**3GPP TSG-SA WG6 Meeting #33 S6-191622**

**Sophia Antipolis, France, 2nd – 6th September 2019**

Source: MCC

Title: SA6 Meeting 32 Report

Agenda Item: 3

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*Abstract: Meeting report of 3GPP SA6 meeting #32*

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

 **Meeting Report
for
TSG SA WG6
meeting: 32**

**Rome, Italy, 08/07/2019 to 12/07/2019**

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## 1 Opening of the meeting

The chairman of SA6, Suresh Chitturi (Samsung), opened the SA6#32 meeting.

### 1.1 Welcome speech

Enrico Scarrone (TELECOM ITALIA) on behalf of EF3 welcomed the delegates to the SA6#32 meeting in Rome, Italy.

### 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

**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 conveyed orally, contained in 3GPP meetings is not subject to the export restriction of the EAR.

**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.

For the duration of the Temporary General License (TGL) issued by the Bureau of Industry and Security (BIS) of the US Department of Commerce on May 20, 2019, there are no restrictions on the release of non-public information to companies added to the Entity List on May 16, 2019, to the extent that information is necessary to maintain, service, or support existing handsets, networks or equipment, or "as necessary for development of 5G standards."

**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**

Until further notice, 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 that none of their technical contributions include classified encryption software or other information that is subject to US export control under the ITAR or other applicable US export control regulations.

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

The chairman reminded meeting participants to wear a badge.

## 2 Agenda and Chairman's notes

**S6-191257 SA6 Meeting 32 Agenda**

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

**Abstract:**

Agenda for the SA6#32 meeting

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

**S6-191259 SA6 Meeting #32 - Agenda with Tdocs allocation after submission deadline**

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

**Abstract:**

The SA6#32 meeting agenda with Tdocs allocation after submission deadline

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

**S6-191260 SA6 Meeting #32 - Agenda with Tdocs allocation at start of the meeting**

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

**Abstract:**

The SA6#32 meeting agenda with Tdocs allocation at the start of the meeting

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

**S6-191261 SA6 Meeting #32 - Chairman's notes at end of the meeting**

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

**Abstract:**

Chairman's notes at end of the SA6#32 meeting

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

## 3 Report from previous meetings

**S6-191258 SA6 Meeting 31 Report**

 *Type: report For: Approval
 Source: MCC*

**Abstract:**

The report of the SA6#31 meeting.

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

**S6-191332 Report on SA6 related topics at SA#84**

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

**Abstract:**

This document contains a brief report from SA#84 on matters relating to SA6 WG activities.

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

## 4 Liaison statements

### 4.1 Incoming LSs

**S6-191262 LS on ETSI Plugtest standards Issues**

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

**Abstract:**

1 . Overall description

CT1 have received reports from ETSI Plugtest 2 and ETSI Plugtest 3 regarding issues they have noted regarding 3GPP mission critical standards. CT1 intends to see that each of these issues is addressed appropriately and has performed a preliminary review of the issue statements to determine which 3GPP working group could take the lead in understanding and resolving each issue.

The table in the annex of this LS provides that preliminary review and indicates which issues could benefit from analysis by SA6 and SA3. CT1 requests SA6 and SA3 to:

 \* 1. examine this table and determine whether you agree with our preliminary determination of the lead 3GPP working group for each issue,

 \* 2. to inform CT1 whether SA6 and SA3 are willing to accept leadership on the issues indicated, and

 \* 3. to provide any additional input on any of these issues regarding leadership or a technical response.

It is the intention of CT1 to gather technical responses for each issue and provide these responses to ETSI Plugtest.

CT1 appreciates the assistance of SA6 and SA3 in helping to resolve these issues and thus to advance the usability of mission critical services.

2. Actions

To SA6 and SA3

ACTION: 3GPP TSG CT WG1 respectfully asks SA6 and SA3 to perform the three actions noted.

**Discussion:**

FirstNet introduced the LS available as document S6-191262 (initially presented during SA6#31).

FirstNet suggested to draft a response to the LS during the current meeting.

NOTE: For the attachments of the LS i.e. ETSI Plugtest 2 Report, ETSI Plugtest 3 Report please see the LSin doc S6-191262

**Decision:** The document was **replied to in S6-191406**.

**S6-191402 LS response to CT1 on ETSI Plugtest standards issues**

 *Type: LS in For: Information
 Original outgoing LS: S3-192332, to CT1, cc SA6
 Source: SA3*

**Abstract:**

1. Overall Description:

SA3 would like to thank CT1 for their LS correspondence.

With regards to the 3 items listed in the Overall description of LS S3-191829 (C1-193601), SA3 provides the following responses:

1. examine this table and determine whether you agree with our preliminary determination of the lead 3GPP working group for each issue,

SA3 response: SA3 agrees with the preliminary lead 3GPP working group determinations from CT1, including item #7. However with regards to item #7, SA3 would like add that while the passing of the access token to the MCPTT server for service authorization is indeed a security step, SA3 would like to clarify its understanding of the following statement:

“But if according to 3GPP TS 24.484, the UE must subscribe to the UE-initial-conf document and the default-user-profile, it has to be already registered in the IMS network, thus rendering the REGISTER workflow unusable.”

SA3 believes that the UE-initial-conf must be available before MC user authentication (and thus before MC service authorization). This understanding is supported in Figure 10.1.1.1 of 3GPP TS 24.280 (Release 16). Therefore the issue of when IMS registration occurs versus when MC service authorization occurs requires additional communication between SA3, SA6 and CT1.

2. to inform CT1 whether SA6 and SA3 are willing to accept leadership on the issues indicated, and

SA3 response: For issues identified as security related by CT1, SA3 is committed to accepting the leadership role.

3. to provide any additional input on any of these issues regarding leadership or a technical response.

SA3 response: At this time, SA3 does not have any further input on the leadership assignments or technical issues provided by CT1.

**Discussion:**

Motorola Solutions introduced the LS available as document S6-191402.

Sepura noted that maybe the issue of making an emergency call before the initial registration should be given some consideration.

BDBOS noted that maybe the location information also should be included in the consideration.

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

**S6-191263 LS on clarification for usage of MC Service emergency state for MCData service**

 *Type: LS in For: Action
 Original outgoing LS: C1-193738, to SA6, cc -
 Source: CT1*

**Abstract:**

1 . Overall description

TS 23.282 subclause 7.10 together with TS 23.280 subclause 10.10 only provide for MCData emergency alert initiation and MCData emergency alert cancel procedures (both for on-network and off-network) to MCData users.

These clauses leave unspecified several aspects regarding what should occur after completion of this procedure. For example, in TS 23.280 subclause 10.10.1.2.1, the statement in step 5 of the procedures says “MC service group calls made to this MC service group by the MC service client 1 will be sent as emergency calls until the emergency state on the MC service client 1 is cancelled.” However, in TS 23.282 there are no procedures for MCData emergency calls of any kind (group or individual). Similarly, in TS 23.280 subclause 10.10.1.2.1, there is the statement “This procedure will place the MC service client in the MC service emergency state if the MC service client is not already in that state.” But in TS 23.282 there is no mention of the emergency state for an MCData client, nor what effect this condition could have on subsequent MCData calls once in this state.

CT1 would like to ask SA6:

Q1. Should the bearers of an MCData session, while the MCData client is in an emergency state, have elevated priority (and/or pre-emption handling)?

Q2. There are no procedures in TS 23.282 that allow for elevated priority in emergency data communications. Should File Distribution (FD) sessions and/or Short Data Service (SDS) sessions somehow be marked as being in an emergency state and/or be enabled for preferential (emergency) treatment by the system for delivery?

Q3. If the answer to Q2 is YES, please provide the SA6 detail procedures to accomplish this through specification.

Q4. If answer to Q2 is NO, please explain the rationale for excluding MCData from emergency handling in TS 23.282, especially in light of the reference to such treatment in TS 23.280 clause 10.10.1.2.1 step 5 from above.

In addition, please provide any other clarifications and/or details for the usage of the emergency state by the MCData client within the MCData service.

2 . Actions

To 3GPP TSG SA WG6

ACTION: 3GPP TSG CT WG1 kindly asks 3GPP TSG SA WG6 group to provide answers and clarifications on the usage of MCData emergency state within the MCData service.

**Discussion:**

Samsung introduced the LS available as document S6-191263 (initially presented during SA6#31).

Samsung noted that a response to the LS could be considered during the SA6#33, as a number of open contribution are related to the topic of the LS.

AT&T suggested to draft a (first) response during the present meeting.

**Decision:** The document was **replied to in S6-191407**.

**S6-191404 LS to 3GPP SA6 on Study on Application Architecture for enabling Edge Applications**

 *Type: LS in For: Action
 Original outgoing LS: MEC(19)000264r1, to -, cc -
 Source: ETSI ISG MEC*

**Abstract:**

1. **Overall description:**

ETSI MEC would like to take this opportunity to congratulate 3GPP SA6 on the excellent and rapid progress SA6 is making on the FS\_EDGEAPP study item, as reflected in the latest version (0.2.0) of TR 23.758. We would also like to express our thanks for the flexibility and responsiveness to our previous communications as reflected in contributions S6-191038 and S6-191046. Given the progress that has been made since these contributions were prepared, ISG MEC would like to provide some additional observations which we hope will be of assistance in completing this study. Furthermore, we take this opportunity to propose some actions to maximize the exemplary spirit of cooperation that appears to be in place between our two groups.

Before proceeding to the specifics for our LS, we would like to take this opportunity to stress how seriously ETSI MEC takes the responsibility to align with other key standardization bodies in our space. As evidence of this, we would like to draw your attentions to ETSI GS MEC 013, which heavily relies on and reuses earlier OMA specifications, our re-use of ETSI NFV as documented in ETSI GS MEC 003 and our ongoing initiative to align with CAPIF. Locations for all referenced document are provided at the end of Section 1 of this LS.

We would like to start with a brief analysis of the Key Issues as documented in TR 23.758 v0.2.0.

* With regard to Key Issues 1 and 2, we believe it may be useful to provide some context for the importance of these issues. From a point of view of a typical cloud application, what is critical is whether the application client is able to find an application server instance in such a manner that the required application KPIs (e.g. latency) are satisfied. When this requires the use of an application server located at the edge, the ability to discover, register and connect to an appropriate Edge Data Network is needed. Without such context, if the application development focused audience may not be able to fully appreciate the importance of these issues.
* With regard to Key Issue 3, our MANO-related specification provide a possible solution to the same issue. Our approach extends the work of ETSI NFV to external third-party applications, such as those under consideration in FS\_EDGEAPP study. We kindly invite SA6 to review the related specification, ETSI GS MEC 010-2. Furthermore, we would welcome any comments and suggestions that SA6 may have to this specification.
* With regard to Key Issues 2, 4 and 8 we invite SA6 to review our UE Application Interface specification ETSI GS MEC 016, which provides a possible solution to the same issues and is in the process of further amendment to address edge data network discovery and selection. We would welcome any comments and suggestions that SA6 may have to this specification.
* With regard to Key Issue 9, we would like to inform SA6 that work on Application Mobility is ongoing within ETSI MEC. Specifically, we are developing an API supporting applications with service continuity in case of 3GPP mobility events facilitating context transfer from a source application instance to a target application instance. The draft specification capturing this API is still in *Early Draft* stage, however we would welcome opportunity to cooperate with SA6 in this area.

With regard to the architecture defined in Section 6 of TR 23.758 v0.2.0, we would like to highlight our analysis of relationship with our reference architecture as defined in ETSI GS MEC 003. This is shown below. Note in particular the apparently close relationship between the ETSI MEC Mp1 reference point and EDGE-3 interface as defined by SA6 and ETSI MEC UE application interface and EDGE-1 interface as defined by SA6.



With regards to Solutions highlighted in TR 23.758 v0.2.0, we would like to call your attention to the following observations which we hope would be helpful in your solution evaluation process.

* With regard to Solution 4, we invite SA6 to review our specification Location API, ETSI GS MEC 013. Furthermore, we would welcome any comments and suggestions that SA6 may have to this specification, including identification of further requirements needed to address the needs of the proposed solution.
* With regard to Solution 5, we invite SA6 to review our specification UE Identity API, ETSI GS MEC 014, as well as the use of the “token” capability defined there for traffic filtering as defined in ETSI GS MEC 011. Our white paper on Enterprise Services) contains information on how these capabilities can together be used to enable systems such as those proposed in Solution 5. We would welcome any comments and suggestions that SA6 may have to these specifications, including identification of further requirements to address the needs of the proposed solution.
	1. **Locations for referenced ETSI MEC Work Products:**

Note that ETSI MEC works in major release phases, with each specification released one of more times in each phase. We are currently in Phase 2. Where a Phase 2 specification (v 2.x.x) has been published, that link is provided. Where a Phase 2 specification has not been published, we provide a link to the latest draft. Note however that a published Phase 1 spec (v 1.x.x) may be obtained from our web page:

<https://www.etsi.org/technologies/multi-access-edge-computing>.

* ETSI GS MEC 003: (published) <https://www.etsi.org/deliver/etsi_gs/MEC/001_099/003/02.01.01_60/gs_MEC003v020101p.pdf>
* ETSI GS MEC 009: (published) <https://www.etsi.org/deliver/etsi_gs/MEC/001_099/009/02.01.01_60/gs_MEC009v020101p.pdf>
* ETSI GS MEC 010-2: (stable draft) <https://docbox.etsi.org/ISG/MEC/Open/gs_mec01002v020009p_stable%20draft.pdf>
* ETSI GS MEC 011: (stable draft) <https://docbox.etsi.org/ISG/MEC/Open/gs_mec011v020007_stable%20draft.pdf>
* ETSI GS MEC 013: (stable draft) <https://docbox.etsi.org/ISG/MEC/Open/gs_mec013v020002p_stable%20draft.pdf>
* ETSI GS MEC 014: (only Phase 1 specification currently available <https://www.etsi.org/deliver/etsi_gs/MEC/001_099/014/01.01.01_60/gs_MEC014v010101p.pdf>
* ETSI MEC 016: <https://www.etsi.org/deliver/etsi_gs/MEC/001_099/016/02.01.01_60/gs_MEC016v020101p.pdf>
* ETSI White Paper #30, “MEC in an Enterprise Setting: a Solution Outline,” <https://www.etsi.org/images/files/ETSIWhitePapers/etsi_wp30_MEC_Enterprise_FINAL.pdf>.
1. **Actions:**

Per discussion above, ETSI ISG MEC kindly requests 3GPP SA6 to consider the following actions:

* Consider our observations with regards to Key Issues 1 and 2
* Review the referenced draft of ETSI GS MEC 010-2, especially in relation to Key Issue 3 and consider providing comments for improvement to ETSI MEC.
* Review the referenced draft of ETSI GS MEC 016, especially in relation to Key Issue 4 and consider providing comments for improvement to ETSI MEC.
* Review the referenced draft of ETSI GS MEC 013, especially in relation to Solution 4 and consider providing comments for improvement to ETSI MEC.
* Review the referenced draft of ETSI GS MEC 011 and ETSI GS MEC 014 especially in relation to Key Issue 5 and consider providing comments for improvement to ETSI MEC.

Furthermore, we kindly request 3GPP SA6 to consider opportunities for further cooperation, e.g., around architectural alignments as highlighted here.

We welcome opportunities for, e.g., joint meeting, common solution white papers, etc.

**Discussion:**

Vodafone introduced the LS available as document S6-191404 (during the EDGEAPP session).

Samsung pointed out that they had a different interpretation on various points like e.g. the architecture comparison. They also noted it may be too early to do a comparison.

Qualcomm pointed out the complication in trying to fulfil the listed actions as there had e.g. been no collective decision in SA6 to abide with the ISG MEC architecture.

TIM suggested that at least it would be beneficial to have an open discussion between the two groups.

It was decided it was more appropriate to produce a reply LS during the coming SA6#33 meeting.

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

### 4.2 Outgoing LSs

**S6-191406 LS response from SA6 to CT1 on ETSI Plugtest standards issues**

 *Type: LS out For: discussion
 to CT1, cc SA3
 Source: SA6*

**Discussion:**

FirstNet introduced the draft LS available as document S6-191406.

There was a discussion on whether Rel-14 should be mentioned in the LS.

QUALCOMM suggested to rephrase (or delete) in response bullet 3 "SA6 expects future contributions in these areas."

The only changes are to:

 - delete in response bullet 3 "SA6 expects future contributions in these areas." and

 - modify title to read "Reply LS response from SA6 to CT1 on ETSI Plugtest standards issues".

With the above changes the revised contribution, S6-191525, is considered pre-approved.

**Decision:** The document was **revised to S6-191525**.

**S6-191525 Reply LS response from SA6 to CT1 on ETSI Plugtest standards issues**

 *Type: LS out For: discussion
 to CT1, cc SA3
 Source: SA6*

(Replaces S6-191406)

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

**S6-191407 Reply LS on clarification for usage of MC Service emergency state for MCData service**

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

**Discussion:**

Samsung introduced the draft LS available as document S6-191407.

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

**S6-191506 LS on UAS-related terminology and model**

 *Type: LS out For: Approval
 to SA1
 Source: SA6*

**Discussion:**

Qualcomm introduced the draft LS available as document S6-191506.

It was suggested:

 - adding the WID code FS\_UASAPP

 - using the format pCR,

 - replacing "agreed" with "approved" and

 - attaching pCRs when available.

**Decision:** The document was **revised to S6-191567**.

**S6-191567 LS on UAS-related terminology and model**

 *Type: LS out For: Approval
 to SA1
 Source: SA6*

(Replaces S6-191506)

**Discussion:**

Qualcomm introduced the draft LS available as document S6-191567.

The only changes are:

 - correct the pCR numbers

 - as a result

**Decision:** The document was **revised to S6-191612**.

**S6-191612 LS on UAS-related terminology and model**

 *Type: LS out For: Approval
 to SA1
 Source: SA6*

(Replaces S6-191567)

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

## 5 Items for early consideration

### 5.1 Working Agreements

### 5.2 5G Vertical User Workshop

**S6-191298 5G Vertical User Workshop Presentation on SA6**

 *Type: other For: Information
 Source: Qualcomm UK Ltd*

**Discussion:**

Revised prior to presentation.

**Decision:** The document was **revised to S6-191299**.

**S6-191299 5G Vertical User Workshop Presentation on SA6**

 *Type: other For: Information
 Source: Qualcomm UK Ltd*

(Replaces S6-191298)

**Discussion:**

Revised prior to presentation.

**Decision:** The document was **revised to S6-191311**.

**S6-191311 5G Vertical User Workshop Presentation on SA6**

 *Type: other For: Information
 Source: Qualcomm UK Ltd*

(Replaces S6-191299)

**Discussion:**

Qualcomm presented the draft S6-191405 document (available as S6-191311). Any last-minute corrections and fine tuning would be taken on board and made available as S6-191405.

The meeting agreed the presentation to be presented during the workshop.

The Police of Netherlands indicated some concern with the number of slides and the time available for the presentation.

The discussion further continued on how to best use the time available, without overrunning the time available.

**Decision:** The document was **revised to S6-191405**.

**S6-191405 5G Vertical User Workshop Presentation on SA6**

 *Type: other For: Information
 Source: Qualcomm UK Ltd*

(Replaces S6-191311)

**Discussion:**

Qualcomm presented the draft S6-191405 document. Any last minute corrections and fine tuning would be taken on board.

The meeting agreed the presentation to be presented during the workshop.

The Police of Netherlands indicated some concern with the number of slides and the time available for the presentation.

The discussion further continued on how to best use the time available, without overrunning the time available.

**Decision:** The document was **revised to S6-191415**.

**S6-191415 5G Vertical User Workshop Presentation on SA6**

 *Type: other For: Information
 Source: Qualcomm UK Ltd*

(Replaces S6-191405)

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

### 5.3 Others

**S6-191295 Discussion on eMBMS/5G for Mission Critical in Rel-17**

 *Type: discussion For: Discussion
 Source: AT&T*

**Abstract:**

Discusses proposal for new SID on eMBMS/5G in companion document S6-191296

**Discussion:**

AT&T presented the document available as S6-191295.

Motorola Solutions indicated that a SID like this would be very important and hence supported the proposal.

Ericsson agreed with the view of Motorola Solutions with regard to the importance of the work, and addressing current short comings.

Qualcomm indicated their confusion about the proposal and what it in fact proposes to be done, that is not already being done.

Huawei agreed that the work proposed was important but also understood the concern raised by Qualcomm. They hence noted it might be too early to initiate the work at this moment.

The Police of Netherlands indicated their support for the proposal.

FirstNet indicated they support the work as a separate dedicated work item.

The chairman suggested interested parties to discuss the topic prior to the presentation of the actual SID.

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

## 6 Rel-13 Maintenance

## 7 Rel-14 Maintenance

**S6-191312 Fix omission of location services in MCData**

 *Type: CR For: Agreement
 23.282 v14.6.0 CR-0167 Cat: F (Rel-14)

 Source: AT&T*

**Abstract:**

Location services is missing from MCData. Add text similar to what is in 23.281 for MCVideo.

**Discussion:**

AT&T presented the document available as S6-191312.

Qualcomm did not see the need to make the proposed correction into Rel-14 as it was simply new functionality as opposed to an essential correction.

Motorola Solutions agreed with the view of Qualcomm and noted this could set a dangerous precedence. They further did not consider this being an essential correction.

Also Home Office and Airbus raised concern for the proposal (in Rel-14).

Huawei indicated support for the proposal.

After some discussion it was concluded that the group would accept the corresponding change into Rel-16.

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

**S6-191313 Fix omission of location services in MCData**

 *Type: CR For: Agreement
 23.282 v15.4.0 CR-0168 Cat: A (Rel-15)

 Source: AT&T*

**Abstract:**

Rel-15 Mirror CR of rel-14 CR 0167 in S6-191312

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

## 8 Rel-15 Maintenance

## 9 Rel-16 Work Items

### 9.1 eCAPIF - Enhancements for Common API Framework for 3GPP Northbound APIs

**S6-191392 Clarification and alignment with publish request information flows**

 *Type: CR For: Agreement
 23.222 v16.4.0 CR-0064 Cat: F (Rel-16)

 Source: Huawei, Hisilicon*

**Abstract:**

The contribution proposes:

 - Updating the description of information element “shareable indication information”

 - adding CAPIF provider domain to table 8.3.2.1-1

 - removing the NOTE 3 in table 8.25.2.1

 - Updating the corresponding procedures.

**Discussion:**

Huawei presented the document available as S6-191392.

Samsung did not agree to the changes apart from the modification to figure 8.25.3.1-1 they considered fine.

Motorola Solutions raised a concern e.g. with the term "shareable indication".

**Decision:** The document was **revised to S6-191464**.

**S6-191464 Clarification and alignment with publish request information flows**

 *Type: CR For: Agreement
 23.222 v16.4.0 CR-0064 rev 1 Cat: F (Rel-16)

 Source: Huawei, Hisilicon*

(Replaces S6-191392)

**Discussion:**

Huawei presented the document available as S6-191464.

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

### 9.2 enh2MCPTT - Enhanced Mission Critical Push-to-talk architecture phase 2

**S6-191347 Editorial corrections to clauses in 10.9 Location Management (on-network)**

 *Type: CR For: Agreement
 23.280 v16.3.0 CR-0211 Cat: F (Rel-16)

 Source: BDBOS*

**Abstract:**

Corrections and editorial changes to clauses in section 10.9 Location Management (on-network) to clarify the usage of procedures and information flows within one MC system only.

**Discussion:**

BDBOS presented the document available as S6-191347.

Motorola Solutions suggested removing the word editorial from the title.

They also noted that the IE description does not need to be aligned with IE name (e.g. in Table 10.9.2.5-1) also they did not agree with the term "

at home MC system". They hence did not agree with most of the proposed changes.

Nokia was confused about the changes as e.g. if we introduce the term "home MC system" then we would need a partner system.

The Police of Netherlands noted that more detail would be needed if we want to go this route.

Harris suggested adressing the intention of the changes with a note, also they suggested to make this change in Rel-17 (not Rel-16).

**Decision:** The document was **revised to S6-191411**.

**S6-191411 Editorial corrections to clauses in 10.9 Location Management (on-network)**

 *Type: CR For: Agreement
 23.280 v16.3.0 CR-0211 rev 1 Cat: F (Rel-16)

 Source: BDBOS*

(Replaces S6-191347)

**Discussion:**

Revised prior to presentation.

**Decision:** The document was **revised to S6-191526**.

**S6-191526 Corrections to clauses in 10.9 Location Management (on-network)**

 *Type: CR For: Agreement
 23.280 v16.3.0 CR-0211 rev 2 Cat: F (Rel-16)

 Source: BDBOS*

(Replaces S6-191411)

**Discussion:**

BDBOS presented the document available as S6-191526.

The Police of Netherlands noted that with these changes all procedures had now been restricted to primary MC systems. They hence suggested to instead use a note(s) where applicable.

**Decision:** The document was **revised to S6-191568**.

**S6-191568 Corrections to clauses in 10.9 Location Management (on-network)**

 *Type: CR For: Agreement
 23.280 v16.3.0 CR-0211 rev 3 Cat: F (Rel-16)

 Source: BDBOS*

(Replaces S6-191526)

**Discussion:**

BDBOS presented the document available as S6-191568.

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

**S6-191351 Configuration of the user notification in temporary group formation**

 *Type: CR For: Agreement
 23.280 v16.3.0 CR-0182 rev 4 Cat: C (Rel-16)

 Source: BDBOS*

(Replaces S6-190796)

**Abstract:**

More detailed information about notifications in case of regrouping are provided.

**Discussion:**

BDBOS presented the document available as S6-191351.

Motorola Solutions suggested to double check that the correct baseline spec. was used.

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

**S6-191269 Analysis on MCX Service Emergency Alert**

 *Type: discussion For: Discussion
 Source: AT&T GNS Belgium SPRL*

**Abstract:**

Analysis on MCX Service Emergency Alert.

**Discussion:**

AT&T presented the document available as S6-191269.

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

**S6-191266 Correct the configuration parameters for the MCPTT emergency procedures**

 *Type: CR For: Agreement
 23.379 v16.3.0 CR-0224 Cat: F (Rel-16)

 Source: AT&T GNS Belgium SPRL*

**Abstract:**

Correct the configuration parameters for the MCPTT emergency procedures

**Discussion:**

AT&T presented the document available as S6-191266.

A lengthy discussion followed on whether the proposed changes were relevant in Rel-16, Rel-17 or at all.

Motorola Solutions was not in favour of changing anything in relation to alert in TS 23.379, as it is working perfectly fine.

**Decision:** The document was **revised to S6-191412**.

**S6-191412 Correct the configuration parameters for the MCPTT emergency procedures**

 *Type: CR For: Agreement
 23.379 v16.3.0 CR-0224 rev 1 Cat: F (Rel-16)

 Source: AT&T GNS Belgium SPRL*

(Replaces S6-191266)

**Discussion:**

AT&T presented the document available as S6-191412.

Harris suggested to keep the deleted text "(currently selected/ dedicated)".

In the end it was suggested to modify the notes to provide necessary clarification.

**Decision:** The document was **revised to S6-191527**.

**S6-191527 Correct the configuration parameters for the MCPTT emergency procedures**

 *Type: CR For: Agreement
 23.379 v16.3.0 CR-0224 rev 2 Cat: F (Rel-16)

 Source: AT&T GNS Belgium SPRL*

(Replaces S6-191412)

**Discussion:**

AT&T presented the document available as S6-191527.

The only change is replacing "user" with "user's" in the sentence "If both are not configured the MCPTT user currently selected group will be used." in notes 7 and 8 (Table A.3-1).

With the above changes the revised contribution, S6-191588, is considered pre-agreed.

**Decision:** The document was **revised to S6-191588**.

**S6-191588 Correct the configuration parameters for the MCPTT emergency procedures**

 *Type: CR For: Agreement
 23.379 v16.3.0 CR-0224 rev 3 Cat: F (Rel-16)

 Source: AT&T GNS Belgium SPRL*

(Replaces S6-191527)

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

**S6-191267 Correct the configuration parameters for the MCVideo emergency alert procedures**

 *Type: CR For: Agreement
 23.281 v16.2.0 CR-0133 Cat: F (Rel-16)

 Source: AT&T GNS Belgium SPRL*

**Abstract:**

Correct the configuration parameters for the MCVideo emergency alert procedures

**Discussion:**

Revised (due to changes to S6-191266) prior to presentation.

**Decision:** The document was **revised to S6-191413**.

**S6-191413 Correct the configuration parameters for the MCVideo emergency alert procedures**

 *Type: CR For: Agreement
 23.281 v16.2.0 CR-0133 rev 1 Cat: F (Rel-16)

 Source: AT&T GNS Belgium SPRL*

(Replaces S6-191267)

**Discussion:**

AT&T presented the document available as S6-191413.

Motorola Solutions pointed out that the for the KMSUri parameter change the "MCPTT ID" should read "MCVideo ID".

**Decision:** The document was **revised to S6-191528**.

**S6-191528 Correct the configuration parameters for the MCVideo emergency alert procedures**

 *Type: CR For: Agreement
 23.281 v16.2.0 CR-0133 rev 2 Cat: F (Rel-16)

 Source: AT&T GNS Belgium SPRL*

(Replaces S6-191413)

**Discussion:**

AT&T presented the document available as S6-191528.

The only changes are:

 - replacing "user" with "user's" in the sentence "If both are not configured the MCPTT user currently selected group will be used." in note 5 (Table A.3-1) and

 -replacing "Enh2MCPTT" with "enh2MCPTT" on the cover page.

With the above changes the revised contribution, S6-191589, is considered pre-agreed.

**Decision:** The document was **revised to S6-191589**.

**S6-191589 Correct the configuration parameters for the MCVideo emergency alert procedures**

 *Type: CR For: Agreement
 23.281 v16.2.0 CR-0133 rev 3 Cat: F (Rel-16)

 Source: AT&T GNS Belgium SPRL*

(Replaces S6-191528)

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

**S6-191304 Corrections to MCPTT emergency alert procedures**

 *Type: CR For: Agreement
 23.379 v16.3.0 CR-0227 Cat: F (Rel-16)

 Source: AT&T GNS Belgium SPRL*

**Abstract:**

Corrections to MCPTT emergency alert procedures

**Discussion:**

AT&T presented the document available as S6-191304.

Home Office did not agree with the deletion of the pre-condition (change 1). They also did not agree with changing the step 8 arrow from dotted to solid.

AT&T noted the change to the step 8 arrow was unintentional.

FirstNet did not agree with the deletion of the Note 3.

Motorola Solutions did not agree to most of the proposed changes and noted they should be category B or C (not F).

Samsung suggested reverting the deletion of Note 3 as suggested by FirstNet. They also did not think the proposed editor's noted in clause 10.6.2.6.3.2 was required.

**Decision:** The document was **revised to S6-191416**.

**S6-191416 Corrections to MCPTT emergency alert procedures**

 *Type: CR For: Agreement
 23.379 v16.3.0 CR-0227 rev 1 Cat: F (Rel-16)

 Source: AT&T GNS Belgium SPRL*

(Replaces S6-191304)

**Discussion:**

AT&T presented the document available as S6-191416.

Motorola Solutions suggested slight rewording of NOTE 2 in clause 10.6.2.6.3.3. This will be discussed offline.

**Decision:** The document was **revised to S6-191530**.

**S6-191530 Corrections to MCPTT emergency alert procedures**

 *Type: CR For: Agreement
 23.379 v16.3.0 CR-0227 rev 2 Cat: F (Rel-16)

 Source: AT&T GNS Belgium SPRL*

(Replaces S6-191416)

**Discussion:**

AT&T presented the document available as S6-191530.

FirstNet pointed out that the word trigger in the introduction should be removed. Also some the styles of some fonts should be corrected.

Harris suggested rephrasing the step 5 in 10.6.2.6.3.4.

