Deployment model**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Samsung*

(Replaces S6-200247)

**Discussion:**

Samsung presented the document available as S6-200299.

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

**S6-200157 Pseudo-CR on Deployment Views on EDNCS**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Sony*

**Abstract:**

This proposal summarizes the deployment views agreed in 23.758 in solution #2 and clause 6.4.2 related to how EDNCS could be deployed in relation to the UE.

**Discussion:**

Sony presented the document available as S6-200157.

Huawei suggested adding some text to further clarify the figure.

It was also noted that the scenario B might require some simplification.

**Decision:** The document was **revised to S6-200248**.

**S6-200248 Pseudo-CR on Deployment Views on EDNCS**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Sony*

(Replaces S6-200157)

**Discussion:**

Sony presented the document available as S6-200248.

InterDigital suggested replacing two occurrences of "may" to "can".

The only changes are:

- replacing the two occurrences of "may" to "can",

- in clause C.x.3 correcting the title to read "UE (EECs) served by multiple ECSs" and

- replacing "a different EAS" with "an EAS".

With the above changes the revised contribution, S6-200353, is considered pre-approved.

**Decision:** The document was **revised to S6-200353**.

**S6-200353 Pseudo-CR on Deployment Views on EDNCS**

*Type: pCR For: Approval  
 23.558 v0.0.0  
 Source: Sony*

(Replaces S6-200248)

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

**S6-200132 Serving area information for service APIs to support edge applications**

*Type: CR For: Agreement  
 23.222 v16.6.0 CR-0067 Cat: B (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Abstract:**

Proposal for Serving area information for service APIs to support edge applications

**Discussion:**

Huawei presented the document available as S6-200132.

Ericsson suggested splitting the requirement in two, for publish and discovery.

Convida Wireless suggested defining the term serving area.

**Decision:** The document was **revised to S6-200249**.

**S6-200249 Serving area information for service APIs to support edge applications**

*Type: CR For: Agreement  
 23.222 v16.6.0 CR-0067 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei, Hisilicon*

(Replaces S6-200132)

**Discussion:**

Huawei presented the document available as S6-200249.

**Decision:** The document was **revised to S6-200300**.

**S6-200300 Serving area information for service APIs to support edge applications**

*Type: CR For: Agreement  
 23.222 v16.6.0 CR-0067 rev 2 Cat: B (Rel-17)  
  
 Source: Huawei, Hisilicon*

(Replaces S6-200249)

**Discussion:**

Huawei presented the document available as S6-200300.

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

**S6-200099 Pseudo-CR on Service Authentication for Edge Computing Service**

*Type: pCR For: Approval  
 23.558 v0.1.0  
 Source: Alibaba Group, China Mobile*

(Replaces S6-191329)

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

### 10.5 TEI17 – Technical Enhancements and Improvements

**S6-200026 Missing reference point**

*Type: CR For: Agreement  
 23.280 v17.1.0 CR-0229 Cat: C (Rel-17)  
  
 Source: Sepura PLC*

**Abstract:**

Addition of the CSC-1A reference point between the MC service client and the IdMS token endpoint to allow direct exchange of tokens between the IdMS and the MC service client without the tokens passing through the IdM client.

**Discussion:**

Sepura presented the document available as S6-200026.

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

**S6-200125 Enhancement to group regroup at GMS using preconfigured group**

*Type: CR For: Agreement  
 23.280 v17.1.0 CR-0231 Cat: B (Rel-17)  
  
 Source: Huawei,Hisilicon*

**Abstract:**

The contribution proposes:

1) adding a MC service ID of the preconfigured group whose configuration data will be taken for the regrouped group in the group regroup request

2) adding proposed MC service ID of the regrouped group in the group regroup request

3) adding a MC service ID of the preconfigured group whose configuration data will be taken for the regrouped group in the group regroup notification

4) in the case of using the preconfigured group for regrouping, the group management clients being regrouped not to pull the group profile from the GMS and

5) updating the pre-conditions.

**Discussion:**

Huawei presented the document available as S6-200125.

**Decision:** The document was **revised to S6-200198**.

**S6-200198 Enhancement to group regroup at GMS using preconfigured group**

*Type: CR For: Agreement  
 23.280 v17.1.0 CR-0231 rev 1 Cat: C (Rel-17)  
  
 Source: Huawei,Hisilicon*

(Replaces S6-200125)

**Discussion:**

Huawei presented the document available as S6-200198.

Motorola Solutions did not agree adding the preconfigured group (even if not worded as such) in this solution as there were existing mechanisms to cover this.

Harris agreed with the view of Motorola Solutions.

In Huawei's view there was no incompatibility issue.

HomeOffice also raised a concern for the presented solution.

**Decision:** The document was **revised to S6-200302**.

**S6-200302 Enhancement to group regroup at GMS using preconfigured group**

*Type: CR For: Agreement  
 23.280 v17.1.0 CR-0231 rev 2 Cat: C (Rel-17)  
  
 Source: Huawei,Hisilicon*

(Replaces S6-200198)

**Discussion:**

Huawei presented the document available as S6-200302.

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

**S6-200126 enhancement to user regroup at GMS using preconfigured group**

*Type: CR For: Agreement  
 23.280 v17.1.0 CR-0232 Cat: B (Rel-17)  
  
 Source: Huawei,Hisilicon*

**Abstract:**

The contribution proposes:

1) adding a MC service ID of the preconfigured group whose configuration data will be taken for the user regrouped group in the user regroup notification

4) in the case of using the preconfigured group for user regrouping, the group management clients being regrouped will not further pull the group profile from the GMS and

5) update the pre-conditions.

**Discussion:**

Huawei presented the document available as S6-200126.

**Decision:** The document was **revised to S6-200199**.

**S6-200199 Enhancement to user regroup at GMS using preconfigured group**

*Type: CR For: Agreement  
 23.280 v17.1.0 CR-0232 rev 1 Cat: C (Rel-17)  
  
 Source: Huawei,Hisilicon*

(Replaces S6-200126)

**Abstract:**

The contribution proposes:

1) Change the sentence in 10.2.3 “It applies to the scenario of normal group creation by an MC service administrator and user regrouping operations by authorized user/dispatcher.” to “It applies to the scenario of normal group creation by an MC service administrator”

2) Add the user grouping procedure derived from existing 10.2.3 with modifications to reflect it is applicable for user grouping operation including:

2.1) add a MC service ID of the preconfigured group whose configuration data will be taken for the user regrouped group in the user regroup notification

2.2) in the case of using the preconfigured group for user regrouping, the group management clients being regrouped will not further pull the group profile from the GMS.

2.3) update the pre-conditions

**Discussion:**

Huawei presented the document available as S6-200199.

Motorola Solutions indicated they did not support the proposal.

**Decision:** The document was **revised to S6-200304**.

**S6-200304 Enhancement to user regroup at GMS using preconfigured group**

*Type: CR For: Agreement  
 23.280 v17.1.0 CR-0232 rev 2 Cat: C (Rel-17)  
  
 Source: Huawei,Hisilicon*

(Replaces S6-200199)

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

**S6-200127 Add temporary group teardown within an MC system**

*Type: CR For: Agreement  
 23.280 v17.1.0 CR-0233 Cat: B (Rel-17)  
  
 Source: Huawei,Hisilicon*

**Discussion:**

Huawei presented the document available as S6-200127.

During the initial review it was concluded that the only changes were to:

- in all occasions of 10.2.4.x, change x to 2a

- change text of step 3 under Figure 10.2.4.x-1 into: “3. Any active group call for the temporary group is terminated”

- make equivalent change in the figure.

With the above changes the revised contribution, S6-200200, was considered pre-agreed.

It was however later during the course of the meeting decided to take on board additional changes and review the doc S6-200200 in normal manner.

**Decision:** The document was **revised to S6-200200**.

**S6-200200 Add temporary group teardown within an MC system**

*Type: CR For: Agreement  
 23.280 v17.1.0 CR-0233 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei,Hisilicon*

(Replaces S6-200127)

**Discussion:**

Huawei presented the document available as S6-200200.

The document had in principle been pre-agreed (during track 1), however a need to take on board additional changes had been discovered so the document was finally reviewed normally.

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

**S6-200173 Clarification on MCPTT server performing the controlling role and the participating role for the MCX services**

*Type: CR For: Agreement  
 23.280 v.. CR-237 Cat: F (Rel-17)  
  
 Source: Kontron*

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

## 11 Study Items

### 11.1 FS\_MCOver5GS – Study on Mission Critical Services support over 5G System

**S6-200022 MCover5GS Key issue 5 3GPP system connectivity**

*Type: pCR For: Approval  
 23.783 v0.8.0  
 Source: UIC*

**Abstract:**

Solution for Key Issue 5 connectivity (APN).

**Discussion:**

UIC presented the document available as S6-200022.

**Decision:** The document was **revised to S6-200201**.

**S6-200201 MCover5GS Key issue 5 3GPP system connectivity**

*Type: pCR For: Approval  
 23.783 v0.8.0  
 Source: UIC, CATT*

(Replaces S6-200022)

**Discussion:**

UIC presented the document available as S6-200201.

Huawei raised some concern about the "In the 5GS context, a DNN can be used … in the clause 7.x.1.2 and suggested deleting the sentence and the two following bullets.

UIC would look into this.

The Police of Netherlands pointed out errors in the clause numbering.

**Decision:** The document was **revised to S6-200308**.

**S6-200308 MCover5GS Key issue 5 3GPP system connectivity**

*Type: pCR For: Approval  
 23.783 v0.8.0  
 Source: UIC, CATT*

(Replaces S6-200201)

**Discussion:**

UIC presented the document available as S6-200308.

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

**S6-200104 Pseudo-CR on 5GC level roaming for key issue 2**

*Type: pCR For: Approval  
 23.783 v0.8.0  
 Source: CATT*

**Abstract:**

This contribution resolves key issue 2 on 5GC level roaming.

**Discussion:**

CATT presented the document available as S6-200104.

**Decision:** The document was **revised to S6-200203**.

**S6-200203 Pseudo-CR on 5GC level roaming for key issue 2**

*Type: pCR For: Approval  
 23.783 v0.8.0  
 Source: CATT*

(Replaces S6-200104)

**Discussion:**

CATT presented the document available as S6-200203.

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

**S6-200105 Pseudo-CR on 5G resource management for key issue 5**

*Type: pCR For: Approval  
 23.783 v0.8.0  
 Source: CATT*

**Abstract:**

This contribution provides solution for key issue#5.

**Discussion:**

CATT presented the document available as S6-200105.

**Decision:** The document was **revised to S6-200202**.

**S6-200202 Pseudo-CR on 5G resource management for key issue 5**

*Type: pCR For: Approval  
 23.783 v0.8.0  
 Source: CATT, UIC*

(Replaces S6-200105)

**Discussion:**

CATT presented the document available as S6-200202.

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

**S6-200106 Pseudo-CR on new key issue for service based architecture**

*Type: pCR For: Approval  
 23.783 v0.8.0  
 Source: CATT*

**Abstract:**

This contribution addresses the key issue on leveraging the service based architecture.

**Discussion:**

CATT presented the document available as S6-200106.

**Decision:** The document was **revised to S6-200204**.

**S6-200204 Pseudo-CR on new key issue for service based architecture**

*Type: pCR For: Approval  
 23.783 v0.8.0  
 Source: CATT*

(Replaces S6-200106)

**Discussion:**

CATT presented the document available as S6-200204.

Motorola Solutions did not agree with the bullet 3 "Potential usage of CAPIF with…" and suggested to rephrase or delete the bullet.

Samsung indicated they were fine the proposal.

Huawei indicated support for the contribution.

Motorola Solutions suggested replacing the 3rd bullet in clause 6.x.1 with "Whether and how to utilize the 5GC service-based interfaces (including CAPIF) for MC services."

Huawei suggested adding the sentence proposed by Motorola Solutions above the three bullets and leave the three bullets with no changes.

The contributor did however not accept this way forward.

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

**S6-200018 Pseudo-CR on Update to Key Issues**

*Type: pCR For: Approval  
 23.783 v0.8.0  
 Source: The Police of the Netherlands*

**Discussion:**

The Police of Netherlands presented the document available as S6-200018.

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

**S6-200013 Pseudo-CR on Update of Annex A to V17.0.0**

*Type: pCR For: Approval  
 23.783 v0.8.0  
 Source: The Police of the Netherlands*

**Discussion:**

The Police of Netherlands presented the document available as S6-200013.

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

**S6-200014 Pseudo-CR on Update of Annex B to V17.0.0**

*Type: pCR For: Approval  
 23.783 v0.8.0  
 Source: The Police of the Netherlands*

**Discussion:**

The Police of Netherlands presented the document available as S6-200014.

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

**S6-200015 Pseudo-CR on Update of Annex C to V17.0.0**

*Type: pCR For: Approval  
 23.783 v0.8.0  
 Source: The Police of the Netherlands*

**Discussion:**

The Police of Netherlands presented the document available as S6-200015.

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

**S6-200016 Pseudo-CR on Update of Annex D to V17.0.0**

*Type: pCR For: Approval  
 23.783 v0.8.0  
 Source: The Police of the Netherlands*

**Discussion:**

The Police of Netherlands presented the document available as S6-200016.

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

**S6-200017 Pseudo-CR on Update of Annex E to V17.0.0**

*Type: pCR For: Approval  
 23.783 v0.8.0  
 Source: The Police of the Netherlands*

**Discussion:**

The Police of Netherlands presented the document available as S6-200017.

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

### 11.2 FS\_enhMCLoc – Study on location enhancements for mission critical services

**S6-200087 Pseudo-CR on solution for location information of unauthenticated user**

*Type: pCR For: Approval  
 23.744 v1.2.0  
 Source: BDBOS*

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

### 11.3 FS\_FFAPP – Study on application layer support for Factories of the Future in 5G network

**S6-200141 Update to FFAPP architecture in solution#1**

*Type: pCR For: Approval  
 23.745 v0.6.0  
 Source: Huawei, Hisilicon*

**Abstract:**

Proposal for Update to FFAPP architecture in solution#1

**Discussion:**

Huawei presented the document available as S6-200141.

Ericsson suggested adding a note in relation to the use of the N6 interface.

**Decision:** The document was **revised to S6-200251**.

**S6-200251 Update to FFAPP architecture in solution#1**

*Type: pCR For: Approval  
 23.745 v0.6.0  
 Source: Huawei, Hisilicon*

(Replaces S6-200141)

**Discussion:**

Huawei presented the document available as S6-200251.

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

**S6-200066 Solution- FF application layer functional model update**

*Type: pCR For: Approval  
 23.745 v0.6.0  
 Source: ZTE Photonics*

**Abstract:**

Solution-function model update with SEAL service and UE to UE direct communciation support

**Discussion:**

ZTE presented the document available as S6-200066.

Qualcomm made a remark that the arrows on the left hand side of the figure (FFA-2 and FAE-2 and SEAL-FF2) gives the impression that the clients communicate directly with each other.

**Decision:** The document was **revised to S6-200252**.

**S6-200252 Solution- FF application layer functional model update**

*Type: pCR For: Approval  
 23.745 v0.6.0  
 Source: ZTE Photonics*

(Replaces S6-200066)

**Discussion:**

ZTE presented the document available as S6-200252.

**Decision:** The document was **revised to S6-200309**.

**S6-200309 Solution- FF application layer functional model update**

*Type: pCR For: Approval  
 23.745 v0.6.0  
 Source: ZTE Photonics*

(Replaces S6-200252)

**Discussion:**

ZTE presented the document available as S6-200309.

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

**S6-200082 Remove the EN in KI#4**

*Type: pCR For: Approval  
 23.745 v0.6.0  
 Source: ZTE Corporation*

**Abstract:**

This contribution proposes clarification on TSN QoS in order to resolve the Editor’s note in KI#4.

**Discussion:**

ZTE presented the document available as S6-200082.

Qualcomm made a remark that the proposed new text seemed to have no relation to the deleted editor's note.

