**3GPP TSG-SA WG6 Meeting #29 S6-190304**

**Montreal, Canada, 25th February – 1st March 2019**

Source: MCC

Title: SA6 Meeting 28 Report

Agenda Item: 3

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*Abstract: Meeting report of 3GPP SA6 meeting #28*

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

 **DRAFT Meeting Report
for
TSG SA WG6
meeting: 28**

**Kochi, India, 21/01/2019 to 25/01/2019**

Report generated on Thursday, 2019-01-31 17:52 Romance Standard Time

Contents:

1 Opening of the meeting 4

1.2 IPR and antitrust policy reminders 4

1.3 Reminder for check-in at the meeting and for wearing badges 4

2 Agenda and Chairman's notes 4

3 Report from previous meetings 5

4 Liaison statements 5

4.1 Incoming LSs 5

4.2 Outgoing LSs 10

5 Items for early consideration 11

6 Rel-13 Maintenance 11

7 Rel-14 Maintenance 12

8 Rel-15 Maintenance 12

9 Rel-16 Work Items 14

9.1 eCAPIF - Enhancements for Common API Framework for 3GPP Northbound APIs 14

9.2 enh2MCPTT - Enhanced Mission Critical Push-to-talk architecture phase 2 18

9.3 eMCData2 - Enhancements to Functional architecture and information flows for Mission Critical Data 28

9.4 eMCSMI - Enhanced mission critical system migration and interconnection 32

9.5 eMCCI - Enhanced Mission Critical Communication Interworking with Land Mobile Radio Systems 34

9.6 MBMSAPI\_MCS - MBMS APIs for Mission Critical Services 39

9.7 V2XAPP - Application layer support for V2X services 42

9.8 SEAL - Service Enabler Architecture Layer for Verticals 46

9.9 TEI16 - Technical Enhancements and Improvements 57

10 Study Items 58

10.1 FS\_FRMCS2 - Study on application architecture for the Future Railway Mobile Communication System (FRMCS) Phase 2 58

10.2 FS\_MCSAA - Study on MC services access aspects 71

10.3 FS\_MCOver5GS - Study on Mission Critical Services support over 5G System 72

10.4 FS\_MCLOG - Study into discreet listening and logging for mission critical services 74

10.5 FS\_enhMCLoc - Study on location enhancements for mission critical services 76

10.6 FS\_FFAPP - Application layer support for Factories of the Future in 5G network 80

11 Future work / New WIDs (including related contributions) 83

12 Work Plan review 85

13 Future meetings 87

14 AOB 87

15 Close of the meeting 87

Annex A: List of contribution documents 88

Annex B: List of change requests 97

Annex C: Lists of liaisons 102

C1: Incoming liaison statements 102

C2: Outgoing liaison statements 102

Annex D: List of agreed/approved new and revised Work Items 102

Annex E: List of draft Technical Specifications and Reports 102

Annex F: List of action items 102

Annex G: List of decisions 102

Annex H: List of participants 103

Annex I: List of future meetings 104

## 1 Opening of the meeting

The SA6 Chairman Suresh Chitturi (Samsung) declared the SA6#28 meeting open.

### 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 (<http://webapp.etsi.org/Ipr/>).

**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 Reminder for check-in at the meeting and for wearing badges

The chairman reminded delegates to check-in for the meeting and to wear a meeting badge.

## 2 Agenda and Chairman's notes

**S6-190001 SA6 Meeting 28 Agenda**

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

**Abstract:**

Agenda for the SA6#28 meeting

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

**S6-190003 SA6 Meeting #28 - Agenda with Tdocs allocation after submission deadline**

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

**Abstract:**

The SA6#28 meeting agenda with Tdocs allocation after submission deadline

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

**S6-190004 SA6 Meeting #28 - Agenda with Tdocs allocation at start of the meeting**

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

**Abstract:**

The SA6#28 meeting agenda with Tdocs allocation at the start of the meeting

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

**S6-190005 SA6 Meeting #28 - Chairman's notes at end of the meeting**

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

**Abstract:**

Chairman's notes at end of the SA6#28 meeting

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

## 3 Report from previous meetings

**S6-190002 SA6 Meeting 27 Report**

 *Type: report For: Approval
 Source: MCC*

**Abstract:**

The report of the SA6#27 meeting.

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

**S6-190016 Report on SA6 related topics at SA#82**

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

**Abstract:**

This document contains a brief report from SA#82 on matters relating to SA6 WG activities

**Discussion:**

The Chairman presented a brief report from SA#82.