**Decision:** The document was **revised to S6-191591**.

**S6-191591 Corrections to MCPTT emergency alert procedures**

 *Type: CR For: Agreement
 23.379 v16.3.0 CR-0227 rev 3 Cat: F (Rel-16)

 Source: AT&T GNS Belgium SPRL*

(Replaces S6-191530)

**Discussion:**

AT&T presented the document available as S6-191591.

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

**S6-191305 Corrections to the emergency alert procedures**

 *Type: CR For: Agreement
 23.280 v16.3.0 CR-0210 Cat: F (Rel-16)

 Source: AT&T GNS Belgium SPRL*

**Abstract:**

Corrections to the emergency alert procedures

**Discussion:**

AT&T presented the document available as S6-191305.

Motorola Solutions noted that if one wants to pursue the proposed modifications then the e.g. the second sentence of the first paragraph would need to be rephrased.

Harris pointed out that there was a mismatch between the figure 10.10.2.2.1-1 and the step 1 description, as the figure did not show anything being sent in step 1.

**Decision:** The document was **revised to S6-191417**.

**S6-191417 Corrections to the emergency alert procedures**

 *Type: CR For: Agreement
 23.280 v16.3.0 CR-0210 rev 1 Cat: F (Rel-16)

 Source: AT&T GNS Belgium SPRL*

(Replaces S6-191305)

**Discussion:**

AT&T presented the document available as S6-191417.

The NOTE 2 should be aligned with the output of offline discussions of S6-191530.

**Decision:** The document was **revised to S6-191531**.

**S6-191531 Corrections to the emergency alert procedures**

 *Type: CR For: Agreement
 23.280 v16.3.0 CR-0210 rev 2 Cat: F (Rel-16)

 Source: AT&T GNS Belgium SPRL*

(Replaces S6-191417)

**Discussion:**

AT&T presented the document available as S6-191531.

It was pointed out there was no need to number the note in clause 10.10.1.2.3. Also the step 5 in clause 10.10.1.2.4 should be rephrased.

**Decision:** The document was **revised to S6-191592**.

**S6-191592 Corrections to the emergency alert procedures**

 *Type: CR For: Agreement
 23.280 v16.3.0 CR-0210 rev 3 Cat: F (Rel-16)

 Source: AT&T GNS Belgium SPRL*

(Replaces S6-191531)

**Discussion:**

AT&T presented the document available as S6-191592.

FirstNet pointed out some inconsistencies.

**Decision:** The document was **revised to S6-191611**.

**S6-191611 Corrections to the emergency alert procedures**

 *Type: CR For: Agreement
 23.280 v16.3.0 CR-0210 rev 4 Cat: F (Rel-16)

 Source: AT&T GNS Belgium SPRL*

(Replaces S6-191592)

**Discussion:**

AT&T presented the document available as S6-191611.

The only change is to number the two notes in clause 10.10.1.2.4.

With the above changes the revised contribution, S6-191617, is considered pre-agreed.

**Decision:** The document was **revised to S6-191617**.

**S6-191617 Corrections to the emergency alert procedures**

 *Type: CR For: Agreement
 23.280 v16.3.0 CR-0210 rev 5 Cat: F (Rel-16)

 Source: AT&T GNS Belgium SPRL*

(Replaces S6-191611)

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

**S6-191264 Correct the error message is sent in the MCPTT emergency group call procedures**

 *Type: CR For: Agreement
 23.379 v16.3.0 CR-0223 Cat: F (Rel-16)

 Source: AT&T GNS Belgium SPRL*

**Abstract:**

Correct the error message is sent in the MCPTT emergency group call procedures

**Discussion:**

AT&T presented the document available as S6-191264.

Samsung suggested adding the term emergency in step 7 as well.

Motorola Solutions was of the view that the in step 2, the second sentence would now need to rephrased or deleted as a result of adding the term emergency. They hence were not convinced the change was needed.

**Decision:** The document was **revised to S6-191418**.

**S6-191418 Correct the error message is sent in the MCPTT emergency group call procedures**

 *Type: CR For: Agreement
 23.379 v16.3.0 CR-0223 rev 1 Cat: F (Rel-16)

 Source: AT&T GNS Belgium SPRL*

(Replaces S6-191264)

**Discussion:**

AT&T presented the document available as S6-191418.

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

### 9.3 eMCData2 - Enhancements to Functional architecture and information flows for Mission Critical Data

**S6-191268 Correct the configuration parameters for the MCData emergency alert procedures**

 *Type: CR For: Agreement
 23.282 v16.3.0 CR-0161 Cat: F (Rel-16)

 Source: AT&T GNS Belgium SPRL*

**Abstract:**

Correct the configuration parameters for the MCData emergency alert procedures

**Discussion:**

Revised (due to changes to S6-191266) prior to presentation.

**Decision:** The document was **revised to S6-191414**.

**S6-191414 Correct the configuration parameters for the MCData emergency alert procedures**

 *Type: CR For: Agreement
 23.282 v16.3.0 CR-0161 rev 1 Cat: F (Rel-16)

 Source: AT&T GNS Belgium SPRL*

(Replaces S6-191268)

**Discussion:**

AT&T presented the document available as S6-191414.

**Decision:** The document was **revised to S6-191529**.

**S6-191529 Correct the configuration parameters for the MCData emergency alert procedures**

 *Type: CR For: Agreement
 23.282 v16.3.0 CR-0161 rev 2 Cat: F (Rel-16)

 Source: AT&T GNS Belgium SPRL*

(Replaces S6-191414)

**Discussion:**

AT&T presented the document available as S6-191529.

The only changes are:

 - replacing "user" with "user's" in the sentence "If both are not configured the MCPTT user currently selected group will be used." in note 3 (Table A.3-1).

 - removing the proposed changes to Table A.3-2.

With the above changes the revised contribution, S6-191590, is considered pre-agreed.

**Decision:** The document was **revised to S6-191590**.

**S6-191590 Correct the configuration parameters for the MCData emergency alert procedures**

 *Type: CR For: Agreement
 23.282 v16.3.0 CR-0161 rev 3 Cat: F (Rel-16)

 Source: AT&T GNS Belgium SPRL*

(Replaces S6-191529)

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

**S6-191356 EPS bearer for emergency**

 *Type: CR For: Agreement
 23.282 v16.3.0 CR-0170 Cat: B (Rel-16)

 Source: Samsung*

**Abstract:**

Proposal to add two new terms in Definitions clause - MCData emergency communication and MCData imminent peril communication and to modify

 EPS bearer considerations to give highest pre-emptive priority to MCData emergency communication.

**Discussion:**

Samsung presented the document available as S6-191356.

Some further improvements were proposed.

**Decision:** The document was **revised to S6-191419**.

**S6-191419 EPS bearer for emergency**

 *Type: CR For: Agreement
 23.282 v16.3.0 CR-0170 rev 1 Cat: B (Rel-16)

 Source: Samsung*

(Replaces S6-191356)

**Discussion:**

Samsung presented the document available as S6-191419.

Motorola Solutions pointed out that there were some definitions that were not used.

The only changes are:

 - replacing "MCX" with "MC" (in the MCData emergency communication definition)

 - deleting the definitions of:

 i) MCX Service Emergency Group Communication,

 ii) MCX Service Emergency Private Communication and

 ii) MCX Service Imminent Peril Group Communication.

With the above changes the revised contribution, S6-191594, is considered pre-agreed.

**Decision:** The document was **revised to S6-191594**.

**S6-191594 EPS bearer for emergency**

 *Type: CR For: Agreement
 23.282 v16.3.0 CR-0170 rev 2 Cat: B (Rel-16)

 Source: Samsung*

(Replaces S6-191419)

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

**S6-191357 Emergency support for one-to-one SDS**

 *Type: CR For: Agreement
 23.282 v16.3.0 CR-0171 Cat: B (Rel-16)

 Source: Samsung*

**Abstract:**

The contribution proposes:

 - Adding emergency indicator in the information flows,

 - modifying procedure for One-to-one standalone short data service using signalling control plane - to support emergency communication,

 - modifying procedure for One-to-one standalone short data service using media plane - to support emergency communication and

 - modifying procedure for One-to-one short data service session - to support emergency communication.

**Discussion:**

Samsung presented the document available as S6-191357.

Motorola Solutions was doubting there was a requirement for the proposed disposition request.

Harris did not see a need for the proposed change of step 3.

**Decision:** The document was **revised to S6-191420**.

**S6-191420 Emergency support for one-to-one SDS**

 *Type: CR For: Agreement
 23.282 v16.3.0 CR-0171 rev 1 Cat: B (Rel-16)

 Source: Samsung*

(Replaces S6-191357)

**Discussion:**

Samsung presented the document available as S6-191420. They pointed out that one suggestion for change (i.e. "..shall be included for the MCData ..") had been omitted.

**Decision:** The document was **revised to S6-191532**.

**S6-191532 Emergency support for one-to-one SDS**

 *Type: CR For: Agreement
 23.282 v16.3.0 CR-0171 rev 2 Cat: B (Rel-16)

 Source: Samsung*

(Replaces S6-191420)

**Discussion:**

Samsung presented the document available as S6-191532.

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

**S6-191358 Emergency and imminent peril support for group SDS**

 *Type: CR For: Agreement
 23.282 v16.3.0 CR-0172 Cat: B (Rel-16)

 Source: Samsung*

**Abstract:**

The contribution proposes:

 - Adding emergency indicator and imminent peril indicator in information flows

 - modifying procedure for Group standalone short data service using signalling control plane - to support emergency communication,

 - modifying procedure for Group standalone short data service using media plane - to support emergency communication and

 - modifying procedure for Group short data service session - to support emergency communication.

**Discussion:**

Samsung presented the document available as S6-191358.

Harris suggested modification of the note and numbering of steps.

**Decision:** The document was **revised to S6-191421**.

**S6-191421 Emergency and imminent peril support for group SDS**

 *Type: CR For: Agreement
 23.282 v16.3.0 CR-0172 rev 1 Cat: B (Rel-16)

 Source: Samsung*

(Replaces S6-191358)

**Discussion:**

Samsung presented the document available as S6-191421.

The Police of Netherlands suggested rewording of the NOTE 1 in table 7.4.2.1.11-1.

**Decision:** The document was **revised to S6-191533**.

**S6-191533 Emergency and imminent peril support for group SDS**

 *Type: CR For: Agreement
 23.282 v16.3.0 CR-0172 rev 2 Cat: B (Rel-16)

 Source: Samsung*

(Replaces S6-191421)

**Discussion:**

Samsung presented the document available as S6-191533.

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

**S6-191359 Emergency support for off-network SDS**

 *Type: CR For: Agreement
 23.282 v16.3.0 CR-0173 Cat: B (Rel-16)

 Source: Samsung*

**Abstract:**

The contribution proposes:

 - adding emergency indicator in the information flows

 - modifying procedure for One-to-one standalone short data service - to support emergency communication

 - modifying procedure for Group standalone short data service - to support emergency communication.

**Discussion:**

Samsung presented the document available as S6-191359.

**Decision:** The document was **revised to S6-191422**.

**S6-191422 Emergency support for off-network SDS**

 *Type: CR For: Agreement
 23.282 v16.3.0 CR-0173 rev 1 Cat: B (Rel-16)

 Source: Samsung*

(Replaces S6-191359)

**Discussion:**

Samsung presented the document available as S6-191422.

The Police of Netherlands suggested rewording of the NOTE 1 in table 7.4.3.2.3-1.

**Decision:** The document was **revised to S6-191534**.

**S6-191534 Emergency support for off-network SDS**

 *Type: CR For: Agreement
 23.282 v16.3.0 CR-0173 rev 2 Cat: B (Rel-16)

 Source: Samsung*

(Replaces S6-191422)

**Discussion:**

Samsung presented the document available as S6-191534.

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

**S6-191314 Fix omission of location services in MCData**

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

 Source: AT&T*

**Abstract:**

Rel-16 Mirror CR of CR 0167 in S6-191312

**Decision:** The document was **revised to S6-191522**.

**S6-191522 Fix omission of location services in MCData**

 *Type: CR For: Agreement
 23.282 v16.3.0 CR-0169 rev 1 Cat: F (Rel-16)

 Source: AT&T*

(Replaces S6-191314)

**Discussion:**

AT&T presented the document available as S6-191522.

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

### 9.4 eMCSMI - Enhanced mission critical system migration and interconnection

### 9.5 eMCCI - Enhanced Mission Critical Communication Interworking with Land Mobile Radio Systems

**S6-191284 IWF preconfigured groups**

 *Type: CR For: Agreement
 23.283 v16.3.0 CR-0038 Cat: B (Rel-16)

 Source: Harris Corporation*

**Discussion:**

Harris presented the document available as S6-191284.

‘IWF’ missing from titles.

10.3.7.2.2 preconditions – which system own the pre-configured group?

Offline discussion needed

**Decision:** The document was **revised to S6-191424**.

**S6-191424 IWF preconfigured groups**

 *Type: CR For: Agreement
 23.283 v16.3.0 CR-0038 rev 1 Cat: B (Rel-16)

 Source: Harris Corporation*

(Replaces S6-191284)

**Discussion:**

Harris presented the document available as S6-191424.

Remove the added sentence “homed on….”.

The pre-configured group must have a member behind the IWF (or the IWF itself)?

**Decision:** The document was **revised to S6-191440**.

**S6-191440 IWF preconfigured groups**

 *Type: CR For: Agreement
 23.283 v16.3.0 CR-0038 rev 2 Cat: B (Rel-16)

 Source: Harris Corporation*

(Replaces S6-191424)

**Discussion:**

Harris presented the document available as S6-191440.

It was suggested to use a better term for regroup group.

**Decision:** The document was **revised to S6-191462**.

**S6-191462 IWF preconfigured groups**

 *Type: CR For: Agreement
 23.283 v16.3.0 CR-0038 rev 3 Cat: B (Rel-16)

 Source: Harris Corporation*

(Replaces S6-191440)

**Discussion:**

Harris presented the document available as S6-191462.

The only change is to delete the definition of "Pre-configured regroup group".

With the above change the revised contribution, S6-191535, is considered pre-agreed.

**Decision:** The document was **revised to S6-191535**.

**S6-191535 IWF preconfigured groups**

 *Type: CR For: Agreement
 23.283 v16.3.0 CR-0038 rev 4 Cat: B (Rel-16)

 Source: Harris Corporation*

(Replaces S6-191462)

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

**S6-191285 IWF add user to temporary group**

 *Type: CR For: Agreement
 23.283 v16.3.0 CR-0039 Cat: B (Rel-16)

 Source: Harris Corporation*

**Discussion:**

Harris presented the document available as S6-191285.

Correct the Title of the CR.

“GMS-based group” missing from the actual changes?

Figure 10.3.7.7.1-1 – GMS not needed?

Step 1 below the fig;: Add where the group is homed.

**Decision:** The document was **revised to S6-191425**.

**S6-191425 IWF add user to temporary group**

 *Type: CR For: Agreement
 23.283 v16.3.0 CR-0039 rev 1 Cat: B (Rel-16)

 Source: Harris Corporation*

(Replaces S6-191285)

**Discussion:**

Harris presented the document available as S6-191425.

**Decision:** The document was **revised to S6-191441**.

**S6-191441 IWF add user to temporary group**

 *Type: CR For: Agreement
 23.283 v16.3.0 CR-0039 rev 2 Cat: B (Rel-16)

 Source: Harris Corporation*

(Replaces S6-191425)

**Discussion:**

Harris presented the document available as S6-191441.

**Decision:** The document was **revised to S6-191463**.

**S6-191463 IIWF add user to temporary pre-configured group regroup**

 *Type: CR For: Agreement
 23.283 v16.3.0 CR-0039 rev 3 Cat: B (Rel-16)

 Source: Harris Corporation*

(Replaces S6-191441)

**Discussion:**

Harris presented the document available as S6-191463.

FirstNet suggested replacing "pre-configured group regroup" with "regroup group" in steps 6 and 5 in clauses 10.3.7.7.1 and 10.3.7.7.2 respectively.

The only changes are:

 - deleting "pre-configured group" in step 6 (clause 10.3.7.7.1) and

 - deleting "pre-configured group" in step 5 (clause 10.3.7.7.2).

With the above changes the revised contribution, S6-191569, is considered pre-agreed.

**Decision:** The document was **revised to S6-191569**.

**S6-191569 IIWF add user to temporary pre-configured group regroup**

 *Type: CR For: Agreement
 23.283 v16.3.0 CR-0039 rev 4 Cat: B (Rel-16)

 Source: Harris Corporation*

(Replaces S6-191463)

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

**S6-191286 IWF user regroup creation**

 *Type: CR For: Agreement
 23.283 v16.3.0 CR-0040 Cat: B (Rel-16)

 Source: Harris Corporation*

**Discussion:**

Harris presented the document available as S6-191286.

10.3.8.2 – missing information why IWF is involved.

Pre-condition missing: users exist who affiliated in IWF

Offline discussion needed.

**Decision:** The document was **revised to S6-191426**.

**S6-191426 IWF user regroup creation**

 *Type: CR For: Agreement
 23.283 v16.3.0 CR-0040 rev 1 Cat: B (Rel-16)

 Source: Harris Corporation*

(Replaces S6-191286)

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

**S6-191287 IWF temporary group calls**

 *Type: CR For: Agreement
 23.283 v16.3.0 CR-0041 Cat: B (Rel-16)

 Source: Harris Corporation*

**Discussion:**

Harris presented the document available as S6-191287.

What is the difference to normal group call?

Alternatively a note could be added to existing procedures that they apply to temporary groups as well.

**Decision:** The document was **revised to S6-191427**.

**S6-191427 IWF temporary group calls**

 *Type: CR For: Agreement
 23.283 v16.3.0 CR-0041 rev 1 Cat: B (Rel-16)

 Source: Harris Corporation*

(Replaces S6-191287)

**Discussion:**

Harris presented the document available as S6-191427.

The only change is rephrasing the text in clause 10.3.3.1 to read “The procedures in the present subclause are applicable to the following non-broadcast group call types: pre-configured group regroup calls, pre-configured user regroup calls and group regroup calls.”

With the above change the revised contribution, S6-191536, is considered pre-agreed.

**Decision:** The document was **revised to S6-191536**.

**S6-191536 IWF temporary group calls**

 *Type: CR For: Agreement
 23.283 v16.3.0 CR-0041 rev 2 Cat: B (Rel-16)

 Source: Harris Corporation*

(Replaces S6-191427)

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

**S6-191288 IWF user regroup with preconfigured group**

 *Type: CR For: Agreement
 23.283 v16.3.0 CR-0042 Cat: B (Rel-16)

 Source: Harris Corporation*

**Discussion:**

Harris presented the document available as S6-191288.

NOTE needed to say that if multiple users in IWF requires multiple messages from the MCPTT server.

10.3.10.1 – add text saying the preconfigured group has users homed in IWF.

**Decision:** The document was **revised to S6-191428**.

**S6-191428 IWF user regroup with preconfigured group**

 *Type: CR For: Agreement
 23.283 v16.3.0 CR-0042 rev 1 Cat: B (Rel-16)

 Source: Harris Corporation*

(Replaces S6-191288)

**Discussion:**

Harris presented the document available as S6-191428.

**Decision:** The document was **revised to S6-191442**.

**S6-191442 IWF user regroup with preconfigured group**

 *Type: CR For: Agreement
 23.283 v16.3.0 CR-0042 rev 2 Cat: B (Rel-16)

 Source: Harris Corporation*

(Replaces S6-191428)

**Discussion:**

Harris presented the document available as S6-191442.

**Decision:** The document was **revised to S6-191499**.

**S6-191499 IWF user regroup with pre-configured group**

 *Type: CR For: Agreement
 23.283 v16.3.0 CR-0042 rev 3 Cat: B (Rel-16)

 Source: Harris Corporation*

(Replaces S6-191442)

**Discussion:**

Harris presented the document available as S6-191499.

Motorola Solutions suggested removing "pre-configured" to align with S6-191569.

**Decision:** The document was **revised to S6-191570**.

**S6-191570 IWF user regroup with pre-configured group**

 *Type: CR For: Agreement
 23.283 v16.3.0 CR-0042 rev 4 Cat: B (Rel-16)

 Source: Harris Corporation*

(Replaces S6-191499)

**Discussion:**

Harris presented the document available as S6-191570.

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

**S6-191289 IWF group deletion**

 *Type: CR For: Agreement
 23.283 v16.3.0 CR-0043 Cat: B (Rel-16)

 Source: Harris Corporation*

**Discussion:**

Harris presented the document available as S6-191289.

GMS-IWF messages do not work?

Similar group deletion notification needed towards IWF as for the MCPTT server?

Offline discussion needed.

**Decision:** The document was **revised to S6-191429**.

**S6-191429 IWF group deletion**

 *Type: CR For: Agreement
 23.283 v16.3.0 CR-0043 rev 1 Cat: B (Rel-16)

 Source: Harris Corporation*

(Replaces S6-191289)

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

**S6-191290 IWF preconfigured broadcast group calls**

 *Type: CR For: Agreement
 23.283 v16.3.0 CR-0044 Cat: B (Rel-16)

 Source: Harris Corporation*

**Discussion:**

Harris presented the document available as S6-191290.

Same comments as for S6-191288.

**Decision:** The document was **revised to S6-191430**.

**S6-191430 IWF preconfigured broadcast group calls**

 *Type: CR For: Agreement
 23.283 v16.3.0 CR-0044 rev 1 Cat: B (Rel-16)

 Source: Harris Corporation*

(Replaces S6-191290)

**Discussion:**

Harris presented the document available as S6-191430.

**Decision:** The document was **revised to S6-191443**.

**S6-191443 IWF preconfigured broadcast group calls**

 *Type: CR For: Agreement
 23.283 v16.3.0 CR-0044 rev 2 Cat: B (Rel-16)

 Source: Harris Corporation*

(Replaces S6-191430)

**Discussion:**

Harris presented the document available as S6-191443.

It was suggested finding a better term for the regroup group.

**Decision:** The document was **revised to S6-191500**.

**S6-191500 IWF preconfigured broadcast group calls**

 *Type: CR For: Agreement
 23.283 v16.3.0 CR-0044 rev 3 Cat: B (Rel-16)

 Source: Harris Corporation*

(Replaces S6-191443)

**Discussion:**

Harris presented the document available as S6-191500.

It was suggested aligning pre-configured regroup vs regroup with S6-191569.

**Decision:** The document was **revised to S6-191571**.

**S6-191571 IWF preconfigured broadcast group calls**

 *Type: CR For: Agreement
 23.283 v16.3.0 CR-0044 rev 4 Cat: B (Rel-16)

 Source: Harris Corporation*

(Replaces S6-191500)

**Discussion:**

Harris presented the document available as S6-191571.

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

### 9.6 MBMSAPI\_MCS - MBMS APIs for Mission Critical Services

### 9.7 V2XAPP - Application layer support for V2X services

**S6-191369 Update to functional model**

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

 Source: Huawei, Hisilicon*

**Abstract:**

Proposal for Update to functional model

**Discussion:**

Huawei presented the document available as S6-191369.

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

**S6-191343 Remove EN GeoIDs**

 *Type: CR For: Approval
 23.286 v16.0.0 CR-0001 Cat: D (Rel-16)

 Source: Ericsson GmbH, Eurolab*

**Abstract:**

remove editor's note

**Discussion:**

Ericsson presented the document available as S6-191343.

The chairman pointed out the missing "Consequences if not approved" and "Clauses affected" on the cover page and suggested further to change the category to "F".

**Decision:** The document was **revised to S6-191470**.

**S6-191470 Remove EN GeoIDs**

 *Type: CR For: Approval
 23.286 v16.0.0 CR-0001 rev 1 Cat: F (Rel-16)

 Source: Ericsson GmbH, Eurolab*

(Replaces S6-191343)

**Discussion:**

Ericsson presented the document available as S6-191470.

Only change is to insert correct revision # (i.e. 2) on the cover page.

With the above change the revised contribution, S6-191538, is considered pre-agreed.

**Decision:** The document was **revised to S6-191538**.

**S6-191538 Remove EN GeoIDs**

 *Type: CR For: Approval
 23.286 v16.0.0 CR-0001 rev 2 Cat: D (Rel-16)

 Source: Ericsson GmbH, Eurolab*

(Replaces S6-191470)

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

**S6-191393 Corrections on notifications for network monitoring procedure**

 *Type: CR For: Agreement
 23.286 v16.0.0 CR-0007 Cat: F (Rel-16)

 Source: Huawei, Hisilicon*

**Discussion:**

Huawei presented the document available as S6-191393.

Vodafone suggested some rephrasing like e.g. replacing "translation of" with "based on".

Qualcomm did not agree with the "e.g. uplink or downlink degradation" in table 9.7.2.1-1.

**Decision:** The document was **revised to S6-191471**.

**S6-191471 Corrections on notifications for network monitoring procedure**

 *Type: CR For: Agreement
 23.286 v16.0.0 CR-0007 rev 1 Cat: F (Rel-16)

 Source: Huawei, Hisilicon*

(Replaces S6-191393)

**Discussion:**

Huawei presented the document available as S6-191471.

Ericsson suggested to align the bullets in table 9.7.2.3-1.

The only change is aligning the style/tabs of the bullets in table 9.7.2.3-1.

With the above changes the revised contribution, S6-191572, is considered pre-agreed.

**Decision:** The document was **revised to S6-191572**.

**S6-191572 Corrections on notifications for network monitoring procedure**

 *Type: CR For: Agreement
 23.286 v16.0.0 CR-0007 rev 2 Cat: F (Rel-16)

 Source: Huawei, Hisilicon*

(Replaces S6-191471)

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

**S6-191372 Correction to push layer-2 group ID mapping information flow**

 *Type: CR For: Agreement
 23.286 v16.0.0 CR-0006 Cat: F (Rel-16)

 Source: Huawei, Hisilicon*

**Abstract:**

Proposal for Correction to push layer-2 group ID mapping information flow

**Discussion:**

Huawei presented the document available as S6-191372.

Ericsson suggested making the proposal more general.

It was decided to discuss further offline.

**Decision:** The document was **revised to S6-191474**.

**S6-191474 Correction to push layer-2 group ID mapping information flow**

 *Type: CR For: Agreement
 23.286 v16.0.0 CR-0006 rev 1 Cat: F (Rel-16)

 Source: Huawei, Hisilicon*

(Replaces S6-191372)

**Discussion:**

Huawei presented the document available as S6-191474.

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

**S6-191344 Functionalities with SA2 dependency**

 *Type: CR For: Approval
 23.286 v16.0.0 CR-0002 Cat: F (Rel-16)

 Source: Ericsson GmbH, Eurolab*

**Abstract:**

resolve dependencies with SA2

**Discussion:**

Ericsson presented the document available as S6-191344.

Lengthy discussion continued on whether the procedure should be kept or not.

Samsung suggested keeping the procedure but replacing the arrows in the figures with boxes.

**Decision:** The document was **revised to S6-191472**.

**S6-191472 Functionalities with SA2 dependency**

 *Type: CR For: Approval
 23.286 v16.0.0 CR-0002 rev 1 Cat: F (Rel-16)

 Source: Ericsson GmbH, Eurolab*

(Replaces S6-191344)

**Discussion:**

Ericsson presented the document available as S6-191472.

Huawei suggested to add a sentence with general information in Annex B.

It was also pointed out that the revision field needs to be filled on the cover page.

**Decision:** The document was **revised to S6-191539**.

**S6-191539 Functionalities with SA2 dependency**

 *Type: CR For: Approval
 23.286 v16.0.0 CR-0002 rev 2 Cat: F (Rel-16)

 Source: Ericsson GmbH, Eurolab*

(Replaces S6-191472)

**Discussion:**

Ericsson presented the document available as S6-191539.

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

**S6-191370 Update to network QoS and situation monitoring aligned with SA2**

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

 Source: Huawei, Hisilicon*

**Abstract:**

Proposal for Update to network QoS and situation monitoring aligned with SA2

**Discussion:**

Huawei presented the document available as S6-191370.

Ericsson noted that it was not clear how the table 9.13.1-1 maps to the procedures.

Qualcomm suggested deleting the table 9.13.1-1.

**Decision:** The document was **revised to S6-191473**.

**S6-191473 Update to network QoS and situation monitoring aligned with SA2**

 *Type: CR For: Agreement
 23.286 v16.0.0 CR-0004 rev 1 Cat: F (Rel-16)

 Source: Huawei, Hisilicon*

(Replaces S6-191370)

**Discussion:**

Huawei presented the document available as S6-191473.

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

**S6-191371 Dynamic group API**

 *Type: CR For: Agreement
 23.286 v16.0.0 CR-0005 Cat: F (Rel-16)

 Source: Huawei, Hisilicon*

**Abstract:**

Proposal for Dynamic group API

**Discussion:**

Huawei presented the document available as S6-191371.

There was a suggestion to move the proposal to SEAL.

It was proposed to add an editor's note.

**Decision:** The document was **revised to S6-191475**.

**S6-191475 Dynamic group API**

 *Type: CR For: Agreement
 23.286 v16.0.0 CR-0005 rev 1 Cat: F (Rel-16)

 Source: Huawei, Hisilicon*

(Replaces S6-191371)

**Discussion:**

Huawei presented the document available as S6-191475.

The only change is to insert the correct revision number on the cover page.

With the above change the revised contribution, S6-191540, is considered pre-agreed.

**Decision:** The document was **revised to S6-191540**.

**S6-191540 Dynamic group API**

 *Type: CR For: Agreement
 23.286 v16.0.0 CR-0005 rev 2 Cat: F (Rel-16)

 Source: Huawei, Hisilicon*

(Replaces S6-191475)

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

### 9.8 SEAL - Service Enabler Architecture Layer for Verticals

**S6-191340 Architecture requirements group management**

 *Type: CR For: Approval
 23.434 v16.0.0 CR-0001 Cat: F (Rel-16)

 Source: Ericsson GmbH, Eurolab*

**Abstract:**

CR requirements for group management

**Discussion:**

Ericsson presented the document available as S6-191340.

Qualcomm raised concern with adding "or servers".

**Decision:** The document was **revised to S6-191465**.

**S6-191465 Architecture requirements group management**

 *Type: CR For: Approval
 23.434 v16.0.0 CR-0001 rev 1 Cat: F (Rel-16)

 Source: Ericsson GmbH, Eurolab*

(Replaces S6-191340)

**Discussion:**

Ericsson presented the document available as S6-191465.

The only changes are to:

 - insert the revision information on the cover page and

 - remove changes on changes (i.e. the requirement [AR-4.4.2-d] shall not appear).

With the above changes the revised contribution, S6-191541, is considered pre-agreed.

**Decision:** The document was **revised to S6-191541**.

**S6-191541 Architecture requirements group management**

 *Type: CR For: Approval
 23.434 v16.0.0 CR-0001 rev 2 Cat: F (Rel-16)

 Source: Ericsson GmbH, Eurolab*

(Replaces S6-191465)

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

**S6-191341 User authorization in SEAL**

 *Type: discussion For: Discussion
 23.434 v..
 Source: Ericsson GmbH, Eurolab*

**Abstract:**

Discussion paper on user authorization in SEAL.

**Discussion:**

Ericsson presented the document available as S6-191341.

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

**S6-191342 Group announcement and join**

 *Type: CR For: Approval
 23.434 v16.0.0 CR-0002 Cat: F (Rel-16)

 Source: Ericsson GmbH, Eurolab*

**Abstract:**

CR group announcement and join

**Discussion:**

Ericsson presented the document available as S6-191342 and noted that Huawei already had given some offline comments and that the contribution hence would need to be revised.

Qualcomm was of the view that there was too much happening in the proposed contribution e.g. group creation and announcement. They hence suggested to break up the proposal.

It was suggested to continue the discussion offline.