Huawei suggested rephrasing the text preceding the bullet points.

It was suggested rewording the pCR title.

**Decision:** The document was **revised to S6-200253**.

**S6-200253 Clarification of TSN QoS monitoring**

*Type: pCR For: Approval  
 23.745 v0.6.0  
 Source: ZTE Corporation*

(Replaces S6-200082)

**Discussion:**

ZTE presented the document available as S6-200253.

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

**S6-200083 New solution for Key issue 4**

*Type: pCR For: Approval  
 23.745 v0.6.0  
 Source: ZTE corporation*

**Abstract:**

This contribution is to add a solution for KI#4- TSN QoS monitoring .

**Discussion:**

ZTE presented the document available as S6-200083.

Ericsson raised some concern whether all the depicted entities were within the scope of SA6.

Huawei was of the view that the procedure in clause 7.x.1.3 could be simplified and e.g. the FAE client could be removed.

**Decision:** The document was **revised to S6-200254**.

**S6-200254 New solution for Key issue 4**

*Type: pCR For: Approval  
 23.745 v0.6.0  
 Source: ZTE corporation*

(Replaces S6-200083)

**Discussion:**

ZTE presented the document available as S6-200254.

Some offline discussion needed.

**Decision:** The document was **revised to S6-200310**.

**S6-200310 New solution for Key issue 4**

*Type: pCR For: Approval  
 23.745 v0.6.0  
 Source: ZTE corporation*

(Replaces S6-200254)

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

**S6-200084 Update the key issue 7**

*Type: pCR For: Approval  
 23.745 v0.6.0  
 Source: ZTE Corporation*

**Discussion:**

ZTE presented the document available as S6-200084.

Ericsson suggested handling the User's consent under a separated key issue.

Qualcomm did not see the User's consent being relevant for the present study.

Huawei suggested deleting the word "batch" in "..batch user's consent..".

It was suggested to add an editor's note stating, "The solution for user consent is in the scope of SA3."

**Decision:** The document was **revised to S6-200255**.

**S6-200255 Key issue on user authorization**

*Type: pCR For: Approval  
 23.745 v0.6.0  
 Source: ZTE Corporation*

(Replaces S6-200084)

**Discussion:**

ZTE presented the document available as S6-200255.

The only change is to replace "How to obtain.." with "Whether and how to obtain..".

With the above change the revised contribution, S6-200311, is considered pre-approved.

**Decision:** The document was **revised to S6-200311**.

**S6-200311 Key issue on user authorization**

*Type: pCR For: Approval  
 23.745 v0.6.0  
 Source: ZTE Corporation*

(Replaces S6-200255)

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

**S6-200070 Solution- Device Onboarding Support in FF which reference to oneM2M solution**

*Type: pCR For: Approval  
 23.745 v0.6.0  
 Source: ZTE Photonics*

**Abstract:**

Device Onboarding Support in FF which reference to oneM2M solution

**Discussion:**

Revised prior to initial presentation.

**Decision:** The document was **revised to S6-200161**.

**S6-200161 Solution- Device Onboarding Support in FF which reference to oneM2M solution**

*Type: pCR For: Approval  
 23.745 v0.6.0  
 Source: ZTE Corporation, Deutsche Telekom*

(Replaces S6-200070)

**Abstract:**

Device Onboarding Support in FF which reference to oneM2M solution

**Discussion:**

ZTE presented the document available as S6-200161.

Ericsson raised a concern with bringing in oneM2M based solution while there are specific related work items in SA2. They further noted that the figure depicted several entities being out of scope of SA6 and even 3GPP.

Huawei suggested to analyse and do a mapping between oneM2M and 3GPP. This would allow to decide if oneM2M can be utilized.

**Decision:** The document was **revised to S6-200256**.

**S6-200256 Solution- Device Onboarding Support in FF which reference to oneM2M solution**

*Type: pCR For: Approval  
 23.745 v0.6.0  
 Source: ZTE Corporation, Deutsche Telekom*

(Replaces S6-200161)

**Discussion:**

Revised prior to presentation.

**Decision:** The document was **revised to S6-200293**.

**S6-200293 Solution- Device Onboarding Support in FF which reference to oneM2M solution**

*Type: pCR For: Approval  
 23.745 v0.6.0  
 Source: ZTE Corporation, Deutsche Telekom*

(Replaces S6-200256)

**Discussion:**

ZTE presented the document available as S6-200293.

Huawei suggested rephrasing the editor's note to stress whether M2M can be mapped.

There was a discussion on whether to include the proposed annex or not.

It was suggested:

- rephrasing the Editor's Note to read " The detail FF device on boarding procedures and whether FFAPP can interwork with oneM2M needs further study"

- Renaming the title of Annex X to read “Analysis of oneM2M and FF architecture”

- Renaming the title of Annex X.2 to read “Relationship between oneM2M and FFAPP”

**Decision:** The document was **revised to S6-200335**.

**S6-200335 Solution- Device Onboarding Support in FF which reference to oneM2M solution**

*Type: pCR For: Approval  
 23.745 v0.6.0  
 Source: ZTE Corporation, Deutsche Telekom*

(Replaces S6-200293)

**Discussion:**

ZTE presented the document available as S6-200293.

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

**S6-200054 FS\_FFApp KI 8 Solution**

*Type: pCR For: Agreement  
 23.745 v0.6.0  
 Source: Convida Wireless*

**Abstract:**

This document proposes a new solution for Key Issue #8 regarding “Communication of FF application requirements with 5GS”. The solution allows FFES to adaptively establish service connectivity between two FFEC.

**Discussion:**

Convida Wireless presented the document available as S6-200054.

Huawei suggested some changes to the procedure, this will be discussed further offline.

Ericsson suggested considering the case of device to device.

**Decision:** The document was **revised to S6-200257**.

**S6-200257 FS\_FFApp KI 8 Solution**

*Type: pCR For: Agreement  
 23.745 v0.6.0  
 Source: Convida Wireless*

(Replaces S6-200054)

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

**S6-200142 Update to solution#2 to align with FFAPP architecture**

*Type: pCR For: Approval  
 23.745 v0.6.0  
 Source: Huawei, Hisilicon*

**Abstract:**

Proposal for Update to solution#2 to align with FFAPP architecture

**Discussion:**

Huawei presented the document available as S6-200142.

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

**S6-200067 Solution- Edge deployment within FFAPP**

*Type: pCR For: Approval  
 23.745 v0.6.0  
 Source: ZTE Photonics*

**Abstract:**

The contribution proposed how FFAPP adapt to Edge deployment.

**Discussion:**

ZTE presented the document available as S6-200067.

Qualcomm was of the opinion that the figure could be deleted.

**Decision:** The document was **revised to S6-200258**.

**S6-200258 Solution- Edge deployment within FFAPP**

*Type: pCR For: Approval  
 23.745 v0.6.0  
 Source: ZTE Photonics*

(Replaces S6-200067)

**Discussion:**

ZTE presented the document available as S6-200258.

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

**S6-200069 Solution-FFAPP provisioning within Edge Data Network configuration**

*Type: pCR For: Approval  
 23.745 v0.6.0  
 Source: ZTE Photonics*

**Abstract:**

This contribution proposes adding solution for FFAPP provisioning within Edge Data Network configuration process.

**Discussion:**

ZTE presented the document available as S6-200069.

Huawei suggested clarifying the information transmitted in the Initial Provisioning response.

Qualcomm made a remark that the proposed solution was technically feasible but would not be possible (especially step 2) within Rel-17.

**Decision:** The document was **revised to S6-200259**.

**S6-200259 Solution- FFAPP provisioning within Edge Data Network configuration**

*Type: pCR For: Approval  
 23.745 v0.6.0  
 Source: ZTE Photonics*

(Replaces S6-200069)

**Discussion:**

ZTE presented the document available as S6-200259.

Huawei suggested adding an editor's note stating "The usage of Edge computing services for FFAPP is FFS".

The only change is adding an editor's note stating "The usage of Edge computing services for FFAPP is FFS".

With the above change the revised contribution, S6-200316, is considered pre-approved.

**Decision:** The document was **revised to S6-200316**.

**S6-200316 Solution- FFAPP provisioning within Edge Data Network configuration**

*Type: pCR For: Approval  
 23.745 v0.6.0  
 Source: ZTE Photonics*

(Replaces S6-200259)

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

### 11.4 FS\_UASAPP – Study on application layer support for Unmanned Aerial System (UAS)

**S6-200032 Clause 4 versus Annex A**

*Type: pCR For: Approval  
 23.755 v0.5.0  
 Source: InterDigital*

**Abstract:**

This contribution proposes to remove clause 4 of the TR 23.755.

**Discussion:**

InterDigital presented the document available as S6-200032.

Qualcomm was supportive of the proposal but suggested adding an FFS editor's note.

Tencent suggested changing the Annex title not to be limited to 3GPP specifications only.

Huawei supported changing the Annex title.

**Decision:** The document was **revised to S6-200260**.

**S6-200260 Clause 4 versus Annex A**

*Type: pCR For: Approval  
 23.755 v0.5.0  
 Source: InterDigital*

(Replaces S6-200032)

**Discussion:**

InterDigital presented the document available as S6-200260.

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

**S6-200030 Clarification of terminology**

*Type: pCR For: Approval  
 23.755 v0.5.0  
 Source: InterDigital*

**Abstract:**

The contribution proposes improving the definition of the terms UAS, UAV, UAV-C, UAS Client and UAS Server and review 3GPP TR 23.755 to use the defined terms consistently.

The terms UAV Application and UAV-C Application are replaced with UAS Client.

**Discussion:**

InterDigital presented the document available as S6-200030.

Qualcomm noted that the new definitions were valid only in the case of remote identification.

Huawei suggested reverting the changes to the reference model as these were aligned with SA1.

Qualcomm further noted that in the "flying context" the term UAV should be used, not UAS.

Airbus suggested postponing the changes to the figure until it is known what progress has been made in SA2 (currently meeting i.e. at the same time with SA6#35).

**Decision:** The document was **revised to S6-200261**.

**S6-200261 Clarification of terminology**

*Type: pCR For: Approval  
 23.755 v0.5.0  
 Source: InterDigital*

(Replaces S6-200030)

**Discussion:**

InterDigital presented the document available as S6-200261.

Huawei suggested deleting the sentences "The UAV comprise the UAS Client and the associated UE." and "The UAV comprise the UAS Client and the associated UE." from UAV and UAV controller definitions respectively.

The only changes are:

- deleting the sentence "The UAV comprise the UAS Client and the associated UE." from the UAV definition and

- deleting the sentence "The UAV comprise the UAS Client and the associated UE." from the UAV controller definition.

With the above changes the revised contribution, S6-200348, is considered pre-approved.

**Decision:** The document was **revised to S6-200348**.

**S6-200348 Clarification of terminology**

*Type: pCR For: Approval  
 23.755 v0.5.0  
 Source: InterDigital*

(Replaces S6-200261)

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

**S6-200031 Review of UAS service requirements**

*Type: pCR For: Approval  
 23.755 v0.5.0  
 Source: InterDigital*

**Abstract:**

This contribution is a review of the stage-1 UAS requirements in TS 22.125.

**Discussion:**

InterDigital presented the document available as S6-200031.

Qualcomm was not supportive in copying in all the requirements from SA1, but suggested deleting requirements not relevant for SA6.

**Decision:** The document was **revised to S6-200262**.

**S6-200262 Review of UAS service requirements**

*Type: pCR For: Approval  
 23.755 v0.5.0  
 Source: InterDigital*

(Replaces S6-200031)

**Discussion:**

InterDigital presented the document available as S6-200262.

The only changes are:

- reverting deletion of [R-5.2.2-004] and [R-5.2.2-006] and

- deleting the requirements [R-5.4-002] and [R-5.4-003].

With the above changes the revised contribution, S6-200317, is considered pre-approved.

**Decision:** The document was **revised to S6-200317**.

**S6-200317 Review of UAS service requirements**

*Type: pCR For: Approval  
 23.755 v0.5.0  
 Source: InterDigital*

(Replaces S6-200262)

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

**S6-200027 3GPP location services for Network assisted positioning for USS/UTM**

*Type: pCR For: Approval  
 23.755 v0.5.0  
 Source: InterDigital*

**Abstract:**

This contribution proposes adding functionality on location services for the solution on network assisted positioning for USS/UTM.

**Discussion:**

InterDigital presented the document available as S6-200027.

**Decision:** The document was **revised to S6-200263**.

**S6-200263 3GPP location services for Network assisted positioning for USS/UTM**

*Type: pCR For: Approval  
 23.755 v0.5.0  
 Source: InterDigital*

(Replaces S6-200027)

**Discussion:**

InterDigital presented the document available as S6-200263.

Deutsche Telekom suggested rewording the "The UCF can be used to verify or to complement .."

**Decision:** The document was **revised to S6-200318**.

**S6-200318 3GPP location services for Network assisted positioning for USS/UTM**

*Type: pCR For: Approval  
 23.755 v0.5.0  
 Source: InterDigital*

(Replaces S6-200263)

**Discussion:**

Revised prior to presentation.

**Decision:** The document was **revised to S6-200323**.

**S6-200323 3GPP location services for Network assisted positioning for USS/UTM**

*Type: pCR For: Approval  
 23.755 v0.5.0  
 Source: InterDigital*

(Replaces S6-200318)

**Discussion:**

InterDigital presented the document available as S6-200323.

Deutsche Telekom suggested rephrasing "from EPS and 5GS".

**Decision:** The document was **revised to S6-200349**.

**S6-200349 3GPP location services for Network assisted positioning for USS/UTM**

*Type: pCR For: Approval  
 23.755 v0.5.0  
 Source: InterDigital*

(Replaces S6-200323)

**Discussion:**

InterDigital presented the document available as S6-200349.

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

**S6-200029 Trusted and untrusted location reporting requirements**

*Type: pCR For: Approval  
 23.755 v0.5.0  
 Source: InterDigital*

**Abstract:**

This contribution proposes to clarify trusted and untrusted location reporting requirements.

**Discussion:**

InterDigital presented the document available as S6-200029.

Qualcomm made a remark that the term trusted was in relation to the source of the information, e.g. the information from the drone would be untrusted while the network sourced information would be trusted.

Huawei suggested deleting the last two sentences of the proposed paragraph.

**Decision:** The document was **revised to S6-200264**.

**S6-200264 Trusted and untrusted location reporting requirements**

*Type: pCR For: Approval  
 23.755 v0.5.0  
 Source: InterDigital*

(Replaces S6-200029)

**Discussion:**

InterDigital presented the document available as S6-200264.

The only change is to replace "This solution enables the MNO/network to provide trusted location information from the UAV (or UAV-C).." with "This solution enables the MNO/network to provide trusted location information of the UAV (or UAV-C).." in the last paragraph of clause 8.1.1.1.

With the above changes the revised contribution, S6-200350, is considered pre-approved.

**Decision:** The document was **revised to S6-200350**.

**S6-200350 Trusted and untrusted location reporting requirements**

*Type: pCR For: Approval  
 23.755 v0.5.0  
 Source: InterDigital*

(Replaces S6-200264)

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

**S6-200045 Brief review of recent FAA’s Remote Identification of Unmanned Aircraft Systems**

*Type: discussion For: Information  
 Source: Tencent*

**Abstract:**

This paper gives a brief summary of the recent FAA’s requirement for the remote identification of unmanned aircraft systems. The remote identification of unmanned aircraft systems in the airspace of the United States would address safety, national security, and law enforcement concerns regarding the further integration of these aircraft into the airspace of the United States while also enabling greater operational capabilities.

**Discussion:**

Tencent presented the document available as S6-200045.

Motorola Solutions noted this was a very helpful contribution. They further raised the question whether this would result in SA1 requirements.