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

## 4 Liaison statements

### 4.1 Incoming LSs

**S6-190006 Reply LS on API specification and API version number maintenance**

 *Type: LS in For: Action
 Original outgoing LS: C4-188646, to CT, SA, cc CT3, SA5, SA6
 Source: CT4 chair*

**Abstract:**

1. Overall Description:

CT4 thanks CT for the Reply LS on API specification and API version number maintenance (CP-182239/C4-187297).

Based on the CT/SA feedback, CT3 and CT4 have further reconsidered the API version number pattern and the related version control mechanism used for the APIs used over the Service-Based Interfaces (SBI).

It has been concluded to remove the release field ("Rn") from API version numbers in order to follow more closely the principles of the Semantic Versioning. A set of rules, illustrated with examples, have been provided to understand how and when increment each version field while maintaining the compatibility with the existing 3GPP working procedures. In particular, it has been clarified the support of backward (in)compatible changes within a release and across multiple releases. The agreed CR (C4-188645) is attached to this LS.

CT3 and CT4 have followed the CT recommendation regarding the need for separate OpenAPI files. At each plenary, a separate OpenAPI file will be generated, the file containing a copy of the normative annex of the latest version of the specification approved in the plenary. This file will be attached to the specification and then stored in a dedicate directory. A NOTE has been added into the TS 29.501 (in C4-187459) to clarify this point:

 "Informative copies of all OpenAPI files contained in 3GPP technical specifications will be provided after each 3GPP CT/SA plenary cycle separately for each 3GPP release in a suitable directory on the 3GPP fileserver, e.g. http:/ftp.3gpp.org/Specs/2018-09/Rel-15/OpenAPI/."

In the same CR to TS 29.501 (C4-187459), it was then also agreed to reintroduce in all the OpenAPI specifications the "externalDocs" field providing information on the 3GPP TS number, the version number and the name of the 3GPP TS in which the related API is defined. A set of CRs has been agreed to update the OpenAPI specification in all the TS describing an API

Finally, a discussion paper has been produced by CT3 and CT4 to provide guidelines to MCC on the management of OpenAPI files, as requested by CT. It was not seen as relevant to include such material into the TS 29.501 and it was then proposed to capture it in a discussion paper endorsed by CT3 and CT4 that could be provided to CT and MCCs for information. The discussion paper is in the document C4-187615 and is also attached to the LS.

From CT3 and CT4 point of view, it is believed that the recommendations given in the TS 29.501 regarding the API versioning and the handling of the OpenAPI files are valid not only for SBI specifications but also for any API defined by 3GPP.

2. Actions:

To CT, SA, SA5, SA6.

ACTION: CT and SA are kindly requested to take into account the feedback provided by CT3 and CT4 regarding the API versioning mechanism and the handling of OpenAPI files. 3GPP working groups defining API are also kindly invited to follow the recommendations given in the TS 29.501.

**Discussion:**

Samsung introduced the LS available as document S6-190006.

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

**S6-190007 LS on enablers for group communications in 5GS**

 *Type: LS in For: Discussion
 Original outgoing LS: RP-182875, to SA6, SA, cc SA2
 Source: RAN*

**Abstract:**

1. Overall Description:

TSG RAN discussed the support of multicast/broadcast mechanisms in 5GS from RAN perspective.

Multicast/broadcast in NR over Uu has been discussed in RAN but is not part of the Release 16 work program.

The LTE/E-UTRAN based multicast/broadcast solution exists since Release 9. In LTE, there has not been activity to enable multicast/broadcast with 5G core, since understanding in TSG RAN side has been that such a functionality is not supported by 5G core network. Although architecture option 5 supports LTE connected to 5GC, there is no ongoing work to enable connecting LTE based eMBMS to 5G core.

2. Actions:

To SA

ACTION: 3GPP RAN kindly asks 3GPP TSG SA to take this into account in planning of Release 16 work.

**Discussion:**

Nokia introduced the LS available as document S6-190007.

The Chairman noted that the topic had been discussed during the SA plenary. It had been pointed out that if the topic multicast broadcast is to be worked on, then companies should bring in a work item in to SA.

FirstNet was of the opinion that some open work items in SA1 could be utilised to cover performance MBMS requirements and noted it would be important to initiate some work in rel-16.

Huawei noted that there would be related discussions in SA2 during the running week.