**Decision:** The document was **revised to S6-191466**.

**S6-191466 Group announcement and join**

 *Type: CR For: Approval
 23.434 v16.0.0 CR-0002 rev 1 Cat: F (Rel-16)

 Source: Ericsson, Samsung*

(Replaces S6-191342)

**Discussion:**

Ericsson presented the document available as S6-191466.

The only changes are to:

 - insert the revision information on the cover page and

 - remove changes on changes.

With the above changes the revised contribution, S6-191542, is considered pre-agreed.

**Decision:** The document was **revised to S6-191542**.

**S6-191542 Group announcement and join**

 *Type: CR For: Approval
 23.434 v16.0.0 CR-0002 rev 2 Cat: F (Rel-16)

 Source: Ericsson, Samsung*

(Replaces S6-191466)

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

**S6-191373 Corrections to network resource management procedures**

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

 Source: Huawei, Hisilicon*

**Abstract:**

Proposal for Corrections to network resource management procedures

**Discussion:**

Huawei presented the document available as S6-191373.

Qualcomm suggested clarifying what kind of resources were requested, they also noted that the VAL server should decide on the delivery mode.

**Decision:** The document was **revised to S6-191467**.

**S6-191467 Corrections to network resource management procedures**

 *Type: CR For: Agreement
 23.434 v16.0.0 CR-0003 rev 1 Cat: F (Rel-16)

 Source: Huawei, Hisilicon*

(Replaces S6-191373)

**Discussion:**

Huawei presented the document available as S6-191467.

Qualcomm suggested adding an editor's note.

**Decision:** The document was **revised to S6-191543**.

**S6-191543 Corrections to network resource management procedures**

 *Type: CR For: Agreement
 23.434 v16.0.0 CR-0003 rev 2 Cat: F (Rel-16)

 Source: Huawei, Hisilicon*

(Replaces S6-191467)

**Discussion:**

Huawei presented the document available as S6-191543.

Qualcomm suggested stating the resource request is optional.

**Decision:** The document was **revised to S6-191573**.

**S6-191573 Corrections to network resource management procedures**

 *Type: CR For: Agreement
 23.434 v16.0.0 CR-0003 rev 3 Cat: F (Rel-16)

 Source: Huawei, Hisilicon*

(Replaces S6-191543)

**Discussion:**

Huawei presented the document available as S6-191573.

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

**S6-191374 N5 reference point description**

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

 Source: Huawei, Hisilicon*

**Abstract:**

Proposal for N5 reference point description.

**Discussion:**

Huawei presented the document available as S6-191374.

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

**S6-191384 Service-based architecture of SEAL**

 *Type: discussion For: Agreement
 23.434 v..
 Source: T-Mobile Austria GmbH*

**Abstract:**

service-based architecture vs reference points architecture

**Discussion:**

T-Mobile presented the document available as S6-191384.

Samsung was of the view that at least some of the changes would require further study.

Vodafone indicated that the proposal on how the services are offered to verticals seemed very old-fashioned (client-server).

Samsung suggested refer to the servers as functions.

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

**S6-191385 Change of service-based interface representation of the functional model for SEAL**

 *Type: CR For: Approval
 23.434 v16.0.0 CR-0005 Cat: F (Rel-16)

 Source: T-Mobile Austria GmbH*

**Abstract:**

Current representation of the functional model for SEAL services does not correctly show the service based architecture and interfaces. Presenting different functions as servers gives the impression that service based architecture is not used.

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

**S6-191468 Change of service-based interface representation of the functional model for SEAL**

 *Type: CR For: Agreement
 23.434 v16.0.0 CR-0006 Cat: F (Rel-16)

 Source: Deutsche Telekom, Samsung*

**Abstract:**

Current representation of the functional model for SEAL services does not correctly show the service based architecture and interfaces. Presenting different functions as servers gives the impression that service based architecture is not used. Functional representation differs from SA2 terminology. The contribution proposes changing the term server to function.

**Discussion:**

T-Mobile presented the document available as S6-191468.

It was suggested to reword the note in clause 15.2.

**Decision:** The document was **revised to S6-191544**.

**S6-191544 Change of service-based interface representation of the functional model for SEAL**

 *Type: CR For: Agreement
 23.434 v16.0.0 CR-0006 rev 1 Cat: F (Rel-16)

 Source: Deutsche Telekom, Samsung*

(Replaces S6-191468)

**Discussion:**

T-Mobile presented the document available as S6-191544.

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

### 9.9 MONASTERY2 - Application Architecture for the Mobile Communication System for Railways (MONASTERY) Phase 2

**S6-191291 IWF functional alias removal**

 *Type: CR For: Agreement
 23.283 v16.3.0 CR-0045 Cat: F (Rel-16)

 Source: Harris Corporation, Motorola Solutions*

**Discussion:**

Harris presented the document available as S6-191291.

It was suggested to change:

 - CR Cat from F to C,

 - WID from Monastery2 to eMCCI and

 - the Editor's Note into a Note.

**Decision:** The document was **revised to S6-191431**.

**S6-191431 IWF functional alias removal**

 *Type: CR For: Agreement
 23.283 v16.3.0 CR-0045 rev 1 Cat: C (Rel-16)

 Source: Harris Corporation, Motorola Solutions*

(Replaces S6-191291)

**Discussion:**

Harris presented the document available as S6-191431.

The only changes are to:

 - replace "editor's note" with "note" in the reason for change (cover page) and

 - replace "Note" with "NOTE" in the actual change in clause 10.14.

With the above change the revised contribution, S6-191537, is considered pre-agreed.

**Decision:** The document was **revised to S6-191537**.

**S6-191537 IWF functional alias removal**

 *Type: CR For: Agreement
 23.283 v16.3.0 CR-0045 rev 2 Cat: C (Rel-16)

 Source: Harris Corporation, Motorola Solutions*

(Replaces S6-191431)

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

**S6-191293 IWF identities wording correction**

 *Type: CR For: Agreement
 23.283 v16.3.0 CR-0047 Cat: F (Rel-16)

 Source: Harris Corporation*

**Discussion:**

Harris presented the document available as S6-191432.

The only change is adding Motorola solutions as a co-source.

With the above changes the revised contribution, S6-191432, is considered pre-agreed.

**Decision:** The document was **revised to S6-191432**.

**S6-191432 IWF identities wording correction**

 *Type: CR For: Agreement
 23.283 v16.3.0 CR-0047 rev 1 Cat: F (Rel-16)

 Source: Harris Corporation, Motorola Solutions*

(Replaces S6-191293)

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

**S6-191309 Add condition “not reachable” to call forwaring for MCPTT private calls**

 *Type: CR For: Agreement
 23.379 v16.3.0 CR-0228 Cat: F (Rel-16)

 Source: Kapsch CarrierCom*

**Abstract:**

Add condition “not reachable” to call forwarding for MCPTT private calls

**Discussion:**

Kapsch CarrierCom presented the document available as S6-191309.

WI code to be changed to MONASTERY2.

Move to agenda item 9.9.

Offline discussion.

**Decision:** The document was **revised to S6-191446**.

**S6-191446 Add condition “not reachable” to call forwarding for MCPTT private calls**

 *Type: CR For: Agreement
 23.379 v16.3.0 CR-0228 rev 1 Cat: F (Rel-16)

 Source: Kapsch CarrierCom*

(Replaces S6-191309)

**Discussion:**

Kapsch CarrierCom presented the document available as S6-191446.

**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

**S6-191274 Functional alias for Private Call**

 *Type: CR For: Agreement
 23.283 v16.3.0 CR-0036 rev 1 Cat: B (Rel-17)

 Source: Union Inter. Chemins de Fer*

(Replaces S6-190983)

**Discussion:**

UIC presented the document available as S6-191274.

Check Clauses affected

Simplify NOTE 2

Step 3 under figure 10.4.2.1-1 – check wording.

Is the FA one that is used in MCPTT system?

Offline discussion needed.

**Decision:** The document was **revised to S6-191457**.

**S6-191457 Functional alias for Private Call**

 *Type: CR For: Agreement
 23.283 v16.3.0 CR-0036 rev 2 Cat: B (Rel-17)

 Source: Union Inter. Chemins de Fer*

(Replaces S6-191274)

**Discussion:**

UIC presented the document available as S6-191457.

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

**S6-191275 Functional alias for MCPTT Floor Control**

 *Type: CR For: Agreement
 23.283 v16.3.0 CR-0037 rev 1 Cat: B (Rel-17)

 Source: Union Inter. Chemins de Fer*

(Replaces S6-190984)

**Discussion:**

UIC presented the document available as S6-191275.

Editor's Note: Updates to 3GPP TS 23.379 -> should be to this (TS 23.383) spec, not 379.

In the information flows MPTT ID must be mandatory.

**Decision:** The document was **revised to S6-191458**.

**S6-191458 Functional alias for MCPTT Floor Control**

 *Type: CR For: Agreement
 23.283 v16.3.0 CR-0037 rev 2 Cat: B (Rel-17)

 Source: Union Inter. Chemins de Fer*

(Replaces S6-191275)

**Discussion:**

UIC presented the document available as S6-191458.

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

**S6-191276 Status of eMONASTERY2**

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

**Abstract:**

The paper shows the CR implementation status for the normative work on MONASTERY2 (Rel-16) and eMONASTERY2 (Rel-17).

**Discussion:**

Nokia presented the document available as S6-191276.

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

**S6-191277 Communication priority for functional aliases**

 *Type: CR For: Agreement
 23.281 v16.2.0 CR-0134 Cat: B (Rel-17)

 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

The MCVideo service configuration data is enhanced by adding a communication priority associated to a functional alias.

**Discussion:**

Nokia presented the document available as S6-191277.

Parameters below “Functional alias” must be at “lower level”.

**Decision:** The document was **revised to S6-191444**.

**S6-191444 Communication priority for functional aliases**

 *Type: CR For: Agreement
 23.281 v16.2.0 CR-0134 rev 1 Cat: B (Rel-17)

 Source: Nokia, Nokia Shanghai Bell*

(Replaces S6-191277)

**Discussion:**

Nokia presented the document available as S6-191444.

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

**S6-191278 Communication priority for functional aliases**

 *Type: CR For: Agreement
 23.282 v16.3.0 CR-0166 Cat: B (Rel-17)

 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

The MCData service configuration data is enhanced by adding a communication priority associated to a functional alias.

**Discussion:**

Nokia presented the document available as S6-191278.

Same comments as for S6-191277.

**Decision:** The document was **revised to S6-191445**.

**S6-191445 Communication priority for functional aliases**

 *Type: CR For: Agreement
 23.282 v16.3.0 CR-0166 rev 1 Cat: B (Rel-17)

 Source: Nokia, Nokia Shanghai Bell*

(Replaces S6-191278)

**Discussion:**

Nokia presented the document available as S6-191445.

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

**S6-191310 Add call transfer for MCPTT private calls**

 *Type: CR For: Agreement
 23.379 v16.3.0 CR-0229 Cat: B (Rel-17)

 Source: Kapsch CarrierCom*

**Abstract:**

Add call transfer for MCPTT private calls

**Discussion:**

Kapsch CarrierCom presented the document available as S6-191310.

Step 14? – no need to have all 3 users in the same call (media plane) simultaneously.

Max number of call transfers? -> not needed.

Restricted to manual commencement mode?

A NOTE about whitelist to be added

**Decision:** The document was **revised to S6-191447**.

**S6-191447 Add call transfer for MCPTT private calls**

 *Type: CR For: Agreement
 23.379 v16.3.0 CR-0229 rev 1 Cat: B (Rel-17)

 Source: Kapsch CarrierCom*

(Replaces S6-191310)

**Discussion:**

Kapsch CarrierCom presented the document available as S6-191447.

Motorola Solutions suggested modifying the suspend in step 10.

**Decision:** The document was **revised to S6-191553**.

**S6-191553 Add call transfer for MCPTT private calls**

 *Type: CR For: Agreement
 23.379 v16.3.0 CR-0229 rev 2 Cat: B (Rel-17)

 Source: Kapsch CarrierCom*

(Replaces S6-191447)

**Discussion:**

Kapsch CarrierCom presented the document available as S6-191553.

The Police of Netherlands suggested expanding the step 24.

**Decision:** The document was **revised to S6-191605**.

**S6-191605 Add call transfer for MCPTT private calls**

 *Type: CR For: Agreement
 23.379 v16.3.0 CR-0229 rev 3 Cat: B (Rel-17)

 Source: Kapsch CarrierCom*

(Replaces S6-191553)

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

**S6-191281 Providing activated functional alias information to the group controlling server**

 *Type: CR For: Agreement
 23.280 v16.3.0 CR-0207 Cat: B (Rel-17)

 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

The MC service group affiliation request and the functional alias activation request are enhanced.

**Discussion:**

Nokia presented the document available as S6-191281.

New information flow and one new procedure better than modifying the existing procedures.

Another new procedure needed to unbind a FA from a group.

Add note/clarify:

Group controlling server has to subscribe to FA controlling server.

Add description : Preventing de-binding if the user is the last user of this FA.

FFS:

Remove FA from existing Group call request.

**Decision:** The document was **revised to S6-191448**.

**S6-191448 Providing activated functional alias information to the group controlling server**

 *Type: CR For: Agreement
 23.280 v16.3.0 CR-0207 rev 1 Cat: B (Rel-17)

 Source: Nokia, Nokia Shanghai Bell*

(Replaces S6-191281)

**Discussion:**

Nokia presented the document available as S6-191448.

FirstNet suggested adding a note with information about the one to one relationship between the group ID list and the functional alias list.

Motorola Solutions suggested adding some information about the fact that the binding stays for the duration login session.

**Decision:** The document was **revised to S6-191554**.

**S6-191554 Providing activated functional alias information to the group controlling server**

 *Type: CR For: Agreement
 23.280 v16.3.0 CR-0207 rev 2 Cat: B (Rel-17)

 Source: Nokia, Nokia Shanghai Bell*

(Replaces S6-191448)

**Discussion:**

Nokia presented the document available as S6-191554.

Motorola Solutions suggested adding an editor's note along the lines of "How the binding affects the original request" and rephrasing the disconnect in the first paragraph.

**Decision:** The document was **revised to S6-191606**.

**S6-191606 Providing activated functional alias information to the group controlling server**

 *Type: CR For: Agreement
 23.280 v16.3.0 CR-0207 rev 3 Cat: B (Rel-17)

 Source: Nokia, Nokia Shanghai Bell*

(Replaces S6-191554)

**Discussion:**

Nokia presented the document available as S6-191606.

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

**S6-191282 Providing the list of functional aliases used by affiliated group members**

 *Type: CR For: Agreement
 23.280 v16.3.0 CR-0208 Cat: B (Rel-17)

 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Adding functional alias information to the contents of the group dynamic data as defined in subclause 10.1.5.5 and more.

**Discussion:**

Nokia presented the document available as S6-191282.

10.1.5.5.1 wrong version?

Separate parameter for binding information group vs FAs.

Separate table for activation status of FAs.

10.1.5.6.1.1 – no change needed

10.1.5.6.2 – no change needed

**Decision:** The document was **revised to S6-191449**.

**S6-191449 Providing the list of functional aliases used by affiliated group members**

 *Type: CR For: Agreement
 23.280 v16.3.0 CR-0208 rev 1 Cat: B (Rel-17)

 Source: Nokia, Nokia Shanghai Bell*

(Replaces S6-191282)

**Discussion:**

Nokia presented the document available as S6-191449.

The Police of Netherlands suggested rephrasing the proposed description in table 10.1.5.5.1-1 to refer to single functional alias only.

**Decision:** The document was **revised to S6-191555**.

**S6-191555 Providing the list of functional aliases used by affiliated group members**

 *Type: CR For: Agreement
 23.280 v16.3.0 CR-0208 rev 2 Cat: B (Rel-17)

 Source: Nokia, Nokia Shanghai Bell*

(Replaces S6-191449)

**Discussion:**

Nokia presented the document available as S6-191555.

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

**S6-191283 Prevent from de-affiliation when using a specific functional alias**

 *Type: CR For: Agreement
 23.280 v16.3.0 CR-0209 Cat: B (Rel-17)

 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Modifying the MC service group de-affiliation procedures so that the MC service server checks whether de-affiliation needs to be prevented in conjunction the use of functional aliases.

**Discussion:**

Nokia presented the document available as S6-191283.

“…using a certain functional alias…” -> check terminology

10.8.4.4 – precondition 5 should be in step 1

“List of functional aliases which prevents from de-affiliation, if only once used in the group” – check terminology

“prevents from de-affiliation” -> “prevents de-affiliation “

”List of functional aliases which prevents from de-affiliation” -> ‘N’ for UE

**Decision:** The document was **revised to S6-191450**.

**S6-191450 Prevent from de-affiliation when using a specific functional alias**

 *Type: CR For: Agreement
 23.280 v16.3.0 CR-0209 rev 1 Cat: B (Rel-17)

 Source: Nokia, Nokia Shanghai Bell*

(Replaces S6-191283)

**Discussion:**

Nokia presented the document available as S6-191450.

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

**S6-191315 Discussion on scenarios and solution for functional aliases**

 *Type: discussion For: Approval
 23.379 v..
 Source: TD Tech Ltd, Chengdu TD Tech*

**Discussion:**

TD Tech presented the document available as S6-191315.

“The current solution first-to-answer call is initially used for a single MCPTT user logging on multiple clients,” –> not correct (but no need to update the discussion paper)

Not acceptable for public safety.

Also a security issue for railways.

Related GSM-R short code.

This functionality is used in China.

Not supported by current stage1 requirements.

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

**S6-191316 Functional alias as called party in private call**

 *Type: CR For: Approval
 23.379 v16.3.0 CR-0230 Cat: B (Rel-17)

 Source: TD Tech Ltd*

**Discussion:**

TD Tech presented the document available as S6-191316.

It was noted that there was no SA1 requirement for this.

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

**S6-191279 Support of functional aliases as called party address in MCPTT emergency private calls**

 *Type: CR For: Agreement
 23.379 v16.3.0 CR-0225 Cat: B (Rel-17)

 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Modifying existing MCPTT emergency private call setup procedures and information flows to support the use of a functional alias as target address.

**Discussion:**

Nokia presented the document available as S6-191279.

It was concluded that the SA1 requirements for the proposal need to be clarified.

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

**S6-191280 Call restrictions when using a specific functional alias for private calls**

 *Type: CR For: Agreement
 23.379 v16.3.0 CR-0226 Cat: B (Rel-17)

 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Modify the MCPTT first-to-answer call procedure to add additional checks by the MCPTT server. Enhance MCPTT user profile configuration data.

**Discussion:**

Nokia presented the document available as S6-191280.

The checks (new text in step 3) must be optional.

In new parameters “private calls” -> “first to answer calls”

**Decision:** The document was **revised to S6-191451**.

**S6-191451 Call restrictions when using a specific functional alias for private calls**

 *Type: CR For: Agreement
 23.379 v16.3.0 CR-0226 rev 1 Cat: B (Rel-17)

 Source: Nokia, Nokia Shanghai Bell*

(Replaces S6-191280)

**Discussion:**

Nokia presented the document available as S6-191451.

Motorola Solutions suggested changing the "..the MCPTT server may also check whether MCPTT client 1 is allowed.." in step 3.

The only change is to replace in step 3 (clause 10.15.3) "If using functional aliases, the MCPTT server may also check whether MCPTT client 1 is allowed to use the functional alias of MCPTT client 2.." with "If a functional alias is present the MCPTT server shall check whether MCPTT client 1 is allowed to use the functional alias of MCPTT client 2.."

With the above changes the revised contribution, S6-191556, is considered pre-agreed.

**Decision:** The document was **revised to S6-191556**.

**S6-191556 Call restrictions when using a specific functional alias for private calls**

 *Type: CR For: Agreement
 23.379 v16.3.0 CR-0226 rev 2 Cat: B (Rel-17)

 Source: Nokia, Nokia Shanghai Bell*

(Replaces S6-191451)

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

**S6-191270 Point-to-Point IP connectivitity using functional alias to address the target MCData user**

 *Type: CR For: Agreement
 23.282 v16.3.0 CR-0162 Cat: B (Rel-17)

 Source: Union Inter. Chemins de Fer*

**Abstract:**

Adds functional alias to address target MCData user

**Discussion:**

UIC presented the document available as S6-191270.

Table 7.14.2.1.1-1 – add a note that one and only one of the optional parameters shall be included

Separate information flow for server to client needed.

Change “(1 of n)” “(1 out of 2…N)”

Existing procedure from 23.282 should be deleted (is replaced with the new non-shared procedure).

**Decision:** The document was **revised to S6-191452**.

**S6-191452 Point-to-Point IP connectivitity using functional alias to address the target MCData user**

 *Type: CR For: Agreement
 23.282 v16.3.0 CR-0162 rev 1 Cat: B (Rel-17)

 Source: Union Inter. Chemins de Fer*

(Replaces S6-191270)

**Discussion:**

Revised prior to presentation.

**Decision:** The document was **revised to S6-191508**.

**S6-191508 Point-to-Point IP connectivitity using functional alias to address the target MCData user**

 *Type: CR For: Agreement
 23.282 v16.3.0 CR-0162 rev 2 Cat: B (Rel-17)

 Source: Union Inter. Chemins de Fer*

(Replaces S6-191452)

**Discussion:**

UIC presented the document available as S6-191508.

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

**S6-191271 SDS addressing based on functional alias**

 *Type: CR For: Agreement
 23.282 v16.3.0 CR-0163 Cat: B (Rel-17)

 Source: Union Inter. Chemins de Fer*

**Abstract:**

Add functional alias to address recipient of an SDS

**Discussion:**

UIC presented the document available as S6-191271.

The proposed solutions for One-to-one for shared FA do not work.

Editorial: all changes against current standard needs to be shown.

**Decision:** The document was **revised to S6-191453**.

**S6-191453 SDS addressing based on functional alias**

 *Type: CR For: Agreement
 23.282 v16.3.0 CR-0163 rev 1 Cat: B (Rel-17)

 Source: Union Inter. Chemins de Fer*

(Replaces S6-191271)

**Discussion:**

UIC presented the document available as S6-191453.

FirstNet pointed out that the words alias and user were missing in several places.

**Decision:** The document was **revised to S6-191557**.

**S6-191557 SDS addressing based on functional alias**

 *Type: CR For: Agreement
 23.282 v16.3.0 CR-0163 rev 2 Cat: B (Rel-17)

 Source: Union Inter. Chemins de Fer*

(Replaces S6-191453)

**Discussion:**

UIC presented the document available as S6-191557.

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

**S6-191272 Remote initiation of Point-to-Point IP connectivity**

 *Type: CR For: Agreement
 23.282 v16.3.0 CR-0164 Cat: B (Rel-17)

 Source: Union Inter. Chemins de Fer*

**Abstract:**

Allows the remote initiation of a Point-to-Point IP connectivity session

**Discussion:**

UIC presented the document available as S6-191272.

Why is FA needed for PtoP ? agreed to remove

Client 1 asks for a PtP connection btw Client2 and 3. Not a task for Client2.

In the Info flow, either MC data targeted id or FA targeted id must be mandatory.

Time limit for the established session?

Authorization needed only for the one who sets up the connection, not for the targets (last parameter not needed).

In the procedure, server should send message both to client2 and client3 for a ptp setup, not to ask client2 to ask to do the setup.

Offline discussion needed.

**Decision:** The document was **revised to S6-191455**.

**S6-191455 Remote initiation of Point-to-Point IP connectivity**

 *Type: CR For: Agreement
 23.282 v16.3.0 CR-0164 rev 1 Cat: B (Rel-17)

 Source: Union Inter. Chemins de Fer*

(Replaces S6-191272)

**Discussion:**

UIC presented the document available as S6-191455.

Huawei raised some concern about step 5.

This will discussed offline.

**Decision:** The document was **revised to S6-191558**.

**S6-191558 Remote initiation of Point-to-Point IP connectivity**

 *Type: CR For: Agreement
 23.282 v16.3.0 CR-0164 rev 2 Cat: B (Rel-17)

 Source: Union Inter. Chemins de Fer*

(Replaces S6-191455)

**Discussion:**

UIC presented the document available as S6-191558.

Motorola Solutions pointed out an issue in the information tables.

**Decision:** The document was **revised to S6-191607**.

**S6-191607 Remote initiation of Point-to-Point IP connectivity**

 *Type: CR For: Agreement
 23.282 v16.3.0 CR-0164 rev 3 Cat: B (Rel-17)

 Source: Union Inter. Chemins de Fer*

(Replaces S6-191558)

**Discussion:**

UIC presented the document available as S6-191607.

Motorola Solutions suggested rephrasing the sentence "The IP connectivity status shall be forwarded by MCData client 2 to the distant MCData client 1." in step 5. In particular the word distant.

The only changes are removing "distant" from first sentence of 7.14.2.3.2 and "the distant" from step 5.

With the above changes the revised contribution, S6-191615, is considered pre-agreed.

**Decision:** The document was **revised to S6-191615**.

**S6-191615 Remote initiation of Point-to-Point IP connectivity**

 *Type: CR For: Agreement
 23.282 v16.3.0 CR-0164 rev 4 Cat: B (Rel-17)

 Source: Union Inter. Chemins de Fer*

(Replaces S6-191607)

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

**S6-191273 Withdraw Point-to-Point IP connectivity**

 *Type: CR For: Agreement
 23.282 v16.3.0 CR-0165 Cat: B (Rel-17)

 Source: Union Inter. Chemins de Fer*

**Abstract:**

Withdrawal of an IP connectivity session

**Discussion:**

UIC presented the document available as S6-191273.

**Decision:** The document was **revised to S6-191456**.

**S6-191456 Withdraw Point-to-Point IP connectivity**

 *Type: CR For: Agreement
 23.282 v16.3.0 CR-0165 rev 1 Cat: B (Rel-17)

 Source: Union Inter. Chemins de Fer*

(Replaces S6-191273)

**Discussion:**

UIC presented the document available as S6-191456.

**Decision:** The document was **revised to S6-191559**.

**S6-191559 Withdraw Point-to-Point IP connectivity**

 *Type: CR For: Agreement
 23.282 v16.3.0 CR-0165 rev 2 Cat: B (Rel-17)

 Source: Union Inter. Chemins de Fer*

(Replaces S6-191456)

**Discussion:**

UIC presented the document available as S6-191559.

Motorola Solutions pointed out an issue in the information tables.

**Decision:** The document was **revised to S6-191608**.

**S6-191608 Withdraw Point-to-Point IP connectivity**

 *Type: CR For: Agreement
 23.282 v16.3.0 CR-0165 rev 3 Cat: B (Rel-17)

 Source: Union Inter. Chemins de Fer*

(Replaces S6-191559)

**Discussion:**

UIC presented the document available as S6-191608.

The only changes are removing "distant" from the first sentence of clause 7.14.2.4.2.

With the above changes the revised contribution, S6-191616, is considered pre-agreed.

**Decision:** The document was **revised to S6-191616**.

**S6-191616 Withdraw Point-to-Point IP connectivity**

 *Type: CR For: Agreement
 23.282 v16.3.0 CR-0165 rev 4 Cat: B (Rel-17)

 Source: Union Inter. Chemins de Fer*

(Replaces S6-191608)

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

**S6-191292 IWF functional alias restoration**

 *Type: CR For: Agreement
 23.283 v16.3.0 CR-0046 Cat: B (Rel-17)

 Source: Harris Corporation*

**Abstract:**

Restores functional alias management content removed in Rel-16.

**Discussion:**

Harris presented the document available as S6-191292.

Deleted “Editor’s note” should be “Note” (ref related Rel-16 CR).

Add new Editor’s note about authentication.

No additional changes to existing text must be done, just copy-paste from Rel-16 version.

**Decision:** The document was **revised to S6-191454**.

**S6-191454 IWF functional alias restoration**

 *Type: CR For: Agreement
 23.283 v16.3.0 CR-0046 rev 1 Cat: B (Rel-17)

 Source: Harris Corporation*

(Replaces S6-191292)

**Discussion:**

Harris presented the document available as S6-191454.

The only change is replacing “note” with Note” in the second EN, in clause 10.14.1.

With the above changes the revised contribution, S6-191560, is considered pre-agreed.

**Decision:** The document was **revised to S6-191560**.

**S6-191560 IWF functional alias restoration**

 *Type: CR For: Agreement
 23.283 v16.3.0 CR-0046 rev 2 Cat: B (Rel-17)

 Source: Harris Corporation*

(Replaces S6-191454)

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

**S6-191306 Add first-to-answer for interworking with GSM-R**

 *Type: CR For: Agreement
 23.283 v16.3.0 CR-0048 Cat: B (Rel-17)

 Source: Kapsch CarrierCom*

**Abstract:**

Add procedures and information flows to support interworking of first-to-answer calls with GSM-R

**Discussion:**

Kapsch CarrierCom presented the document available as S6-191306.

Check how IWF private call is defined and if applicable here.

Add ‘general’ clause to introduce the topic.

Editorial corrections.

Table 10.X.1.1-1 – check the called party addresses.

Offline discussion needed.

**Decision:** The document was **revised to S6-191459**.

**S6-191459 Add first-to-answer for interworking with GSM-R**

 *Type: CR For: Agreement
 23.283 v16.3.0 CR-0048 rev 1 Cat: B (Rel-17)

 Source: Kapsch CarrierCom*

(Replaces S6-191306)

**Discussion:**

Kapsch CarrierCom presented the document available as S6-191459.

**Decision:** The document was **revised to S6-191561**.

**S6-191561 Add first-to-answer for interworking with GSM-R**

 *Type: CR For: Agreement
 23.283 v16.3.0 CR-0048 rev 2 Cat: B (Rel-17)

 Source: Kapsch CarrierCom*

(Replaces S6-191459)

**Discussion:**

Kapsch CarrierCom presented the document available as S6-191561.

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

**S6-191307 Add enhancements for interworking of MCPTT group calls with GSM-R**

 *Type: CR For: Agreement
 23.283 v16.3.0 CR-0049 Cat: B (Rel-17)

 Source: Kapsch CarrierCom*

**Abstract:**

Modifying existing interworking of MCPTT group call procedures and information flows to support the use of a functional alias for originating party.

**Discussion:**

Kapsch CarrierCom presented the document available as S6-191307.

Another solution presented earlier – binding of FA to a group ID.

Should wait until the FA binding for groups is finalized.

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

**S6-191308 Add enhancements for interworking of MCData SDS with GSM-R SMS**

 *Type: CR For: Agreement
 23.283 v16.3.0 CR-0050 Cat: B (Rel-17)

 Source: Kapsch CarrierCom*

**Abstract:**

Modifying existing interworking of MCData SDS information flows to support the use of a functional alias for originating party.

**Discussion:**

Kapsch CarrierCom presented the document available as S6-191308.

The group related messages should wait for the FA binding solution to be finalized.

First change is OK.

The only change is removing all other changes except the first one.

With the above changes the revised contribution, S6-191460, is considered pre-agreed.

**Decision:** The document was **revised to S6-191460**.

**S6-191460 Add enhancements for interworking of MCData SDS with GSM-R SMS**

 *Type: CR For: Agreement
 23.283 v16.3.0 CR-0050 rev 1 Cat: B (Rel-17)

 Source: Kapsch CarrierCom*

(Replaces S6-191308)

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

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

**S6-191394 MCIOPS work plan**

 *Type: discussion For: Information
 Source: Ericsson*

**Abstract:**

MCIOPS work plan

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

**S6-191395 IOPS update to introduction section**

 *Type: CR For: Agreement
 23.280 v16.3.0 CR-0212 Cat: B (Rel-17)

 Source: Ericsson*

**Discussion:**

Ericsson presented the document available as S6-191395.

The only change is replacing ‘shall’ with ‘can’.

With the above change the revised contribution, S6-191433, is considered pre-agreed.