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

**S6-200046 Advanced communication elements between UAS and USS**

*Type: discussion For: Information  
 Source: Tencent*

**Abstract:**

This paper discusses some advanced communication elements for a safe UAS operation. A UAV shall receive and recognize the Temporary Flight Restrictions (TFRs) or airport closures through Notice to Airmen (NOTAMs) in real-time either on ground or in-air. A UAV’s operation shall be constrained by the airspace where is flying into. Proper ATC authorization is also necessary when fly near controlled airspace and airports.

**Discussion:**

Tencent presented the document available as S6-200046.

Qualcomm noted the contribution contained lots of interesting information.

Huawei suggested using this material to create usage scenarios.

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

### 11.5 FS\_EDGEAPP – Study on Application Architecture for enabling Edge Applications

**S6-200158 Edge Computing platform capability discovery**

*Type: pCR For: Agreement  
 23.558 v0.0.1  
 Source: Qualcomm Incorporated*

**Abstract:**

This contribution provides text for enhancing the following solutions with the ability for a UE to discovery the compute capabilities of an Edge Application Server: solutions #1, #13.

**Discussion:**

Qualcomm presented the document available as S6-200158.

Vodafone indicated general support for the contribution but suggested some changes to some of the used terms.

Samsung agreed and pointed out that in the first change the "..the resources available for this request on this Edge Application Client,.." should read "..on this Edge Application server,.."

Qualcomm also noted that one possible way would be to consider some of the ideas in this paper in the S6-200050.

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

**S6-200119 Update to solution EAS discovery based on EDN CS**

*Type: CR For: Agreement  
 23.758 v17.0.0 CR-0001 Cat: B (Rel-17)  
  
 Source: Huawei,Hisilicon*

**Abstract:**

The contribution proposes:

1) Updating the procedure in clause 7.13.1.4 to enable EDN CS to get the DNAI indicating the EDN where the EAS(s) are deployed.

2) If multiple EAS is provided to the UE, they are provided with priority for UE to determine the order to connect.

**Discussion:**

Huawei presented the document available as S6-200119.

Ericsson was of the view that the proposed solution as described in step 4, would not work.

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

**S6-200120 EAS discovery based on EES acting as DNS proxy**

*Type: CR For: Agreement  
 23.758 v17.0.0 CR-0002 Cat: B (Rel-17)  
  
 Source: Huawei,Hisilicon*

**Abstract:**

The contribution introduces a new solution in which EAS information discovery is performed by the EES using DNS query message. The DNS query from UE is routed to an Edge Enabler Server (namely the EDN) which is determined by 5GC as the most optimal Edge Enabler Server to handle this DNS query message.

**Discussion:**

Huawei presented the document available as S6-200120.

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

**S6-200159 Usage of Edge Data Network and Edge Hosting Environment**

*Type: discussion For: Discussion  
 23.558 v..  
 Source: Qualcomm Incorporated*

**Abstract:**

This contribution proposes to disambiguate the use of Edge Data Network (EDN) and the Edge Hosting Environment (EHE) during the normative work on EDGEAPP.

**Discussion:**

Qualcomm presented the document available as S6-200159.

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

**S6-200144 Pseudo-CR on Initial content for edge application enablement**

*Type: pCR For: Approval  
 23.558 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell, Vodafone*

**Abstract:**

This pCR proposes high level initial content for the architectural principle of Application Enablement as Section 5.2.x.

**Decision:** The document was **revised to S6-200145**.

### 11.6 FS\_eV2XAPP – Study on Enhancements to application layer support for V2X services

**S6-200138 Editorial corrections**

*Type: pCR For: Approval  
 23.764 v0.3.0  
 Source: Huawei, Hisilicon*

**Abstract:**

Proposal for Editorial corrections

**Discussion:**

Huawei presented the document available as S6-200138.

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

**S6-200135 Analysis of TS 23.287**

*Type: pCR For: Approval  
 23.764 v0.3.0  
 Source: Huawei, Hisilicon*

**Abstract:**

Proposal for Analysis of TS 23.287

**Discussion:**

Huawei presented the document available as S6-200135.

**Decision:** The document was **revised to S6-200171**.

**S6-200171 Analysis of TS 23.287**

*Type: pCR For: Approval  
 23.764 v0.3.0  
 Source: Huawei, Hisilicon*

(Replaces S6-200135)

**Discussion:**

Huawei presented the document available as S6-200171.

The only change is replacing "3GPP TS 23.501" with "3GPP TS 23.503".

With the above change the revised contribution, S6-200301, is considered pre-approved.

**Decision:** The document was **revised to S6-200301**.

**S6-200301 Analysis of TS 23.287**

*Type: pCR For: Approval  
 23.764 v0.3.0  
 Source: Huawei, Hisilicon*

(Replaces S6-200171)

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

**S6-200136 Requirements for interworking between EPS V2X and 5GS V2X**

*Type: pCR For: Approval  
 23.764 v0.3.0  
 Source: Huawei, Hisilicon*

**Abstract:**

Proposal for Requirements for interworking between EPS V2X and 5GS V2X

**Discussion:**

Huawei presented the document available as S6-200136.

Qualcomm did not think the title "Interworking between.." was appropriate, but suggested e.g. transition.

Motorola Solutions suggested finding different terms for "provisioning" and "transitioned" in clause 6.x.2.

**Decision:** The document was **revised to S6-200172**.

**S6-200172 Requirements for interworking between EPS V2X and 5GS V2X**

*Type: pCR For: Approval  
 23.764 v0.3.0  
 Source: Huawei, Hisilicon*

(Replaces S6-200136)

**Discussion:**

Huawei presented the document available as S6-200172.

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

**S6-200079 Pseudo-CR on new KI for CAPIF adaptation**

*Type: pCR For: (not specified)  
 23.764 v0.3.0  
 Source: Ericsson*

**Abstract:**

Proposal to add a new key issue as it is not clear how the V2X application enabler can be adapted to the Common API Framework (CAPIF).

**Discussion:**

Ericsson presented the document available as S6-200079.

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

**S6-200080 Pseudo-CR on new solution for CAPIF adaptation**

*Type: pCR For: (not specified)  
 23.764 v0.3.0  
 Source: Ericsson*

**Abstract:**

A proposal for a solution for how the V2X application enabler can be adapted to the Common API Framework (CAPIF).

**Discussion:**

Ericsson presented the document available as S6-200080.

It was suggested to remove the diagram.

**Decision:** The document was **revised to S6-200215**.

**S6-200215 Pseudo-CR on new solution for CAPIF adaptation**

*Type: pCR For: -  
 23.764 v0.3.0  
 Source: Ericsson*

(Replaces S6-200080)

**Discussion:**

Ericsson presented the document available as S6-200215.

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

**S6-200139 Key issue on application layer support for groupcast**

*Type: pCR For: Approval  
 23.764 v0.3.0  
 Source: Huawei, Hisilicon*

**Abstract:**

Proposal for Key issue on application layer support for groupcast

**Discussion:**

Huawei presented the document available as S6-200139.

Qualcomm raised a concern with the viability of the solution that would result of the proposed key issue as it was a very limited use case.

**Decision:** The document was **revised to S6-200216**.

**S6-200216 Key issue on application layer support for groupcast**

*Type: pCR For: Approval  
 23.764 v0.3.0  
 Source: Huawei, Hisilicon*

(Replaces S6-200139)

**Discussion:**

Huawei presented the document available as S6-200216.

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

**S6-200140 Solution to group management enhancement for groupcast**

*Type: pCR For: Approval  
 23.764 v0.3.0  
 Source: Huawei, Hisilicon*

**Abstract:**

Proposal for Solution to group management enhancement for groupcast

**Discussion:**

Huawei presented the document available as S6-200140.

The Qualcomm made a remark that it was not necessary to burden the on-network case with each off-network modification, and suggested to modify the proposal accordingly.

**Decision:** The document was **revised to S6-200217**.

**S6-200217 Solution to group management enhancement for groupcast**

*Type: pCR For: Approval  
 23.764 v0.3.0  
 Source: Huawei, Hisilicon*

(Replaces S6-200140)

**Discussion:**

Huawei presented the document available as S6-200217.

**Decision:** The document was **revised to S6-200319**.

**S6-200319 Solution to group management enhancement for groupcast**

*Type: pCR For: Approval  
 23.764 v0.3.0  
 Source: Huawei, Hisilicon*

(Replaces S6-200217)

**Discussion:**

Huawei presented the document available as S6-200319.

Ericsson pointed out a concern with possible different interpretations of the member ID.

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

**S6-200137 Update to V2XAPP functional model**

*Type: pCR For: Approval  
 23.764 v0.3.0  
 Source: Huawei, Hisilicon*

**Abstract:**

Proposal for Update to V2XAPP functional model

**Discussion:**

Huawei presented the document available as S6-200137.

Ericsson pointed out it was not clear which key issue the solution related to, they also suggested adding a figure.

**Decision:** The document was **revised to S6-200218**.

**S6-200218 Update to V2XAPP functional model**

*Type: pCR For: Approval  
 23.764 v0.3.0  
 Source: Huawei, Hisilicon*

(Replaces S6-200137)

**Discussion:**

Huawei presented the document available as S6-200218.

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

### 11.7 FS\_5GMARCH – Study on support of the 5GMSG Service

**S6-200153 Pseudo-CR on editorials in scenarios**

*Type: pCR For: Approval  
 23.700-24 v0.3.0  
 Source: Samsung*

**Abstract:**

The contribution proposes to harmonize the terminology across all the scenarios described in Clause 4.

**Discussion:**

Samsung presented the document available as S6-200153.

Convida Wireless pointed out they had a contribution on UE types (S6-200155).

**Decision:** The document was **revised to S6-200219**.

**S6-200219 Pseudo-CR on editorials in scenarios**

*Type: pCR For: Approval  
 23.700-24 v0.3.0  
 Source: Samsung*

(Replaces S6-200153)

**Discussion:**

Samsung presented the document available as S6-200219.

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

**S6-200152 Missing scenarios in 5G MSG**

*Type: discussion For: Endorsement  
 23.700-24 v..  
 Source: Samsung*

**Abstract:**

The present document identifies the message scenarios which are missing in 3GPP TR 23.700-24 description.

**Discussion:**

Samsung presented the document available as S6-200152.

Convida Wireless agreed with the conclusions of the contribution.

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

**S6-200155 FS\_5GMARCH UE type definitions**

*Type: pCR For: Approval  
 23.700-24 v0.3.0  
 Source: Convida Wireless LLC, one2many, Samsung*

**Abstract:**

This document proposes to agree on UE type definitions for the purpose of describing the SA6 MSGin5G Application Services, which are independent from the UE types described in 3GPP TS 22.262.

**Discussion:**

Convida Wireless presented the document available as S6-200152.

The meeting seemed to show no concern with SA6 to define their own UE types.

The meeting also agreed to rename the MSGin5G Application Service along the lines of 5GmsgServ.

**Decision:** The document was **revised to S6-200220**.

**S6-200220 FS\_5GMARCH UE type definitions**

*Type: pCR For: Approval  
 23.700-24 v0.3.0  
 Source: Convida Wireless LLC, one2many, Samsung*

(Replaces S6-200155)

**Discussion:**

Convida Wireless presented the document available as S6-200220.

The only change is to delete the sentence "In addition, Non-3GPP UE type may also originate 5GMSGS Application Service messaging." (above figure 7.1-1).

With the above change the revised contribution, S6-200330, is considered pre-approved.

**Decision:** The document was **revised to S6-200330**.

**S6-200330 FS\_5GMARCH UE type definitions**

*Type: pCR For: Approval  
 23.700-24 v0.3.0  
 Source: Convida Wireless LLC, one2many, Samsung*

(Replaces S6-200220)

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

**S6-200154 Pseudo-CR on SEAL usage in 5G MSG**

*Type: pCR For: Approval  
 23.700-24 v0.3.0  
 Source: Samsung*

**Abstract:**

As per the current description in 3GPP TR 23.700-24, SEAL is at least expected to be used for Group management. It is proposed to update the Application architecture of the MSGin5G Service depicting the SEAL client and SEAL server. Additionally, it is proposed to include reference points from SEAL specification corresponding to the Group Management and Configuration Management.

**Discussion:**

Samsung presented the document available as S6-200154.

Ericsson pointed out an error in NOTE 3, and suggested deleting "SEAL-PC5".

Motorola Solutions did not support including the change to the architecture.

**Decision:** The document was **revised to S6-200221**.

**S6-200221 Pseudo-CR on SEAL usage in 5G MSG**

*Type: pCR For: Approval  
 23.700-24 v0.3.0  
 Source: Samsung*

(Replaces S6-200154)

**Discussion:**

Samsung presented the document available as S6-200221.

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

**S6-200156 FS\_5GMARCH KI1 solution**

*Type: pCR For: Approval  
 23.700-24 v0.3.0  
 Source: Convida Wireless LLC*

**Abstract:**

This document proposes a new solution for Key Issue #1 regarding satisfying the requirement [R-5.1.2-004] of 3GPP TS 22.262 - R-5.1.2-0004 of TS 22.262.

**Discussion:**

Convida Wireless presented the document available as S6-200156.

Ericsson raised a concern that two entities can start the supervision initiation.

Qualcomm suggested stopping the procedure flow at MSGin5G without showing the application client. They also pointed out that delivery status acknowledgement had already been defined and could be reused.

**Decision:** The document was **revised to S6-200222**.

**S6-200222 FS\_5GMARCH KI1 solution**

*Type: pCR For: Approval  
 23.700-24 v0.3.0  
 Source: Convida Wireless LLC*

(Replaces S6-200156)

**Discussion:**

Revised prior to presentation.

**Decision:** The document was **revised to S6-200331**.

**S6-200331 FS\_5GMARCH KI1 solution**

*Type: pCR For: Approval  
 23.700-24 v0.3.0  
 Source: Convida Wireless LLC*

(Replaces S6-200222)

**Discussion:**

Convida Wireless presented the document available as S6-200331.

AT&T raised a strong concern with proposed use of timers.

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

**S6-200055 FS\_5GMARCH KI4 solution**

*Type: pCR For: Agreement  
 23.700-24 v0.3.0  
 Source: Convida Wireless LLC*

**Abstract:**

This document proposes a new solution for Key Issue #4 regarding specifying a MSGin5G trigger procedure.

**Discussion:**

Convida Wireless presented the document available as S6-200055.

Ericsson suggested rephrasing the last sentence in 2nd paragraph step 2.

Samsung suggested removing step 8 and turning the description into a note.

**Decision:** The document was **revised to S6-200250**.

**S6-200250 FS\_5GMARCH KI4 solution**

*Type: pCR For: Agreement  
 23.700-24 v0.3.0  
 Source: Convida Wireless LLC*

(Replaces S6-200055)

**Discussion:**

Revised prior to presentation.

**Decision:** The document was **revised to S6-200320**.

**S6-200320 FS\_5GMARCH KI4 solution**

*Type: pCR For: Agreement  
 23.700-24 v0.3.0  
 Source: Convida Wireless LLC, one2many*

(Replaces S6-200250)

**Discussion:**

Convida Wireless presented the document available as S6-200320.

The only change is replacing the third bullet in the Trigger Purpose IE description (table 6.X.1.2-1) to read " For an Application Client on the UE to be available to receive a request from an Application Server for a period of time".

With the above changes the revised contribution, S6-200351, is considered pre-approved.

**Decision:** The document was **revised to S6-200351**.

**S6-200351 FS\_5GMARCH KI4 solution**

*Type: pCR For: Agreement  
 23.700-24 v0.3.0  
 Source: Convida Wireless LLC, one2many*

(Replaces S6-200320)

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

### 11.8 FS\_MC5MBS - Study on Mission Critical services over 5G multicast-broadcast system

**S6-200059 Status update on Rel-17 5MBS work in 3GPP and potential impacts on public safety**

*Type: discussion For: Discussion  
 23.774 v..  
 Source: AT&T*

**Discussion:**

AT&T presented the document available as S6-200059.