BDBOS suggested writing a LS stressing the importance of this functionality.

Motorola Solutions was of the view that there would be little benefit in writing a LS, but suggested that companies should be actively promoting the work in SA1 and SA2.

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

**S6-190008 Reply LS on ISO 17515-3 comment resolution**

 *Type: LS in For: Information
 Original outgoing LS: SP-181228, to ISO TC204 WG16, cc CT1, SA2, SA6, SAE CV2X TC
 Source: SA*

**Abstract:**

\*\*\* COPY IN LS

**Discussion:**

The chairman introduced the LS available as document S6-190008.

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

**S6-190009 Cooperation on Generic Slice Template definition**

 *Type: LS in For: Action
 Original outgoing LS: 5GJA05\_110, to SA6, cc 3GPP SA, SA1, SA2, SA3, RAN 3 and SA5
 Source: GSMA*

**Abstract:**

1. Introduction

The GSMA 5G Joint Activity (5GJA) is responsible for all 5G related items and topics within the GSMA Networks Group (NG). The GSMA 5GJA will work in cooperation with GSMA working groups, GSMA programmes, as well as external organizations. The scope of the GSMA 5GJA focus on, although not limited to, the following topics:

• UNI for operator-provided communication services (i.e. Voice, Video, messaging) over 5G

• Guidelines for technical aspects of deployment of 5G.

• Guidelines for 5G roaming and interconnection.

2. Description

The GSMA 5G Joint Activity would like to draw your attention to the document that defines and provides a description of the Generic Slice Template (GST). The GST is a set of attributes (e.g. supported throughput, supported functionality, provided application programming interfaces (APIs), etc.) that characterize any slice. It contains the attribute names, definitions and units. These attributes can be used by vendors, mobile network operators and slice customers, in addition to other proprietary attributes, if custom slices are desired. By filling the GST with values for all or a subset of the attributes it is possible to describe the structure of a network slice. A GST filled with values is called Network Slice Type (NEST). A NEST serves many purposes:

• Vendors can use a NEST to define the features of their products

• Vertical Industry customers (slice customers) can use a NEST as a reference to understand the contractual agreements with the network operator

• Network operators (slice providers) can use a NEST with their roaming partners, facilitating the definition

More details regarding to GST and NEST could be found at: https://www.gsma.com/futurenetworks/5g/5g-network-slicing-report-august-2018/ and in the document attached that will be taken as the baseline for a GSMA Permanent Reference Document expected to be published next year.

GSMA intends to continue working in the following areas and would welcome a close cooperation with your organisation:

• Generating a non-binding Permanent Reference Document (PRD) Note 1 containing the description of the GST.

• Producing NEST(s) for the 3GPP defined standard slices (eMBB, URLLC, MIoT)

• Producing NEST(s) for customised network slices, e.g. automotive

Note: Non-Binding Permanent Reference Document (PRD) is an informational guidance and recommendations from and to members and, in some cases, to the wider industry.

ACTIONS

GSMA 5GJA would like to invite 3GPP SA6 to review the GST attributes set and assess if they are sufficient to define a network slice type addressing public safety and railway use cases and requirements. If SA6 believes it is necessary to add attributes to the GST, then GSMA 5GJA endeavours to include them in the next update of the GST.

Moreover, GSMA 5GJA would like to invite 3GPP SA6 to propose values for the GST attributes so that the NEST can serve public safety use cases.

**Discussion:**

The chairman briefly introduced the LS available as document S6-190009 and pointed out that a draft reply is available S6-190067.

**Decision:** The document was **replied to in S6-190067**.

**S6-190010 Reply LS on the application layer support for V2X services**

 *Type: LS in For: Discussion
 Original outgoing LS: S4-181442, to SA6, cc -
 Source: SA4*

**Abstract:**

1. Background:

SA4 thanks SA6 for informing SA4 of the completion of the SA6 study on the application layer support for V2X services. SA4 has also been studying media-related use cases of V2X covered in TR 22.886 and their requirements in TS 22.186, to analyse the requirements and procedures for media capturing, compression, and transmission for advanced driving. SA4 will take TR 23.795 into account in its ongoing and future works on V2X.

2. Actions:

To 3GPP SA WG6:

ACTION: None.

**Discussion:**

Samsung introduced the LS available as document S6-190010.