**Decision:** The document was **revised to S6-191433**.

**S6-191433 IOPS update to introduction section**

 *Type: CR For: Agreement
 23.280 v16.3.0 CR-0212 rev 1 Cat: B (Rel-17)

 Source: Ericsson*

(Replaces S6-191395)

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

**S6-191396 IOPS related definitions**

 *Type: CR For: Agreement
 23.280 v16.3.0 CR-0213 Cat: B (Rel-17)

 Source: Ericsson*

**Discussion:**

Ericsson presented the document available as S6-191396.

It was suggested to:

Remove “a single mission critical service or multiple”

Add new definition “IOPS mode of operation” defined in TS 23.401.

**Decision:** The document was **revised to S6-191434**.

**S6-191434 IOPS related definitions**

 *Type: CR For: Agreement
 23.280 v16.3.0 CR-0213 rev 1 Cat: B (Rel-17)

 Source: Ericsson*

(Replaces S6-191396)

**Discussion:**

Ericsson presented the document available as S6-191434.

MCC will correct the bold text of the definition.

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

**S6-191397 IOPS related abbreviations**

 *Type: CR For: Agreement
 23.280 v16.3.0 CR-0214 Cat: B (Rel-17)

 Source: Ericsson*

**Abstract:**

The contribution introduces the IOPS abbreviation.

**Discussion:**

Ericsson presented the document available as S6-191397.

The only change is to change ‘operation’ into ‘Operation’.

With the above change the revised contribution, S6-191435, is considered pre-agreed.

**Decision:** The document was **revised to S6-191435**.

**S6-191435 IOPS related abbreviations**

 *Type: CR For: Agreement
 23.280 v16.3.0 CR-0214 rev 1 Cat: B (Rel-17)

 Source: Ericsson*

(Replaces S6-191397)

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

**S6-191398 IOPS functional model description**

 *Type: CR For: Agreement
 23.280 v16.3.0 CR-0215 Cat: B (Rel-17)

 Source: Ericsson*

**Abstract:**

The contribution proposes IOPS functional model description for the case of a backhaul failure.

**Discussion:**

Ericsson presented the document available as S6-191398.

It was suggested replacing “IOPS operation” with “IOPS mode of operation”.

MC user database not in the TR solution??

 - it is a routing table, not a full MC user database

Relation of new entities to existing MC service server functions?

Is IOPS MC service client same as the ‘normal’ MC service client or a separate one?

Main issue: the solution should rely on already defined off-network functions, as proposed in the study phase, but the proposed functional model does not reflect that??

Off-line discussion.

Alternative proposal: IOPS mode of operation is not on-network, not off-network but something new. This however will create security issues (especially key management) that need to be solved.

**Decision:** The document was **revised to S6-191436**.

**S6-191436 IOPS functional model description**

 *Type: CR For: Agreement
 23.280 v16.3.0 CR-0215 rev 1 Cat: B (Rel-17)

 Source: Ericsson*

(Replaces S6-191398)

**Discussion:**

Ericsson presented the document available as S6-191436.

“IOPS signalling server/client” is equal to the ‘normal’ signalling server/client revise terms used in Figure 7.3.X-2

**Decision:** The document was **revised to S6-191501**.

**S6-191501 IOPS functional model description**

 *Type: CR For: Agreement
 23.280 v16.3.0 CR-0215 rev 2 Cat: B (Rel-17)

 Source: Ericsson*

(Replaces S6-191436)

**Discussion:**

Ericsson presented the document available as S6-191501.

There was discussion on whether or not to change the term "IOPS MC connectivity function" in the figure and/or description.

The only changes are:

- adding the following EN below the figure in clause 7.3.X.1 and

- replacing “MC service client” to “MC service client(s)” in the figure 7.3.x-1.

With the above changes the revised contribution, S6-191563, is considered pre-agreed.

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**Decision:** The document was **revised to S6-191563**.

**S6-191563 IOPS functional model description**

 *Type: CR For: Agreement
 23.280 v16.3.0 CR-0215 rev 3 Cat: B (Rel-17)

 Source: Ericsson*

(Replaces S6-191501)

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

**S6-191399 IOPS functional entities description**

 *Type: CR For: Agreement
 23.280 v16.3.0 CR-0216 Cat: B (Rel-17)

 Source: Ericsson*

**Abstract:**

The contribution proposes IOPS functional entities description for the case of a backhaul failure.

**Discussion:**

Ericsson presented the document available as S6-191399.

**Decision:** The document was **revised to S6-191437**.

**S6-191437 IOPS functional entities description**

 *Type: CR For: Agreement
 23.280 v16.3.0 CR-0216 rev 1 Cat: B (Rel-17)

 Source: Ericsson*

(Replaces S6-191399)

**Discussion:**

Ericsson presented the document available as S6-191437.

Remove last change.

Several updates needed to the first change.

A general clause needed.

**Decision:** The document was **revised to S6-191502**.

**S6-191502 IOPS functional entities description**

 *Type: CR For: Agreement
 23.280 v16.3.0 CR-0216 rev 2 Cat: B (Rel-17)

 Source: Ericsson*

(Replaces S6-191437)

**Discussion:**

Ericsson presented the document available as S6-191502.

Qualcomm raised a concern with the use of the term relaying in clause 7.4.2.X.3.

Ericsson agreed this should be removed.

Motorola Solutions suggested replacing "IOPS MC connectivity function" with "IOPS MC service connectivity function".

The only changes are:

 - Adding 2 ENs in clause 7.4.2.x.2

 i) Whether the nomenclature to use the term IOPS MC service connectivity function is FFS

 ii) The cardinality of IOP MC connectivity function to MC services is FFS

- Removing “and relaying” in clause 7.4.2.x.3

With the above changes the revised contribution, S6-191562, is considered pre-agreed.

**Decision:** The document was **revised to S6-191562**.

**S6-191562 IOPS functional entities description**

 *Type: CR For: Agreement
 23.280 v16.3.0 CR-0216 rev 3 Cat: B (Rel-17)

 Source: Ericsson*

(Replaces S6-191502)

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

**S6-191400 IOPS reference points**

 *Type: CR For: Agreement
 23.280 v16.3.0 CR-0217 Cat: B (Rel-17)

 Source: Ericsson*

**Abstract:**

The contribution proposes (IOPS) reference points for the case of a backhaul failure are defined.

**Discussion:**

Ericsson presented the document available as S6-191400.

**Decision:** The document was **revised to S6-191438**.

**S6-191438 IOPS reference points**

 *Type: CR For: Agreement
 23.280 v16.3.0 CR-0217 rev 1 Cat: B (Rel-17)

 Source: Ericsson*

(Replaces S6-191400)

**Discussion:**

Ericsson presented the document available as S6-191438.

Editor’s note needed for both new clauses that further details are FFS.

Some text shall be removed, offline discussion needed.

**Decision:** The document was **revised to S6-191503**.

**S6-191503 IOPS reference points**

 *Type: CR For: Agreement
 23.280 v16.3.0 CR-0217 rev 2 Cat: B (Rel-17)

 Source: Ericsson*

(Replaces S6-191438)

**Discussion:**

Ericsson presented the document available as S6-191503.

The only change is to rephrase (clause 7.5.2.X) "IOPS related application signalling such registration, publication, subscription and notification events." to read "IOPS related application signalling e.g. registration, publication, subscription and notification events."

With the above change the revised contribution, S6-191564, is considered pre-agreed.

**Decision:** The document was **revised to S6-191564**.

**S6-191564 IOPS reference points**

 *Type: CR For: Agreement
 23.280 v16.3.0 CR-0217 rev 3 Cat: B (Rel-17)

 Source: Ericsson*

(Replaces S6-191503)

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

**S6-191401 IOPS architectural model**

 *Type: CR For: Agreement
 23.280 v16.3.0 CR-0218 Cat: B (Rel-17)

 Source: Ericsson*

**Abstract:**

The contribution of proposes a description for the IOPS architectural model for the IOPS mode of operation.

**Discussion:**

Ericsson presented the document available as S6-191401.

Is this needed at all?

Is it an architecture model or a deployment model?

**Decision:** The document was **revised to S6-191439**.

**S6-191439 IOPS architectural model**

 *Type: CR For: Agreement
 23.280 v16.3.0 CR-0218 rev 1 Cat: B (Rel-17)

 Source: Ericsson*

(Replaces S6-191401)

**Discussion:**

Ericsson presented the document available as S6-191439.

(IOPS) PLMN IOPS PLMN + reference

Offline discussion needed.

**Decision:** The document was **revised to S6-191504**.

**S6-191504 IOPS architectural model**

 *Type: CR For: Agreement
 23.280 v16.3.0 CR-0218 rev 2 Cat: B (Rel-17)

 Source: Ericsson*

(Replaces S6-191439)

**Discussion:**

Ericsson presented the document available as S6-191504.

The only changes are:

 - converting (in figure 9.X.1.2-1) the dashed green line solid and

 - replacing "relayed" with "distributed" in clause 9.X.1.1.

With the above changes the revised contribution, S6-191565, is considered pre-agreed.

**Decision:** The document was **revised to S6-191565**.

**S6-191565 IOPS architectural model**

 *Type: CR For: Agreement
 23.280 v16.3.0 CR-0218 rev 3 Cat: B (Rel-17)

 Source: Ericsson*

(Replaces S6-191504)

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

### 10.3 TEI17 – Technical Enhancements and Improvements

## 11 Study Items

**S6-191317 Necessity of establishment of Railway Smart Station Standards**

 *Type: discussion For: Discussion
 Source: LG Uplus*

**Abstract:**

We propose a discussion on the need for railway IoT standards through the case of the Korea Urban Railway "Smart Station".

**Discussion:**

LG Uplus presented the document available as S6-191317.

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

**S6-191349 Introduction of Study on Railway Smart Station Services over Mission Critical System**

 *Type: discussion For: Discussion
 Source: Hansung University, LG Uplus*

**Abstract:**

Introduction to proposed Study on Railway Smart Station Services over Mission Critical System (FS\_RASMCX).

**Discussion:**

Hansung University presented the document available as S6-191349.

UIC made a remark that it was not clear what exactly was proposed.

Huawei was of the view that some of the proposed topics looked more like SA1 work.

Hansung University noted that work in SA1 as well as SA6 would be envisaged.

Motorola Solutions indicated they were supportive of new work into SA6 but pointed out that we normally prefer to work on TSs.

Qualcomm made the remark that the objectives listed on page 5, very much looked like SA1 work.

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

**S6-191348 Study on Railway Smart Station Services over Mission Critical System**

 *Type: SID new For: Approval
 Source: Hansung University, LG Uplus*

**Abstract:**

The railway station is not only an important part of railway operations but also a major touchpoint to customers including passengers. The railway community is considering the railway smart station services for the railway operations and customers.

**Discussion:**

Hansung University presented the document available as S6-191348.

Motorola Solutions reminded about the risks involved basing work on an informative document (i.e. TR 22.889).

**Decision:** The document was **revised to S6-191523**.

**S6-191523 Study on Railway Smart Station Services over Mission Critical System**

 *Type: SID new For: Approval
 Source: Hansung University, LG Uplus*

(Replaces S6-191348)

**Discussion:**

Hansung University presented the document available as S6-191523.

Motorola Solutions noted they need to look into which of the requirements of the referenced documents (TS 22.289, TS 22.179, TS 22.280, TS 22.281, TS 22.282) are relevant to the study. Some of this information could then be included in the justification.

Nokia suggested to further clarify the relation between smart stations and public safety.

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

**S6-191318 Consideration of Digital Unit redundancy in LTE based railway systems**

 *Type: discussion For: (not specified)
 Source: LG Uplus*

**Abstract:**

The railway integrated wireless network should provide reliable and reliable train control services that transmit control signals between railway train operators, crews, controllers and maintenance workers, and control signals between trains and devices for safe operation of trains. In order to minimize train operation accidents due to communication disruption, service equipment can be duplicated and operated. In this article, the technique of duplication operation of base station equipment installed at the site or station is introduced.

**Discussion:**

LG Uplus presented the document available as S6-191318.

UIC was of the view this was more of a deployment issue.

Huawei agreed with the view of UIC.

It was also noted that this may not be in the scope of SA6.

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

**S6-191296 New SID: Study on enhanced Mission Critical services over 5G multicast-broadcast system**

 *Type: SID new For: Approval
 Source: AT&T*

**Abstract:**

Associated discussion paper in S6-191295; proposed initial skeleton for TR in S6-191297

**Discussion:**

AT&T presented the document available as S6-191296.

Ericsson was of the view that this work could also be handled under the existing 5GS study.

one2many indicated their support for performing the present work either under a dedicated or existing SID.

Qualcomm supported the view of Ericsson.

FirstNet pointed out that the urgency of the work would require a dedicated SID.

Motorola Solutions did not think that the existing is appropriate for the (in S6-191296) proposed work and hence supported a dedicated study.

Huawei agreed with the view of Motorola Solutions.

**Decision:** The document was **revised to S6-191524**.

**S6-191524 New SID: Study on enhanced Mission Critical services over 5G multicast-broadcast system**

 *Type: SID new For: Approval
 Source: AT&T*

(Replaces S6-191296)

**Discussion:**

AT&T presented the document available as S6-191524.

It was suggested replacing "..reported congestion, data loss.." with "..reported congestion e.g. data loss..".

Ericsson was concerned about the early finalisation date.

Motorola Solutions indicated it was maybe note necessary to include the WID/Unique ID 830030 under clause 2.3.

It was suggested to move the completion date to March 2020.

**Decision:** The document was **revised to S6-191610**.

**S6-191610 New SID: Study on enhanced Mission Critical services over 5G multicast-broadcast system**

 *Type: SID new For: Approval
 Source: AT&T*

(Replaces S6-191524)

**Discussion:**

AT&T presented the document available as S6-191610.

Following changes were proposed

 - check the no tick box for AN

 - adding The Police of Netherlands, Sepura as supported

 - Replacing in clause 4 the following sentences/part of sentences:

 i) "The study may point out to key issues, present use cases, evaluate potential solutions, propose enhancements and optimizations and identify requirements applicable to the work in SA6 and/or in other groups."

with "The study may point out key issues, identify use cases, evaluate potential solutions, propose enhancements and optimizations and identify requirements applicable to the work in SA6 and/or in other groups." in clause 4.

 ii) "..with the goal of informing MC requirements and prioritization information to RAN and/or SA to enable defining and/or enhancing the services and interfaces provided by 5G for Mission Critical services. with "..with the goal of identifying and prioritising MC requirements to RAN and/or SA in order to enable defining and enhancing the services and interfaces provided by 5G for Mission Critical services."

 - rephrasing the acronym to read FC\_MC5MBS

 - state that the relation to 830030 was not a dependency.

 - remove "enhanced" from the titles (two occurrences)

**Decision:** The document was **revised to S6-191619**.

**S6-191619 New SID: Study on Mission Critical services over 5G multicast-broadcast**

 *Type: SID new For: Approval
 Source: AT&T*

(Replaces S6-191610)

**Discussion:**

AT&T presented the document available as S6-191619.

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

**S6-191297 Proposed TR skeleton for Rel-17 Study on enhanced Mission Critical services over 5G multicast-broadcast system**

 *Type: discussion For: Approval
 Source: AT&T*

**Abstract:**

Initial (vanilla) TR skeleton for TR documenting results of proposed new Rel-17 SID on enhanced Mission Critical services over MBMS/5G. Related to new SID proposal in S6-191296 and discussion paper in S6-191295.

**Discussion:**

AT&T presented the document available as S6-191297.

It was suggested to remove the word "enhanced" from the title.

**Decision:** The document was **revised to S6-191620**.

**S6-191620 Proposed TR skeleton for Rel-17 Study on Mission Critical services over 5G multicast-broadcast system**

 *Type: discussion For: Approval
 Source: AT&T*

(Replaces S6-191297)

**Discussion:**

AT&T presented the document available as S6-191620.

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

### 11.1 FS\_MCOver5GS – Study on Mission Critical Services support over 5G System

**S6-191350 Pseudo-CR on key issues Non-3GPP access to 5GS**

 *Type: pCR For: Approval
 23.783 v0.6.0
 Source: BDBOS*

**Abstract:**

The general requirement of a "… dispatcher and administrator …" interface taken from - TS 22.179 clause 4.1 Mission Critical Push To Talk overview – General - needs comprehensive descriptions within the Mission critical architecture for 4G and 5G.

**Discussion:**

BDBOS presented the document available as S6-191350.

The Police of Netherlands suggested rewording the title especially the "..residing on 5GS".

FirstNet did not quite understand the reference to wire base connection.

There was also a comment not restricting the key issue to dispatchers only.

**Decision:** The document was **revised to S6-191423**.

**S6-191423 Pseudo-CR on key issues Non-3GPP access to 5GS**

 *Type: pCR For: Approval
 23.783 v0.6.0
 Source: BDBOS*

(Replaces S6-191350)

**Discussion:**

BDBOS presented the document available as S6-191423.

Qualcomm did not think the key issue was in the scope of SA6.

Motorola Solutions still thought the key issue was unclear and whether the legacy systems were referred.

The Police of Netherlands thought the key issue was clear.

Motorola Solutions suggested at least to remove the LMR network and Gateway from the figure as it was confusing and maybe also the console part should be removed.

**Decision:** The document was **revised to S6-191545**.

**S6-191545 Pseudo-CR on key issues Non-3GPP access to 5GS**

 *Type: pCR For: Approval
 23.783 v0.6.0
 Source: BDBOS*

(Replaces S6-191423)

**Discussion:**

BDBOS presented the document available as S6-191545.

The only changes are:

 - deleting the proposed gap and

 - adding an editor's note stating "The exact gaps need to be further analysed".

With the above changes the revised contribution, S6-191609, is considered pre-approved.

**Decision:** The document was **revised to S6-191609**.

**S6-191609 Pseudo-CR on key issues Non-3GPP access to 5GS**

 *Type: pCR For: Approval
 23.783 v0.6.0
 Source: BDBOS*

(Replaces S6-191545)

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

### 11.2 FS\_enhMCLoc – Study on location enhancements for mission critical services

**S6-191345 Discussion on Location Information sharing across MC systems**

 *Type: discussion For: (not specified)
 23.744 v..
 Source: BDBOS*

**Abstract:**

Currently Location Information cannot be shared across MC Systems. This contribution presents 4 independent possible solutions including an evaluation of the impact on the existing functional model.

**Discussion:**

BDBOS presented the document available as S6-191345.

No consensus from the group, both solutions 1 and 2 got support.

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

**S6-191346 Pseudo-CR on solution on functional model to support location information sharing across MC systems**

 *Type: pCR For: Approval
 23.744 v1.0.0
 Source: BDBOS*

**Abstract:**

This pCR adds a solution to 3GPP TR 23.744 and refers to key issue 5: Sharing of location information.

**Discussion:**

BDBOS presented the document available as S6-191346.

6.X.1 – NOTE can be removed.

Preconditions not needed here.

CSC-X is using HTTP?? Add ‘FFS’ if not clear.

**Decision:** The document was **revised to S6-191461**.

**S6-191461 Pseudo-CR on solution on functional model to support location information sharing across MC systems**

 *Type: pCR For: Approval
 23.744 v1.0.0
 Source: BDBOS*

(Replaces S6-191346)

**Discussion:**

BDBOS presented the document available as S6-191461.

Ericsson suggested changing the note in 6.X.2.1 and editor's note.

Motorola Solutions raised a concern with the note in clause 6.X.2.2.

Nokia pointed out one should not be too strict as this was only a study.

**Decision:** The document was **revised to S6-191546**.

**S6-191546 Pseudo-CR on solution on functional model to support location information sharing across MC systems**

 *Type: pCR For: Approval
 23.744 v1.0.0
 Source: BDBOS*

(Replaces S6-191461)

**Discussion:**

BDBOS presented the document available as S6-191546.

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

### 11.3 FS\_FFAPP – Study on application layer support for Factories of the Future in 5G network

**S6-191326 Abbreviations**

 *Type: pCR For: Approval
 23.745 v0.3.0
 Source: ZTE Corporation*

**Discussion:**

ZTE presented the document available as S6-191326.

It was suggested to only list abbreviations that are used in the document.

**Decision:** The document was **revised to S6-191497**.

**S6-191497 Abbreviations**

 *Type: pCR For: Approval
 23.745 v0.3.0
 Source: ZTE Corporation*

(Replaces S6-191326)

**Discussion:**

ZTE presented the document available as S6-191497.

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

**S6-191328 remove 5GACIA reference**

 *Type: pCR For: Approval
 23.745 v0.3.0
 Source: ZTE Corporation*

**Discussion:**

ZTE presented the document available as S6-191328.

Qualcomm suggested deleting the sentence "5G network slicing concept was accepted as a key solution for industry 4.0 wireless connection design." in clause 5.2.

The only change is deleting the sentence "5G network slicing concept was accepted as a key solution for industry 4.0 wireless connection design." from clause 5.2.

With the above change the revised contribution, S6-191498, is considered pre-approved.

**Decision:** The document was **revised to S6-191498**.

**S6-191498 remove 5GACIA reference**

 *Type: pCR For: Approval
 23.745 v0.3.0
 Source: ZTE Corporation*

(Replaces S6-191328)

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

**S6-191330 architectural requirements**

 *Type: pCR For: Approval
 23.745 v0.3.0
 Source: ZTE Corporation*

**Abstract:**

The contribution proposes general requirements for Factories of the Future application layer functional architecture.

**Discussion:**

ZTE presented the document available as S6-191330.

T-Mobile suggested to replace "The FAE capabilities may be offered.." with "The FAE capabilities should be offered..".

It was also suggested not to call out entities by names.

Qualcomm requested to clarify what was meant with "offering FAE capabilities as an API".

**Decision:** The document was **revised to S6-191509**.

**S6-191509 architectural requirements**

 *Type: pCR For: Approval
 23.745 v0.3.0
 Source: ZTE Corporation*

(Replaces S6-191330)

**Discussion:**

ZTE presented the document available as S6-191509.

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

**S6-191333 FF application layer functional model**

 *Type: pCR For: Approval
 23.745 v0.3.0
 Source: ZTE Corporation*

**Abstract:**

The study identifies the application architecture aspects to support Factories of the Future in 5G network.

**Discussion:**

ZTE presented the document available as S6-191333.

It was suggested to reword the text in clause 7.1.1.1.

Vodafone made the remark that they thought it was premature to set the architecture (prior to SA2 finishing their work).

ZTE was of the view they wanted to start off even if only with the simplified version of the architecture that can be further developed later on.

Huawei noted it was not important to rush into defining the architecture but instead concentrate on the requirements.

AT&T also suggested to produce a discussion paper to present a reasoning for the choice of architecture.

**Decision:** The document was **revised to S6-191510**.

**S6-191510 FF application layer functional model**

 *Type: pCR For: Approval
 23.745 v0.3.0
 Source: ZTE Corporation*

(Replaces S6-191333)

**Discussion:**

ZTE presented the document available as S6-191510.

T-Mobile pointed out that it was suggested to limit the architecture to a simplified one only.

**Decision:** The document was **revised to S6-191551**.

**S6-191551 FF application layer functional model**

 *Type: pCR For: Approval
 23.745 v0.3.0
 Source: ZTE Corporation*

(Replaces S6-191510)

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

**S6-191334 FF application layer functional entities**

 *Type: pCR For: Approval
 23.745 v0.3.0
 Source: ZTE Corporation*

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

**S6-191335 functional model reference points**

 *Type: pCR For: Approval
 23.745 v0.3.0
 Source: ZTE Corporation*

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

**S6-191336 23745-FS\_FFAPP-functional model external reference points**

 *Type: pCR For: Approval
 23.745 v0.3.0
 Source: ZTE Corporation*

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

**S6-191390 Pseudo-CR on Key issue on IP connectivity and QoS control**

 *Type: pCR For: Approval
 23.745 v0.3.0
 Source: Huawei, Hisilicon*

**Abstract:**

This pCR introduce a key issue on IP connectivity and QoS control.

**Discussion:**

Huawei presented the document available as S6-191390.

Vodafone noted that there is some confusion with regard to the use of PLC. As the factories often would be using fieldbus, hence it would not be using IP connectivity.

Huawei noted they were not proposing to changing the existing protocol but utilising IP for transport.

It was concluded some offline discussion was needed.

**Decision:** The document was **revised to S6-191511**.

**S6-191511 Pseudo-CR on Key issue on IP connectivity and QoS control**

 *Type: pCR For: Approval
 23.745 v0.3.0
 Source: Huawei, Hisilicon*

(Replaces S6-191390)

**Discussion:**

Huawei presented the document available as S6-191511.

Qualcomm and Vodafone raised serious doubt on the need of the presented key issue and whether it was within the scope of SA6.

Ericsson pointed out that SA6 is not working on 3GPP systems (but SA2) as suggested by the second open issue "How to enable the 3GPP system to..".

**Decision:** The document was **revised to S6-191587**.

**S6-191587 Pseudo-CR on Key issue on IP connectivity and QoS control**

 *Type: pCR For: Approval
 23.745 v0.3.0
 Source: Huawei, Hisilicon*

(Replaces S6-191511)

**Discussion:**

Huawei presented the document available as S6-191587.

Ericsson was of the view that the figure could still clarified and they did not agree with open issues as proposed.

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

**S6-191391 Solution to IP connectivity and QoS control**

 *Type: pCR For: Approval
 23.745 v0.3.0
 Source: Huawei, Hisilicon*

**Abstract:**

This pCR introduce a solution to key issue #X IP connectivity and QoS control.

**Discussion:**

Huawei presented the document available as S6-191391.

Qualcomm made the remark that they did not see what the key issue addressed that was note already being covered by SA2.

Nokia was of the view that the present topic most likely belonged to the SA2 territory.

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

### 11.4 FS\_UASAPP – Study on application layer support for Unmanned Aerial System (UAS)

**S6-191301 Introduction of UAS Terminology**

 *Type: pCR For: (not specified)
 23.755 v0.2.0
 Source: QUALCOMM Europe Inc. - Italy*

**Abstract:**

The contribution proposes some UAS (Unmanned Aircraft Systems) Terminology.

**Discussion:**

Qualcomm presented the document available as S6-191301.

Some inconsistencies were pointed out.

It was also suggested to check whether some source material is publicly available and hence could be referenced.

**Decision:** The document was **revised to S6-191505**.

**S6-191505 Introduction of UAS Terminology**

 *Type: pCR For: -
 23.755 v0.2.0
 Source: QUALCOMM Europe Inc. - Italy*

(Replaces S6-191301)

**Discussion:**

Qualcomm presented the document available as S6-191505.

It was suggested:

 - adding and editor's note in relation to the term remote identification and

 - apply correct format and style for the definitions.

**Decision:** The document was **revised to S6-191566**.

**S6-191566 Introduction of UAS Terminology**

 *Type: pCR For: -
 23.755 v0.2.0
 Source: QUALCOMM Europe Inc. - Italy*

(Replaces S6-191505)

**Discussion:**

Qualcomm presented the document available as S6-191566.

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

**S6-191375 Key issue on usage of SEAL**

 *Type: pCR For: Approval
 23.755 v0.2.0
 Source: Huawei, Hisilicon*

**Abstract:**

Proposal for Key issue on usage of SEAL.

**Discussion:**

Huawei presented the document available as S6-191375.

A proposal for rewording was made.

**Decision:** The document was **revised to S6-191507**.

**S6-191507 Key issue on usage of SEAL**

 *Type: pCR For: Approval
 23.755 v0.2.0
 Source: Huawei, Hisilicon*

(Replaces S6-191375)

**Discussion:**

Huawei presented the document available as S6-191507.

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

**S6-191302 Introduction of a relevant aviation industry UAS Model**

 *Type: pCR For: Approval
 23.755 v0.2.0
 Source: QUALCOMM Europe Inc. - Italy*

**Discussion:**

Qualcomm presented the document available as S6-191302.

Huawei suggested adding a definition for UTM and USS.

**Decision:** The document was **revised to S6-191521**.

**S6-191521 Introduction of a relevant aviation industry UAS Model**

 *Type: pCR For: Approval
 23.755 v0.2.0
 Source: QUALCOMM Europe Inc. - Italy*

(Replaces S6-191302)

**Discussion:**

Qualcomm presented the document available as S6-191521.

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

**S6-191303 Application Architecture for Enabling UAS Ecosystem**

 *Type: pCR For: (not specified)
 23.755 v0.2.0
 Source: QUALCOMM Europe Inc. - Italy*

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

### 11.5 FS\_EDGEAPP – Study on Application Architecture for enabling Edge Applications

**S6-191360 Editorial corrections**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Samsung Electronics*

**Abstract:**

This document introduces several editorial corrections to TR 23.758 v0.2.0. The editorial changes are suggested for better readability of the study report.

**Discussion:**

Samsung presented the document available as S6-191360.

**Decision:** The document was **revised to S6-191476**.

**S6-191476 Editorial corrections**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Samsung Electronics, Intel*

(Replaces S6-191360)

**Abstract:**

This document introduces several editorial corrections to TR 23.758 v0.2.0

**Discussion:**

Samsung presented the document available as S6-191476.

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

**S6-191383 Terminology refinements**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Intel Finland Oy*

**Abstract:**

The contribution proposes corrections to following terms:

 - ‘Application Client’ to ‘Client Application’,

 - ‘Application Server’ to ‘Server Application’ and

 - ‘Edge Application’ to ‘Edge Server Application’.

The SW community uses the term ‘client-server applications’ to refer to software that is designed to have a client part in a local device and a server part in a central compute environment (like the Cloud, or some central server farm).

To be consistent with this term, ‘Client Application’ is more appropriate than ‘Application Client’ and same for ‘Server Application’.

The original ‘Edge Application’ lacks the word ‘Server’ to clarify that SW component in the Edge is a ‘Server’ rather than a ‘Client’, hence the modification to ‘Edge Server Application’ is proposed.

**Discussion:**

Samsung presented the document available as S6-191383.

After some discussion there was agreement to replace Edge Application with Edge Application Server.

It was decided to merge the agreed changes into S6-191476.

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

**S6-191389 Pseudo-CR on Corrections on Edge Data Network and Edge Enabler Server usage in the key issues**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Huawei, Hisilicon*

**Abstract:**

This pCR is proposed to correct the usage of Edge Data Network and Edge Enabler Server in the key issues and open issues.

**Discussion:**

Huawei presented the document available as S6-191389.

Qualcomm made a remark that the discovery and connecting are two distinctly separate issues.

Intel pointed out that instead of referring to the UE being able to connect (in key issue 1) one should refer to the client.

It was also pointed out that the edge enabler server is different from the edge data network.

It was noted that some offline discussion was needed for the revision of the contribution.

**Decision:** The document was **revised to S6-191477**.

**S6-191477 Pseudo-CR on Corrections on Edge Data Network and Edge Enabler Server usage in the key issues**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Huawei, Hisilicon*

(Replaces S6-191389)

**Discussion:**

Huawei presented the document available as S6-191477.

Qualcomm was of the view that the change was not related to the actual key issue.

**Decision:** The document was **revised to S6-191547**.

**S6-191547 Pseudo-CR on Corrections on Edge Data Network and Edge Enabler Server usage in the key issues**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Huawei, Hisilicon*

(Replaces S6-191477)

**Discussion:**

Huawei presented the document available as S6-191547.

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

**S6-191300 Clarifications of 3GPP Edge Architecture “Toolbox”**

 *Type: pCR For: (not specified)
 23.758 v0.2.0
 Source: Qualcomm Incorporated*

**Abstract:**

A few details have been added to Annex A.1 to better capture the relevant tools provided by the 3GPP 5GS for support of edge computing.

A correction to section A.1.2 is proposed: TS 23.501 does NOT define “local DN” in any way, and in particular does not define “local DN” as “to represent one of the access points of a DN where the user traffic is routed to”, thus the existing text in TR 23.758 is incorrect and misleading. However, it is worth to clarify the use of the term “local data network” in the framework of SA6 discussion, and therefore the definition is added to TR 23.758.