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

**S6-200060 Completion of TR 23.774**

*Type: pCR For: Approval  
 23.774 v0.2.0  
 Source: AT&T*

**Abstract:**

The following changes/additions are included, in order to complete the TR:

1) Update the References section;

2) Void the currently empty clause 4 and its subclauses;

3) Remove of currently empty subclause 6.2 and its subclauses;

4) Remove of the Editor’s Note in subclause 7.3.1, in view of RAN’s inclusion of SC-PTM support in IDLE mode for Rel-17;

5) Provide text for Clause 8 (“Overall Evaluation”); and

6) Provide text for Clause 9 (“Conclusions”).

**Discussion:**

AT&T presented the document available as S6-200060.

**Decision:** The document was **revised to S6-200205**.

**S6-200205 Completion of TR 23.774**

*Type: pCR For: Approval  
 23.774 v0.2.0  
 Source: AT&T*

(Replaces S6-200060)

**Discussion:**

AT&T presented the document available as S6-200205.

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

**S6-200128 Pseudo-CR on remove receive-only mode description**

*Type: pCR For: Approval  
 23.774 v0.2.0  
 Source: Huawei,Hisilicon*

**Abstract:**

This pCR proposes to remove the receive-only mode description in TR 23.774.

**Discussion:**

AT&T presented the document available as S6-200128.

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

## 12 Future work / New WIDs (including related contributions)

**S6-200118 Revised WID\_EDGEAPP**

*Type: WID revised For: Approval  
 Source: Samsung Electronics*

**Discussion:**

Samsung presented the document available as S6-200118.

The only changes are to:

- update the TS number and

- update list of supporting companies.

With the above changes the revised contribution, S6-200265, is considered pre-agreed.

**Decision:** The document was **revised to S6-200265**.

**S6-200265 Revised WID\_EDGEAPP**

*Type: WID revised For: Approval  
 Source: Samsung Electronics*

(Replaces S6-200118)

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

**S6-200134 Revised SID on enhancements to application layer support for V2X services**

*Type: SID revised For: Agreement  
 Source: Huawei, Hisilicon*

**Abstract:**

Proposal for Revised SID on enhancements to application layer support for V2X services

**Discussion:**

Huawei presented the document available as S6-200134.

The only changes are to:

- correct the SA meeting numbers in clause 5 (for information and approval) to SA#87 and SA#88 respectively and

- and add new supporting companies if any.

With the above changes the revised contribution, S6-200266, is considered pre-agreed.

**Decision:** The document was **revised to S6-200266**.

**S6-200266 Revised SID on enhancements to application layer support for V2X services**

*Type: SID revised For: Agreement  
 Source: Huawei, Hisilicon*

(Replaces S6-200134)

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

**S6-200143 Revised SID Study on application layer support for UAS service**

*Type: SID revised For: Agreement  
 Source: Huawei, Hisilicon*

**Abstract:**

Proposal for Revised SID Study on application layer support for UAS service

**Discussion:**

Huawei presented the document available as S6-200143.

It was suggested to delete the remark "It is expected that no work will be done in Q1/2019." in clause 5.

Qualcomm noted that this would be an opportunity to temporarily suspend the work to allow SA2 to finish their work.

After some further discussion it was concluded not to suspend the work.

There was also some discussion on whether a one-shot approval i.e. for information and approval at the same SA meeting could be considered.

Qualcomm wanted it recorded an objection if a one-shot approval would not be considered.

It was decided to allow for some offline discussions to conclude on most appropriate schedule.

**Decision:** The document was **revised to S6-200267**.

**S6-200267 Revised SID Study on application layer support for UAS service**

*Type: SID revised For: Agreement  
 Source: Huawei, Hisilicon*

(Replaces S6-200143)

**Discussion:**

Huawei presented the document available as S6-200267.

Additional supporting company had been omitted hence the document was further revised, status of the revised document S6-200356 remains agreed.

**Decision:** The document was **revised to S6-200356**.

**S6-200356 Revised SID Study on application layer support for UAS service**

*Type: SID revised For: Agreement  
 Source: Huawei, Hisilicon*

(Replaces S6-200267)

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

**S6-200160 New WID on Enhanced Mission Critical Push-to-talk architecture phase 3**

*Type: WID new For: Agreement  
 Source: Samsung*

**Abstract:**

A proposal for New WID on Enhanced Mission Critical Push-to-talk architecture phase 3

**Discussion:**

Samsung presented the document available as S6-200160.

Motorola Solutions noted that they had a proposal for on the same topic and that they were prepared to go for combined single WID.

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

**S6-200162 New WID on Enhanced Mission Critical Push-to-talk architecture phase 3**

*Type: WID new For: Agreement  
 Source: Motorola Solutions*

**Abstract:**

A proposal for New WID on Enhanced Mission Critical Push-to-talk architecture phase 3

**Discussion:**

Motorola Solutions presented the document available as S6-200160.

Samsung suggested to delete in clause 3:

- in bullet d) sub-bullet i) discreet listening scenarios for the off-network case.

- bullet g) Enhancements and optimizations related to resolving deficiencies in the current specifications (e.g. user regrouping)

Furthermore, Samsung did not support excluding the MCLoc from the WID.

Motorola Solutions did not object normative work on location but suggested a dedicated WID.

The HomeOffice pointed out that location topics was important for them.

Huawei and Ericsson indicated support for a single WID (including MCLoc).

**Decision:** The document was **revised to S6-200268**.

**S6-200268 New WID on Enhanced Mission Critical Push-to-talk architecture phase 3**

*Type: WID new For: Agreement  
 Source: Motorola Solutions*

(Replaces S6-200162)

**Discussion:**

Motorola Solutions presented the document available as S6-200268.

Ericsson did not see the need for the note on FS\_enhMCLoc.

Samsung suggested adding a dependency to FS\_enhMCLoc.

Huawei also raised concern with the note on FS\_enhMCLoc as well as the reference to TS 22.280.

Motorola Solutions made a remark that the intention with the note was simply to give a heads-up that e.g. they might bring a proposal for a dedicated WID on FS\_enhMCLoc.

**Decision:** The document was **revised to S6-200336**.

**S6-200336 New WID on Enhanced Mission Critical Push-to-talk architecture phase 3**

*Type: WID new For: Agreement  
 Source: Motorola Solutions*

(Replaces S6-200268)

**Discussion:**

Motorola Solutions presented the document available as S6-200336.

The only changes are:

- updating list of supporters by removing the question mark after Samsung and

- Replacing "Note" with "NOTE".

With the above changes the revised contribution, S6-200354, is considered pre-agreed.

**Decision:** The document was **revised to S6-200354**.

**S6-200354 New WID on Enhanced Mission Critical Push-to-talk architecture phase 3**

*Type: WID new For: Agreement  
 Source: Motorola Solutions*

(Replaces S6-200336)

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

**S6-200088 Discussion on MC service UE topology hiding**

*Type: discussion For: Discussion  
 Source: BDBOS*

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

**S6-200089 Discussion on MC service UE migration with no migration profile**

*Type: discussion For: Discussion  
 Source: BDBOS*

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

**S6-200174 Reserved for track 1**

*Type: other For: discussion  
 Source: n/a*

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

## 13 Work Plan review

**S6-200303 Presentation of Specification/Report to TSG:**

**TR 23.774, Version 0.3.0**

*Type: TS or TR cover For: Approval  
 23.774 v..  
 Source: AT&T*

**Discussion:**

Motorola Solutions presented the document available as S6-200303.

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

**S6-200282 SA6#35 Work Plan review**

*Type: other For: discussion  
 Source: Qualcomm*

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

## 14 Future meetings

### 14.1 Timing of SA6#39

It was discussed whether or not to move SA#39 forward one week.

AT&T indicated they were unhappy with moving the meeting due to a public holiday in US.

Qualcomm indicated that once the initial dates have been set the dates should only been moved under extreme reasons. However, they did not object to the moving of SA6#39 regardless of the bank holiday in US.

After discussion the move of SA6#39 to take place from 31/8 - 4/9 was confirmed.

### 14.2 SA6 Adhoc/bis

The chairman noted he had received green light from EF3 for organising an additional SA6 meeting 12-16 October 2020 in Tallinn. It was concluded the meeting would in fact be SA6#39bis in order to allow for decisions.

### 14.3 SA6 #38

**S6-200214 SA6#38 Helsinki meeting**

*Type: other For: Information  
 Source: Airbus*

**Discussion:**

Airbus presented the document available as S6-200214.

There was a discussion on the various hosting options.

However, there were also some concerns voiced e.g. for the time required for the transport between the hotel and meeting location.

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

## 15 AOB

InterDigital encouraged rapporteurs to make drafts available as quickly as possible and if feasible to allow review of specs in particular those with lots of changes.

## 16 Close of the meeting

Vodafone thanked the host for exceptional arrangements.

The chairman Suresh Chitturi (Samsung ) thanked the vice chairmen Jukka Vialen (Airbus) for chairing the parallel stream and Alan Soloway (Qualcomm) for chairing the drafting session.

The chairman further thanked the

- Indian Friends of 3GPP (IF3) and the Cellular Operators Association of India (COAI) for the arrangements of the meeting,

- rapporteurs and delegates for their hard work and

- the MCC for the support.

Qualcomm thanked the chairman for chairing not only this meeting but his already two years of service as a chairman.