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

**S6-190011 LS on moving xMB to TS 26.348**

 *Type: LS in For: Information
 Original outgoing LS: S4-181491, to SA2, CT3, cc SA6
 Source: SA4*

**Abstract:**

1. Overall Description:

SA4 has moved xMB reference point stage 2 specification from TS26.346 to TS26.348 in Rel-16.

Considering that both TS 23.246 and TS 29.116 specifications refer to TS 26.346 on xMB matters, these specifications should be updated in Rel-16 to take this change into account.

SA4 has provided change request examples for each specification to help in this process.

SA4 would like to request SA2 and CT3 to update their respective specification to properly refer to TS 26.348, using our provided example as a basis.

2. Actions:

To SA2 group.

ACTION: SA4 kindly asks SA2 to take the comments and requests by SA4 into account and update SA4 on the status of the work.

To CT3 group.

ACTION: SA4 kindly asks CT3 to take the comments and requests by SA4 into account and update SA4 on the status of the work.

**Discussion:**

Samsung introduced the LS available as document S6-190011.

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

**S6-190012 LS on ROHC support**

 *Type: LS in For: Information
 Original outgoing LS: S4-181424, to CT3, cc SA6
 Source: SA4*

**Abstract:**

1. Overall Description:

SA4 thanks CT3 for the LS on ROHC (C3-185174/S4-181020) which provides a set of proposals for ROHC.

These different propositions have been reviewed and implemented in the CR 0611 (S4-181423).

During our previous meeting SA4#100, we have created a first version of the CR 0611 on ROHC usage and sent a LS (SA-181207) to CT3. Nevertheless at his meeting SA4#101, we have improved our CR 0611 (LS-S4-1423). So please disregard the previous LS (SA-181207) but just consider this one.

SA4 kindly asks CT3 to review the changes described in the last version of the CR 0611 and update stage 3 if needed.

2. Actions:

To CT3 group.

ACTION: SA4 kindly asks CT3 to review the changes and update stage 3 if needed.

**Discussion:**

Expway introduced the LS available as document S6-190012.

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

### 4.2 Outgoing LSs

**S6-190067 [DRAFT] Reply LS on Cooperation on Generic Slice Template definition**

 *Type: LS out For: Approval
 to GSMA-5GJA, cc 3GPP SA
 Source: BDBOS*

**Abstract:**

Reply LS on Cooperation on Generic Slice Template definition

**Discussion:**

BDBOS introduced the draft LS available as document S6-190067.

**Decision:** The document was **revised to S6-190149**.

**S6-190149 [DRAFT] Reply LS on Cooperation on Generic Slice Template definition**

 *Type: LS out For: Approval
 to GSMA-5GJA, cc 3GPP SA
 Source: BDBOS*

(Replaces S6-190067)

**Discussion:**

BDBOS presented the draft LS available as document S6-190149.

AT&T did not think SA6 should advertise (on behalf of the PPDR operators) the workshop in a way proposed.

Qualcomm suggested to state that SA6 is aware of a workshop.

Motorola Solutions suggested to delete the second paragraph.

**Decision:** The document was **revised to S6-190243**.

**S6-190243 Reply LS on Cooperation on Generic Slice Template definition**

 *Type: LS out For: Approval
 to GSMA-5GJA, cc 3GPP SA
 Source: BDBOS*

(Replaces S6-190149)

**Discussion:**

BDBOS presented the draft LS available as document S6-190243.

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

**S6-190172 LS on D2D enabler for public safety communications in 5GS**

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

**Discussion:**

FirstNet presented the draft LS available as document S6-190172.

AT&T suggested rephrasing the last sentence of the first paragraph.

**Decision:** The document was **revised to S6-190244**.

**S6-190244 LS on D2D enabler for public safety communications in 5GS**

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

(Replaces S6-190172)

**Discussion:**

FirstNet presented the draft LS available as document S6-190244.

BDBOS pointed out a typo "..5G does not provide .." that should read "..5GS does not provide..".

It was also suggested replacing "direct mode, D2D, communications" with "direct mode, communications" in the action.

The only changes are:

 - replacing "..5G does not provide .." with "..5GS does not provide..".

 - "direct mode, D2D, communications" with "direct mode, communications" in the action.

With the above changes the revised contribution, S6-190244, is considered pre-approved.