**Discussion:**

Qualcomm presented the document available as S6-191300.

Vodafone raised the question whether the definition of Local Data Network was really needed as it was used only in the Annex, where it could be reworded to avoid the term all together.

Qualcomm was not in favour of taking out the term Local Data Network.

The contributor will be discussing offline with Samsung about the comments.

**Decision:** The document was **revised to S6-191478**.

**S6-191478 Clarifications of 3GPP Edge Architecture “Toolbox”**

 *Type: pCR For: -
 23.758 v0.2.0
 Source: Qualcomm Incorporated*

(Replaces S6-191300)

**Discussion:**

Qualcomm presented the document available as S6-191478.

It was suggested to modify the Edge Data Network definition to read "Local Data Network(s) that supports distributed deployment of Edge Hosting Environments".

Also some other changes were suggested. These will be discussed offline.

**Decision:** The document was **revised to S6-191577**.

**S6-191577 Clarifications of 3GPP Edge Architecture “Toolbox”**

 *Type: pCR For: -
 23.758 v0.2.0
 Source: Qualcomm Incorporated*

(Replaces S6-191478)

**Discussion:**

Qualcomm presented the document available as S6-191577.

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

**S6-191361 Pseudo-CR on Architectural requirements on Service provisioning and EDN configuration**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Samsung Electronics*

**Abstract:**

This document proposes introducing architectural requirements for service provisioning and Edge Data Network configurations for the UE.

**Discussion:**

Samsung presented the document available as S6-191361.

Qualcomm suggested rewordings of the requirements to make them clearer.

Huawei was of the view that the requirements could be made more generic and concentrate on what is mandatory for the UE.

Ericsson pointed out that the term "authorized UE" was not clear as it had not been defined.

AT&T suggested making the requirement more general and that the UE can ask for EDGE data network configuration.

**Decision:** The document was **revised to S6-191479**.

**S6-191479 Pseudo-CR on Architectural requirements on Service provisioning and EDN configuration**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Samsung Electronics*

(Replaces S6-191361)

**Discussion:**

Samsung presented the document available as S6-191479.

Intel suggested making the Edge Enabler Server in plural i.e. Edge Enabler Server(s).

AT&T thought the title of the key issue "Provisioning of Edge Data Network configuration" was misleading.

Huawei suggested deleting the "Edge Enabler Server".

The only changes are:

 - deleting "Edge Enabler Server in an",

 - replacing "Edge Data Network" with "Edge Data Network(s)" and

 - changing the clause 5.2 title to read "Edge Data Network configuration data"

With the above changes the revised contribution, S6-191595, is considered pre-approved.

**Decision:** The document was **revised to S6-191595**.

**S6-191595 Pseudo-CR on Architectural requirements on Service provisioning and EDN configuration**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Samsung Electronics*

(Replaces S6-191479)

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

**S6-191362 Pseudo-CR Edge Enabler Server discovery and registration**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Samsung Electronics*

**Abstract:**

This document introduces architectural requirements for Enabler Server discovery and registration.

**Discussion:**

Samsung presented the document available as S6-191362.

Vodafone suggested replacing "Edge Enabler Server discovery" with "Edge Enabler Service discovery".

Qualcomm did not agree with the requirement "[AR-5.x.2-c] A UE shall register on the Edge Enabler Server.." at least until the underlying reasoning is provided.

**Decision:** The document was **revised to S6-191480**.

**S6-191480 Pseudo-CR Edge Enabler Server discovery and registration**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Samsung Electronics*

(Replaces S6-191362)

**Discussion:**

Samsung presented the document available as S6-191480.

The only change is replacing "..Edge Enabler Servers." with "..Edge Application Servers." in requirement [AR-5.x.2-b].

With the above changes the revised contribution, S6-191613, is considered pre-approved.

**Decision:** The document was **revised to S6-191613**.

**S6-191613 Pseudo-CR Edge Enabler Server discovery and registration**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Samsung Electronics*

(Replaces S6-191480)

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

**S6-191363 Architectural requirements on Edge Application Enablement**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Samsung Electronics*

**Abstract:**

This document introduces architectural requirements for Edge Application enablement.

**Discussion:**

Samsung presented the document available as S6-191363.

Vodafone suggested using the term EDGE enabler services instead of servers.

Qualcomm pointed out that they had sympathy for some of the requirements however others seemed more as statements of behaviour than requirements.

Intel indicated general support of the requirements but accepted they could be rephrased.

**Decision:** The document was **revised to S6-191481**.

**S6-191481 Architectural requirements on Edge Application Enablement**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Samsung Electronics*

(Replaces S6-191363)

**Discussion:**

Samsung presented the document available as S6-191481.

The only changes are:

 - replacing in "..maintain the availability.." with "..maintain its the availability.." in requirement [AR-5.x.2-b],

 - deleting " to an Edge Enabler Server" from requirement [AR-5.x.2-b] and

 - adding the clarification at the end of the requirement as follows "(e.g. change in the availability of edge computing service)".

With the above changes the revised contribution, S6-191596, is considered pre-approved.

**Decision:** The document was **revised to c**.

**S6-191596 Architectural requirements on Edge Application Enablement**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Samsung Electronics*

(Replaces S6-191481)

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

**S6-191364 Pseudo-CR Edge Application discovery**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Samsung Electronics*

**Abstract:**

This document introduces architectural requirements for Edge Application Discovery.

**Discussion:**

Samsung presented the document available as S6-191364.

Qualcomm made a remark that the actual intention (i.e. the discovery) of the requirements should be further clarified.

Interested parties were invited to provide further comments to the contributor.

**Decision:** The document was **revised to S6-191482**.

**S6-191482 Pseudo-CR Edge Application discovery**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Samsung Electronics*

(Replaces S6-191364)

**Discussion:**

Samsung presented the document available as S6-191482.

Huawei suggested removing the second requirement i.e. [AR-5.x.2-b] as it seemed as a solution to the first [AR-5.x.2-a].

The only change is removing the second requirement [AR-5.x.2-b] (and renumber requirements accordingly).

With the above change the revised contribution, S6-191597, is considered pre-approved.

**Decision:** The document was **revised to S6-191597**.

**S6-191597 Pseudo-CR Edge Application discovery**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Samsung Electronics*

(Replaces S6-191482)

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

**S6-191365 Pseudo-CR Capability exposure to Edge Applications**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Samsung Electronics*

**Abstract:**

This document introduces architectural requirements for Capability exposure to Edge Applications.

**Discussion:**

Samsung presented the document available as S6-191365.

Qualcomm made a remark that the requirement seem to say that the Edge Enabler shall be CAPIF "compliant".

**Decision:** The document was **revised to S6-191483**.

**S6-191483 Pseudo-CR Capability exposure to Edge Applications**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Samsung Electronics*

(Replaces S6-191365)

**Discussion:**

Samsung presented the document available as S6-191483.

The only change is rephrasing the requirement to read "The edge enabling application architecture shall support exposure of 3GPP network's capabilities to the Edge Application Servers."

With the above change the revised contribution, S6-191598, is considered pre-approved.

**Decision:** The document was **revised to S6-191598**.

**S6-191598 Pseudo-CR Capability exposure to Edge Applications**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Samsung Electronics*

(Replaces S6-191483)

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

**S6-191366 Pseudo-CR Security**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Samsung Electronics*

**Abstract:**

This document introduces architectural requirements for Security.

**Discussion:**

Samsung presented the document available as S6-191366.

Vodafone raised the question whether SA6 should send an LS to SA3 to make them aware of the present SA6 activity.

Intel suggested rephrasing the last requirement by using the a term along the lines of edge configuration services.

Qualcomm suggested simplification of the requirements by stating that the edge enabler services shall be protected.

It was noted that an LS to SA3 would be considered at a later stage in the process (not during the study phase).

**Decision:** The document was **revised to S6-191484**.

**S6-191484 Pseudo-CR Security**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Samsung Electronics*

(Replaces S6-191366)

**Discussion:**

Samsung presented the document available as S6-191484.

The only changes are replacing the two occurrences of "Edge Computing service" with "Edge Computing services" in the requirements [AR-5.x.2-a] and [AR-5.x.2-b].

With the above changes the revised contribution, S6-191599, is considered pre-approved.

**Decision:** The document was **revised to S6-191599**.

**S6-191599 Pseudo-CR Security**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Samsung Electronics*

(Replaces S6-191484)

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

**S6-191337 Architecture correction related with EDGE-4**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Samsung*

**Abstract:**

Architecture enhancement and the solution 7.2 was agreed during SA6#31 meeting. It adds the description for EDGE-4 reference point.

**Discussion:**

Samsung presented the document available as S6-191337.

Qualcomm pointed out that the "..and the Edge Enabler Server.." in the first sentence (clause 6.4.5), should read "..and the Edge Enabler client..".

It was also requested to retain the editor's note.

**Decision:** The document was **revised to S6-191485**.

**S6-191485 Architecture correction related with EDGE-4**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Samsung*

(Replaces S6-191337)

**Discussion:**

Samsung presented the document available as S6-191485.

The only changes are to:

 - remove the "First change" as there are no changes.

With the above changes the revised contribution, S6-191548, is considered pre-approved.

**Decision:** The document was **revised to S6-191548**.

**S6-191548 Architecture correction related with EDGE-4**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Samsung*

(Replaces S6-191485)

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

**S6-191355 Architecture Update**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Samsung*

**Abstract:**

Architecture description

**Discussion:**

Samsung presented the document available as S6-191355.

Intel suggested improving the overall structure of the clause. It seemed there was a problem with notes referring to entities that were not shown in the figure e.g. Edge Hosting Environment. Also the claimed one-to-one relationship between the Edge Enabler Server and the Edge Hosting Environment was not clear.

Vodafone requested further clarification on that the Edge Computing Service Provider (operating the Edge Hosting Environment) can be different from the MNO.

Qualcomm suggested clarifying the deployment scenarios for the various statements.

**Decision:** The document was **revised to S6-191486**.

**S6-191486 Architecture Update**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Samsung*

(Replaces S6-191355)

**Discussion:**

Samsung presented the document available as S6-191486.

Sony suggested modifying the note 4 to read "Examples of deployment scenarios for Edge Data Network are described in clause X."

Qualcomm suggested removing the statement stating "Edge Hosting Environment is out of the scope of this document." as well as the sentence "The Edge Data Network Configuration Server is resident in the DN for internet access." in clause 6.2.4.

**Decision:** The document was **revised to S6-191574**.

**S6-191574 Architecture Update**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Samsung*

(Replaces S6-191486)

**Discussion:**

Samsung presented the document available as S6-191574.

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

**S6-191339 Solution 2 update and evaluation**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Samsung*

**Abstract:**

Solution 2 update and evaluation

**Discussion:**

Samsung presented the document available as S6-191339.

Huawei was of the view that the EDN Service Area IE in table 7.2.1.1-2 should be optional.

Intel thought that the first sentence in 7.2.1 was incomplete.

AT&T did not think that the GPSI IE in table 7.2.1.1-1 should be mandatory.

**Decision:** The document was **revised to S6-191487**.

**S6-191487 Solution 2 update and evaluation**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Samsung*

(Replaces S6-191339)

**Discussion:**

Samsung presented the document available as S6-191487.

Qualcomm suggested improving the readability of the deployment options.

It was also suggested adding pre-condition in relation to 1st procedure.

Also there is no need to number the note in the table as there is only one note.

**Decision:** The document was **revised to S6-191575**.

**S6-191575 Solution 2 update and evaluation**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Samsung*

(Replaces S6-191487)

**Discussion:**

Samsung presented the document available as S6-191575.

Ericsson pointed out that there was no need to number the one note in table 7.2.1.1-2.

Qualcomm requested adding an EN, at the end of clause 7.2.1.2, stating "Whether all deployment scenarios must be included in this step is FFS."

The only changes are:

 - replacing "NOTE 1" with "NOTE" in table 7.2.1.1-2.

 - adding an EN, at the end of clause 7.2.1.2, stating "Whether all deployment scenarios must be included in this step is FFS.

With the above changes the revised contribution, S6-191614, is considered pre-approved.

**Decision:** The document was **revised to S6-191614**.

**S6-191614 Solution 2 update and evaluation**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Samsung*

(Replaces S6-191575)

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

**S6-191352 Pseudo-CR on Solution#5 Update**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Samsung R&D Institute UK*

**Abstract:**

Update Solution #5

**Discussion:**

Revised due to file being corrupt.

**Decision:** The document was **revised to S6-191403**.

**S6-191403 Pseudo-CR on Solution#5 Update**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Samsung R&D Institute UK*

(Replaces S6-191352)

**Abstract:**

Solution 5 needs to be clarified further to address the operation, also there are several Editor’s Notes. This paper proposes to clarify and resolve the Editor’s Note.

**Discussion:**

Samsung presented the document available as S6-191339.

Qualcomm did support the idea of masking GPSI into another identifier, and suggested at least to discuss this with SA2.

Samsung noted that this was done due to privacy reasons.

Qualcomm noted that then it should be left for SA3 to define.

Verizon noted that there would seem to be some confusion with regard to the use of GPSI, that was specifically designed as a public identifier.

**Decision:** The document was **revised to S6-191488**.

**S6-191488 Pseudo-CR on Solution#5 Update**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Samsung R&D Institute UK*

(Replaces S6-191403)

**Discussion:**

Samsung presented the document available as S6-191488. They noted that Huawei had suggested deleting MSISDN from step 1 and adding an editor's note.

**Decision:** The document was **revised to S6-191576**.

**S6-191576 Pseudo-CR on Solution#5 Update**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Samsung R&D Institute UK*

(Replaces S6-191488)

**Discussion:**

Samsung presented the document available as S6-191576.

The only change is rephrasing the EN "The privacy concern on providing GPSI to the Edge Application should be consulted by SA3." to read

"The privacy concern on providing GPSI to the Edge Application is the responsibility of SA3."

With the above changes the revised contribution, S6-191600, is considered pre-approved.

**Decision:** The document was **revised to S6-191600**.

**S6-191600 Pseudo-CR on Solution#5 Update**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Samsung R&D Institute UK*

(Replaces S6-191576)

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

**S6-191353 Solution 3 Update**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Samsung*

**Abstract:**

Some references and terminologies are missing in the solution 3, therefore it is proposed to revise the solution 3.

**Discussion:**

Samsung presented the document available as S6-191353.

Qualcomm pointed editorial errors, i.e. "This solution address the Key Issue 2 and 7.." should read "This solution addresses the key issues 2 and 7..".

The only changes are:

 - replacing the sentence in clause 7.3.2 with "This solution addresses the key issues 2 and 7 for the deployment scenario option 3".

 - replacing "3GPP TR 23.501" with "3GPP TS 23.501".

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

**Decision:** The document was **revised to S6-191489**.

**S6-191489 Solution 3 Update**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Samsung*

(Replaces S6-191353)

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

**S6-191331 QoS Management for 5G Edge Network**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Alibaba Group*

**Abstract:**

This contribution proposes a key issue on QoS management for Edge Application related aspects for Edge Computing study.

**Discussion:**

China Mobile presented the document available as S6-191331 on behalf of Alibaba.

Intel had a problem understanding the first open issue.

Qualcomm was of the view that all the listed issues already were supported. If this was not the case they requested to see actual "delta" of what was missing.

It was noted it was difficult to progress the contribution as the contributor was not present.

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

**S6-191327 New solution - Service Continuity For Edge Computing Service**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Alibaba Group*

**Abstract:**

This contribution proposes a solution for Key Issue #9. This proposal focuses on the detection for triggering the reroute for traffic from the serving edge application instance to the target edge application. It also aims at providing a method for transferring context between edge applications across different edge enabler server.

**Discussion:**

China Mobile presented the document available as S6-191327 on behalf of Alibaba.

Samsung noted that the Edge configuration server was not currently covered by the current architecture.

Huawei was of the view that the steps 7 to 16 were dealing with service continuity that could be split into a separate procedure.

Qualcomm noted that the title of the solution "Service Authorization" was incorrect and further noted that there seemed to be a lot of flaws in the thinking of the solution.

Intel also pointed out various problems in the reason to change e.g. with regard to the "context".

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

**S6-191329 New solution - Service Authentication for Edge Computing Service**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Alibaba Group*

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

**S6-191388 Pseudo-CR on Solution to KI#9 about application relocation**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Huawei, Hisilicon*

**Abstract:**

This pCR is proposes to introduce a new solution to key issue #9.

**Discussion:**

Huawei presented the document available as S6-191388.

Qualcomm suggested replacing "source application instance" with "source edge application instance".

Vodafone doubted that the edge enabler server would have the capability to perform step 3.

Qualcomm further suggested clarifying what exactly was meant with the term "freeze".

**Decision:** The document was **revised to S6-191490**.

**S6-191490 Pseudo-CR on Solution to KI#9 about application relocation**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Huawei, Hisilicon*

(Replaces S6-191388)

**Discussion:**

Huawei presented the document available as S6-191490.

Samsung suggested deleting some of the steps.

Sony suggested rephrasing the name of the solution.

Qualcomm was of the view that steps 1a, 1b and 1c could be pre-conditions.

**Decision:** The document was **revised to S6-191578**.

**S6-191578 Pseudo-CR on Solution to KI#9 about application relocation**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Huawei, Hisilicon*

(Replaces S6-191490)

**Discussion:**

Huawei presented the document available as S6-191578.

Vodafone suggested rewording the beginning of the clause 7.X.

**Decision:** The document was **revised to S6-191601**.

**S6-191601 Pseudo-CR on Solution to KI#9 about application relocation**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Huawei, Hisilicon*

(Replaces S6-191578)

**Discussion:**

Huawei presented the document available as S6-191601.

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

**S6-191367 New Solution - Registering Edge Enabler Client on Edge Enabler Server**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Samsung Electronics*

**Abstract:**

This contribution introduces a new solution for registering Edge Enabler Client on the Edge Enabler Server.

**Discussion:**

Samsung presented the document available as S6-191367.

Qualcomm suggested clarifying e.g. the term access token, they also raised the question when the registration actually is completed and noted this was not about onboarding.

**Decision:** The document was **revised to S6-191491**.

**S6-191491 New Solution - Registering Edge Enabler Client on Edge Enabler Server**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Samsung Electronics*

(Replaces S6-191367)

**Discussion:**

Samsung presented the document available as S6-191491.

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

**S6-191368 Pseudo-CR on Taking user's consent for capability exposure**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Samsung Electronics*

**Abstract:**

This contribution introduces a new key issue on taking User's consent for network capability exposure to Edge Applications.

**Discussion:**

Samsung presented the document available as S6-191368.

Qualcomm raised strong concern about the proposed functionality, the edge enabler client handling consent.

AT&T also raised serious concern for the proposed model.

Qualcomm further noted that also the key issue needs clarification.

**Decision:** The document was **revised to S6-191492**.

**S6-191492 Pseudo-CR on Taking user's consent for capability exposure**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Samsung Electronics*

(Replaces S6-191368)

**Discussion:**

Samsung presented the document available as S6-191492.

Qualcomm raised the question about how to state the involvement/dependency of SA3.

The discussion mentioned e.g. replacing the editor's notes to read:

The aspect of defining end user consent over API is in the scope of SA3

The aspects of the usage of end user consent over APIs is in the scope of SA6.

Motorola Solutions noted that it might be better to use a different term i.e. authorization instead of user consent.

Also another suggestion for ENs were considered as follows:

The aspect of defining end user consent/authorization over API is in the scope of SA3

The aspects of the usage of end user consent/authorization over APIs is in the scope of SA6.

Ericsson suggested replacing "edge application" with "edge application server".

**Decision:** The document was **revised to S6-191579**.

**S6-191579 Pseudo-CR on Taking user's consent for capability exposure**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Samsung Electronics*

(Replaces S6-191492)

**Discussion:**

Samsung presented the document available as S6-191579.

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

**S6-191386 Concept clarification for EDGEAPP**

 *Type: discussion For: Discussion
 23.758 v..
 Source: Huawei, Hisilicon*

**Abstract:**

The contribution seeks clarifying on the EDGEAPP concept with regard to:

 - concept & terminology mapping between SA2 and SA6

 - business model and

 - capability exposure with reusing CAPIF.

**Discussion:**

Huawei presented the document available as S6-191386.

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

**S6-191376 Edge computing business relationships**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Huawei, Hisilicon*

**Abstract:**

Proposal for Edge computing business relationships

**Discussion:**

Huawei presented the document available as S6-191376.

Qualcomm suggested rephrasing the sentence "The end user/UE may have a PLMN subscription arrangement with the PLMN operator directly." by stating that "The end user/UE has a PLMN subscription arrangement..".

Samsung suggested replacing "..edge service provider.." with "..edge computing service provider..".

**Decision:** The document was **revised to S6-191493**.

**S6-191493 Edge computing business relationships**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Huawei, Hisilicon*

(Replaces S6-191376)

**Discussion:**

Huawei presented the document available as S6-191493.

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

**S6-191377 Solution to key issue#5 using CAPIF mechanism**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Huawei, Hisilicon*

**Abstract:**

Proposal for Solution to key issue#5 using CAPIF mechanism

**Discussion:**

Huawei presented the document available as S6-191377.

AT&T made the remark that there seemed to be no mention of authentication of the end user.

**Decision:** The document was **revised to S6-191494**.

**S6-191494 Solution to key issue#5 using CAPIF mechanism**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Huawei, Hisilicon*

(Replaces S6-191377)

**Discussion:**

Huawei presented the document available as S6-191494.

Samsung suggested some re-ordering of clauses.

Further offline discussion needed.

**Decision:** The document was **revised to S6-191549**.

**S6-191549 Solution to key issue#5 using CAPIF mechanism**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Huawei, Hisilicon*

(Replaces S6-191494)

**Discussion:**

Huawei presented the document available as S6-191549.

Samsung suggested adding an editor's note stating "When using CAPIF, whether and how the EASs obtain UE identifiers is FFS."

The only change is adding the following editor's "When using CAPIF, whether and how the EASs obtain UE identifiers is FFS." at the end of clause 7.x.1

With the above changes the revised contribution, S6-191602, is considered pre-approved.

**Decision:** The document was **revised to S6-191602**.

**S6-191602 Solution to key issue#5 using CAPIF mechanism**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Huawei, Hisilicon*

(Replaces S6-191549)

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

**S6-191387 Pseudo-CR on Deployment model**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Huawei, Hisilicon*

**Abstract:**

This pCR is proposed to introduce a new solution to key issue #7. Also, this solution can also solve some open issue in key issue #1.

**Discussion:**

Huawei presented the document available as S6-191387.

Qualcomm made the remark that they were missing an edge data network identifier in the proposed solution.

Samsung was of the view that the proposal looked more like an example of a deployment scenario and hence suggested to move the proposal to a dedicated clause for deployment scenarios.

**Decision:** The document was **revised to S6-191495**.

**S6-191495 Pseudo-CR on Deployment model**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Huawei, Hisilicon*

(Replaces S6-191387)

**Discussion:**

Huawei presented the document available as S6-191495.

Qualcomm pointed out a typo "Edga".

**Decision:** The document was **revised to S6-191550**.

**S6-191550 Pseudo-CR on Deployment model**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Huawei, Hisilicon*

(Replaces S6-191495)

**Discussion:**

Huawei presented the document available as S6-191550.

Qualcomm suggested replacing "..the Edge Data Network can be identified by DNAI.." with "..the Edge Data Network is identified by DNAI..".

The only change is replacing in the second paragraph "..the Edge Data Network can be identified by DNAI.." with "..the Edge Data Network is identified by DNAI..".

With the above changes the revised contribution, S6-191603, is considered pre-approved.

**Decision:** The document was **revised to S6-191603**.

**S6-191603 Pseudo-CR on Deployment model**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Huawei, Hisilicon*

(Replaces S6-191550)

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

**S6-191338 Edge Computing Deployment Scenarios**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Samsung*

**Abstract:**

In order to understand operator’s and key issues of this study correctly, the contribution proposes to discuss potential deployment scenarios as a baseline for further solutions.

Based on the deployment considerations, three deployment options are identified in this contribution.

**Discussion:**

Samsung presented the document available as S6-191338.

Qualcomm was of the view that the statement under option 2 that the I-UPF solution was not required, was not always correct. They also suggested replacing internet DN with common DN.

It was suggested to clarify further the difference between options 1 and 2.

**Decision:** The document was **revised to S6-191496**.

**S6-191496 Edge Computing Deployment Scenarios**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Samsung*

(Replaces S6-191338)

**Discussion:**

Revised prior to presentation.

**Decision:** The document was **revised to S6-191552**.

**S6-191552 Edge Computing Deployment Scenarios**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Samsung*

(Replaces S6-191496)

**Discussion:**

Samsung presented the document available as S6-191552.

Huawei suggested removing the internet DN from figure X.2-1.

Qualcomm suggested deleting second and last sentences in clause X.2.

Huawei suggested deleting the whole second paragraph in clause X.2.

Ericsson suggested removing changes on changes and correcting "..the some portion of PLMN..".

**Decision:** The document was **revised to S6-191580**.

**S6-191580 Edge Computing Deployment Scenarios**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Samsung*

(Replaces S6-191552)

**Discussion:**

Samsung presented the document available as S6-191580.

Qualcomm raised a concern with using the term local data network (within a data network) in the figure as it in their view meant nothing, they also had a concern with two DNNs.

Further offline discussion needed.

**Decision:** The document was **revised to S6-191604**.

**S6-191604 Edge Computing Deployment Scenarios**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Samsung*

(Replaces S6-191580)

**Discussion:**

Samsung presented the document available as S6-191604.

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

**S6-191319 3-tier architecture diagram**

 *Type: pCR For: Approval
 23.758 v0.2.0
 Source: Intel Finland Oy*

**Abstract:**

This contribution adds a diagram to clause 6.2 (Application Architecture) to clarify the different entities and position them in the appropriate topological location and in the appropriate technology tier.

**Discussion:**

Samsung presented the document available as S6-191319.

Qualcomm did not agree with displaying the edge enabler client located on top of the OS / software stack as a generic scenario.

Huawei did not consider the figure as helpful as it unnecessarily restricts options due to the layered structure.

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

**S6-191320 Discussion on Criteria for EDGEAPP Conceptual DB**

 *Type: discussion For: Agreement
 23.758 v..
 Source: Intel Finland Oy*

**Abstract:**

The present contribution proposes:

 - establishing a conceptual Data-Base for enabling Edge-aware Applications to utilize Edge services,

 - define common values and ID information that need to be transferred between Edge entities to enable Edge services and

 - hint on messages that need to be defined for carrying these values and ID information.

**Discussion:**

Revised prior to presentation.

**Decision:** The document was **revised to S6-191410**.

**S6-191410 Discussion on Criteria for EDGEAPP Conceptual DB**

 *Type: discussion For: Agreement
 23.758 v..
 Source: Intel Finland Oy*

(Replaces S6-191320)

**Discussion:**

Intel presented the document available as S6-191410.

Qualcomm noted it was a comprehensive list if topics that can be used for preparing key issues/contributions.

Huawei suggested to discuss the listed issues in conjunction to key issues.

Vodafone noted the that list of questions were significant and will need to be answered at some point.

Intel raised the concern that by concentrating on key issue by key issue one risks losing the whole picture, and hence suggested to discuss the topics over conference calls or over the reflector.

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

**S6-191354 Discussion on Edge Application Discovery**

 *Type: discussion For: Discussion
 23.758 v..
 Source: Samsung*

**Abstract:**

The contribution discusses the potential issues and impacts to the operator network when using DNS based solution for application discovery, as well as potential architectural issues. This paper proposes to conclude the solution #1 for the Key Issue #4.

**Discussion:**

Samsung presented the document available as S6-191354.

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

### 11.6 FS\_eV2XAPP – Study on Enhancements to application layer support for V2X services

**S6-191378 Proposed skeleton for TR on study on enhancements to application layer support for V2X services**

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

**Abstract:**

Proposed skeleton for TR on study on enhancements to application layer support for V2X services

**Discussion:**

Huawei presented the document available as S6-191378.

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

**S6-191379 Proposal for scope**

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

**Abstract:**

Proposal for scope

**Discussion:**

Huawei presented the document available as S6-191379.

one2many suggested rewording "related to eV2X" e.g. to "related to V2X enhancements".

T-Mobile suggested replacing "..V2X application standards defined outside 3GPP." with "..V2X application requirements defined outside 3GPP."

**Decision:** The document was **revised to S6-191512**.

**S6-191512 Proposal for scope**

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

(Replaces S6-191379)

**Discussion:**

Huawei presented the document available as S6-191512.

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

**S6-191380 Key Issue on PC5 QoS aspects**

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

**Abstract:**

This contribution discusses a key issue for the interaction between eV2X application and 3GPP systems for QoS monitoring and negotiation.

**Discussion:**

Huawei presented the document available as S6-191380.

Qualcomm suggested deleting the word "management" from "..management of V2X-UEs..".

**Decision:** The document was **revised to S6-191513**.

**S6-191513 Key Issue on PC5 QoS aspects**

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

(Replaces S6-191380)

**Discussion:**

Huawei presented the document available as S6-191513.

Ericsson suggested adding and editor's note along the lines of "The dependency of SA2 for the range parameter is FFS.".

It was also suggested to delete the two first bullets beneath "Taking into account the latest SA2 agreements…".

**Decision:** The document was **revised to S6-191581**.

**S6-191581 Key Issue on PC5 QoS aspects**

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

(Replaces S6-191513)

**Discussion:**

Huawei presented the document available as S6-191581.

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

**S6-191381 Key Issue on Uu QoS aspects**

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

**Abstract:**

This contribution discusses a key issue for the interaction between eV2X application and 3GPP systems for QoS monitoring and negotiation.

**Discussion:**

Huawei presented the document available as S6-191381.

Qualcomm suggested e.g. rewording of the first of the three bullets at the end. They also suggested clarifying the "dynamic/on-demand".

Ericsson was of the view that the key issue could be further divided.

**Decision:** The document was **revised to S6-191514**.

**S6-191514 Key Issue on Uu QoS aspects**

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

(Replaces S6-191381)

**Discussion:**

Huawei presented the document available as S6-191514.

Qualcomm was of the view that the proposal had become much more complicated, while the intention was to simplify the proposal.

**Decision:** The document was **revised to S6-191582**.

**S6-191582 Key Issue on Uu QoS aspects**

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

(Replaces S6-191514)

**Discussion:**

Huawei presented the document available as S6-191582.

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

**S6-191382 Key issue on Slicing support for eV2X services**

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

**Abstract:**

This contribution discusses a key issue and solution for the slice-awareness of the application layer.

**Discussion:**

Huawei presented the document available as S6-191382.

Qualcomm was of the view that e.g. the "facilitate roaming support" was not related to the key issue" and suggested to discuss further offline.

**Decision:** The document was **revised to S6-191515**.

**S6-191515 Key issue on Slicing support for eV2X services**

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

(Replaces S6-191382)

**Discussion:**

Huawei presented the document available as S6-191515.

Qualcomm raised a concern with the third paragraph in clause X.y.

It was suggested to delete the whole paragraph.

The only changes are:

 - deleting the third paragraph in clause X.y.

 - removing changes on changes.

With the above changes the revised contribution, S6-191583, is considered pre-approved.

**Decision:** The document was **revised to S6-191583**.

**S6-191583 Key issue on Slicing support for eV2X services**

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

(Replaces S6-191515)

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

### 11.7 FS\_5GMARCH – Study on support of the 5GMSG Service

**S6-191321 TR 23.700-24 skeleton**

 *Type: pCR For: Approval
 23.700-24 v0.0.0
 Source: China Mobile Com. Corporation*

(Replaces S6-190917)

**Discussion:**

China Mobile presented the document available as S6-191321.