Report prepared by: MCC

## Annex A: List of contribution documents

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Decision | Replaces | Replaced by |
| S6-200001 | SA6 Meeting 35 Agenda | SA6 Chairman | noted |  |  |
| S6-200002 | SA6 Meeting 34 Report | MCC | approved |  |  |
| S6-200003 | SA6 Meeting #35 - Agenda with Tdocs allocation after submission deadline | SA6 Chairman | noted |  |  |
| S6-200004 | SA6 Meeting #35 - Agenda with Tdocs allocation at start of the meeting | SA6 Chairman | approved |  |  |
| S6-200005 | SA6 Meeting #35 - Chairman's notes at end of the meeting | SA6 Chairman | noted |  |  |
| S6-200006 | LS on Unicast resource management with SIP core | CT1 | replied to |  |  |
| S6-200007 | LS on Enquiries for supporting vertical applications | CT1 | replied to |  |  |
| S6-200008 | LS to CT1 on 3rd ETSI MCX Remote Plugtest | SA3 | noted |  |  |
| S6-200009 | LS on analysis of GSMA GST attributes | SA5 | noted |  |  |
| S6-200010 | Reply LS on Application Architecture for enabling Edge Applications | SA5 | replied to |  |  |
| S6-200011 | LS on Split of work responsibilities between SA2 and SA6 | SA2 | replied to |  |  |
| S6-200012 | LS on Control Room Workshop | TCCA | noted |  |  |
| S6-200013 | Pseudo-CR on Update of Annex A to V17.0.0 | The Police of the Netherlands | approved |  |  |
| S6-200014 | Pseudo-CR on Update of Annex B to V17.0.0 | The Police of the Netherlands | approved |  |  |
| S6-200015 | Pseudo-CR on Update of Annex C to V17.0.0 | The Police of the Netherlands | approved |  |  |
| S6-200016 | Pseudo-CR on Update of Annex D to V17.0.0 | The Police of the Netherlands | approved |  |  |
| S6-200017 | Pseudo-CR on Update of Annex E to V17.0.0 | The Police of the Netherlands | approved |  |  |
| S6-200018 | Pseudo-CR on Update to Key Issues | The Police of the Netherlands | approved |  |  |
| S6-200019 | Add announced call transfer for MCPTT private calls | Kontron Transportation France | revised |  | S6-200175 |
| S6-200020 | Add call deflection for MCPTT private calls | Kontron Transportation France | revised |  | S6-200176 |
| S6-200021 | Clarification on procedures related to server to server communication | Kontron Transportation France | not pursued |  |  |
| S6-200022 | MCover5GS Key issue 5 3GPP system connectivity | UIC | revised |  | S6-200201 |
| S6-200023 | Enhancing MCPTT communication requests with application priority capabilities in on-network mode | UIC | revised |  | S6-200177 |
| S6-200024 | Enhancing MCVideo communication requests with application priority capabilities in on-network mode | UIC | revised |  | S6-200178 |
| S6-200025 | Gateway UE | UIC | noted |  |  |
| S6-200026 | Missing reference point | Sepura PLC | not pursued |  |  |
| S6-200027 | 3GPP location services for Network assisted positioning for USS/UTM | InterDigital | revised |  | S6-200263 |
| S6-200028 | LS on Requirements on positioning for UAS | InterDigital | revised |  | S6-200269 |
| S6-200029 | Trusted and untrusted location reporting requirements | InterDigital | revised |  | S6-200264 |
| S6-200030 | Clarification of terminology | InterDigital | revised |  | S6-200261 |
| S6-200031 | Review of UAS service requirements | InterDigital | revised |  | S6-200262 |
| S6-200032 | Clause 4 versus Annex A | InterDigital | revised |  | S6-200260 |
| S6-200033 | Correction of internal clause references for Enhanced Status transmission | Sepura, Hytera Communications Corp | revised |  | S6-200196 |
| S6-200034 | Clarification on functional alias to group binding function | ZTE Trunking Technology Corp. | revised |  | S6-200179 |
| S6-200035 | Alignment of functional alias to group binding handling in MCVideo | ZTE Trunking Technology Corp. | revised |  | S6-200180 |
| S6-200036 | Clarification on procedures related to server to server communication | Kontron Transportation France | not pursued |  |  |
| S6-200037 | Pseudo-CR on Initial content for the EAS Discovery section | Vodafone Romania S.A., Nokia | noted |  |  |
| S6-200038 | Stage 1 requirements and their treatment in stage 2 | Nokia, Nokia Shanghai Bell | noted |  |  |
| S6-200039 | To-do-list for eMONASTERY2 | Nokia, Nokia Shanghai Bell | noted |  |  |
| S6-200040 | Clarification on procedures related to server to server communication | Nokia, Nokia Shanghai Bell, Kontron Transportation | withdrawn |  |  |
| S6-200041 | Clarification on procedures related to server to server communication | Nokia, Nokia Shanghai Bell, Kontron Transportation | withdrawn |  |  |
| S6-200042 | Introducing a functional alias as target address for private calls | Nokia, Nokia Shanghai Bell | revised |  | S6-200181 |
| S6-200043 | Adding missing server to server information flows for group calls | Nokia, Nokia Shanghai Bell | revised |  | S6-200182 |
| S6-200044 | Adding missing server to server information flows for private calls | Nokia, Nokia Shanghai Bell | revised |  | S6-200183 |
| S6-200045 | Brief review of recent FAA’s Remote Identification of Unmanned Aircraft Systems | Tencent | noted |  |  |
| S6-200046 | Advanced communication elements between UAS and USS | Tencent | noted |  |  |
| S6-200047 | EEC registration based on TR solution 8 | Convida Wireless | revised |  | S6-200239 |
| S6-200048 | EAS registration based on TR solution 12 | Convida Wireless LLC | revised |  | S6-200240 |
| S6-200049 | EES registration based on TR solution 17 | Convida Wireless LLC | revised |  | S6-200241 |
| S6-200050 | EAS discovery based on TR solutions 1 and 13 | Convida Wireless LLC | revised |  | S6-200242 |
| S6-200051 | EDN provisioning based on TR solutions 2 and 3 | Convida Wireless LLC | revised |  | S6-200238 |
| S6-200052 | Client Info based on TR solution 25 | Convida Wireless LLC | revised |  | S6-200245 |
| S6-200053 | Service continuity based on TR solutions 9 16 20 21 | Convida Wireless | postponed |  |  |
| S6-200054 | FS\_FFApp KI 8 Solution | Convida Wireless | revised |  | S6-200257 |
| S6-200055 | FS\_5GMARCH KI4 solution | Convida Wireless LLC | revised |  | S6-200250 |
| S6-200056 | Pseudo-CR on adding a requirement for IOPS MC system to support UE mobility | ZTE Trunking Technology Corp. | revised |  | S6-200184 |
| S6-200057 | Lifecyle management of edge applications | Nokia, Nokia Shanghai Bell, Vodafone | revised |  | S6-200236 |
| S6-200058 | IoT API: Edge and Fog Computing | oneM2M TP (meeting 43, December 2019) | noted |  |  |
| S6-200059 | Status update on Rel-17 5MBS work in 3GPP and potential impacts on public safety | AT&T | noted |  |  |
| S6-200060 | Completion of TR 23.774 | AT&T | revised |  | S6-200205 |
| S6-200061 | Pseudo-CR on Scope | Intel Corporation (UK) Ltd | merged |  | S6-200224 |
| S6-200062 | Pseudo-CR on Identifiers and commonly used values | Intel Corporation (UK) Ltd | revised |  | S6-200234 |
| S6-200063 | Discussion on business relationship cardinality | Intel Corporation (UK) Ltd | noted |  |  |
| S6-200064 | Pseudo-CR on Involved business relationships and cardinality | Intel Corporation (UK) Ltd | merged |  | S6-200246 |
| S6-200065 | Corrections and enhancements to IP Connectivity | AT&T GNS Belgium SPRL | revised |  | S6-200189 |
| S6-200066 | Solution- FF application layer functional model update | ZTE Photonics | revised |  | S6-200252 |
| S6-200067 | Solution- Edge deployment within FFAPP | ZTE Photonics | revised |  | S6-200258 |
| S6-200068 | Report on SA6 related topics at SA#86 | SA6 Chairman | noted |  |  |
| S6-200069 | Solution-FFAPP provisioning within Edge Data Network configuration | ZTE Photonics | revised |  | S6-200259 |
| S6-200070 | Solution- Device Onboarding Support in FF which reference to oneM2M solution | ZTE Photonics | revised |  | S6-200161 |
| S6-200071 | Shared CAPIF provider domain info in interconnection | Ericsson | revised |  | S6-200166 |
| S6-200072 | Complete SS\_NetworkResourceAdaptation API | Ericsson | agreed |  |  |
| S6-200073 | Correct dynamic MBMS bearer establishment | Ericsson | agreed |  |  |
| S6-200074 | Add VAE application requirement notification | Ericsson | agreed |  |  |
| S6-200075 | Add VAE service continuity API | Ericsson | revised |  | S6-200168 |
| S6-200076 | V2XAPP Group Management | Ericsson | noted |  |  |
| S6-200077 | Correct Group Management procedure | Ericsson | revised |  | S6-200170 |
| S6-200078 | Correct Group Management procedure | Ericsson | not pursued |  |  |
| S6-200079 | Pseudo-CR on new KI for CAPIF adaptation | Ericsson | approved |  |  |
| S6-200080 | Pseudo-CR on new solution for CAPIF adaptation | Ericsson | revised |  | S6-200215 |
| S6-200081 | Pseudo-CR on Architecture requirement for edge application enabler | Ericsson | merged |  | S6-200228 |
| S6-200082 | Remove the EN in KI#4 | ZTE Corporation | revised |  | S6-200253 |
| S6-200083 | New solution for Key issue 4 | ZTE corporation | revised |  | S6-200254 |
| S6-200084 | Update the key issue 7 | ZTE Corporation | revised |  | S6-200255 |
| S6-200085 | Align with TS 23.434 | ZTE Corporation | revised |  | S6-200167 |
| S6-200086 | Enhancements and clarifications for file repair and file delivery using MBMS | AT&T | revised |  | S6-200190 |
| S6-200087 | Pseudo-CR on solution for location information of unauthenticated user | BDBOS | postponed |  |  |
| S6-200088 | Discussion on MC service UE topology hiding | BDBOS | postponed |  |  |
| S6-200089 | Discussion on MC service UE migration with no migration profile | BDBOS | postponed |  |  |
| S6-200090 | Application context relocation | Samsung | postponed |  |  |
| S6-200091 | Involved business relationships | Samsung | revised |  | S6-200246 |
| S6-200092 | Deployment model | Samsung | revised |  | S6-200247 |
| S6-200093 | UE location reporting API | Samsung | revised |  | S6-200243 |
| S6-200094 | Pseudo-CR on IOPS discovery update | Ericsson | revised |  | S6-200185 |
| S6-200095 | Pseudo-CR on MCPTT private call in IOPS – Call setup in manual commencement mode | Ericsson | revised |  | S6-200186 |
| S6-200096 | Pseudo-CR on MCPTT private call in IOPS – Call release | Ericsson | revised |  | S6-200187 |
| S6-200097 | Pseudo-CR on Removing Editor’s Note from the IOPS MCPTT group call procedure | Ericsson | approved |  |  |
| S6-200098 | pCR on Editorial changes to TS 23.180 | Ericsson | approved |  |  |
| S6-200099 | Pseudo-CR on Service Authentication for Edge Computing Service | Alibaba Group, China Mobile | withdrawn | S6-191329 |  |
| S6-200100 | Pseudo-CR on definitions | CATT | postponed |  |  |
| S6-200101 | Pseudo-CR on identities | CATT | postponed |  |  |
| S6-200102 | Pseudo-CR on requirements for edge application announcement and update | CATT | revised |  | S6-200232 |
| S6-200103 | Pseudo-CR on requirements on traffic management | CATT | revised |  | S6-200233 |
| S6-200104 | Pseudo-CR on 5GC level roaming for key issue 2 | CATT | revised |  | S6-200203 |
| S6-200105 | Pseudo-CR on 5G resource management for key issue 5 | CATT | revised |  | S6-200202 |
| S6-200106 | Pseudo-CR on new key issue for service based architecture | CATT | revised |  | S6-200204 |
| S6-200107 | Proposed skeleton for TS 23.558 | Samsung Electronics | revised |  | S6-200223 |
| S6-200108 | Pseudo-CR on Introduction and Scope | Samsung Electronics | revised |  | S6-200224 |
| S6-200109 | Pseudo-CR on Architecture Principles | Samsung Electronics | noted |  |  |
| S6-200110 | Pseudo-CR on General requirements | Samsung Electronics | revised |  | S6-200225 |
| S6-200111 | Pseudo-CR on Requirements for Edge Data Network configuration data | Samsung Electronics | revised |  | S6-200226 |
| S6-200112 | Pseudo-CR on Requirements for Edge Enabler Client registration | Samsung Electronics | revised |  | S6-200227 |
| S6-200113 | Pseudo-CR on Requirements for Edge Application Server enablement | Samsung Electronics | revised |  | S6-200228 |
| S6-200114 | Pseudo-CR on Requirements for Edge Application Server discovery | Samsung Electronics | revised |  | S6-200229 |
| S6-200115 | Pseudo-CR on Requirements for Capability exposure to Edge Application Servers | Samsung Electronics | revised |  | S6-200230 |
| S6-200116 | Pseudo-CR on Requirements for Security | Samsung Electronics | revised |  | S6-200231 |
| S6-200117 | Pseudo-CR on Architecture and reference points | Samsung Electronics | revised |  | S6-200235 |
| S6-200118 | Revised WID\_EDGEAPP | Samsung Electronics | revised |  | S6-200265 |
| S6-200119 | Update to solution EAS discovery based on EDN CS | Huawei,Hisilicon | not pursued |  |  |
| S6-200120 | EAS discovery based on EES acting as DNS proxy | Huawei,Hisilicon | not pursued |  |  |
| S6-200121 | Evaluation\_conclusion and proposal on EAS discovery solutions | Huawei,Hisilicon | noted |  |  |
| S6-200122 | Pseudo-CR on EAS discovery based on EES acting as DNS proxy | Huawei,Hisilicon | noted |  |  |
| S6-200123 | Evaluation, conclusion and proposal on solutions to preserving service continuity | Huawei,Hisilicon | noted |  |  |
| S6-200124 | Pseudo-CR on EAS initiated application context relocation | Huawei,Hisilicon | postponed |  |  |
| S6-200125 | Enhancement to group regroup at GMS using preconfigured group | Huawei,Hisilicon | revised |  | S6-200198 |
| S6-200126 | enhancement to user regroup at GMS using preconfigured group | Huawei,Hisilicon | revised |  | S6-200199 |
| S6-200127 | Add temporary group teardown within an MC system | Huawei,Hisilicon | revised |  | S6-200200 |
| S6-200128 | Pseudo-CR on remove receive-only mode description | Huawei,Hisilicon | approved |  |  |
| S6-200129 | Edge application architecture | Huawei, Hisilicon | merged |  | S6-200235 |
| S6-200130 | EDN definition | Huawei, Hisilicon | revised |  | S6-200324 |
| S6-200131 | 5GC capability exposure to the edge application servers | Huawei, Hisilicon | revised |  | S6-200244 |
| S6-200132 | Serving area information for service APIs to support edge applications | Huawei, Hisilicon | revised |  | S6-200249 |
| S6-200133 | Involved business relationships for edge computing services | Huawei, Hisilicon | merged |  | S6-200246 |
| S6-200134 | Revised SID on enhancements to application layer support for V2X services | Huawei, Hisilicon | revised |  | S6-200266 |
| S6-200135 | Analysis of TS 23.287 | Huawei, Hisilicon | revised |  | S6-200171 |
| S6-200136 | Requirements for interworking between EPS V2X and 5GS V2X | Huawei, Hisilicon | revised |  | S6-200172 |
| S6-200137 | Update to V2XAPP functional model | Huawei, Hisilicon | revised |  | S6-200218 |
| S6-200138 | Editorial corrections | Huawei, Hisilicon | approved |  |  |
| S6-200139 | Key issue on application layer support for groupcast | Huawei, Hisilicon | revised |  | S6-200216 |
| S6-200140 | Solution to group management enhancement for groupcast | Huawei, Hisilicon | revised |  | S6-200217 |
| S6-200141 | Update to FFAPP architecture in solution#1 | Huawei, Hisilicon | revised |  | S6-200251 |
| S6-200142 | Update to solution#2 to align with FFAPP architecture | Huawei, Hisilicon | approved |  |  |
| S6-200143 | Revised SID Study on application layer support for UAS service | Huawei, Hisilicon | revised |  | S6-200267 |
| S6-200144 | Pseudo-CR on Initial content for edge application enablement | Nokia, Nokia Shanghai Bell, Vodafone | revised |  | S6-200145 |
| S6-200145 | Pseudo-CR on Initial content for edge application enablement | Nokia, Nokia Shanghai Bell, Vodafone | merged | S6-200144 | S6-200228 |
| S6-200146 | Clarification on prepending the MCData content server URI | Samsung | revised |  | S6-200193 |
| S6-200147 | Inclusion of MCData content server address in initial UE configuration | Samsung | not pursued |  |  |
| S6-200148 | Local policies at Partner MCData system is not applied | Samsung | revised |  | S6-200195 |
| S6-200149 | Clarification on prepending the MCData content server URI | Samsung | revised |  | S6-200192 |
| S6-200150 | Inclusion of MCData content server address in initial UE configuration | Samsung | not pursued |  |  |
| S6-200151 | Local policies at Partner MCData system is not applied | Samsung | revised |  | S6-200194 |
| S6-200152 | Missing scenarios in 5G MSG | Samsung | endorsed |  |  |
| S6-200153 | Pseudo-CR on editorials in scenarios | Samsung | revised |  | S6-200219 |
| S6-200154 | Pseudo-CR on SEAL usage in 5G MSG | Samsung | revised |  | S6-200221 |
| S6-200155 | FS\_5GMARCH UE type definitions | Convida Wireless LLC, one2many, Samsung | revised |  | S6-200220 |
| S6-200156 | FS\_5GMARCH KI1 solution | Convida Wireless LLC | revised |  | S6-200222 |
| S6-200157 | Pseudo-CR on Deployment Views on EDNCS | Sony | revised |  | S6-200248 |
| S6-200158 | Edge Computing platform capability discovery | Qualcomm Incorporated | noted |  |  |
| S6-200159 | Usage of Edge Data Network and Edge Hosting Environment | Qualcomm Incorporated | noted |  |  |
| S6-200160 | New WID on Enhanced Mission Critical Push-to-talk architecture phase 3 | Samsung | merged |  | S6-200268 |
| S6-200161 | Solution- Device Onboarding Support in FF which reference to oneM2M solution | ZTE Corporation, Deutsche Telekom | revised | S6-200070 | S6-200256 |
| S6-200162 | New WID on Enhanced Mission Critical Push-to-talk architecture phase 3 | Motorola Solutions | revised |  | S6-200268 |
| S6-200163 | Reply LS on Unicast resource management with SIP core | SA6 | approved | - | - |
| S6-200164 | Reply LS on Enquiries for supporting vertical applications | SA6 | revised | - | S6-200337 |
| S6-200165 | Reply LS on Split of work responsibilities between SA2 and SA6 | SA6 | revised | - | S6-200357 |
| S6-200166 | Shared CAPIF provider domain info in interconnection | Ericsson | agreed | S6-200071 | - |
| S6-200167 | Align with TS 23.434 | ZTE Corporation | agreed | S6-200085 | - |
| S6-200168 | Add VAE service continuity API | Ericsson | agreed | S6-200075 | - |
| S6-200169 | LS on API additions to SEAL and V2XAPP | SA6 | revised | - | S6-200270 |
| S6-200170 | Correct Group Management procedure | Ericsson | agreed | S6-200077 | - |
| S6-200171 | Analysis of TS 23.287 | Huawei, Hisilicon | revised | S6-200135 | S6-200301 |
| S6-200172 | Requirements for interworking between EPS V2X and 5GS V2X | Huawei, Hisilicon | approved | S6-200136 | - |
| S6-200173 | Clarification on MCPTT server performing the controlling role and the participating role for the MCX services | Kontron | withdrawn | - | - |
| S6-200174 | Reserved for track 1 | n/a | withdrawn | - | - |
| S6-200175 | Add announced call transfer for MCPTT private calls | Kontron Transportation France | revised | S6-200019 | S6-200207 |
| S6-200176 | Add call deflection for MCPTT private calls | Kontron Transportation France | revised | S6-200020 | S6-200208 |
| S6-200177 | Enhancing MCPTT communication requests with application priority capabilities in on-network mode | UIC | revised | S6-200023 | S6-200209 |
| S6-200178 | Enhancing MCVideo communication requests with application priority capabilities in on-network mode | UIC | revised | S6-200024 | S6-200210 |
| S6-200179 | Clarification on functional alias to group binding function | ZTE Trunking Technology Corp. | revised | S6-200034 | S6-200211 |
| S6-200180 | Alignment of functional alias to group binding handling in MCVideo | ZTE Trunking Technology Corp. | revised | S6-200035 | S6-200212 |
| S6-200181 | Introducing a functional alias as target address for private calls | Nokia, Nokia Shanghai Bell | revised | S6-200042 | S6-200213 |
| S6-200182 | Adding missing server to server information flows for group calls | Nokia, Nokia Shanghai Bell | agreed | S6-200043 | - |
| S6-200183 | Adding missing server to server information flows for private calls | Nokia, Nokia Shanghai Bell | agreed | S6-200044 | - |
| S6-200184 | Pseudo-CR on adding a requirement for IOPS MC system to support UE mobility | ZTE Trunking Technology Corp. | revised | S6-200056 | S6-200280 |
| S6-200185 | Pseudo-CR on IOPS discovery update | Ericsson | approved | S6-200094 | - |
| S6-200186 | Pseudo-CR on MCPTT private call in IOPS – Call setup in manual commencement mode | Ericsson | approved | S6-200095 | - |