**Decision:** The document was **revised to S6-190280**.

**S6-190280 LS on D2D enabler for public safety communications in 5GS**

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

(Replaces S6-190244)

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

## 5 Items for early consideration

## 6 Rel-13 Maintenance

**S6-190048 Correction of emergency location triggering criteria**

 *Type: CR For: Agreement
 23.179 v13.5.0 CR-0128 Cat: F (Rel-13)

 Source: BDBOS*

**Abstract:**

This CR is a correction of missing information element in the location reporting configuration.

**Discussion:**

BDBOS presented the document available as S6-190048.

Motorola Solutions was of the opinion that we should not be making this type of changes to Rel-13.

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

**S6-190065 Correction of emergency location triggering criteria**

 *Type: CR For: Agreement
 23.280 v14.6.0 CR-0175 Cat: A (Rel-14)

 Source: BDBOS*

**Abstract:**

This CR is a correction of missing information element in the location reporting configuration and location reporting trigger.

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

## 7 Rel-14 Maintenance

**S6-190039 Corrections to MCVideo Group join information flows and procedure**

 *Type: CR For: Agreement
 23.281 v14.7.0 CR-0112 Cat: F (Rel-14)

 Source: Airbus DS SLC*

**Abstract:**

Information element “Implicit transmit media request” is missing from the Group join request information flow. Note that this correction is needed also for stage3 TS 24.281.

Information flow names are misaligned between 23.379 (“Group join request”) and

**Discussion:**

Airbus presented the document available as S6-190039.

Motorola Solutions believed it was necessary make the change to Rel-14.

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

## 8 Rel-15 Maintenance

**S6-190066 Correction of emergency location triggering criteria**

 *Type: CR For: Agreement
 23.280 v15.5.0 CR-0176 Cat: A (Rel-15)

 Source: BDBOS*

**Abstract:**

This CR is a correction of missing information element in the location reporting configuration and location reporting trigger.

**Discussion:**

BDBOS presented the document available as S6-190066.

It was noted that the WID should enh2MCPTT.

**Decision:** The document was **revised to S6-190239**.

**S6-190239 Correction of emergency location triggering criteria**

 *Type: CR For: Agreement
 23.280 v15.5.0 CR-0176 rev 1 Cat: F (Rel-15)

 Source: BDBOS*

(Replaces S6-190066)

**Discussion:**

BDBOS presented the document available as S6-190239.

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

**S6-190240 Correction of emergency location triggering criteria**

 *Type: CR For: Agreement
 23.280 v16.1.0 CR-0180 Cat: A (Rel-16)

 Source: BDBOS*

**Abstract:**

Correction of missing information element in the location reporting configuration and location reporting trigger as described in clauses 10.9.2.1 and 10.9.2.4.

**Discussion:**

BDBOS presented the document available as S6-190240.

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

**S6-190040 Corrections to MCVideo Group join information flows and procedure**

 *Type: CR For: Agreement
 23.281 v15.5.0 CR-0113 Cat: A (Rel-15)

 Source: Airbus DS SLC*

**Abstract:**

The contribution proposes:

 - replacing “Group call join request” with “Group join request”,

 - “Group call join response” with “Group join response”,

 - adding “Implicit transmit media request” IE to Group join request information flow (7.1.2.2.10).

 - correcting preconditions of 7.1.2.3.1.2.2.

**Discussion:**

Category to be changed from A to F.

**Decision:** The document was **revised to S6-190241**.

**S6-190241 Corrections to MCVideo Group join information flows and procedure**

 *Type: CR For: Agreement
 23.281 v15.5.0 CR-0113 rev 1 Cat: F (Rel-15)

 Source: Airbus DS SLC*

(Replaces S6-190040)

**Discussion:**

Airbus presented the document available as S6-190241.

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

**S6-190041 Corrections to MCVideo Group join information flows and procedure**

 *Type: CR For: Agreement
 23.281 v16.0.0 CR-0114 Cat: A (Rel-16)

 Source: Airbus DS SLC*

**Abstract:**

The contribution proposes:

 - replacing “Group call join request” with “Group join request”,

 - replacing “Group call join response” with “Group join response”.

 - adding “Implicit transmit media request” IE is to Group join request information flow (7.1.2.2.10) and

 - correcting preconditions of 7.1.2.3.1.2.2.

**Discussion:**

WI code to be changed.

**Decision:** The document was **revised to S6-190242**.

**S6-190242 Corrections to MCVideo Group join information flows and procedure**

 *Type: CR For: Agreement
 23.281 v16.0.0 CR-0114 rev 1 Cat: A (Rel-16)

 Source: Airbus DS SLC*

(Replaces S6-190041)

**Discussion:**

Airbus presented the document available as S6-190242.