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

**S6-191322 Pseudo-CR on Scope of FS\_5GMARCH**

 *Type: pCR For: Approval
 23.700-24 v0.0.0
 Source: China Mobile Com. Corporation*

**Abstract:**

The contribution proposes text for the TR 23.700-24 scope.

**Discussion:**

China Mobile presented the document available as S6-191322.

one2many suggested deleting the last sentence in the scope as it did not relate to the actual scope.

Qualcomm suggested replacing "..identify.." with "..study..".

T-Mobile suggested to be more specific bye replacing "..the architecture needed to support.." with "..the application architecture needed to support..".

It was also suggested to delete the definition of MSGin5G Service as it was already defined elsewhere.

**Decision:** The document was **revised to S6-191516**.

**S6-191516 Pseudo-CR on Scope of FS\_5GMARCH**

 *Type: pCR For: Approval
 23.700-24 v0.0.0
 Source: China Mobile Com. Corporation*

(Replaces S6-191322)

**Discussion:**

China Mobile presented the document available as S6-191516.

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

**S6-191323 Pseudo-CR on FS\_5GMARCH scenarios general and assumptions**

 *Type: pCR For: Approval
 23.700-24 v0.0.0
 Source: China Mobile Com. Corporation*

**Abstract:**

This doc proposes the assumption of each scenarios specified in TS 22.262 to limit the issues in this stage.

**Discussion:**

China Mobile presented the document available as S6-191323.

one2many pointed out that the reference number of TR 22.824 in the text was incorrect and should be X2. They also noted that the sentence "Different use cases may cause different key issues." would seem to be evident and hence superfluous.

Qualcomm made a remark that it was impossible to understand what text possibly originated from another source document.

T-Mobile suggested using the term smart device.

Samsung raised a concern with the statement "UE Power Saving Mode specified in TS 23.682 [X1] shall be considered.".

**Decision:** The document was **revised to S6-191517**.

**S6-191517 Pseudo-CR on FS\_5GMARCH scenarios general and assumptions**

 *Type: pCR For: Approval
 23.700-24 v0.0.0
 Source: China Mobile Com. Corporation*

(Replaces S6-191323)

**Discussion:**

China Mobile presented the document available as S6-191517.

UIC raised a question what was meant with off-band technology.

The only changes are:

 - deleting the first sub-bullet from the 4th bullet.

 - removing changes over changes and

 - showing new text with revision marks and

 - correcting typos e.g. "message e scenario".

With the above changes the revised contribution, S6-191584, is considered pre-approved.

**Decision:** The document was **revised to S6-191584**.

**S6-191584 Pseudo-CR on FS\_5GMARCH scenarios general and assumptions**

 *Type: pCR For: Approval
 23.700-24 v0.0.0
 Source: China Mobile Com. Corporation*

(Replaces S6-191517)

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

**S6-191324 Pseudo-CR on FS\_5GMARCH Point-to-point message scenarios**

 *Type: pCR For: Approval
 23.700-24 v0.0.0
 Source: China Mobile Com. Corporation*

**Abstract:**

This contribution proposes different Point-to-point message scenarios of 5G message services.

**Discussion:**

China Mobile presented the document available as S6-191324.

one2many pointed out that there seemed to be a discrepancy between the pCR and the skeleton. They further suggested

 - not to refer to figures by using the word "below" as this might change over time.

 - not use the wording "shall be light-weighted" and

 - replacing "translated" with "transferred".

Samsung suggested removing definitions already defined.

Qualcomm requested simplifying the figures as several of the entities have not been agreed to.

It was also pointed out that the defined terms Controller UE and Controlled UE were not used.

**Decision:** The document was **revised to S6-191518**.

**S6-191518 Pseudo-CR on FS\_5GMARCH Point-to-point message scenarios**

 *Type: pCR For: Approval
 23.700-24 v0.0.0
 Source: China Mobile Com. Corporation*

(Replaces S6-191324)

**Discussion:**

China Mobile presented the document available as S6-191518.

It was pointed out that:

 - the terms light weighted or heavy weighted should be avoided and

 - definitions introduced in other pCRs should not be included.

T-Mobile suggested removing the gateway.

**Decision:** The document was **revised to S6-191585**.

**S6-191585 Pseudo-CR on FS\_5GMARCH Point-to-point message scenarios**

 *Type: pCR For: Approval
 23.700-24 v0.0.0
 Source: China Mobile Com. Corporation*

(Replaces S6-191518)

**Discussion:**

China Mobile presented the document available as S6-191585.

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

**S6-191325 Pseudo-CR on FS\_5GMARCH delivery status**

 *Type: pCR For: Approval
 23.700-24 v0.0.0
 Source: China Mobile Com. Corporation*

**Abstract:**

This contribution proposes a key issue that MSGin5G Service shall support acknowledgement of delivery status.

**Discussion:**

China Mobile presented the document available as S6-191325.

one2many suggested some rewordings of e.g. "required by some specific message".

**Decision:** The document was **revised to S6-191519**.

**S6-191519 Pseudo-CR on FS\_5GMARCH delivery status**

 *Type: pCR For: Approval
 23.700-24 v0.0.0
 Source: China Mobile Com. Corporation*

(Replaces S6-191325)

**Discussion:**

China Mobile presented the document available as S6-191519.

It was noted that the clause 5.1.2 did not seem to contain requirements but key issues or gaps.

Also there seemed to be no changes to the references clause. This should be double checked.

**Decision:** The document was **revised to S6-191586**.

**S6-191586 Pseudo-CR on FS\_5GMARCH delivery status**

 *Type: pCR For: Approval
 23.700-24 v0.0.0
 Source: China Mobile Com. Corporation*

(Replaces S6-191519)

**Discussion:**

China Mobile presented the document available as S6-191586.

The only change is replacing the first sentence of clause 5.1.2 to read "The following gaps have been identified to fulfil the delivery status acknowledgement:"

With the above changes the revised contribution, S6-191618, is considered pre-approved.

**Decision:** The document was **revised to S6-191618**.

**S6-191618 Pseudo-CR on FS\_5GMARCH delivery status**

 *Type: pCR For: Approval
 23.700-24 v0.0.0
 Source: China Mobile Com. Corporation*

(Replaces S6-191586)

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

**S6-191265 Pseudo-CR on CBS for 5GMSG Service**

 *Type: pCR For: Approval
 23.700-24 v0.0.0
 Source: one2many B.V.*

**Abstract:**

An objective of the study on support of the 5GMSG Service is to evaluate and identify solutions for broadcast messages. This contribution analyses if the Cell Broadcast Service fulfils the requirements

**Discussion:**

Revised prior to presentation.

**Decision:** The document was **revised to S6-191469**.

**S6-191469 Pseudo-CR on CBS for 5GMSG Service**

 *Type: pCR For: Approval
 23.700-24 v0.0.0
 Source: one2many B.V.*

(Replaces S6-191265)

**Abstract:**

An objective of the study on support of the 5GMSG Service is to evaluate and identify solutions for broadcast messages. This contribution analyses if the Cell Broadcast Service fulfils the requirements.

**Discussion:**

one2many presented the document available as S6-191469.

Qualcomm made a remark that it was difficult to understand what was the original stage 1 requirement.

T-Mobile noted it was difficult to understand the actual key issue.

It was suggested the key issue could be called "Cellbroadcast use for 5GMSGService".

**Decision:** The document was **revised to S6-191520**.

**S6-191520 Pseudo-CR on CBS for 5GMSG Service**

 *Type: pCR For: Approval
 23.700-24 v0.0.0
 Source: one2many B.V.*

(Replaces S6-191469)

**Discussion:**

one2many presented the document available as S6-191520.

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

## 12 Work Plan review

**S6-191294 Discussion on generalization of regrouping procedures**

 *Type: discussion For: Discussion
 23.280 v..
 Source: FirstNet*

**Abstract:**

This presentation discusses the potential generalization of regrouping procedures so they are applicable to all MCX services.

**Discussion:**

FirstNet presented the document available as S6-191294.

Motorola Solutions supported in principle the proposal, but noted that group regrouping may not (at least) easily translate across services.

Nokia pointed out that a WID would be required for this work.

The chairman concluded there seemed to be general support to pursue the proposed work.

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

**S6-191408 Potential work, impacts and requirements for MBS/5G for Mission Critical in Rel-17**

 *Type: other For: discussion
 Source: AT&T*

**Abstract:**

The contribution presents an analysis of eMBMS/5G for Mission Critical in Rel-17.

**Discussion:**

AT&T presented the document available as S6-191408.

Huawei made a remark that the especially impacts for RAN should be highlighted and followed up with an LS to RAN.

Qualcomm suggested identifying:

 - applicable stage 1 requirements

 - which 5GS functionality can provide us functionality that will help in fulfilling requirements that are not met at this moment.

Motorola Solutions suggested concentrating on the actual requirements in a simplistic way.

The Police of Netherlands suggested for SA6 to concentrate on SA6 aspects.

The chairman suggested the SA6 requirements’ dependencies in relation to SA and RAN would be worked on between the current and the coming SA6 meeting.

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

**S6-191409 SA2 and RAN view on (work required for) 5GS Proximity Based Services**

 *Type: other For: discussion
 Source: The Police of Netherlands*

**Abstract:**

SA6 should provide input to SA2 and RAN on design criteria for 5GS Proximity Based Services.

**Discussion:**

The Police of Netherlands presented the document available as S6-191409.

The chairman suggested to continue discussion over the reflector if needed.

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

## 13 Future meetings

**13.1 Information about meeting locations**

The location of following were confirmed:

* SA6#38 06 – 10 July 2020 Espoo
* SA6#39 24 – 28 August 2020 Wroclaw, Poland
* SA6#40 16 – 20 November 2020 North America

It was also noted that the host of the SA6#36 meeting (24th to 28th Feb 2020) had informed that the location of the meeting will be Christchurch, NZ. A formal invitation should follow soon.

**13.2 Discussion on potential AdHoc meeting**

The meeting discussed potential need for an AdHoc meeting on the topic of EDGE App as proposed by Samsung.

Motorola Solutions did not currently see a need for such an AdHoc meeting.

Huawei noted they did not see at this stage a particular urgency to complete work, in fact SA6 could run out of sync with SA2. Finally no decision was taken.

**13.3 Conference calls**

Potential conference call topics prior to SA6#33.

 - EDGEAPP

 - D2D over 5G

**S6-191593 Work Plan review at SA6#32**

 *Type: other For: discussion
 Source: Qualcomm*

**Discussion:**

Qualcomm presented the document available as S6-191593.