| S6-200187 | Pseudo-CR on MCPTT private call in IOPS – Call release | Ericsson | approved | S6-200096 | - |
| S6-200188 | Purpose of requested priority | UIC | revised | - | S6-200206 |
| S6-200189 | Corrections and enhancements to IP Connectivity | AT&T GNS Belgium SPRL | revised | S6-200065 | S6-200281 |
| S6-200190 | Enhancements and clarifications for file repair and file delivery using MBMS | AT&T | revised | S6-200086 | S6-200273 |
| S6-200191 | Enhancements and clarifications for file repair and file delivery using MBMS | AT&T | revised | - | S6-200272 |
| S6-200192 | Clarification on prepending the MCData content server URI | Samsung | revised | S6-200149 | S6-200274 |
| S6-200193 | Clarification on prepending the MCData content server URI | Samsung | revised | S6-200146 | S6-200275 |
| S6-200194 | Local policies at Partner MCData system is not applied | Samsung | agreed | S6-200151 | - |
| S6-200195 | Local policies at Partner MCData system is not applied | Samsung | agreed | S6-200148 | - |
| S6-200196 | Correction of internal clause references for Enhanced Status transmission | Sepura, Hytera Communications Corp | revised | S6-200033 | S6-200276 |
| S6-200197 | Correction of internal clause references for Enhanced Status transmission | Sepura, Hytera Communications Corp | agreed | - | - |
| S6-200198 | Enhancement to group regroup at GMS using preconfigured group | Huawei,Hisilicon | revised | S6-200125 | S6-200302 |
| S6-200199 | Enhancement to user regroup at GMS using preconfigured group | Huawei,Hisilicon | revised | S6-200126 | S6-200304 |
| S6-200200 | Add temporary group teardown within an MC system | Huawei,Hisilicon | agreed | S6-200127 | - |
| S6-200201 | MCover5GS Key issue 5 3GPP system connectivity | UIC, CATT | revised | S6-200022 | S6-200308 |
| S6-200202 | Pseudo-CR on 5G resource management for key issue 5 | CATT, UIC | approved | S6-200105 | - |
| S6-200203 | Pseudo-CR on 5GC level roaming for key issue 2 | CATT | approved | S6-200104 | - |
| S6-200204 | Pseudo-CR on new key issue for service based architecture | CATT | postponed | S6-200106 | - |
| S6-200205 | Completion of TR 23.774 | AT&T | approved | S6-200060 | - |
| S6-200206 | Purpose of requested priority | UIC | agreed | S6-200188 | - |
| S6-200207 | Add announced call transfer for MCPTT private calls | Kontron Transportation France | revised | S6-200175 | S6-200277 |
| S6-200208 | Add call deflection for MCPTT private calls | Kontron Transportation France | revised | S6-200176 | S6-200278 |
| S6-200209 | Enhancing MCPTT communication requests with application priority capabilities in on-network mode | UIC | agreed | S6-200177 | - |
| S6-200210 | Enhancing MCVideo communication requests with application priority capabilities in on-network mode | UIC | revised | S6-200178 | S6-200279 |
| S6-200211 | Clarification on functional alias to group binding function | ZTE Trunking, Motorola Solutions | agreed | S6-200179 | - |
| S6-200212 | Alignment of functional alias to group binding handling in MCVideo | ZTE Trunking, Motorola Solutions | agreed | S6-200180 | - |
| S6-200213 | Introducing a functional alias as target address for private calls | Nokia, Nokia Shanghai Bell | postponed | S6-200181 | - |
| S6-200214 | SA6#38 Helsinki meeting | Airbus | noted | - | - |
| S6-200215 | Pseudo-CR on new solution for CAPIF adaptation | Ericsson | approved | S6-200080 | - |
| S6-200216 | Key issue on application layer support for groupcast | Huawei, Hisilicon | approved | S6-200139 | - |
| S6-200217 | Solution to group management enhancement for groupcast | Huawei, Hisilicon | revised | S6-200140 | S6-200319 |
| S6-200218 | Update to V2XAPP functional model | Huawei, Hisilicon | approved | S6-200137 | - |
| S6-200219 | Pseudo-CR on editorials in scenarios | Samsung | approved | S6-200153 | - |
| S6-200220 | FS\_5GMARCH UE type definitions | Convida Wireless LLC, one2many, Samsung | revised | S6-200155 | S6-200330 |
| S6-200221 | Pseudo-CR on SEAL usage in 5G MSG | Samsung | approved | S6-200154 | - |
| S6-200222 | FS\_5GMARCH KI1 solution | Convida Wireless LLC | revised | S6-200156 | S6-200331 |
| S6-200223 | Proposed skeleton for TS 23.558 | Samsung Electronics | revised | S6-200107 | S6-200283 |
| S6-200224 | Pseudo-CR on Introduction and Scope | Samsung Electronics, Intel Corporation (UK) Ltd | revised | S6-200108 | S6-200284 |
| S6-200225 | Pseudo-CR on General requirements | Samsung Electronics | revised | S6-200110 | S6-200285 |
| S6-200226 | Pseudo-CR on Requirements for Edge Data Network configuration data | Samsung Electronics | revised | S6-200111 | S6-200286 |
| S6-200227 | Pseudo-CR on Requirements for Edge Enabler Client registration | Samsung Electronics | revised | S6-200112 | S6-200287 |
| S6-200228 | Pseudo-CR on Requirements for Edge Application Server enablement | Samsung Electronics, Nokia, Nokia Shanghai Bell, Vodafone | revised | S6-200113 | S6-200288 |
| S6-200229 | Pseudo-CR on Requirements for Edge Application Server discovery | Samsung Electronics | revised | S6-200114 | S6-200289 |
| S6-200230 | Pseudo-CR on Requirements for Capability exposure to Edge Application Servers | Samsung Electronics | revised | S6-200115 | S6-200294 |
| S6-200231 | Pseudo-CR on Requirements for Security | Samsung Electronics | revised | S6-200116 | S6-200295 |
| S6-200232 | Pseudo-CR on requirements for edge application announcement and update | CATT | revised | S6-200102 | S6-200296 |
| S6-200233 | Pseudo-CR on requirements on traffic management | CATT | revised | S6-200103 | S6-200297 |
| S6-200234 | Pseudo-CR on Identifiers and commonly used values | Intel Corporation (UK) Ltd | revised | S6-200062 | S6-200307 |
| S6-200235 | Pseudo-CR on Architecture and reference points | Samsung Electronics, Huawei, Hisilicon | revised | S6-200117 | S6-200291 |
| S6-200236 | Lifecyle management of edge applications | Nokia, Nokia Shanghai Bell, Vodafone | revised | S6-200057 | S6-200290 |
| S6-200237 | Reply LS on Application Architecture for enabling Edge Applications | SA6 | revised | - | S6-200271 |
| S6-200238 | EDN provisioning based on TR solutions 2 and 3 | Convida Wireless LLC | revised | S6-200051 | S6-200312 |
| S6-200239 | EEC Registration based on TR solution 8 | Convida Wireless LLC, Samsung | revised | S6-200047 | S6-200325 |
| S6-200240 | EAS registration based on TR solution 12 | Convida Wireless LLC | revised | S6-200048 | S6-200326 |
| S6-200241 | EES registration based on TR solution 17 | Convida Wireless LLC | revised | S6-200049 | S6-200327 |
| S6-200242 | EAS discovery based on TR solutions 1 and 13 | Convida Wireless LLC | revised | S6-200050 | S6-200313 |
| S6-200243 | UE location reporting API | Samsung, AT&T | revised | S6-200093 | S6-200298 |
| S6-200244 | 5GC capability exposure to the edge application servers | Huawei, Hisilicon | merged | S6-200131 | S6-200291 |
| S6-200245 | Client Info based on TR solution 25 | Convida Wireless LLC | postponed | S6-200052 | - |
| S6-200246 | Involved business relationships | Samsung, Huawei, Hisilicon, Intel Corporation (UK) Ltd | revised | S6-200091 | S6-200292 |
| S6-200247 | Deployment model | Samsung | revised | S6-200092 | S6-200299 |
| S6-200248 | Pseudo-CR on Deployment Views on EDNCS | Sony | revised | S6-200157 | S6-200353 |
| S6-200249 | Serving area information for service APIs to support edge applications | Huawei, Hisilicon | revised | S6-200132 | S6-200300 |
| S6-200250 | FS\_5GMARCH KI4 solution | Convida Wireless LLC | revised | S6-200055 | S6-200320 |
| S6-200251 | Update to FFAPP architecture in solution#1 | Huawei, Hisilicon | approved | S6-200141 | - |
| S6-200252 | Solution- FF application layer functional model update | ZTE Photonics | revised | S6-200066 | S6-200309 |
| S6-200253 | Clarification of TSN QoS monitoring | ZTE Corporation | approved | S6-200082 | - |
| S6-200254 | New solution for Key issue 4 | ZTE corporation | revised | S6-200083 | S6-200310 |
| S6-200255 | Key issue on user authorization | ZTE Corporation | revised | S6-200084 | S6-200311 |
| S6-200256 | Solution- Device Onboarding Support in FF which reference to oneM2M solution | ZTE Corporation, Deutsche Telekom | revised | S6-200161 | S6-200293 |
| S6-200257 | FS\_FFApp KI 8 Solution | Convida Wireless | postponed | S6-200054 | - |
| S6-200258 | Solution- Edge deployment within FFAPP | ZTE Photonics | approved | S6-200067 | - |
| S6-200259 | Solution- FFAPP provisioning within Edge Data Network configuration | ZTE Photonics | revised | S6-200069 | S6-200316 |
| S6-200260 | Clause 4 versus Annex A | InterDigital | approved | S6-200032 | - |
| S6-200261 | Clarification of terminology | InterDigital | revised | S6-200030 | S6-200348 |
| S6-200262 | Review of UAS service requirements | InterDigital | revised | S6-200031 | S6-200317 |
| S6-200263 | 3GPP location services for Network assisted positioning for USS/UTM | InterDigital | revised | S6-200027 | S6-200318 |
| S6-200264 | Trusted and untrusted location reporting requirements | InterDigital | revised | S6-200029 | S6-200350 |
| S6-200265 | Revised WID\_EDGEAPP | Samsung Electronics | agreed | S6-200118 | - |
| S6-200266 | Revised SID on enhancements to application layer support for V2X services | Huawei, Hisilicon | agreed | S6-200134 | - |
| S6-200267 | Revised SID Study on application layer support for UAS service | Huawei, Hisilicon | revised | S6-200143 | S6-200356 |
| S6-200268 | New WID on Enhanced Mission Critical Push-to-talk architecture phase 3 | Motorola Solutions | revised | S6-200162 | S6-200336 |
| S6-200269 | LS on Requirements on positioning for UAS | SA6 | approved | S6-200028 | - |
| S6-200270 | LS on API additions to SEAL and V2XAPP | SA6 | approved | S6-200169 | - |
| S6-200271 | Reply LS on Application Architecture for enabling Edge Applications | SA6 | revised | S6-200237 | S6-200306 |
| S6-200272 | Enhancements and clarifications for file repair and file delivery using MBMS | AT&T | agreed | S6-200191 | - |
| S6-200273 | Enhancements and clarifications for file repair and file delivery using MBMS | AT&T | agreed | S6-200190 | - |
| S6-200274 | Clarification on prepending the MCData content server URI | Samsung | agreed | S6-200192 | - |
| S6-200275 | Clarification on prepending the MCData content server URI | Samsung | agreed | S6-200193 | - |
| S6-200276 | Correction of internal clause references for Enhanced Status transmission | Sepura, Hytera Communications Corp | agreed | S6-200196 | - |
| S6-200277 | Add announced call transfer for MCPTT private calls | Kontron Transportation France | revised | S6-200207 | S6-200314 |
| S6-200278 | Add call deflection for MCPTT private calls | Kontron Transportation France | revised | S6-200208 | S6-200315 |
| S6-200279 | Enhancing MCVideo communication requests with application priority capabilities in on-network mode | UIC | agreed | S6-200210 | - |
| S6-200280 | Pseudo-CR on adding a requirement for IOPS MC system to support UE mobility | ZTE Trunking Technology Corp. | approved | S6-200184 | - |
| S6-200281 | Corrections and enhancements to IP Connectivity | AT&T GNS Belgium SPRL | agreed | S6-200189 | - |
| S6-200282 | SA6#35 Work Plan review | Qualcomm | withdrawn | - | - |
| S6-200283 | Proposed skeleton for TS 23.558 | Samsung Electronics | approved | S6-200223 | - |
| S6-200284 | Pseudo-CR on Introduction and Scope | Samsung Electronics, Intel Corporation (UK) Ltd | approved | S6-200224 | - |
| S6-200285 | Pseudo-CR on General requirements | Samsung Electronics, Ericsson | approved | S6-200225 | - |
| S6-200286 | Pseudo-CR on Requirements for Edge Data Network configuration data | Samsung Electronics | approved | S6-200226 | - |
| S6-200287 | Pseudo-CR on Requirements for Edge Enabler Client registration | Samsung Electronics | revised | S6-200227 | S6-200334 |
| S6-200288 | Pseudo-CR on Requirements for Edge Application Server enablement | Samsung Electronics, Nokia, Nokia Shanghai Bell, Vodafone | approved | S6-200228 | - |
| S6-200289 | Pseudo-CR on Requirements for Edge Application Server discovery | Samsung Electronics | approved | S6-200229 | - |
| S6-200290 | Lifecyle management of edge applications | Nokia, Nokia Shanghai Bell, Vodafone | revised | S6-200236 | S6-200305 |
| S6-200291 | Pseudo-CR on Architecture and reference points | Samsung Electronics, Huawei | revised | S6-200235 | S6-200342 |
| S6-200292 | Involved business relationships | Samsung, Intel, Huawei, Hisilicon | revised | S6-200246 | S6-200328 |
| S6-200293 | Solution- Device Onboarding Support in FF which reference to oneM2M solution | ZTE Corporation, Deutsche Telekom | revised | S6-200256 | S6-200335 |
| S6-200294 | Pseudo-CR on Requirements for Capability exposure to Edge Application Servers | Samsung Electronics, Ericsson | approved | S6-200230 | - |
| S6-200295 | Pseudo-CR on Requirements for Security | Samsung Electronics | revised | S6-200231 | S6-200339 |
| S6-200296 | Pseudo-CR on requirements for edge application announcement and update | CATT | revised | S6-200232 | S6-200340 |
| S6-200297 | Pseudo-CR on requirements on traffic management | CATT | revised | S6-200233 | S6-200341 |
| S6-200298 | UE location reporting API | Samsung, AT&T | approved | S6-200243 | - |
| S6-200299 | Deployment model | Samsung | approved | S6-200247 | - |
| S6-200300 | Serving area information for service APIs to support edge applications | Huawei, Hisilicon | agreed | S6-200249 | - |
| S6-200301 | Analysis of TS 23.287 | Huawei, Hisilicon | approved | S6-200171 | - |
| S6-200302 | Enhancement to group regroup at GMS using preconfigured group | Huawei,Hisilicon | postponed | S6-200198 | - |
| S6-200303 | Presentation of Specification/Report to TSG:  TR 23.774, Version 0.3.0 | AT&T | approved | - | - |
| S6-200304 | Enhancement to user regroup at GMS using preconfigured group | Huawei,Hisilicon | postponed | S6-200199 | - |
| S6-200305 | Lifecyle management of edge applications | Nokia, Nokia Shanghai Bell, Vodafone | approved | S6-200290 | - |
| S6-200306 | Reply LS on Application Architecture for enabling Edge Applications | SA6 | approved | S6-200271 | - |
| S6-200307 | Pseudo-CR on Identifiers and commonly used values | Intel Corporation (UK) Ltd | approved | S6-200234 | - |
| S6-200308 | MCover5GS Key issue 5 3GPP system connectivity | UIC, CATT | approved | S6-200201 | - |
| S6-200309 | Solution- FF application layer functional model update | ZTE Photonics | approved | S6-200252 | - |
| S6-200310 | New solution for Key issue 4 | ZTE corporation | postponed | S6-200254 | - |
| S6-200311 | Key issue on user authorization | ZTE Corporation | approved | S6-200255 | - |
| S6-200312 | EDN provisioning based on TR solutions 2 and 3 | Convida Wireless LLC | revised | S6-200238 | S6-200321 |
| S6-200313 | EAS discovery based on TR solutions 1 and 13 | Convida Wireless LLC | revised | S6-200242 | S6-200322 |
| S6-200314 | Add announced call redirection for MCPTT private calls | Kontron Transportation France | revised | S6-200277 | S6-200332 |
| S6-200315 | Add call deflection for MCPTT private calls | Kontron Transportation France | revised | S6-200278 | S6-200333 |
| S6-200316 | Solution- FFAPP provisioning within Edge Data Network configuration | ZTE Photonics | approved | S6-200259 | - |
| S6-200317 | Review of UAS service requirements | InterDigital | approved | S6-200262 | - |
| S6-200318 | 3GPP location services for Network assisted positioning for USS/UTM | InterDigital | revised | S6-200263 | S6-200323 |
| S6-200319 | Solution to group management enhancement for groupcast | Huawei, Hisilicon | postponed | S6-200217 | - |
| S6-200320 | FS\_5GMARCH KI4 solution | Convida Wireless LLC, one2many | revised | S6-200250 | S6-200351 |
| S6-200321 | EDN provisioning based on TR solutions 2 and 3 | Convida Wireless LLC | revised | S6-200312 | S6-200329 |
| S6-200322 | EAS discovery based on TR solutions 1 and 13 | Convida Wireless LLC | revised | S6-200313 | S6-200347 |
| S6-200323 | 3GPP location services for Network assisted positioning for USS/UTM | InterDigital | revised | S6-200318 | S6-200349 |
| S6-200324 | EDN definition | Huawei, Hisilicon | revised | S6-200130 | S6-200352 |
| S6-200325 | EEC Registration based on TR solution 8 | Convida Wireless LLC, Samsung | revised | S6-200239 | S6-200344 |
| S6-200326 | EAS registration based on TR solution 12 | Convida Wireless LLC | revised | S6-200240 | S6-200345 |
| S6-200327 | EES registration based on TR solution 17 | Convida Wireless LLC | revised | S6-200241 | S6-200346 |
| S6-200328 | Involved business relationships | Samsung, Intel, Huawei, Hisilicon | approved | S6-200292 | - |
| S6-200329 | EDN provisioning based on TR solutions 2 and 3 | Convida Wireless LLC | revised | S6-200321 | S6-200343 |
| S6-200330 | FS\_5GMARCH UE type definitions | Convida Wireless LLC, one2many, Samsung | approved | S6-200220 | - |
| S6-200331 | FS\_5GMARCH KI1 solution | Convida Wireless LLC | postponed | S6-200222 | - |
| S6-200332 | Add announced call redirection for MCPTT private calls | Kontron Transportation France | agreed | S6-200314 | - |
| S6-200333 | Add call deflection for MCPTT private calls | Kontron Transportation France | agreed | S6-200315 | - |
| S6-200334 | Pseudo-CR on Requirements for Edge Enabler Client registration | Samsung Electronics | revised | S6-200287 | S6-200338 |
| S6-200335 | Solution- Device Onboarding Support in FF which reference to oneM2M solution | ZTE Corporation, Deutsche Telekom | approved | S6-200293 | - |
| S6-200336 | New WID on Enhanced Mission Critical Push-to-talk architecture phase 3 | Motorola Solutions | revised | S6-200268 | S6-200354 |
| S6-200337 | Reply LS on Enquiries for supporting vertical application | SA6 | approved | S6-200164 | - |
| S6-200338 | Pseudo-CR on Requirements for Edge Enabler Client registration | Samsung Electronics | approved | S6-200334 | - |
| S6-200339 | Pseudo-CR on Requirements for Security | Samsung Electronics | approved | S6-200295 | - |
| S6-200340 | Pseudo-CR on requirements for edge application announcement and update | CATT | revised | S6-200296 | S6-200358 |
| S6-200341 | Pseudo-CR on requirements on traffic management | CATT | approved | S6-200297 | - |
| S6-200342 | Pseudo-CR on Architecture and reference points | Samsung Electronics, Huawei | approved | S6-200291 | - |
| S6-200343 | EDN provisioning based on TR solutions 2 and 3 | Convida Wireless LLC | approved | S6-200329 | - |
| S6-200344 | EEC Registration based on TR solution 8 | Convida Wireless LLC, Samsung | approved | S6-200325 | - |
| S6-200345 | EAS registration based on TR solution 12 | Convida Wireless LLC | approved | S6-200326 | - |
| S6-200346 | EES registration based on TR solution 17 | Convida Wireless LLC | approved | S6-200327 | - |
| S6-200347 | EAS discovery based on TR solutions 1 and 13 | Convida Wireless LLC | approved | S6-200322 | - |
| S6-200348 | Clarification of terminology | InterDigital | approved | S6-200261 | - |
| S6-200349 | 3GPP location services for Network assisted positioning for USS/UTM | InterDigital | approved | S6-200323 | - |
| S6-200350 | Trusted and untrusted location reporting requirements | InterDigital | approved | S6-200264 | - |
| S6-200351 | FS\_5GMARCH KI4 solution | Convida Wireless LLC, one2many | approved | S6-200320 | - |
| S6-200352 | EDN definition | Huawei, Hisilicon | approved | S6-200324 | - |
| S6-200353 | Pseudo-CR on Deployment Views on EDNCS | Sony | approved | S6-200248 | - |
| S6-200354 | New WID on Enhanced Mission Critical Push-to-talk architecture phase 3 | Motorola Solutions | agreed | S6-200336 | - |
| S6-200355 | Reply LS on member ID used in eV2X | SA6 | postponed | - | - |
| S6-200356 | Revised SID Study on application layer support for UAS service | Huawei, Hisilicon | agreed | S6-200267 | - |
| S6-200357 | Reply LS on Split of work responsibilities between SA2 and SA6 | SA6 | approved | S6-200165 | - |
| S6-200358 | Pseudo-CR on requirements for edge application announcement and update | CATT | approved | S6-200340 | - |