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

## 14 AOB

## 15 Close of the meeting

* Report prepared by: Mattsson

## Annex A: List of contribution documents

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1. Document
 | 1. Title
 | 1. Source
 | 1. Decision
 | 1. Replaces
 | 1. Replaced by
 |
| S6-191257 | SA6 Meeting 32 Agenda | SA6 Chairman | noted |  |  |
| S6-191258 | SA6 Meeting 31 Report | MCC | approved |  |  |
| S6-191259 | SA6 Meeting #32 - Agenda with Tdocs allocation after submission deadline | SA6 Chairman | noted |  |  |
| S6-191260 | SA6 Meeting #32 - Agenda with Tdocs allocation at start of the meeting | SA6 Chairman | approved |  |  |
| S6-191261 | SA6 Meeting #32 - Chairman's notes at end of the meeting | SA6 Chairman | noted |  |  |
| S6-191262 | LS on ETSI Plugtest standards Issues | CT1 | replied to |  |  |
| S6-191263 | LS on clarification for usage of MC Service emergency state for MCData service | CT1 | replied to |  |  |
| S6-191264 | Correct the error message is sent in the MCPTT emergency group call procedures | AT&T GNS Belgium SPRL | revised |  | S6-191418 |
| S6-191265 | Pseudo-CR on CBS for 5GMSG Service | one2many B.V. | revised |  | S6-191469 |
| S6-191266 | Correct the configuration parameters for the MCPTT emergency procedures | AT&T GNS Belgium SPRL | revised |  | S6-191412 |
| S6-191267 | Correct the configuration parameters for the MCVideo emergency alert procedures | AT&T GNS Belgium SPRL | revised |  | S6-191413 |
| S6-191268 | Correct the configuration parameters for the MCData emergency alert procedures | AT&T GNS Belgium SPRL | revised |  | S6-191414 |
| S6-191269 | Analysis on MCX Service Emergency Alert  | AT&T GNS Belgium SPRL | noted |  |  |
| S6-191270 | Point-to-Point IP connectivitity using functional alias to address the target MCData user | Union Inter. Chemins de Fer | revised |  | S6-191452 |
| S6-191271 | SDS addressing based on functional alias | Union Inter. Chemins de Fer | revised |  | S6-191453 |
| S6-191272 | Remote initiation of Point-to-Point IP connectivity | Union Inter. Chemins de Fer | revised |  | S6-191455 |
| S6-191273 | Withdraw Point-to-Point IP connectivity | Union Inter. Chemins de Fer | revised |  | S6-191456 |
| S6-191274 | Functional alias for Private Call | Union Inter. Chemins de Fer | revised | S6-190983 | S6-191457 |
| S6-191275 | Functional alias for MCPTT Floor Control | Union Inter. Chemins de Fer | revised | S6-190984 | S6-191458 |
| S6-191276 | Status of eMONASTERY2 | Nokia, Nokia Shanghai Bell | noted |  |  |
| S6-191277 | Communication priority for functional aliases | Nokia, Nokia Shanghai Bell | revised |  | S6-191444 |
| S6-191278 | Communication priority for functional aliases | Nokia, Nokia Shanghai Bell | revised |  | S6-191445 |
| S6-191279 | Support of functional aliases as called party address in MCPTT emergency private calls | Nokia, Nokia Shanghai Bell | postponed |  |  |
| S6-191280 | Call restrictions when using a specific functional alias for private calls | Nokia, Nokia Shanghai Bell | revised |  | S6-191451 |
| S6-191281 | Providing activated functional alias information to the group controlling server | Nokia, Nokia Shanghai Bell | revised |  | S6-191448 |
| S6-191282 | Providing the list of functional aliases used by affiliated group members | Nokia, Nokia Shanghai Bell | revised |  | S6-191449 |
| S6-191283 | Prevent from de-affiliation when using a specific functional alias | Nokia, Nokia Shanghai Bell | revised |  | S6-191450 |
| S6-191284 | IWF preconfigured groups | Harris Corporation | revised |  | S6-191424 |
| S6-191285 | IWF add user to temporary group | Harris Corporation | revised |  | S6-191425 |
| S6-191286 | IWF user regroup creation | Harris Corporation | revised |  | S6-191426 |
| S6-191287 | IWF temporary group calls | Harris Corporation | revised |  | S6-191427 |
| S6-191288 | IWF user regroup with preconfigured group | Harris Corporation | revised |  | S6-191428 |
| S6-191289 | IWF group deletion | Harris Corporation | revised |  | S6-191429 |
| S6-191290 | IWF preconfigured broadcast group calls | Harris Corporation | revised |  | S6-191430 |
| S6-191291 | IWF functional alias removal | Harris Corporation, Motorola Solutions | revised |  | S6-191431 |
| S6-191292 | IWF functional alias restoration | Harris Corporation | revised |  | S6-191454 |
| S6-191293 | IWF identities wording correction | Harris Corporation | revised |  | S6-191432 |
| S6-191294 | Discussion on generalization of regrouping procedures | FirstNet | noted |  |  |
| S6-191295 | Discussion on eMBMS/5G for Mission Critical in Rel-17 | AT&T | noted |  |  |
| S6-191296 | New SID: Study on enhanced Mission Critical services over 5G multicast-broadcast system | AT&T | revised |  | S6-191524 |
| S6-191297 | Proposed TR skeleton for Rel-17 Study on enhanced Mission Critical services over 5G multicast-broadcast system  | AT&T | revised |  | S6-191620 |
| S6-191298 | 5G Vertical User Workshop Presentation on SA6 | Qualcomm UK Ltd | revised |  | S6-191299 |
| S6-191299 | 5G Vertical User Workshop Presentation on SA6 | Qualcomm UK Ltd | revised | S6-191298 | S6-191311 |
| S6-191300 | Clarifications of 3GPP Edge Architecture “Toolbox” | Qualcomm Incorporated | revised |  | S6-191478 |
| S6-191301 | Introduction of UAS Terminology | QUALCOMM Europe Inc. - Italy | revised |  | S6-191505 |
| S6-191302 | Introduction of a relevant aviation industry UAS Model | QUALCOMM Europe Inc. - Italy | revised |  | S6-191521 |
| S6-191303 | Application Architecture for Enabling UAS Ecosystem | QUALCOMM Europe Inc. - Italy | withdrawn |  |  |
| S6-191304 | Corrections to MCPTT emergency alert procedures | AT&T GNS Belgium SPRL | revised |  | S6-191416 |
| S6-191305 | Corrections to the emergency alert procedures | AT&T GNS Belgium SPRL | revised |  | S6-191417 |
| S6-191306 | Add first-to-answer for interworking with GSM-R | Kapsch CarrierCom | revised |  | S6-191459 |
| S6-191307 | Add enhancements for interworking of MCPTT group calls with GSM-R | Kapsch CarrierCom | postponed |  |  |
| S6-191308 | Add enhancements for interworking of MCData SDS with GSM-R SMS | Kapsch CarrierCom | revised |  | S6-191460 |
| S6-191309 | Add condition “not reachable” to call forwaring for MCPTT private calls | Kapsch CarrierCom | revised |  | S6-191446 |
| S6-191310 | Add call transfer for MCPTT private calls | Kapsch CarrierCom | revised |  | S6-191447 |
| S6-191311 | 5G Vertical User Workshop Presentation on SA6 | Qualcomm UK Ltd | revised | S6-191299 | S6-191405 |
| S6-191312 | Fix omission of location services in MCData  | AT&T | not pursued |  |  |
| S6-191313 | Fix omission of location services in MCData | AT&T | not pursued |  |  |
| S6-191314 | Fix omission of location services in MCData  | AT&T | revised |  | S6-191522 |
| S6-191315 | Discussion on scenarios and solution for functional aliases | TD Tech Ltd, Chengdu TD Tech | noted |  |  |
| S6-191316 | Functional alias as called party in private call | TD Tech Ltd | not pursued |  |  |
| S6-191317 | Necessity of establishment of Railway Smart Station Standards  | LG Uplus | noted |  |  |
| S6-191318 | Consideration of Digital Unit redundancy in LTE based railway systems | LG Uplus | noted |  |  |
| S6-191319 | 3-tier architecture diagram | Intel Finland Oy | noted |  |  |
| S6-191320 | Discussion on Criteria for EDGEAPP Conceptual DB | Intel Finland Oy | revised |  | S6-191410 |
| S6-191321 | TR 23.700-24 skeleton | China Mobile Com. Corporation | approved | S6-190917 |  |
| S6-191322 | Pseudo-CR on Scope of FS\_5GMARCH | China Mobile Com. Corporation | revised |  | S6-191516 |
| S6-191323 | Pseudo-CR on FS\_5GMARCH scenarios general and assumptions | China Mobile Com. Corporation | revised |  | S6-191517 |
| S6-191324 | Pseudo-CR on FS\_5GMARCH Point-to-point message scenarios | China Mobile Com. Corporation | revised |  | S6-191518 |
| S6-191325 | Pseudo-CR on FS\_5GMARCH delivery status | China Mobile Com. Corporation | revised |  | S6-191519 |
| S6-191326 | Abbreviations | ZTE Corporation | revised |  | S6-191497 |
| S6-191327 | New solution - Service Continuity For Edge Computing Service | Alibaba Group | noted |  |  |
| S6-191328 | remove 5GACIA reference | ZTE Corporation | revised |  | S6-191498 |
| S6-191329 | New solution - Service Authentication for Edge Computing Service | Alibaba Group | postponed |  |  |
| S6-191330 | architectural requirements | ZTE Corporation | revised |  | S6-191509 |
| S6-191331 | QoS Management for 5G Edge Network | Alibaba Group | noted |  |  |
| S6-191332 | Report on SA6 related topics at SA#84 | SA6 Chairman | noted |  |  |
| S6-191333 | FF application layer functional model | ZTE Corporation | revised |  | S6-191510 |
| S6-191334 | FF application layer functional entities | ZTE Corporation | merged |  | S6-191510 |
| S6-191335 | functional model reference points | ZTE Corporation | merged |  | S6-191510 |
| S6-191336 | 23745-FS\_FFAPP-functional model external reference points | ZTE Corporation | merged |  | S6-191510 |
| S6-191337 | Architecture correction related with EDGE-4 | Samsung | revised |  | S6-191485 |
| S6-191338 | Edge Computing Deployment Scenarios | Samsung | revised |  | S6-191496 |
| S6-191339 | Solution 2 update and evaluation | Samsung | revised |  | S6-191487 |
| S6-191340 | Architecture requirements group management | Ericsson GmbH, Eurolab | revised |  | S6-191465 |
| S6-191341 | User authorization in SEAL | Ericsson GmbH, Eurolab | noted |  |  |
| S6-191342 | Group announcement and join | Ericsson GmbH, Eurolab | revised |  | S6-191466 |
| S6-191343 | Remove EN GeoIDs | Ericsson GmbH, Eurolab | revised |  | S6-191470 |
| S6-191344 | Functionalities with SA2 dependency | Ericsson GmbH, Eurolab | revised |  | S6-191472 |
| S6-191345 | Discussion on Location Information sharing across MC systems | BDBOS | noted |  |  |
| S6-191346 | Pseudo-CR on solution on functional model to support location information sharing across MC systems | BDBOS | revised |  | S6-191461 |
| S6-191347 | Editorial corrections to clauses in 10.9 Location Management (on-network) | BDBOS | revised |  | S6-191411 |
| S6-191348 | Study on Railway Smart Station Services over Mission Critical System | Hansung University, LG Uplus | revised |  | S6-191523 |
| S6-191349 | Introduction of Study on Railway Smart Station Services over Mission Critical System | Hansung University, LG Uplus | noted |  |  |
| S6-191350 | Pseudo-CR on key issues Non-3GPP access to 5GS | BDBOS | revised |  | S6-191423 |
| S6-191351 | Configuration of the user notification in temporary group formation | BDBOS | agreed | S6-190796 |  |
| S6-191352 | Pseudo-CR on Solution#5 Update | Samsung R&D Institute UK | revised |  | S6-191403 |
| S6-191353 | Solution 3 Update | Samsung | revised |  | S6-191489 |
| S6-191354 | Discussion on Edge Application Discovery | Samsung | noted |  |  |
| S6-191355 | Architecture Update | Samsung | revised |  | S6-191486 |
| S6-191356 | EPS bearer for emergency | Samsung | revised |  | S6-191419 |
| S6-191357 | Emergency support for one-to-one SDS | Samsung | revised |  | S6-191420 |
| S6-191358 | Emergency and imminent peril support for group SDS | Samsung | revised |  | S6-191421 |
| S6-191359 | Emergency support for off-network SDS | Samsung | revised |  | S6-191422 |
| S6-191360 | Editorial corrections | Samsung Electronics | revised |  | S6-191476 |
| S6-191361 | Pseudo-CR on Architectural requirements on Service provisioning and EDN configuration | Samsung Electronics | revised |  | S6-191479 |
| S6-191362 | Pseudo-CR Edge Enabler Server discovery and registration | Samsung Electronics | revised |  | S6-191480 |
| S6-191363 | Architectural requirements on Edge Application Enablement | Samsung Electronics | revised |  | S6-191481 |
| S6-191364 | Pseudo-CR Edge Application discovery | Samsung Electronics | revised |  | S6-191482 |
| S6-191365 | Pseudo-CR Capability exposure to Edge Applications | Samsung Electronics | revised |  | S6-191483 |
| S6-191366 | Pseudo-CR Security | Samsung Electronics | revised |  | S6-191484 |
| S6-191367 | New Solution - Registering Edge Enabler Client on Edge Enabler Server | Samsung Electronics | revised |  | S6-191491 |
| S6-191368 | Pseudo-CR on Taking user's consent for capability exposure | Samsung Electronics | revised |  | S6-191492 |
| S6-191369 | Update to functional model | Huawei, Hisilicon | agreed |  |  |
| S6-191370 | Update to network QoS and situation monitoring aligned with SA2 | Huawei, Hisilicon | revised |  | S6-191473 |
| S6-191371 | Dynamic group API | Huawei, Hisilicon | revised |  | S6-191475 |
| S6-191372 | Correction to push layer-2 group ID mapping information flow | Huawei, Hisilicon | revised |  | S6-191474 |
| S6-191373 | Corrections to network resource management procedures | Huawei, Hisilicon | revised |  | S6-191467 |
| S6-191374 | N5 reference point description | Huawei, Hisilicon | agreed |  |  |
| S6-191375 | Key issue on usage of SEAL | Huawei, Hisilicon | revised |  | S6-191507 |
| S6-191376 | Edge computing business relationships | Huawei, Hisilicon | revised |  | S6-191493 |
| S6-191377 | Solution to key issue#5 using CAPIF mechanism | Huawei, Hisilicon | revised |  | S6-191494 |
| S6-191378 | Proposed skeleton for TR on study on enhancements to application layer support for V2X services | Huawei, Hisilicon | approved |  |  |
| S6-191379 | Proposal for scope | Huawei, Hisilicon | revised |  | S6-191512 |
| S6-191380 | Key Issue on PC5 QoS aspects | Huawei, Hisilicon | revised |  | S6-191513 |
| S6-191381 | Key Issue on Uu QoS aspects | Huawei, Hisilicon | revised |  | S6-191514 |
| S6-191382 | Key issue on Slicing support for eV2X services | Huawei, Hisilicon | revised |  | S6-191515 |
| S6-191383 | Terminology refinements | Intel Finland Oy | merged |  | S6-191476 |
| S6-191384 | Service-based architecture of SEAL | T-Mobile Austria GmbH | noted |  |  |
| S6-191385 | Change of service-based interface representation of the functional model for SEAL | T-Mobile Austria GmbH | withdrawn |  |  |
| S6-191386 | Concept clarification for EDGEAPP | Huawei, Hisilicon | noted |  |  |
| S6-191387 | Pseudo-CR on Deployment model | Huawei, Hisilicon | revised |  | S6-191495 |
| S6-191388 | Pseudo-CR on Solution to KI#9 about application relocation | Huawei, Hisilicon | revised |  | S6-191490 |
| S6-191389 | Pseudo-CR on Corrections on Edge Data Network and Edge Enabler Server usage in the key issues | Huawei, Hisilicon | revised |  | S6-191477 |
| S6-191390 | Pseudo-CR on Key issue on IP connectivity and QoS control | Huawei, Hisilicon | revised |  | S6-191511 |
| S6-191391 | Solution to IP connectivity and QoS control | Huawei, Hisilicon | noted |  |  |
| S6-191392 | Clarification and alignment with publish request information flows | Huawei, Hisilicon | revised |  | S6-191464 |
| S6-191393 | Corrections on notifications for network monitoring procedure | Huawei, Hisilicon | revised |  | S6-191471 |
| S6-191394 | MCIOPS work plan | Ericsson | noted |  |  |
| S6-191395 | IOPS update to introduction section | Ericsson | revised |  | S6-191433 |
| S6-191396 | IOPS related definitions | Ericsson | revised |  | S6-191434 |
| S6-191397 | IOPS related abbreviations | Ericsson | revised |  | S6-191435 |
| S6-191398 | IOPS functional model description | Ericsson | revised |  | S6-191436 |
| S6-191399 | IOPS functional entities description | Ericsson | revised |  | S6-191437 |
| S6-191400 | IOPS reference points | Ericsson | revised |  | S6-191438 |
| S6-191401 | IOPS architectural model | Ericsson | revised |  | S6-191439 |
| S6-191402 | LS response to CT1 on ETSI Plugtest standards issues | SA3 | noted |  |  |
| S6-191403 | Pseudo-CR on Solution#5 Update | Samsung R&D Institute UK | revised | S6-191352 | S6-191488 |
| S6-191404 | LS to 3GPP SA6 on Study on Application Architecture for enabling Edge Applications | ETSI ISG MEC | noted |  |  |
| S6-191405 | 5G Vertical User Workshop Presentation on SA6 | Qualcomm UK Ltd | revised | S6-191311 | S6-191415 |
| S6-191406 | LS response from SA6 to CT1 on ETSI Plugtest standards issues | SA6 | revised | - | S6-191525 |
| S6-191407 | Reply LS on clarification for usage of MC Service emergency state for MCData service | SA6 | approved | - | - |
| S6-191408 | Potential work, impacts and requirements for MBS/5G for Mission Critical in Rel-17 | AT&T | noted | - | - |
| S6-191409 | SA2 and RAN view on (work required for) 5GS Proximity Based Services | The Police of Netherlands | noted | - | - |
| S6-191410 | Discussion on Criteria for EDGEAPP Conceptual DB | Intel Finland Oy | noted | S6-191320 | - |
| S6-191411 | Editorial corrections to clauses in 10.9 Location Management (on-network) | BDBOS | revised | S6-191347 | S6-191526 |
| S6-191412 | Correct the configuration parameters for the MCPTT emergency procedures | AT&T GNS Belgium SPRL | revised | S6-191266 | S6-191527 |
| S6-191413 | Correct the configuration parameters for the MCVideo emergency alert procedures | AT&T GNS Belgium SPRL | revised | S6-191267 | S6-191528 |
| S6-191414 | Correct the configuration parameters for the MCData emergency alert procedures | AT&T GNS Belgium SPRL | revised | S6-191268 | S6-191529 |
| S6-191415 | 5G Vertical User Workshop Presentation on SA6 | Qualcomm UK Ltd | noted | S6-191405 | - |
| S6-191416 | Corrections to MCPTT emergency alert procedures | AT&T GNS Belgium SPRL | revised | S6-191304 | S6-191530 |
| S6-191417 | Corrections to the emergency alert procedures | AT&T GNS Belgium SPRL | revised | S6-191305 | S6-191531 |
| S6-191418 | Correct the error message is sent in the MCPTT emergency group call procedures | AT&T GNS Belgium SPRL | agreed | S6-191264 | - |
| S6-191419 | EPS bearer for emergency | Samsung | revised | S6-191356 | S6-191594 |
| S6-191420 | Emergency support for one-to-one SDS | Samsung | revised | S6-191357 | S6-191532 |
| S6-191421 | Emergency and imminent peril support for group SDS | Samsung | revised | S6-191358 | S6-191533 |
| S6-191422 | Emergency support for off-network SDS | Samsung | revised | S6-191359 | S6-191534 |
| S6-191423 | Pseudo-CR on key issues Non-3GPP access to 5GS | BDBOS | revised | S6-191350 | S6-191545 |
| S6-191424 | IWF preconfigured groups | Harris Corporation | revised | S6-191284 | S6-191440 |
| S6-191425 | IWF add user to temporary group | Harris Corporation | revised | S6-191285 | S6-191441 |
| S6-191426 | IWF user regroup creation | Harris Corporation | withdrawn | S6-191286 | - |
| S6-191427 | IWF temporary group calls | Harris Corporation | revised | S6-191287 | S6-191536 |
| S6-191428 | IWF user regroup with preconfigured group | Harris Corporation | revised | S6-191288 | S6-191442 |
| S6-191429 | IWF group deletion | Harris Corporation | withdrawn | S6-191289 | - |
| S6-191430 | IWF preconfigured broadcast group calls | Harris Corporation | revised | S6-191290 | S6-191443 |
| S6-191431 | IWF functional alias removal | Harris Corporation, Motorola Solutions | revised | S6-191291 | S6-191537 |
| S6-191432 | IWF identities wording correction | Harris Corporation, Motorola Solutions | agreed | S6-191293 | - |
| S6-191433 | IOPS update to introduction section | Ericsson | agreed | S6-191395 | - |
| S6-191434 | IOPS related definitions | Ericsson | agreed | S6-191396 | - |
| S6-191435 | IOPS related abbreviations | Ericsson | agreed | S6-191397 | - |
| S6-191436 | IOPS functional model description | Ericsson | revised | S6-191398 | S6-191501 |
| S6-191437 | IOPS functional entities description | Ericsson | revised | S6-191399 | S6-191502 |
| S6-191438 | IOPS reference points | Ericsson | revised | S6-191400 | S6-191503 |
| S6-191439 | IOPS architectural model | Ericsson | revised | S6-191401 | S6-191504 |
| S6-191440 | IWF preconfigured groups | Harris Corporation | revised | S6-191424 | S6-191462 |
| S6-191441 | IWF add user to temporary group | Harris Corporation | revised | S6-191425 | S6-191463 |
| S6-191442 | IWF user regroup with preconfigured group | Harris Corporation | revised | S6-191428 | S6-191499 |
| S6-191443 | IWF preconfigured broadcast group calls | Harris Corporation | revised | S6-191430 | S6-191500 |
| S6-191444 | Communication priority for functional aliases | Nokia, Nokia Shanghai Bell | agreed | S6-191277 | - |
| S6-191445 | Communication priority for functional aliases | Nokia, Nokia Shanghai Bell | agreed | S6-191278 | - |
| S6-191446 | Add condition “not reachable” to call forwarding for MCPTT private calls | Kapsch CarrierCom | agreed | S6-191309 | - |
| S6-191447 | Add call transfer for MCPTT private calls | Kapsch CarrierCom | revised | S6-191310 | S6-191553 |
| S6-191448 | Providing activated functional alias information to the group controlling server | Nokia, Nokia Shanghai Bell | revised | S6-191281 | S6-191554 |
| S6-191449 | Providing the list of functional aliases used by affiliated group members | Nokia, Nokia Shanghai Bell | revised | S6-191282 | S6-191555 |
| S6-191450 | Prevent from de-affiliation when using a specific functional alias | Nokia, Nokia Shanghai Bell | agreed | S6-191283 | - |
| S6-191451 | Call restrictions when using a specific functional alias for private calls | Nokia, Nokia Shanghai Bell | revised | S6-191280 | S6-191556 |
| S6-191452 | Point-to-Point IP connectivitity using functional alias to address the target MCData user | Union Inter. Chemins de Fer | revised | S6-191270 | S6-191508 |
| S6-191453 | SDS addressing based on functional alias | Union Inter. Chemins de Fer | revised | S6-191271 | S6-191557 |
| S6-191454 | IWF functional alias restoration | Harris Corporation | revised | S6-191292 | S6-191560 |
| S6-191455 | Remote initiation of Point-to-Point IP connectivity | Union Inter. Chemins de Fer | revised | S6-191272 | S6-191558 |
| S6-191456 | Withdraw Point-to-Point IP connectivity | Union Inter. Chemins de Fer | revised | S6-191273 | S6-191559 |
| S6-191457 | Functional alias for Private Call | Union Inter. Chemins de Fer | agreed | S6-191274 | - |
| S6-191458 | Functional alias for MCPTT Floor Control | Union Inter. Chemins de Fer | agreed | S6-191275 | - |
| S6-191459 | Add first-to-answer for interworking with GSM-R | Kapsch CarrierCom | revised | S6-191306 | S6-191561 |
| S6-191460 | Add enhancements for interworking of MCData SDS with GSM-R SMS | Kapsch CarrierCom | agreed | S6-191308 | - |
| S6-191461 | Pseudo-CR on solution on functional model to support location information sharing across MC systems | BDBOS | revised | S6-191346 | S6-191546 |
| S6-191462 | IWF preconfigured groups | Harris Corporation | revised | S6-191440 | S6-191535 |
| S6-191463 | IIWF add user to temporary pre-configured group regroup | Harris Corporation | revised | S6-191441 | S6-191569 |
| S6-191464 | Clarification and alignment with publish request information flows | Huawei, Hisilicon | agreed | S6-191392 | - |
| S6-191465 | Architecture requirements group management | Ericsson GmbH, Eurolab | revised | S6-191340 | S6-191541 |
| S6-191466 | Group announcement and join | Ericsson, Samsung | revised | S6-191342 | S6-191542 |
| S6-191467 | Corrections to network resource management procedures | Huawei, Hisilicon | revised | S6-191373 | S6-191543 |
| S6-191468 | Change of service-based interface representation of the functional model for SEAL | Deutsche Telekom, Samsung | revised | - | S6-191544 |
| S6-191469 | Pseudo-CR on CBS for 5GMSG Service | one2many B.V. | revised | S6-191265 | S6-191520 |
| S6-191470 | Remove EN GeoIDs | Ericsson GmbH, Eurolab | revised | S6-191343 | S6-191538 |
| S6-191471 | Corrections on notifications for network monitoring procedure | Huawei, Hisilicon | revised | S6-191393 | S6-191572 |
| S6-191472 | Functionalities with SA2 dependency | Ericsson GmbH, Eurolab | revised | S6-191344 | S6-191539 |
| S6-191473 | Update to network QoS and situation monitoring aligned with SA2 | Huawei, Hisilicon | agreed | S6-191370 | - |
| S6-191474 | Correction to push layer-2 group ID mapping information flow | Huawei, Hisilicon | agreed | S6-191372 | - |
| S6-191475 | Dynamic group API | Huawei, Hisilicon | revised | S6-191371 | S6-191540 |
| S6-191476 | Editorial corrections | Samsung Electronics, Intel | approved | S6-191360 | - |
| S6-191477 | Pseudo-CR on Corrections on Edge Data Network and Edge Enabler Server usage in the key issues | Huawei, Hisilicon | revised | S6-191389 | S6-191547 |
| S6-191478 | Clarifications of 3GPP Edge Architecture “Toolbox” | Qualcomm Incorporated | revised | S6-191300 | S6-191577 |
| S6-191479 | Pseudo-CR on Architectural requirements on Service provisioning and EDN configuration | Samsung Electronics | revised | S6-191361 | S6-191595 |
| S6-191480 | Pseudo-CR Edge Enabler Server discovery and registration | Samsung Electronics | revised | S6-191362 | S6-191613 |
| S6-191481 | Architectural requirements on Edge Application Enablement | Samsung Electronics | revised | S6-191363 | c |
| S6-191482 | Pseudo-CR Edge Application discovery | Samsung Electronics | revised | S6-191364 | S6-191597 |
| S6-191483 | Pseudo-CR Capability exposure to Edge Applications | Samsung Electronics | revised | S6-191365 | S6-191598 |
| S6-191484 | Pseudo-CR Security | Samsung Electronics | revised | S6-191366 | S6-191599 |
| S6-191485 | Architecture correction related with EDGE-4 | Samsung | revised | S6-191337 | S6-191548 |
| S6-191486 | Architecture Update | Samsung | revised | S6-191355 | S6-191574 |
| S6-191487 | Solution 2 update and evaluation | Samsung | revised | S6-191339 | S6-191575 |
| S6-191488 | Pseudo-CR on Solution#5 Update | Samsung R&D Institute UK | revised | S6-191403 | S6-191576 |
| S6-191489 | Solution 3 Update | Samsung | approved | S6-191353 | - |
| S6-191490 | Pseudo-CR on Solution to KI#9 about application relocation | Huawei, Hisilicon | revised | S6-191388 | S6-191578 |
| S6-191491 | New Solution - Registering Edge Enabler Client on Edge Enabler Server | Samsung Electronics | approved | S6-191367 | - |
| S6-191492 | Pseudo-CR on Taking user's consent for capability exposure | Samsung Electronics | revised | S6-191368 | S6-191579 |
| S6-191493 | Edge computing business relationships | Huawei, Hisilicon | approved | S6-191376 | - |
| S6-191494 | Solution to key issue#5 using CAPIF mechanism | Huawei, Hisilicon | revised | S6-191377 | S6-191549 |
| S6-191495 | Pseudo-CR on Deployment model | Huawei, Hisilicon | revised | S6-191387 | S6-191550 |
| S6-191496 | Edge Computing Deployment Scenarios | Samsung | revised | S6-191338 | S6-191552 |
| S6-191497 | Abbreviations | ZTE Corporation | approved | S6-191326 | - |
| S6-191498 | remove 5GACIA reference | ZTE Corporation | approved | S6-191328 | - |
| S6-191499 | IWF user regroup with pre-configured group | Harris Corporation | revised | S6-191442 | S6-191570 |
| S6-191500 | IWF preconfigured broadcast group calls | Harris Corporation | revised | S6-191443 | S6-191571 |
| S6-191501 | IOPS functional model description | Ericsson | revised | S6-191436 | S6-191563 |
| S6-191502 | IOPS functional entities description | Ericsson | revised | S6-191437 | S6-191562 |
| S6-191503 | IOPS reference points | Ericsson | revised | S6-191438 | S6-191564 |
| S6-191504 | IOPS architectural model | Ericsson | revised | S6-191439 | S6-191565 |
| S6-191505 | Introduction of UAS Terminology | QUALCOMM Europe Inc. - Italy | revised | S6-191301 | S6-191566 |
| S6-191506 | LS on UAS-related terminology and model | SA6 | revised | - | S6-191567 |
| S6-191507 | Key issue on usage of SEAL | Huawei, Hisilicon | approved | S6-191375 | - |
| S6-191508 | Point-to-Point IP connectivitity using functional alias to address the target MCData user | Union Inter. Chemins de Fer | agreed | S6-191452 | - |
| S6-191509 | architectural requirements | ZTE Corporation | approved | S6-191330 | - |
| S6-191510 | FF application layer functional model | ZTE Corporation | revised | S6-191333 | S6-191551 |
| S6-191511 | Pseudo-CR on Key issue on IP connectivity and QoS control | Huawei, Hisilicon | revised | S6-191390 | S6-191587 |
| S6-191512 | Proposal for scope | Huawei, Hisilicon | approved | S6-191379 | - |
| S6-191513 | Key Issue on PC5 QoS aspects | Huawei, Hisilicon | revised | S6-191380 | S6-191581 |
| S6-191514 | Key Issue on Uu QoS aspects | Huawei, Hisilicon | revised | S6-191381 | S6-191582 |
| S6-191515 | Key issue on Slicing support for eV2X services | Huawei, Hisilicon | revised | S6-191382 | S6-191583 |
| S6-191516 | Pseudo-CR on Scope of FS\_5GMARCH | China Mobile Com. Corporation | approved | S6-191322 | - |
| S6-191517 | Pseudo-CR on FS\_5GMARCH scenarios general and assumptions | China Mobile Com. Corporation | revised | S6-191323 | S6-191584 |
| S6-191518 | Pseudo-CR on FS\_5GMARCH Point-to-point message scenarios | China Mobile Com. Corporation | revised | S6-191324 | S6-191585 |
| S6-191519 | Pseudo-CR on FS\_5GMARCH delivery status | China Mobile Com. Corporation | revised | S6-191325 | S6-191586 |
| S6-191520 | Pseudo-CR on CBS for 5GMSG Service | one2many B.V. | approved | S6-191469 | - |
| S6-191521 | Introduction of a relevant aviation industry UAS Model | QUALCOMM Europe Inc. - Italy | approved | S6-191302 | - |
| S6-191522 | Fix omission of location services in MCData | AT&T | agreed | S6-191314 | - |
| S6-191523 | Study on Railway Smart Station Services over Mission Critical System | Hansung University, LG Uplus | noted | S6-191348 | - |
| S6-191524 | New SID: Study on enhanced Mission Critical services over 5G multicast-broadcast system | AT&T | revised | S6-191296 | S6-191610 |
| S6-191525 | Reply LS response from SA6 to CT1 on ETSI Plugtest standards issues | SA6 | approved | S6-191406 | - |
| S6-191526 | Corrections to clauses in 10.9 Location Management (on-network) | BDBOS | revised | S6-191411 | S6-191568 |
| S6-191527 | Correct the configuration parameters for the MCPTT emergency procedures | AT&T GNS Belgium SPRL | revised | S6-191412 | S6-191588 |
| S6-191528 | Correct the configuration parameters for the MCVideo emergency alert procedures | AT&T GNS Belgium SPRL | revised | S6-191413 | S6-191589 |
| S6-191529 | Correct the configuration parameters for the MCData emergency alert procedures | AT&T GNS Belgium SPRL | revised | S6-191414 | S6-191590 |
| S6-191530 | Corrections to MCPTT emergency alert procedures | AT&T GNS Belgium SPRL | revised | S6-191416 | S6-191591 |
| S6-191531 | Corrections to the emergency alert procedures | AT&T GNS Belgium SPRL | revised | S6-191417 | S6-191592 |
| S6-191532 | Emergency support for one-to-one SDS | Samsung | agreed | S6-191420 | - |
| S6-191533 | Emergency and imminent peril support for group SDS | Samsung | agreed | S6-191421 | - |
| S6-191534 | Emergency support for off-network SDS | Samsung | agreed | S6-191422 | - |
| S6-191535 | IWF preconfigured groups | Harris Corporation | agreed | S6-191462 | - |
| S6-191536 | IWF temporary group calls | Harris Corporation | agreed | S6-191427 | - |
| S6-191537 | IWF functional alias removal | Harris Corporation, Motorola Solutions | agreed | S6-191431 | - |
| S6-191538 | Remove EN GeoIDs | Ericsson GmbH, Eurolab | agreed | S6-191470 | - |
| S6-191539 | Functionalities with SA2 dependency | Ericsson GmbH, Eurolab | agreed | S6-191472 | - |
| S6-191540 | Dynamic group API | Huawei, Hisilicon | agreed | S6-191475 | - |
| S6-191541 | Architecture requirements group management | Ericsson GmbH, Eurolab | agreed | S6-191465 | - |
| S6-191542 | Group announcement and join | Ericsson, Samsung | agreed | S6-191466 | - |
| S6-191543 | Corrections to network resource management procedures | Huawei, Hisilicon | revised | S6-191467 | S6-191573 |
| S6-191544 | Change of service-based interface representation of the functional model for SEAL | Deutsche Telekom, Samsung | agreed | S6-191468 | - |
| S6-191545 | Pseudo-CR on key issues Non-3GPP access to 5GS | BDBOS | revised | S6-191423 | S6-191609 |
| S6-191546 | Pseudo-CR on solution on functional model to support location information sharing across MC systems | BDBOS | approved | S6-191461 | - |
| S6-191547 | Pseudo-CR on Corrections on Edge Data Network and Edge Enabler Server usage in the key issues | Huawei, Hisilicon | approved | S6-191477 | - |
| S6-191548 | Architecture correction related with EDGE-4 | Samsung | approved | S6-191485 | - |
| S6-191549 | Solution to key issue#5 using CAPIF mechanism | Huawei, Hisilicon | revised | S6-191494 | S6-191602 |
| S6-191550 | Pseudo-CR on Deployment model | Huawei, Hisilicon | revised | S6-191495 | S6-191603 |
| S6-191551 | FF application layer functional model | ZTE Corporation | withdrawn | S6-191510 | - |
| S6-191552 | Edge Computing Deployment Scenarios | Samsung | revised | S6-191496 | S6-191580 |
| S6-191553 | Add call transfer for MCPTT private calls | Kapsch CarrierCom | revised | S6-191447 | S6-191605 |
| S6-191554 | Providing activated functional alias information to the group controlling server | Nokia, Nokia Shanghai Bell | revised | S6-191448 | S6-191606 |
| S6-191555 | Providing the list of functional aliases used by affiliated group members | Nokia, Nokia Shanghai Bell | agreed | S6-191449 | - |
| S6-191556 | Call restrictions when using a specific functional alias for private calls | Nokia, Nokia Shanghai Bell | agreed | S6-191451 | - |
| S6-191557 | SDS addressing based on functional alias | Union Inter. Chemins de Fer | agreed | S6-191453 | - |
| S6-191558 | Remote initiation of Point-to-Point IP connectivity | Union Inter. Chemins de Fer | revised | S6-191455 | S6-191607 |
| S6-191559 | Withdraw Point-to-Point IP connectivity | Union Inter. Chemins de Fer | revised | S6-191456 | S6-191608 |
| S6-191560 | IWF functional alias restoration | Harris Corporation | agreed | S6-191454 | - |
| S6-191561 | Add first-to-answer for interworking with GSM-R | Kapsch CarrierCom | agreed | S6-191459 | - |
| S6-191562 | IOPS functional entities description | Ericsson | agreed | S6-191502 | - |
| S6-191563 | IOPS functional model description | Ericsson | agreed | S6-191501 | - |
| S6-191564 | IOPS reference points | Ericsson | agreed | S6-191503 | - |
| S6-191565 | IOPS architectural model | Ericsson | agreed | S6-191504 | - |
| S6-191566 | Introduction of UAS Terminology | QUALCOMM Europe Inc. - Italy | approved | S6-191505 | - |
| S6-191567 | LS on UAS-related terminology and model | SA6 | revised | S6-191506 | S6-191612 |
| S6-191568 | Corrections to clauses in 10.9 Location Management (on-network) | BDBOS | agreed | S6-191526 | - |
| S6-191569 | IIWF add user to temporary pre-configured group regroup | Harris Corporation | agreed | S6-191463 | - |
| S6-191570 | IWF user regroup with pre-configured group | Harris Corporation | agreed | S6-191499 | - |
| S6-191571 | IWF preconfigured broadcast group calls | Harris Corporation | agreed | S6-191500 | - |
| S6-191572 | Corrections on notifications for network monitoring procedure | Huawei, Hisilicon | agreed | S6-191471 | - |
| S6-191573 | Corrections to network resource management procedures | Huawei, Hisilicon | agreed | S6-191543 | - |
| S6-191574 | Architecture Update | Samsung | approved | S6-191486 | - |
| S6-191575 | Solution 2 update and evaluation | Samsung | revised | S6-191487 | S6-191614 |
| S6-191576 | Pseudo-CR on Solution#5 Update | Samsung R&D Institute UK | revised | S6-191488 | S6-191600 |
| S6-191577 | Clarifications of 3GPP Edge Architecture “Toolbox” | Qualcomm Incorporated | approved | S6-191478 | - |
| S6-191578 | Pseudo-CR on Solution to KI#9 about application relocation | Huawei, Hisilicon | revised | S6-191490 | S6-191601 |
| S6-191579 | Pseudo-CR on Taking user's consent for capability exposure | Samsung Electronics | approved | S6-191492 | - |
| S6-191580 | Edge Computing Deployment Scenarios | Samsung | revised | S6-191552 | S6-191604 |
| S6-191581 | Key Issue on PC5 QoS aspects | Huawei, Hisilicon | approved | S6-191513 | - |
| S6-191582 | Key Issue on Uu QoS aspects | Huawei, Hisilicon | approved | S6-191514 | - |
| S6-191583 | Key issue on Slicing support for eV2X services | Huawei, Hisilicon | approved | S6-191515 | - |
| S6-191584 | Pseudo-CR on FS\_5GMARCH scenarios general and assumptions | China Mobile Com. Corporation | approved | S6-191517 | - |
| S6-191585 | Pseudo-CR on FS\_5GMARCH Point-to-point message scenarios | China Mobile Com. Corporation | approved | S6-191518 | - |
| S6-191586 | Pseudo-CR on FS\_5GMARCH delivery status | China Mobile Com. Corporation | revised | S6-191519 | S6-191618 |
| S6-191587 | Pseudo-CR on Key issue on IP connectivity and QoS control | Huawei, Hisilicon | postponed | S6-191511 | - |
| S6-191588 | Correct the configuration parameters for the MCPTT emergency procedures | AT&T GNS Belgium SPRL | agreed | S6-191527 | - |
| S6-191589 | Correct the configuration parameters for the MCVideo emergency alert procedures | AT&T GNS Belgium SPRL | agreed | S6-191528 | - |
| S6-191590 | Correct the configuration parameters for the MCData emergency alert procedures | AT&T GNS Belgium SPRL | agreed | S6-191529 | - |
| S6-191591 | Corrections to MCPTT emergency alert procedures | AT&T GNS Belgium SPRL | agreed | S6-191530 | - |
| S6-191592 | Corrections to the emergency alert procedures | AT&T GNS Belgium SPRL | revised | S6-191531 | S6-191611 |
| S6-191593 | Work Plan review at SA6#32 | Qualcomm | noted | - | - |
| S6-191594 | EPS bearer for emergency | Samsung | agreed | S6-191419 | - |
| S6-191595 | Pseudo-CR on Architectural requirements on Service provisioning and EDN configuration | Samsung Electronics | approved | S6-191479 | - |
| S6-191596 | Architectural requirements on Edge Application Enablement | Samsung Electronics | approved | S6-191481 | - |
| S6-191597 | Pseudo-CR Edge Application discovery | Samsung Electronics | approved | S6-191482 | - |
| S6-191598 | Pseudo-CR Capability exposure to Edge Applications | Samsung Electronics | approved | S6-191483 | - |
| S6-191599 | Pseudo-CR Security | Samsung Electronics | approved | S6-191484 | - |
| S6-191600 | Pseudo-CR on Solution#5 Update | Samsung R&D Institute UK | approved | S6-191576 | - |
| S6-191601 | Pseudo-CR on Solution to KI#9 about application relocation | Huawei, Hisilicon | approved | S6-191578 | - |
| S6-191602 | Solution to key issue#5 using CAPIF mechanism | Huawei, Hisilicon | approved | S6-191549 | - |
| S6-191603 | Pseudo-CR on Deployment model | Huawei, Hisilicon | approved | S6-191550 | - |
| S6-191604 | Edge Computing Deployment Scenarios | Samsung | approved | S6-191580 | - |
| S6-191605 | Add call transfer for MCPTT private calls | Kapsch CarrierCom | postponed | S6-191553 | - |
| S6-191606 | Providing activated functional alias information to the group controlling server | Nokia, Nokia Shanghai Bell | agreed | S6-191554 | - |
| S6-191607 | Remote initiation of Point-to-Point IP connectivity | Union Inter. Chemins de Fer | revised | S6-191558 | S6-191615 |
| S6-191608 | Withdraw Point-to-Point IP connectivity | Union Inter. Chemins de Fer | revised | S6-191559 | S6-191616 |
| S6-191609 | Pseudo-CR on key issues Non-3GPP access to 5GS | BDBOS | approved | S6-191545 | - |
| S6-191610 | New SID: Study on enhanced Mission Critical services over 5G multicast-broadcast system | AT&T | revised | S6-191524 | S6-191619 |
| S6-191611 | Corrections to the emergency alert procedures | AT&T GNS Belgium SPRL | revised | S6-191592 | S6-191617 |
| S6-191612 | LS on UAS-related terminology and model | SA6 | approved | S6-191567 | - |
| S6-191613 | Pseudo-CR Edge Enabler Server discovery and registration | Samsung Electronics | approved | S6-191480 | - |
| S6-191614 | Solution 2 update and evaluation | Samsung | approved | S6-191575 | - |
| S6-191615 | Remote initiation of Point-to-Point IP connectivity | Union Inter. Chemins de Fer | agreed | S6-191607 | - |
| S6-191616 | Withdraw Point-to-Point IP connectivity | Union Inter. Chemins de Fer | agreed | S6-191608 | - |
| S6-191617 | Corrections to the emergency alert procedures | AT&T GNS Belgium SPRL | agreed | S6-191611 | - |
| S6-191618 | Pseudo-CR on FS\_5GMARCH delivery status | China Mobile Com. Corporation | approved | S6-191586 | - |
| S6-191619 | New SID: Study on Mission Critical services over 5G multicast-broadcast | AT&T | agreed | S6-191610 | - |
| S6-191620 | Proposed TR skeleton for Rel-17 Study on Mission Critical services over 5G multicast-broadcast system | AT&T | approved | S6-191297 | - |

## Annex B: List of change requests

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. Document
 | 1. Title
 | 1. Source
 | 1. Spec
 | 1. CR
 | Rev | 1. Rel
 | 1. Cat
 | 1. WI
 | 1. Decision
 |
| S6-191392 | Clarification and alignment with publish request information flows | Huawei, Hisilicon | 23.222 | 0064 | - | Rel-16 | F | eCAPIF | revised |
| S6-191464 | Clarification and alignment with publish request information flows | Huawei, Hisilicon | 23.222 | 0064 | 1 | Rel-16 | F | eCAPIF | agreed |
| S6-191351 | Configuration of the user notification in temporary group formation | BDBOS | 23.280 | 0182 | 4 | Rel-16 | C | enh2MCPTT | agreed |
| S6-191281 | Providing activated functional alias information to the group controlling server | Nokia, Nokia Shanghai Bell | 23.280 | 0207 | - | Rel-17 | B | eMONASTERY2 | revised |
| S6-191448 | Providing activated functional alias information to the group controlling server | Nokia, Nokia Shanghai Bell | 23.280 | 0207 | 1 | Rel-17 | B | eMONASTERY2 | revised |
| S6-191554 | Providing activated functional alias information to the group controlling server | Nokia, Nokia Shanghai Bell | 23.280 | 0207 | 2 | Rel-17 | B | eMONASTERY2 | revised |
| S6-191606 | Providing activated functional alias information to the group controlling server | Nokia, Nokia Shanghai Bell | 23.280 | 0207 | 3 | Rel-17 | B | eMONASTERY2 | agreed |
| S6-191282 | Providing the list of functional aliases used by affiliated group members | Nokia, Nokia Shanghai Bell | 23.280 | 0208 | - | Rel-17 | B | eMONASTERY2 | revised |
| S6-191449 | Providing the list of functional aliases used by affiliated group members | Nokia, Nokia Shanghai Bell | 23.280 | 0208 | 1 | Rel-17 | B | eMONASTERY2 | revised |
| S6-191555 | Providing the list of functional aliases used by affiliated group members | Nokia, Nokia Shanghai Bell | 23.280 | 0208 | 2 | Rel-17 | B | eMONASTERY2 | agreed |
| S6-191283 | Prevent from de-affiliation when using a specific functional alias | Nokia, Nokia Shanghai Bell | 23.280 | 0209 | - | Rel-17 | B | eMONASTERY2 | revised |
| S6-191450 | Prevent from de-affiliation when using a specific functional alias | Nokia, Nokia Shanghai Bell | 23.280 | 0209 | 1 | Rel-17 | B | eMONASTERY2 | agreed |
| S6-191305 | Corrections to the emergency alert procedures | AT&T GNS Belgium SPRL | 23.280 | 0210 | - | Rel-16 | F | enh2MCPTT | revised |
| S6-191417 | Corrections to the emergency alert procedures | AT&T GNS Belgium SPRL | 23.280 | 0210 | 1 | Rel-16 | F | enh2MCPTT | revised |
| S6-191531 | Corrections to the emergency alert procedures | AT&T GNS Belgium SPRL | 23.280 | 0210 | 2 | Rel-16 | F | enh2MCPTT | revised |
| S6-191592 | Corrections to the emergency alert procedures | AT&T GNS Belgium SPRL | 23.280 | 0210 | 3 | Rel-16 | F | enh2MCPTT | revised |
| S6-191611 | Corrections to the emergency alert procedures | AT&T GNS Belgium SPRL | 23.280 | 0210 | 4 | Rel-16 | F | enh2MCPTT | revised |
| S6-191617 | Corrections to the emergency alert procedures | AT&T GNS Belgium SPRL | 23.280 | 0210 | 5 | Rel-16 | F | enh2MCPTT | agreed |
| S6-191347 | Editorial corrections to clauses in 10.9 Location Management (on-network) | BDBOS | 23.280 | 0211 | - | Rel-16 | F | enh2MCPTT | revised |
| S6-191411 | Editorial corrections to clauses in 10.9 Location Management (on-network) | BDBOS | 23.280 | 0211 | 1 | Rel-16 | F | enh2MCPTT | revised |
| S6-191526 | Corrections to clauses in 10.9 Location Management (on-network) | BDBOS | 23.280 | 0211 | 2 | Rel-16 | F | enh2MCPTT | revised |
| S6-191568 | Corrections to clauses in 10.9 Location Management (on-network) | BDBOS | 23.280 | 0211 | 3 | Rel-16 | F | enh2MCPTT | agreed |
| S6-191395 | IOPS update to introduction section | Ericsson | 23.280 | 0212 | - | Rel-17 | B | MCIOPS | revised |
| S6-191433 | IOPS update to introduction section | Ericsson | 23.280 | 0212 | 1 | Rel-17 | B | MCIOPS | agreed |
| S6-191396 | IOPS related definitions | Ericsson | 23.280 | 0213 | - | Rel-17 | B | MCIOPS | revised |
| S6-191434 | IOPS related definitions | Ericsson | 23.280 | 0213 | 1 | Rel-17 | B | MCIOPS | agreed |
| S6-191397 | IOPS related abbreviations | Ericsson | 23.280 | 0214 | - | Rel-17 | B | MCIOPS | revised |
| S6-191435 | IOPS related abbreviations | Ericsson | 23.280 | 0214 | 1 | Rel-17 | B | MCIOPS | agreed |
| S6-191398 | IOPS functional model description | Ericsson | 23.280 | 0215 | - | Rel-17 | B | MCIOPS | revised |
| S6-191436 | IOPS functional model description | Ericsson | 23.280 | 0215 | 1 | Rel-17 | B | MCIOPS | revised |
| S6-191501 | IOPS functional model description | Ericsson | 23.280 | 0215 | 2 | Rel-17 | B | MCIOPS | revised |
| S6-191563 | IOPS functional model description | Ericsson | 23.280 | 0215 | 3 | Rel-17 | B | MCIOPS | agreed |
| S6-191399 | IOPS functional entities description | Ericsson | 23.280 | 0216 | - | Rel-17 | B | MCIOPS | revised |
| S6-191437 | IOPS functional entities description | Ericsson | 23.280 | 0216 | 1 | Rel-17 | B | MCIOPS | revised |
| S6-191502 | IOPS functional entities description | Ericsson | 23.280 | 0216 | 2 | Rel-17 | B | MCIOPS | revised |
| S6-191562 | IOPS functional entities description | Ericsson | 23.280 | 0216 | 3 | Rel-17 | B | MCIOPS | agreed |
| S6-191400 | IOPS reference points | Ericsson | 23.280 | 0217 | - | Rel-17 | B | MCIOPS | revised |
| S6-191438 | IOPS reference points | Ericsson | 23.280 | 0217 | 1 | Rel-17 | B | MCIOPS | revised |
| S6-191503 | IOPS reference points | Ericsson | 23.280 | 0217 | 2 | Rel-17 | B | MCIOPS | revised |
| S6-191564 | IOPS reference points | Ericsson | 23.280 | 0217 | 3 | Rel-17 | B | MCIOPS | agreed |
| S6-191401 | IOPS architectural model | Ericsson | 23.280 | 0218 | - | Rel-17 | B | MCIOPS | revised |
| S6-191439 | IOPS architectural model | Ericsson | 23.280 | 0218 | 1 | Rel-17 | B | MCIOPS | revised |
| S6-191504 | IOPS architectural model | Ericsson | 23.280 | 0218 | 2 | Rel-17 | B | MCIOPS | revised |
| S6-191565 | IOPS architectural model | Ericsson | 23.280 | 0218 | 3 | Rel-17 | B | MCIOPS | agreed |
| S6-191267 | Correct the configuration parameters for the MCVideo emergency alert procedures | AT&T GNS Belgium SPRL | 23.281 | 0133 | - | Rel-16 | F | enh2MCPTT | revised |
| S6-191413 | Correct the configuration parameters for the MCVideo emergency alert procedures | AT&T GNS Belgium SPRL | 23.281 | 0133 | 1 | Rel-16 | F | enh2MCPTT | revised |
| S6-191528 | Correct the configuration parameters for the MCVideo emergency alert procedures | AT&T GNS Belgium SPRL | 23.281 | 0133 | 2 | Rel-16 | F | enh2MCPTT | revised |
| S6-191589 | Correct the configuration parameters for the MCVideo emergency alert procedures | AT&T GNS Belgium SPRL | 23.281 | 0133 | 3 | Rel-16 | F | enh2MCPTT | agreed |
| S6-191277 | Communication priority for functional aliases | Nokia, Nokia Shanghai Bell | 23.281 | 0134 | - | Rel-17 | B | eMONASTERY2 | revised |
| S6-191444 | Communication priority for functional aliases | Nokia, Nokia Shanghai Bell | 23.281 | 0134 | 1 | Rel-17 | B | eMONASTERY2 | agreed |
| S6-191268 | Correct the configuration parameters for the MCData emergency alert procedures | AT&T GNS Belgium SPRL | 23.282 | 0161 | - | Rel-16 | F | eMCData2 | revised |
| S6-191414 | Correct the configuration parameters for the MCData emergency alert procedures | AT&T GNS Belgium SPRL | 23.282 | 0161 | 1 | Rel-16 | F | eMCData2 | revised |
| S6-191529 | Correct the configuration parameters for the MCData emergency alert procedures | AT&T GNS Belgium SPRL | 23.282 | 0161 | 2 | Rel-16 | F | eMCData2 | revised |
| S6-191590 | Correct the configuration parameters for the MCData emergency alert procedures | AT&T GNS Belgium SPRL | 23.282 | 0161 | 3 | Rel-16 | F | eMCData2 | agreed |
| S6-191270 | Point-to-Point IP connectivitity using functional alias to address the target MCData user | Union Inter. Chemins de Fer | 23.282 | 0162 | - | Rel-17 | B | eMONASTERY2 | revised |
| S6-191452 | Point-to-Point IP connectivitity using functional alias to address the target MCData user | Union Inter. Chemins de Fer | 23.282 | 0162 | 1 | Rel-17 | B | eMONASTERY2 | revised |
| S6-191508 | Point-to-Point IP connectivitity using functional alias to address the target MCData user | Union Inter. Chemins de Fer | 23.282 | 0162 | 2 | Rel-17 | B | eMONASTERY2 | agreed |
| S6-191271 | SDS addressing based on functional alias | Union Inter. Chemins de Fer | 23.282 | 0163 | - | Rel-17 | B | eMONASTERY2 | revised |
| S6-191453 | SDS addressing based on functional alias | Union Inter. Chemins de Fer | 23.282 | 0163 | 1 | Rel-17 | B | eMONASTERY2 | revised |
| S6-191557 | SDS addressing based on functional alias | Union Inter. Chemins de Fer | 23.282 | 0163 | 2 | Rel-17 | B | eMONASTERY2 | agreed |
| S6-191272 | Remote initiation of Point-to-Point IP connectivity | Union Inter. Chemins de Fer | 23.282 | 0164 | - | Rel-17 | B | eMONASTERY2 | revised |
| S6-191455 | Remote initiation of Point-to-Point IP connectivity | Union Inter. Chemins de Fer | 23.282 | 0164 | 1 | Rel-17 | B | eMONASTERY2 | revised |
| S6-191558 | Remote initiation of Point-to-Point IP connectivity | Union Inter. Chemins de Fer | 23.282 | 0164 | 2 | Rel-17 | B | eMONASTERY2 | revised |
| S6-191607 | Remote initiation of Point-to-Point IP connectivity | Union Inter. Chemins de Fer | 23.282 | 0164 | 3 | Rel-17 | B | eMONASTERY2 | revised |
| S6-191615 | Remote initiation of Point-to-Point IP connectivity | Union Inter. Chemins de Fer | 23.282 | 0164 | 4 | Rel-17 | B | eMONASTERY2 | agreed |
| S6-191273 | Withdraw Point-to-Point IP connectivity | Union Inter. Chemins de Fer | 23.282 | 0165 | - | Rel-17 | B | eMONASTERY2 | revised |
| S6-191456 | Withdraw Point-to-Point IP connectivity | Union Inter. Chemins de Fer | 23.282 | 0165 | 1 | Rel-17 | B | eMONASTERY2 | revised |
| S6-191559 | Withdraw Point-to-Point IP connectivity | Union Inter. Chemins de Fer | 23.282 | 0165 | 2 | Rel-17 | B | eMONASTERY2 | revised |
| S6-191608 | Withdraw Point-to-Point IP connectivity | Union Inter. Chemins de Fer | 23.282 | 0165 | 3 | Rel-17 | B | eMONASTERY2 | revised |
| S6-191616 | Withdraw Point-to-Point IP connectivity | Union Inter. Chemins de Fer | 23.282 | 0165 | 4 | Rel-17 | B | eMONASTERY2 | agreed |
| S6-191278 | Communication priority for functional aliases | Nokia, Nokia Shanghai Bell | 23.282 | 0166 | - | Rel-17 | B | eMONASTERY2 | revised |
| S6-191445 | Communication priority for functional aliases | Nokia, Nokia Shanghai Bell | 23.282 | 0166 | 1 | Rel-17 | B | eMONASTERY2 | agreed |
| S6-191312 | Fix omission of location services in MCData  | AT&T | 23.282 | 0167 | - | Rel-14 | F | MCImp-MCData | not pursued |
| S6-191313 | Fix omission of location services in MCData | AT&T | 23.282 | 0168 | - | Rel-15 | A | MCImp-MCData | not pursued |
| S6-191314 | Fix omission of location services in MCData  | AT&T | 23.282 | 0169 | - | Rel-16 | A | MCImp-MCData | revised |
| S6-191522 | Fix omission of location services in MCData | AT&T | 23.282 | 0169 | 1 | Rel-16 | F | MCImp-MCData | agreed |
| S6-191356 | EPS bearer for emergency | Samsung | 23.282 | 0170 | - | Rel-16 | B | eMCData2 | revised |
| S6-191419 | EPS bearer for emergency | Samsung | 23.282 | 0170 | 1 | Rel-16 | B | eMCData2 | revised |
| S6-191594 | EPS bearer for emergency | Samsung | 23.282 | 0170 | 2 | Rel-16 | B | eMCData2 | agreed |
| S6-191357 | Emergency support for one-to-one SDS | Samsung | 23.282 | 0171 | - | Rel-16 | B | eMCData2 | revised |
| S6-191420 | Emergency support for one-to-one SDS | Samsung | 23.282 | 0171 | 1 | Rel-16 | B | eMCData2 | revised |
| S6-191532 | Emergency support for one-to-one SDS | Samsung | 23.282 | 0171 | 2 | Rel-16 | B | eMCData2 | agreed |
| S6-191358 | Emergency and imminent peril support for group SDS | Samsung | 23.282 | 0172 | - | Rel-16 | B | eMCData2 | revised |
| S6-191421 | Emergency and imminent peril support for group SDS | Samsung | 23.282 | 0172 | 1 | Rel-16 | B | eMCData2 | revised |
| S6-191533 | Emergency and imminent peril support for group SDS | Samsung | 23.282 | 0172 | 2 | Rel-16 | B | eMCData2 | agreed |
| S6-191359 | Emergency support for off-network SDS | Samsung | 23.282 | 0173 | - | Rel-16 | B | eMCData2 | revised |
| S6-191422 | Emergency support for off-network SDS | Samsung | 23.282 | 0173 | 1 | Rel-16 | B | eMCData2 | revised |
| S6-191534 | Emergency support for off-network SDS | Samsung | 23.282 | 0173 | 2 | Rel-16 | B | eMCData2 | agreed |
| S6-191274 | Functional alias for Private Call | Union Inter. Chemins de Fer | 23.283 | 0036 | 1 | Rel-17 | B | eMONASTERY2 | revised |
| S6-191457 | Functional alias for Private Call | Union Inter. Chemins de Fer | 23.283 | 0036 | 2 | Rel-17 | B | eMONASTERY2 | agreed |
| S6-191275 | Functional alias for MCPTT Floor Control | Union Inter. Chemins de Fer | 23.283 | 0037 | 1 | Rel-17 | B | eMONASTERY2 | revised |
| S6-191458 | Functional alias for MCPTT Floor Control | Union Inter. Chemins de Fer | 23.283 | 0037 | 2 | Rel-17 | B | eMONASTERY2 | agreed |
| S6-191284 | IWF preconfigured groups | Harris Corporation | 23.283 | 0038 | - | Rel-16 | B | eMCCI | revised |
| S6-191424 | IWF preconfigured groups | Harris Corporation | 23.283 | 0038 | 1 | Rel-16 | B | eMCCI | revised |
| S6-191440 | IWF preconfigured groups | Harris Corporation | 23.283 | 0038 | 2 | Rel-16 | B | eMCCI | revised |
| S6-191462 | IWF preconfigured groups | Harris Corporation | 23.283 | 0038 | 3 | Rel-16 | B | eMCCI | revised |
| S6-191535 | IWF preconfigured groups | Harris Corporation | 23.283 | 0038 | 4 | Rel-16 | B | eMCCI | agreed |
| S6-191285 | IWF add user to temporary group | Harris Corporation | 23.283 | 0039 | - | Rel-16 | B | eMCCI | revised |
| S6-191425 | IWF add user to temporary group | Harris Corporation | 23.283 | 0039 | 1 | Rel-16 | B | eMCCI | revised |
| S6-191441 | IWF add user to temporary group | Harris Corporation | 23.283 | 0039 | 2 | Rel-16 | B | eMCCI | revised |
| S6-191463 | IIWF add user to temporary pre-configured group regroup | Harris Corporation | 23.283 | 0039 | 3 | Rel-16 | B | eMCCI | revised |
| S6-191569 | IIWF add user to temporary pre-configured group regroup | Harris Corporation | 23.283 | 0039 | 4 | Rel-16 | B | eMCCI | agreed |
| S6-191286 | IWF user regroup creation | Harris Corporation | 23.283 | 0040 | - | Rel-16 | B | eMCCI | revised |
| S6-191426 | IWF user regroup creation | Harris Corporation | 23.283 | 0040 | 1 | Rel-16 | B | eMCCI | withdrawn |
| S6-191287 | IWF temporary group calls | Harris Corporation | 23.283 | 0041 | - | Rel-16 | B | eMCCI | revised |
| S6-191427 | IWF temporary group calls | Harris Corporation | 23.283 | 0041 | 1 | Rel-16 | B | eMCCI | revised |
| S6-191536 | IWF temporary group calls | Harris Corporation | 23.283 | 0041 | 2 | Rel-16 | B | eMCCI | agreed |
| S6-191288 | IWF user regroup with preconfigured group | Harris Corporation | 23.283 | 0042 | - | Rel-16 | B | eMCCI | revised |
| S6-191428 | IWF user regroup with preconfigured group | Harris Corporation | 23.283 | 0042 | 1 | Rel-16 | B | eMCCI | revised |
| S6-191442 | IWF user regroup with preconfigured group | Harris Corporation | 23.283 | 0042 | 2 | Rel-16 | B | eMCCI | revised |
| S6-191499 | IWF user regroup with pre-configured group | Harris Corporation | 23.283 | 0042 | 3 | Rel-16 | B | eMCCI | revised |
| S6-191570 | IWF user regroup with pre-configured group | Harris Corporation | 23.283 | 0042 | 4 | Rel-16 | B | eMCCI | agreed |
| S6-191289 | IWF group deletion | Harris Corporation | 23.283 | 0043 | - | Rel-16 | B | eMCCI | revised |
| S6-191429 | IWF group deletion | Harris Corporation | 23.283 | 0043 | 1 | Rel-16 | B | eMCCI | withdrawn |
| S6-191290 | IWF preconfigured broadcast group calls | Harris Corporation | 23.283 | 0044 | - | Rel-16 | B | eMCCI | revised |
| S6-191430 | IWF preconfigured broadcast group calls | Harris Corporation | 23.283 | 0044 | 1 | Rel-16 | B | eMCCI | revised |
| S6-191443 | IWF preconfigured broadcast group calls | Harris Corporation | 23.283 | 0044 | 2 | Rel-16 | B | eMCCI | revised |
| S6-191500 | IWF preconfigured broadcast group calls | Harris Corporation | 23.283 | 0044 | 3 | Rel-16 | B | eMCCI | revised |
| S6-191571 | IWF preconfigured broadcast group calls | Harris Corporation | 23.283 | 0044 | 4 | Rel-16 | B | eMCCI | agreed |
| S6-191291 | IWF functional alias removal | Harris Corporation, Motorola Solutions | 23.283 | 0045 | - | Rel-16 | F | MONASTERY2 | revised |
| S6-191431 | IWF functional alias removal | Harris Corporation, Motorola Solutions | 23.283 | 0045 | 1 | Rel-16 | C | eMCCI | revised |
| S6-191537 | IWF functional alias removal | Harris Corporation, Motorola Solutions | 23.283 | 0045 | 2 | Rel-16 | C | eMCCI | agreed |
| S6-191292 | IWF functional alias restoration | Harris Corporation | 23.283 | 0046 | - | Rel-17 | B | eMONASTERY2 | revised |
| S6-191454 | IWF functional alias restoration | Harris Corporation | 23.283 | 0046 | 1 | Rel-17 | B | eMONASTERY2 | revised |
| S6-191560 | IWF functional alias restoration | Harris Corporation | 23.283 | 0046 | 2 | Rel-17 | B | eMONASTERY2 | agreed |
| S6-191293 | IWF identities wording correction | Harris Corporation | 23.283 | 0047 | - | Rel-16 | F | MONASTERY2 | revised |
| S6-191432 | IWF identities wording correction | Harris Corporation, Motorola Solutions | 23.283 | 0047 | 1 | Rel-16 | F | MONASTERY2 | agreed |
| S6-191306 | Add first-to-answer for interworking with GSM-R | Kapsch CarrierCom | 23.283 | 0048 | - | Rel-17 | B | eMONASTERY2 | revised |
| S6-191459 | Add first-to-answer for interworking with GSM-R | Kapsch CarrierCom | 23.283 | 0048 | 1 | Rel-17 | B | eMONASTERY2 | revised |
| S6-191561 | Add first-to-answer for interworking with GSM-R | Kapsch CarrierCom | 23.283 | 0048 | 2 | Rel-17 | B | eMONASTERY2 | agreed |
| S6-191307 | Add enhancements for interworking of MCPTT group calls with GSM-R | Kapsch CarrierCom | 23.283 | 0049 | - | Rel-17 | B | eMONASTERY2 | postponed |
| S6-191308 | Add enhancements for interworking of MCData SDS with GSM-R SMS | Kapsch CarrierCom | 23.283 | 0050 | - | Rel-17 | B | eMONASTERY2 | revised |
| S6-191460 | Add enhancements for interworking of MCData SDS with GSM-R SMS | Kapsch CarrierCom | 23.283 | 0050 | 1 | Rel-17 | B | eMONASTERY2 | agreed |
| S6-191343 | Remove EN GeoIDs | Ericsson GmbH, Eurolab | 23.286 | 0001 | - | Rel-16 | D | V2XAPP | revised |
| S6-191470 | Remove EN GeoIDs | Ericsson GmbH, Eurolab | 23.286 | 0001 | 1 | Rel-16 | F | V2XAPP | revised |
| S6-191538 | Remove EN GeoIDs | Ericsson GmbH, Eurolab | 23.286 | 0001 | 2 | Rel-16 | D | V2XAPP | agreed |
| S6-191344 | Functionalities with SA2 dependency | Ericsson GmbH, Eurolab | 23.286 | 0002 | - | Rel-16 | F | V2XAPP | revised |
| S6-191472 | Functionalities with SA2 dependency | Ericsson GmbH, Eurolab | 23.286 | 0002 | 1 | Rel-16 | F | V2XAPP | revised |
| S6-191539 | Functionalities with SA2 dependency | Ericsson GmbH, Eurolab | 23.286 | 0002 | 2 | Rel-16 | F | V2XAPP | agreed |
| S6-191369 | Update to functional model | Huawei, Hisilicon | 23.286 | 0003 | - | Rel-16 | F | V2XAPP | agreed |
| S6-191370 | Update to network QoS and situation monitoring aligned with SA2 | Huawei, Hisilicon | 23.286 | 0004 | - | Rel-16 | F | V2XAPP | revised |
| S6-191473 | Update to network QoS and situation monitoring aligned with SA2 | Huawei, Hisilicon | 23.286 | 0004 | 1 | Rel-16 | F | V2XAPP | agreed |
| S6-191371 | Dynamic group API | Huawei, Hisilicon | 23.286 | 0005 | - | Rel-16 | F | V2XAPP | revised |
| S6-191475 | Dynamic group API | Huawei, Hisilicon | 23.286 | 0005 | 1 | Rel-16 | F | V2XAPP | revised |
| S6-191540 | Dynamic group API | Huawei, Hisilicon | 23.286 | 0005 | 2 | Rel-16 | F | V2XAPP | agreed |
| S6-191372 | Correction to push layer-2 group ID mapping information flow | Huawei, Hisilicon | 23.286 | 0006 | - | Rel-16 | F | V2XAPP | revised |
| S6-191474 | Correction to push layer-2 group ID mapping information flow | Huawei, Hisilicon | 23.286 | 0006 | 1 | Rel-16 | F | V2XAPP | agreed |
| S6-191393 | Corrections on notifications for network monitoring procedure | Huawei, Hisilicon | 23.286 | 0007 | - | Rel-16 | F | V2XAPP | revised |
| S6-191471 | Corrections on notifications for network monitoring procedure | Huawei, Hisilicon | 23.286 | 0007 | 1 | Rel-16 | F | V2XAPP | revised |
| S6-191572 | Corrections on notifications for network monitoring procedure | Huawei, Hisilicon | 23.286 | 0007 | 2 | Rel-16 | F | V2XAPP | agreed |
| S6-191264 | Correct the error message is sent in the MCPTT emergency group call procedures | AT&T GNS Belgium SPRL | 23.379 | 0223 | - | Rel-16 | F | enh2MCPTT | revised |
| S6-191418 | Correct the error message is sent in the MCPTT emergency group call procedures | AT&T GNS Belgium SPRL | 23.379 | 0223 | 1 | Rel-16 | F | enh2MCPTT | agreed |
| S6-191266 | Correct the configuration parameters for the MCPTT emergency procedures | AT&T GNS Belgium SPRL | 23.379 | 0224 | - | Rel-16 | F | enh2MCPTT | revised |
| S6-191412 | Correct the configuration parameters for the MCPTT emergency procedures | AT&T GNS Belgium SPRL | 23.379 | 0224 | 1 | Rel-16 | F | enh2MCPTT | revised |
| S6-191527 | Correct the configuration parameters for the MCPTT emergency procedures | AT&T GNS Belgium SPRL | 23.379 | 0224 | 2 | Rel-16 | F | enh2MCPTT | revised |
| S6-191588 | Correct the configuration parameters for the MCPTT emergency procedures | AT&T GNS Belgium SPRL | 23.379 | 0224 | 3 | Rel-16 | F | enh2MCPTT | agreed |
| S6-191279 | Support of functional aliases as called party address in MCPTT emergency private calls | Nokia, Nokia Shanghai Bell | 23.379 | 0225 | - | Rel-17 | B | eMONASTERY2 | postponed |
| S6-191280 | Call restrictions when using a specific functional alias for private calls | Nokia, Nokia Shanghai Bell | 23.379 | 0226 | - | Rel-17 | B | eMONASTERY2 | revised |
| S6-191451 | Call restrictions when using a specific functional alias for private calls | Nokia, Nokia Shanghai Bell | 23.379 | 0226 | 1 | Rel-17 | B | eMONASTERY2 | revised |
| S6-191556 | Call restrictions when using a specific functional alias for private calls | Nokia, Nokia Shanghai Bell | 23.379 | 0226 | 2 | Rel-17 | B | eMONASTERY2 | agreed |
| S6-191304 | Corrections to MCPTT emergency alert procedures | AT&T GNS Belgium SPRL | 23.379 | 0227 | - | Rel-16 | F | enh2MCPTT | revised |
| S6-191416 | Corrections to MCPTT emergency alert procedures | AT&T GNS Belgium SPRL | 23.379 | 0227 | 1 | Rel-16 | F | enh2MCPTT | revised |
| S6-191530 | Corrections to MCPTT emergency alert procedures | AT&T GNS Belgium SPRL | 23.379 | 0227 | 2 | Rel-16 | F | enh2MCPTT | revised |
| S6-191591 | Corrections to MCPTT emergency alert procedures | AT&T GNS Belgium SPRL | 23.379 | 0227 | 3 | Rel-16 | F | enh2MCPTT | agreed |
| S6-191309 | Add condition “not reachable” to call forwaring for MCPTT private calls | Kapsch CarrierCom | 23.379 | 0228 | - | Rel-16 | F | eMONASTERY2 | revised |
| S6-191446 | Add condition “not reachable” to call forwarding for MCPTT private calls | Kapsch CarrierCom | 23.379 | 0228 | 1 | Rel-16 | F | MONASTERY2 | agreed |
| S6-191310 | Add call transfer for MCPTT private calls | Kapsch CarrierCom | 23.379 | 0229 | - | Rel-17 | B | eMONASTERY2 | revised |
| S6-191447 | Add call transfer for MCPTT private calls | Kapsch CarrierCom | 23.379 | 0229 | 1 | Rel-17 | B | eMONASTERY2 | revised |
| S6-191553 | Add call transfer for MCPTT private calls | Kapsch CarrierCom | 23.379 | 0229 | 2 | Rel-17 | B | eMONASTERY2 | revised |
| S6-191605 | Add call transfer for MCPTT private calls | Kapsch CarrierCom | 23.379 | 0229 | 3 | Rel-17 | B | eMONASTERY2 | postponed |
| S6-191316 | Functional alias as called party in private call | TD Tech Ltd | 23.379 | 0230 | - | Rel-17 | B | eMONASTERY2 | not pursued |
| S6-191340 | Architecture requirements group management | Ericsson GmbH, Eurolab | 23.434 | 0001 | - | Rel-16 | F | SEAL | revised |
| S6-191465 | Architecture requirements group management | Ericsson GmbH, Eurolab | 23.434 | 0001 | 1 | Rel-16 | F | SEAL | revised |
| S6-191541 | Architecture requirements group management | Ericsson GmbH, Eurolab | 23.434 | 0001 | 2 | Rel-16 | F | SEAL | agreed |
| S6-191342 | Group announcement and join | Ericsson GmbH, Eurolab | 23.434 | 0002 | - | Rel-16 | F | SEAL | revised |
| S6-191466 | Group announcement and join | Ericsson, Samsung | 23.434 | 0002 | 1 | Rel-16 | F | SEAL | revised |
| S6-191542 | Group announcement and join | Ericsson, Samsung | 23.434 | 0002 | 2 | Rel-16 | F | SEAL | agreed |
| S6-191373 | Corrections to network resource management procedures | Huawei, Hisilicon | 23.434 | 0003 | - | Rel-16 | F | SEAL | revised |
| S6-191467 | Corrections to network resource management procedures | Huawei, Hisilicon | 23.434 | 0003 | 1 | Rel-16 | F | SEAL | revised |
| S6-191543 | Corrections to network resource management procedures | Huawei, Hisilicon | 23.434 | 0003 | 2 | Rel-16 | F | SEAL | revised |
| S6-191573 | Corrections to network resource management procedures | Huawei, Hisilicon | 23.434 | 0003 | 3 | Rel-16 | F | SEAL | agreed |
| S6-191374 | N5 reference point description | Huawei, Hisilicon | 23.434 | 0004 | - | Rel-16 | F | SEAL | agreed |
| S6-191385 | Change of service-based interface representation of the functional model for SEAL | T-Mobile Austria GmbH | 23.434 | 0005 | - | Rel-16 | F | SEAL | withdrawn |
| S6-191468 | Change of service-based interface representation of the functional model for SEAL | Deutsche Telekom, Samsung | 23.434 | 0006 | - | Rel-16 | F | SEAL | revised |
| S6-191544 | Change of service-based interface representation of the functional model for SEAL | Deutsche Telekom, Samsung | 23.434 | 0006 | 1 | Rel-16 | F | SEAL | agreed |

## Annex C: Lists of liaisons

### C1: Incoming liaison statements

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1. Document
 | 1. Original
 | 1. Title
 | 1. From
 | 1. Decision
 | 1. Reply TDoc
 |
| S6-191262 |  | LS on ETSI Plugtest standards Issues | CT1 | replied to | S6-191525 |
| S6-191263 | C1-193738 | LS on clarification for usage of MC Service emergency state for MCData service | CT1 | replied to | S6-191407 |
| S6-191402 | S3-192332 | LS response to CT1 on ETSI Plugtest standards issues | SA3 | noted | (none) |
| S6-191404 | MEC(19)000264r1 | LS to 3GPP SA6 on Study on Application Architecture for enabling Edge Applications | ETSI ISG MEC | noted | (none) |

### C2: Outgoing liaison statements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1. Document
 | 1. Title
 | 1. To
 | 1. Cc
 | 1. reply to i/c LS
 |
| S6-191407 | Reply LS on clarification for usage of MC Service emergency state for MCData service | CT1 | - | S6-191263 |
| S6-191525 | Reply LS response from SA6 to CT1 on ETSI Plugtest standards issues | CT1 | SA3 | S6-191262 |
| S6-191612 | LS on UAS-related terminology and model | SA1 | - | - |

## Annex D: List of agreed/approved new and revised Work Items

|  |  |  |  |
| --- | --- | --- | --- |
| 1. Document
 | 1. Title
 | 1. Source
 | 1. new/revised
 |
| S6-191619 | New SID: Study on Mission Critical services over 5G multicast-broadcast | AT&T | SID new |

## Annex E: List of draft Technical Specifications and Reports

None

## Annex F: List of action items

None

## Annex G: List of decisions

None

## Annex H: List of participants

|  |  |  |
| --- | --- | --- |
| 1. Name
 | 1. Representing
 | Status (OP) |
| Aleksiev, Vasil | T-Mobile Austria GmbH | 3GPPMEMBER (ETSI) |
| Alnås, Svante | Sony Corporation | 3GPPMEMBER (ARIB) |
| Amogh, Niranth | Huawei Technologies (Korea) | 3GPPMEMBER (TTA) |
| Beicht, Peter | Kapsch CarrierCom France S.A.S | 3GPPMEMBER (ETSI) |
| Burdinat, Christophe | Expway | 3GPPMEMBER (ETSI) |
| Chen, Chiung-jang | CHTTL | 3GPPMEMBER (ETSI) |
| Chen, Ying | TD Tech Ltd | 3GPPMEMBER (CCSA) |
| Chitturi, Suresh | Samsung Electronics Czech | 3GPPMEMBER (ETSI) |
| Ebrahim Rezagah, Roya | Fraunhofer HHI | 3GPPMEMBER (ETSI) |
| El Essaili, Ali | Ericsson GmbH, Eurolab | 3GPPMEMBER (ETSI) |
| Faccin, | QUALCOMM Europe Inc. - Italy | 3GPPMEMBER (ETSI) |
| Franklin, Antony | Indian Institute of Tech (H) | 3GPPMEMBER (TSDSI) |
| Ge, Cuili | HiSilicon Technologies Co. Ltd | 3GPPMEMBER (CCSA) |
| GRUET, Christophe | Kapsch CarrierCom France S.A.S | 3GPPMEMBER (ETSI) |
| Gupta, Nishant | Tianjin Samsung Telecom | 3GPPMEMBER (CCSA) |
| Han, Andrew Min-gyu | Hansung University | 3GPPMEMBER (TTA |
| Huzur, Saran | Indian Institute of Tech (D) | 3GPPMEMBER (TSDSI) |
| Isomäki, Markus | Nokia Korea | 3GPPMEMBER (TTA |
| Janky, William | FirstNet | 3GPPMEMBER (ATIS) |
| Jiao, Jerry | ZTE Trunking Technology Corp. | 3GPPMEMBER (CCSA) |
| Koo, Yeon Sang | LG Uplus | 3GPPMEMBER (TTA) |
| Lazara, Dominic | Motorola Solutions Germany | 3GPPMEMBER (ETSI) |
| Lee, Eunseong | LG Uplus | 3GPPMEMBER (TTA) |
| Lee, Jicheol | SAMSUNG R&D INSTITUTE JAPAN | 3GPPMEMBER (ARIB) |
| Li, Alice | VODAFONE Group Plc | 3GPPMEMBER (ETSI) |
| Libunao, Gerardo | Verizon UK Ltd | 3GPPMEMBER (ETSI) |
| Lin, Lin | China Unicom | 3GPPMEMBER (CCSA) |
| Liu, Yue | China Mobile Com. Corporation | 3GPPMEMBER (CCSA) |
| Loidl, Karin | Fraunhofer IIS | 3GPPMEMBER (ETSI) |
| Mattsson, Bernt | ETSI | 3GPPORG\_REP (ETSI) |
| Mayer, Georg | Huawei Technologies Co. Ltd. | 3GPPMEMBER (ETSI) |
| Merrick, Robert | HOME OFFICE | 3GPPMEMBER (ETSI) |
| Mohajeri, Shahram | AT&T GNS Belgium SPRL | 3GPPMEMBER (ETSI) |
| Monnes, Peter | Harris Corporation | 3GPPMEMBER (ATIS) |
| Moses, Danny | Intel Finland Oy | 3GPPMEMBER (ETSI) |
| Oettl, Martin | Nokia Japan | 3GPPMEMBER (ARIB) |
| Oprescu, Val | AT&T | 3GPPMEMBER (ATIS) |
| Pateromichelakis, Emmanouil | HUAWEI TECH. GmbH | 3GPPMEMBER (ETSI) |
| Pattan, Basavaraj (Basu) | BEIJING SAMSUNG TELECOM R&D | 3GPPMEMBER (CCSA) |
| Pison, Laurent | Bull SAS | 3GPPMEMBER (ETSI) |
| Rayne, Mark | Sepura PLC | 3GPPMEMBER (ETSI) |
| Samdanis, Konstantinos | Nokia Solutions & Networks (I) | 3GPPMEMBER (TSDSI) |
| Sanders, Peter | one2many B.V. | 3GPPMEMBER (ETSI) |
| Scarrone, Enrico | TELECOM ITALIA S.p.A. | 3GPPMEMBER (ETSI) |
| Shih, Jerry | AT&T GNS Belgium SPRL | 3GPPMEMBER (ETSI) |
| Solano, Camilo | Ericsson LM | 3GPPMEMBER (ETSI) |
| Soloway, Alan | Qualcomm UK Ltd | 3GPPMEMBER (ETSI) |
| Toobe, Jens | BDBOS | 3GPPMEMBER (ETSI) |
| Verweij, Kees | The Police of the Netherlands | 3GPPMEMBER (ETSI) |
| Vialen, Jukka | Airbus DS SLC | 3GPPMEMBER (ETSI) |
| Wendler, Ingo | Union Inter. Chemins de Fer | 3GPPMEMBER (ETSI) |
| Woodward, Tim | Motorola Solutions Danmark A/S | 3GPPMEMBER (ETSI) |
| Yang, Yanmei | HUAWEI Technologies Japan K.K. | 3GPPMEMBER (ARIB) |

## Annex I: List of future meetings

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Title** | **Start date** | **End date (OP)** | **Town** | **Country** | **Reference** |
| 3GPPSA6#32 | 08/07/2019 09:00:00 | 12/07/2019 17:30:00 | Rome | IT | S6-32 |
| 3GPPSA6#33 | 02/09/2019 09:00:00 | 06/09/2019 17:30:00 | Sophia Antipolis | FR | S6-33 |
| 3GPPSA6#34 | 11/11/2019 09:00:00 | 15/11/2019 17:30:00 | Reno, Nevada | US | S6-34 |
| 3GPPSA6#35 | 13/01/2020 09:00:00 | 17/01/2020 17:30:00 | TBC | IN | S6-35 |
| 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 | Espoo | FI | S6-38 |
| 3GPPSA6#39 | 24/08/2020 09:00:00 | 28/08/2020 17:30:00 | Wroclaw | PL | S6-39 |
| 3GPPSA6#40 | 16/11/2020 09:00:00 | 20/11/2020 17:30:00 | TBD | NA | S6-40 |