## Annex B: List of change requests

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Spec | CR | Rev | Rel | Cat | WI | Decision |
| S6-200071 | Shared CAPIF provider domain info in interconnection | Ericsson | 23.222 | 0066 | - | Rel-16 | F | eCAPIF | revised |
| S6-200166 | Shared CAPIF provider domain info in interconnection | Ericsson | 23.222 | 0066 | 1 | Rel-16 | F | eCAPIF | agreed |
| S6-200132 | Serving area information for service APIs to support edge applications | Huawei, Hisilicon | 23.222 | 0067 | - | Rel-17 | B | EDGEAPP | revised |
| S6-200249 | Serving area information for service APIs to support edge applications | Huawei, Hisilicon | 23.222 | 0067 | 1 | Rel-17 | B | EDGEAPP | revised |
| S6-200300 | Serving area information for service APIs to support edge applications | Huawei, Hisilicon | 23.222 | 0067 | 2 | Rel-17 | B | EDGEAPP | agreed |
| S6-200026 | Missing reference point | Sepura PLC | 23.280 | 0229 | - | Rel-17 | C | TEI17 | not pursued |
| S6-200036 | Clarification on procedures related to server to server communication | Kontron Transportation France | 23.280 | 0230 | - | Rel-17 | F | eMONASTERY2 | not pursued |
| S6-200125 | Enhancement to group regroup at GMS using preconfigured group | Huawei,Hisilicon | 23.280 | 0231 | - | Rel-17 | B | TEI17 | revised |
| S6-200198 | Enhancement to group regroup at GMS using preconfigured group | Huawei,Hisilicon | 23.280 | 0231 | 1 | Rel-17 | C | TEI17 | revised |
| S6-200302 | Enhancement to group regroup at GMS using preconfigured group | Huawei,Hisilicon | 23.280 | 0231 | 2 | Rel-17 | C | TEI17 | postponed |
| S6-200126 | enhancement to user regroup at GMS using preconfigured group | Huawei,Hisilicon | 23.280 | 0232 | - | Rel-17 | B | TEI17 | revised |
| S6-200199 | Enhancement to user regroup at GMS using preconfigured group | Huawei,Hisilicon | 23.280 | 0232 | 1 | Rel-17 | C | TEI17 | revised |
| S6-200304 | Enhancement to user regroup at GMS using preconfigured group | Huawei,Hisilicon | 23.280 | 0232 | 2 | Rel-17 | C | TEI17 | postponed |
| S6-200127 | Add temporary group teardown within an MC system | Huawei,Hisilicon | 23.280 | 0233 | - | Rel-17 | B | TEI17 | revised |
| S6-200200 | Add temporary group teardown within an MC system | Huawei,Hisilicon | 23.280 | 0233 | 1 | Rel-17 | B | TEI17 | agreed |
| S6-200147 | Inclusion of MCData content server address in initial UE configuration | Samsung | 23.280 | 0234 | - | Rel-17 | F | eMCData3 | not pursued |
| S6-200150 | Inclusion of MCData content server address in initial UE configuration | Samsung | 23.280 | 0235 | - | Rel-16 | A | eMCData2 | not pursued |
| S6-200188 | Purpose of requested priority | UIC | 23.280 | 236 | - | Rel-17 | B | eMONASTERY2 | revised |
| S6-200206 | Purpose of requested priority | UIC | 23.280 | 236 | 1 | Rel-17 | B | eMONASTERY2 | agreed |
| S6-200173 | Clarification on MCPTT server performing the controlling role and the participating role for the MCX services | Kontron | 23.280 | 237 | - | Rel-17 | F | TEI17 | withdrawn |
| S6-200024 | Enhancing MCVideo communication requests with application priority capabilities in on-network mode | UIC | 23.281 | 0139 | - | Rel-17 | B | eMONASTERY2 | revised |
| S6-200178 | Enhancing MCVideo communication requests with application priority capabilities in on-network mode | UIC | 23.281 | 0139 | 1 | Rel-17 | B | eMONASTERY2 | revised |
| S6-200210 | Enhancing MCVideo communication requests with application priority capabilities in on-network mode | UIC | 23.281 | 0139 | 2 | Rel-17 | B | eMONASTERY2 | revised |
| S6-200279 | Enhancing MCVideo communication requests with application priority capabilities in on-network mode | UIC | 23.281 | 0139 | 3 | Rel-17 | B | eMONASTERY2 | agreed |
| S6-200035 | Alignment of functional alias to group binding handling in MCVideo | ZTE Trunking Technology Corp. | 23.281 | 0140 | - | Rel-17 | B | eMONASTERY2 | revised |
| S6-200180 | Alignment of functional alias to group binding handling in MCVideo | ZTE Trunking Technology Corp. | 23.281 | 0140 | 1 | Rel-17 | B | eMONASTERY2 | revised |
| S6-200212 | Alignment of functional alias to group binding handling in MCVideo | ZTE Trunking, Motorola Solutions | 23.281 | 0140 | 2 | Rel-17 | B | eMONASTERY2 | agreed |
| S6-200040 | Clarification on procedures related to server to server communication | Nokia, Nokia Shanghai Bell, Kontron Transportation | 23.281 | 0141 | - | Rel-17 | F | eMONASTERY2 | withdrawn |
| S6-200042 | Introducing a functional alias as target address for private calls | Nokia, Nokia Shanghai Bell | 23.281 | 0142 | - | Rel-17 | B | eMONASTERY2 | revised |
| S6-200181 | Introducing a functional alias as target address for private calls | Nokia, Nokia Shanghai Bell | 23.281 | 0142 | 1 | Rel-17 | B | eMONASTERY2 | revised |
| S6-200213 | Introducing a functional alias as target address for private calls | Nokia, Nokia Shanghai Bell | 23.281 | 0142 | 2 | Rel-17 | B | eMONASTERY2 | postponed |
| S6-200043 | Adding missing server to server information flows for group calls | Nokia, Nokia Shanghai Bell | 23.281 | 0143 | - | Rel-17 | B | eMONASTERY2 | revised |
| S6-200182 | Adding missing server to server information flows for group calls | Nokia, Nokia Shanghai Bell | 23.281 | 0143 | 1 | Rel-17 | F | eMONASTERY2 | agreed |
| S6-200044 | Adding missing server to server information flows for private calls | Nokia, Nokia Shanghai Bell | 23.281 | 0144 | - | Rel-17 | B | eMONASTERY2 | revised |
| S6-200183 | Adding missing server to server information flows for private calls | Nokia, Nokia Shanghai Bell | 23.281 | 0144 | 1 | Rel-17 | F | eMONASTERY2 | agreed |
| S6-200033 | Correction of internal clause references for Enhanced Status transmission | Sepura, Hytera Communications Corp | 23.282 | 0197 | - | Rel-17 | F | TEI17 | revised |
| S6-200196 | Correction of internal clause references for Enhanced Status transmission | Sepura, Hytera Communications Corp | 23.282 | 0197 | 1 | Rel-17 | A | eMCData3 | revised |
| S6-200276 | Correction of internal clause references for Enhanced Status transmission | Sepura, Hytera Communications Corp | 23.282 | 0197 | 2 | Rel-17 | A | eMCData2 | agreed |
| S6-200041 | Clarification on procedures related to server to server communication | Nokia, Nokia Shanghai Bell, Kontron Transportation | 23.282 | 0198 | - | Rel-17 | F | eMONASTERY2 | withdrawn |
| S6-200065 | Corrections and enhancements to IP Connectivity | AT&T GNS Belgium SPRL | 23.282 | 0199 | - | Rel-17 | F | eMCData3 | revised |
| S6-200189 | Corrections and enhancements to IP Connectivity | AT&T GNS Belgium SPRL | 23.282 | 0199 | 1 | Rel-17 | C | eMCData3 | revised |
| S6-200281 | Corrections and enhancements to IP Connectivity | AT&T GNS Belgium SPRL | 23.282 | 0199 | 2 | Rel-17 | C | eMCData3 | agreed |
| S6-200086 | Enhancements and clarifications for file repair and file delivery using MBMS | AT&T | 23.282 | 0200 | - | Rel-17 | C | eMCData3 | revised |
| S6-200190 | Enhancements and clarifications for file repair and file delivery using MBMS | AT&T | 23.282 | 0200 | 1 | Rel-17 | A | eMCData3 | revised |
| S6-200273 | Enhancements and clarifications for file repair and file delivery using MBMS | AT&T | 23.282 | 0200 | 2 | Rel-17 | A | eMCData3 | agreed |
| S6-200146 | Clarification on prepending the MCData content server URI | Samsung | 23.282 | 0201 | - | Rel-17 | F | eMCData3 | revised |
| S6-200193 | Clarification on prepending the MCData content server URI | Samsung | 23.282 | 0201 | 1 | Rel-17 | A | eMCData2 | revised |
| S6-200275 | Clarification on prepending the MCData content server URI | Samsung | 23.282 | 0201 | 2 | Rel-17 | A | eMCData2 | agreed |
| S6-200148 | Local policies at Partner MCData system is not applied | Samsung | 23.282 | 0202 | - | Rel-17 | F | eMCData3 | revised |
| S6-200195 | Local policies at Partner MCData system is not applied | Samsung | 23.282 | 0202 | 1 | Rel-17 | F | eMCData2 | agreed |
| S6-200149 | Clarification on prepending the MCData content server URI | Samsung | 23.282 | 0203 | - | Rel-16 | A | eMCData2 | revised |
| S6-200192 | Clarification on prepending the MCData content server URI | Samsung | 23.282 | 0203 | 1 | Rel-16 | F | eMCData2 | revised |
| S6-200274 | Clarification on prepending the MCData content server URI | Samsung | 23.282 | 0203 | 2 | Rel-16 | F | eMCData2 | agreed |
| S6-200151 | Local policies at Partner MCData system is not applied | Samsung | 23.282 | 0204 | - | Rel-16 | A | eMCData3 | revised |
| S6-200194 | Local policies at Partner MCData system is not applied | Samsung | 23.282 | 0204 | 1 | Rel-16 | F | eMCData3 | agreed |
| S6-200191 | Enhancements and clarifications for file repair and file delivery using MBMS | AT&T | 23.282 | 0205 | - | Rel-16 | F | eMCDATA2 | revised |
| S6-200272 | Enhancements and clarifications for file repair and file delivery using MBMS | AT&T | 23.282 | 0205 | 1 | Rel-16 | F | eMCDATA2 | agreed |
| S6-200197 | Correction of internal clause references for Enhanced Status transmission | Sepura, Hytera Communications Corp | 23.282 | 0206 | - | Rel-16 | F | TEI17 | agreed |
| S6-200074 | Add VAE application requirement notification | Ericsson | 23.286 | 0013 | - | Rel-16 | F | V2XAPP | agreed |
| S6-200075 | Add VAE service continuity API | Ericsson | 23.286 | 0014 | - | Rel-16 | F | V2XAPP | revised |
| S6-200168 | Add VAE service continuity API | Ericsson | 23.286 | 0014 | 1 | Rel-16 | F | V2XAPP | agreed |
| S6-200077 | Correct Group Management procedure | Ericsson | 23.286 | 0015 | - | Rel-16 | F | V2XAPP | revised |
| S6-200170 | Correct Group Management procedure | Ericsson | 23.286 | 0015 | 1 | Rel-16 | F | V2XAPP | agreed |
| S6-200085 | Align with TS 23.434 | ZTE Corporation | 23.286 | 0016 | - | Rel-16 | F | V2XAPP | revised |
| S6-200167 | Align with TS 23.434 | ZTE Corporation | 23.286 | 0016 | 1 | Rel-16 | F | V2XAPP | agreed |
| S6-200019 | Add announced call transfer for MCPTT private calls | Kontron Transportation France | 23.379 | 0246 | - | Rel-17 | B | eMONASTERY2 | revised |
| S6-200175 | Add announced call transfer for MCPTT private calls | Kontron Transportation France | 23.379 | 0246 | 1 | Rel-17 | B | eMONASTERY2 | revised |
| S6-200207 | Add announced call transfer for MCPTT private calls | Kontron Transportation France | 23.379 | 0246 | 2 | Rel-17 | B | eMONASTERY2 | revised |
| S6-200277 | Add announced call transfer for MCPTT private calls | Kontron Transportation France | 23.379 | 0246 | 3 | Rel-17 | B | eMONASTERY2 | revised |
| S6-200314 | Add announced call redirection for MCPTT private calls | Kontron Transportation France | 23.379 | 0246 | 4 | Rel-17 | B | eMONASTERY2 | revised |
| S6-200332 | Add announced call redirection for MCPTT private calls | Kontron Transportation France | 23.379 | 0246 | 5 | Rel-17 | B | eMONASTERY2 | agreed |
| S6-200020 | Add call deflection for MCPTT private calls | Kontron Transportation France | 23.379 | 0247 | - | Rel-17 | B | eMONASTERY2 | revised |
| S6-200176 | Add call deflection for MCPTT private calls | Kontron Transportation France | 23.379 | 0247 | 1 | Rel-17 | B | eMONASTERY2 | revised |
| S6-200208 | Add call deflection for MCPTT private calls | Kontron Transportation France | 23.379 | 0247 | 2 | Rel-17 | B | eMONASTERY2 | revised |
| S6-200278 | Add call deflection for MCPTT private calls | Kontron Transportation France | 23.379 | 0247 | 3 | Rel-17 | B | eMONASTERY2 | revised |
| S6-200315 | Add call deflection for MCPTT private calls | Kontron Transportation France | 23.379 | 0247 | 4 | Rel-17 | B | eMONASTERY2 | revised |
| S6-200333 | Add call deflection for MCPTT private calls | Kontron Transportation France | 23.379 | 0247 | 5 | Rel-17 | B | eMONASTERY2 | agreed |
| S6-200021 | Clarification on procedures related to server to server communication | Kontron Transportation France | 23.379 | 0248 | - | Rel-17 | F | eMONASTERY2 | not pursued |
| S6-200023 | Enhancing MCPTT communication requests with application priority capabilities in on-network mode | UIC | 23.379 | 0249 | - | Rel-17 | B | eMONASTERY2 | revised |
| S6-200177 | Enhancing MCPTT communication requests with application priority capabilities in on-network mode | UIC | 23.379 | 0249 | 1 | Rel-17 | B | eMONASTERY2 | revised |
| S6-200209 | Enhancing MCPTT communication requests with application priority capabilities in on-network mode | UIC | 23.379 | 0249 | 2 | Rel-17 | B | eMONASTERY2 | agreed |
| S6-200034 | Clarification on functional alias to group binding function | ZTE Trunking Technology Corp. | 23.379 | 0250 | - | Rel-17 | F | eMONASTERY2 | revised |
| S6-200179 | Clarification on functional alias to group binding function | ZTE Trunking Technology Corp. | 23.379 | 0250 | 1 | Rel-17 | F | eMONASTERY2 | revised |
| S6-200211 | Clarification on functional alias to group binding function | ZTE Trunking, Motorola Solutions | 23.379 | 0250 | 2 | Rel-17 | F | eMONASTERY2 | agreed |
| S6-200072 | Complete SS\_NetworkResourceAdaptation API | Ericsson | 23.434 | 0016 | - | Rel-16 | F | SEAL | agreed |
| S6-200073 | Correct dynamic MBMS bearer establishment | Ericsson | 23.434 | 0017 | - | Rel-16 | F | SEAL | agreed |
| S6-200078 | Correct Group Management procedure | Ericsson | 23.434 | 0018 | - | Rel-16 | F | SEAL | not pursued |
| S6-200119 | Update to solution EAS discovery based on EDN CS | Huawei,Hisilicon | 23.758 | 0001 | - | Rel-17 | B | FS\_EDGEAPP | not pursued |
| S6-200120 | EAS discovery based on EES acting as DNS proxy | Huawei,Hisilicon | 23.758 | 0002 | - | Rel-17 | B | FS\_EDGEAPP | not pursued |

## Annex C: Lists of liaisons

### C1: Incoming liaison statements

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Original | Title | From | Decision | Reply TDoc |
| S6-200006 | C1-198613 | LS on Unicast resource management with SIP core | CT1 | replied to | S6-200163 |
| S6-200007 | C1-198623 | LS on Enquiries for supporting vertical applications | CT1 | replied to | S6-200337 |
| S6-200008 | S3-194611 | LS to CT1 on 3rd ETSI MCX Remote Plugtest | SA3 | noted | (none) |
| S6-200009 | S5-197853 | LS on analysis of GSMA GST attributes | SA5 | noted | (none) |
| S6-200010 | S5-197752 | Reply LS on Application Architecture for enabling Edge Applications | SA5 | replied to | S6-200306 |
| S6-200011 | S2-1912771 | LS on Split of work responsibilities between SA2 and SA6 | SA2 | replied to | S6-200357 |
| S6-200012 | LS on Control Room Workshop (from TCCA to 3GPP SA6)\_v1 | LS on Control Room Workshop | TCCA | noted | (none) |
| S6-200058 |  | IoT API: Edge and Fog Computing | oneM2M TP (meeting 43, December 2019) | noted | (none) |

### C2: Outgoing liaison statements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Document | Title | To | Cc | reply to i/c LS |
| S6-200163 | Reply LS on Unicast resource management with SIP core | CT1 | - | S6-200006 |
| S6-200269 | LS on Requirements on positioning for UAS | SA1 | SA2, RAN2 | - |
| S6-200270 | LS on API additions to SEAL and V2XAPP | CT3, CT1 | - | - |
| S6-200306 | Reply LS on Application Architecture for enabling Edge Applications | SA5 | - | S6-200010 |
| S6-200337 | Reply LS on Enquiries for supporting vertical application | CT1 | - | S6-200007 |
| S6-200357 | Reply LS on Split of work responsibilities between SA2 and SA6 | SA2 | SA | S6-200011 |

## Annex D: List of agreed/approved new and revised Work Items

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Title | Source | new/revised |
| S6-200266 | Revised SID on enhancements to application layer support for V2X services | Huawei, Hisilicon | SID revised |
| S6-200356 | Revised SID Study on application layer support for UAS service | Huawei, Hisilicon | SID revised |
| S6-200354 | New WID on Enhanced Mission Critical Push-to-talk architecture phase 3 | Motorola Solutions | WID new |
| S6-200265 | Revised WID\_EDGEAPP | Samsung Electronics | WID revised |

## Annex E: List of draft Technical Specifications and Reports

n/a

## Annex F: List of action items

n/a

## Annex G: List of decisions

n/a

## Annex H: List of participants

|  |  |  |
| --- | --- | --- |
| Name | Representing | Status (OP) |
| A ALEX VIKAS, A Alex Vikas | Department of Telecom | 3GPPMEMBER (TSDSI) |
| ALEKSIEV, Vasil | Deutsche Telekom AG | 3GPPMEMBER (ETSI) |
| ALNÃ¥S, Svante | Sony Corporation | 3GPPMEMBER (ARIB) |
| AMOGH, Niranth | HUAWEI TECH. GmbH | 3GPPMEMBER (ETSI) |
| BEICHT, Peter | Kontron Transportation France | 3GPPMEMBER (ETSI) |
| CHEN, Xiao | ZTE Photonics | 3GPPMEMBER (CCSA) |
| CHILUKURI, Aditya | Indian Institute of Tech (H) | 3GPPMEMBER (TSDSI) |
| CHITTURI, Suresh | Samsung Electronics France SA | 3GPPMEMBER (ETSI) |
| ELLOUMI, Omar | Nokia France | 3GPPMEMBER (ETSI) |
| FRANKLIN, Antony | Indian Institute of Tech (H) | 3GPPMEMBER (TSDSI) |
| G V, DHANAMJAYA RAO | Department of Telecom | 3GPPMEMBER (TSDSI) |
| GE, Cuili | HiSilicon Technologies Co. Ltd | 3GPPMEMBER (CCSA) |
| GUPTA, Anurag | C-DOT | 3GPPMEMBER (TSDSI) |
| GUPTA, Nishant | Tianjin Samsung Telecom | 3GPPMEMBER (CCSA) |
| HALL, Edward | Qualcomm Technologies Int | 3GPPMEMBER (ETSI) |
| HAN, Zhiqiang | ZTE Corporation | 3GPPMEMBER (ETSI) |
| JAMES, Vinosh Babu | Qualcomm India Pvt Ltd | 3GPPMEMBER (TSDSI) |
| JIAO, Jerry | ZTE Trunking Technology Corp. | 3GPPMEMBER (CCSA) |
| KAPALE, Kiran | Samsung R&D Institute UK | 3GPPMEMBER (ETSI) |
| KIM, Hyesung | Samsung Electronics Iberia SA | 3GPPMEMBER (ETSI) |
| LAZARA, Dominic | Motorola Solutions Poland | 3GPPMEMBER (ETSI) |
| LIU, Yuze | ZTE Corporation | 3GPPMEMBER (CCSA) |
| MANHAS, O P | Department of Telecom | 3GPPMEMBER (TSDSI) |
| MATTSSON, Bernt | ETSI | 3GPPORG\_REP (ETSI) |
| MEHROTRA, Rakesh | GSA | 3GPPMARK\_REP (OTHER) |
| MERRICK, Robert | HOME OFFICE | 3GPPMEMBER (ETSI) |
| MLADIN, Catalina | Convida Wireless | 3GPPMEMBER (ETSI) |
| MODI, HARSHIT | TSDSI | 3GPPORG\_REP (TSDSI) |
| MONRAD, Atle | InterDigital, Europe, Ltd. | 3GPPMEMBER (ETSI) |
| MOSES, Danny | Intel Corporation (UK) Ltd | 3GPPMEMBER (ETSI) |
| MR. KRISHNA PRATAP TIWARI, Jyoti Tiwari | Indian Institute of Tech (H) | 3GPPMEMBER (TSDSI) |
| MYSORE ANNAIAH, Mahesh Nayaka | Reliance Jio | 3GPPMEMBER (TSDSI) |
| NEAL, Adrian | Vodafone Romania S.A. | 3GPPMEMBER (ETSI) |
| NERLIKAR, Rohit | Motorola Solutions UK Ltd. | 3GPPMEMBER (ETSI) |
| OETTL, Martin | Nokia Solutions & Networks (I) | 3GPPMEMBER (TSDSI) |
| OPRESCU, Val | AT&T | 3GPPMEMBER (ATIS) |
| PATTAN, Basavaraj (Basu) | Samsung Electronics Polska | 3GPPMEMBER (ETSI) |
| RAMAMOORTHY, Arunprasath | Samsung R&D Institute India | 3GPPMEMBER (TSDSI) |
| RAYNE, Mark | Sepura PLC | 3GPPMEMBER (ETSI) |
| ROY, Vijay Kumar | Department of Telecom | 3GPPMEMBER (TSDSI) |
| SHIH, Jerry | AT&T GNS Belgium SPRL | 3GPPMEMBER (ETSI) |
| SOLANO, Camilo | Ericsson LM | 3GPPMEMBER (ETSI) |
| SOLOWAY, Alan | Qualcomm Incorporated | 3GPPMEMBER (ATIS) |
| SOURAV SARKAR, Sourav Sarkar | Indian Institute of Tech (H) | 3GPPMEMBER (TSDSI) |
| TAMBE, Supriya | Indian Institute of Tech (H) | 3GPPMEMBER (TSDSI) |
| VERWEIJ, Kees | The Police of the Netherlands | 3GPPMEMBER (ETSI) |
| VIALEN, Jukka | Airbus | 3GPPMEMBER (ETSI) |
| WELLS, Derek | L3Harris Technologies | 3GPPMEMBER (ATIS) |
| WENDLER, Ingo | Union Inter. Chemins de Fer | 3GPPMEMBER (ETSI) |
| WOODWARD, Tim | Airwave Solutions Limited | 3GPPMEMBER (ETSI) |
| XU, Wenliang | Ericsson France S.A.S | 3GPPMEMBER (ETSI) |
| YANG, Yanmei | HUAWEI Technologies Japan K.K. | 3GPPMEMBER (ARIB) |
| ZHANG, Ling | CATT | 3GPPMEMBER (ETSI) |
| ZHAO, Shuai | Tencent | 3GPPMEMBER (CCSA) |

## Annex I: List of future meetings

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Title** | **Start date** | **End date (OP)** | **Town** | **Country** | **Reference** |
| 3GPPSA6#36 | 24/01/2020 09:00:00 | 28/02/2020 17:30:00 | Christchurch | NZ | S6-36 |
| 3GPPSA6#37 | 11/05/2020 09:00:00 | 15/05/2020 17:30:00 | Dubrovnik | HR | S6-37 |
| 3GPPSA6#38 | 06/07/2020 09:00:00 | 10/07/2020 17:30:00 | Hki/Espoo | FI | S6-38 |
| 3GPPSA6#39 | 31/08/2020 09:00:00 | 04/09/2020 17:30:00 | Wroclaw | PL | S6-39 |
| 3GPPSA6#  adhoc | 12/10/2020 09:00:00 | 16/10/2020 17:30:00 | Tallinn | EE | - |
| 3GPPSA6#40 | 16/11/2020 09:00:00 | 20/11/2020 17:30:00 | TBD | NA | S6-40 |
| 3GPPSA6#41 | 18/01/2021 09:00:00 | 22/01/2021 17:30:00 | TBD | NA | S6-41 |
| 3GPPSA6#42 | 01/03/2021 09:00:00 | 05/03/2021 17:30:00 | TBD | NA | S6-42 |
| 3GPPSA6#43 | 03/05/2021 09:00:00 | 07/05/2021 17:30:00 | TBD | NA | S6-43 |
| 3GPPSA6#44 | 12/07/2021 09:00:00 | 16/07/2021 17:30:00 | TBD | NA | S6-44 |
| 3GPPSA6#45 | 30/08/2021 09:00:00 | 03/09/2021 17:30:00 | TBD | NA | S6-45 |
| 3GPPSA6#  adhoc | 11/10/2021 09:00:00 | 15/10/2021 17:30:00 | TBD | NA | - |
| 3GPPSA6#46 | 15/11/2021 09:00:00 | 19/11/2021 17:30:00 | TBD | NA | S6-46 |