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

## 9 Rel-16 Work Items

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

**S6-190110 CAPIF new architectural requirements**

 *Type: CR For: Agreement
 23.222 v16.2.0 CR-0047 Cat: B (Rel-16)

 Source: Samsung*

**Abstract:**

Add architectural requirements to cover API exposing function interactions with API publishing function and API management function, in the same trust domain or different trust domains.

**Discussion:**

Samsung presented the document available as S6-190110.

Huawei did not quite agree with the reason for change, with the limitation "..who has only AEF..".

Qualcomm did not think the feature proposed was needed as they were of the opinion it was already supported.

**Decision:** The document was **revised to S6-190173**.

**S6-190173 CAPIF new architectural requirements**

 *Type: CR For: Agreement
 23.222 v16.2.0 CR-0047 rev 1 Cat: B (Rel-16)

 Source: Samsung*

(Replaces S6-190110)

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

**S6-190084 Update procedures with topology hidding**

 *Type: CR For: Agreement
 23.222 v16.2.0 CR-0044 Cat: F (Rel-16)

 Source: Huawei, Hisilicon*

**Abstract:**

The contribution proposes updating the procedures with topology hiding description

1) A NOTE is introduced in API discover procedure in subclause 8.7.3 and API discover for CAPIF interconnection in subclause 8.25.3.2

2) Authentication issue is clarified in authentication between the API invoker and the AEF related procedures in subclause 8.14.3 and 8.15.3.

**Discussion:**

Huawei presented the document available as S6-190084.

Qualcomm was of the view that the note should appear in the information flow.

**Decision:** The document was **revised to S6-190174**.

**S6-190174 Update procedures with topology hidding**

 *Type: CR For: Agreement
 23.222 v16.2.0 CR-0044 rev 1 Cat: F (Rel-16)

 Source: Huawei, Hisilicon*

(Replaces S6-190084)

**Discussion:**

Huawei presented the document available as S6-190174.

The only change is to number the notes in clauses 8.15.3 and 8.15.3.

With the above changes the revised contribution, S6-190260, is considered pre-agreed.

**Decision:** The document was **revised to S6-190260**.

**S6-190260 Update procedures with topology hidding**

 *Type: CR For: Agreement
 23.222 v16.2.0 CR-0044 rev 2 Cat: F (Rel-16)

 Source: Huawei, Hisilicon*

(Replaces S6-190174)

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

**S6-190085 API sharing for CCF interconnection**

 *Type: CR For: Agreement
 23.222 v16.2.0 CR-0045 Cat: B (Rel-16)

 Source: Huawei, Hisilicon*

**Abstract:**

The contribution proposes:

1) adding an information element in the API publish request to indicate whether this API can be shared to another CAPIF

2) update the Service API publish for CAPIF interconnection procedure.

**Discussion:**

Huawei presented the document available as S6-190085.

Samsung suggested rephrasing the IE name i.e. "Shareable indication" as it seemed the result was not limited to Y/N.

Qualcomm suggested adding a note in relation to the restriction when the "Shareable indication" information cannot be shared.

**Decision:** The document was **revised to S6-190175**.

**S6-190175 API sharing for CCF interconnection**

 *Type: CR For: Agreement
 23.222 v16.2.0 CR-0045 rev 1 Cat: B (Rel-16)

 Source: Huawei, Hisilicon*

(Replaces S6-190085)

**Discussion:**

Huawei presented the document available as S6-190175.

Qualcomm suggested rephrasing the IE description.

**Decision:** The document was **revised to S6-190261**.

**S6-190261 API sharing for CCF interconnection**

 *Type: CR For: Agreement
 23.222 v16.2.0 CR-0045 rev 2 Cat: B (Rel-16)

 Source: Huawei, Hisilicon*

(Replaces S6-190175)

**Discussion:**

Huawei presented the document available as S6-190261.

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

**S6-190086 API invocation request routing with topology hiding**

 *Type: CR For: Agreement
 23.222 v16.2.0 CR-0046 Cat: B (Rel-16)

 Source: Huawei, Hisilicon*

**Abstract:**

The contribution proposes to:

1) add a new parameter indicating serving area to the service API information in subclause 8.3.2.1 and 8.25.2.1

2) add new parameter to API topology hiding notify message

3) Open and detail the box of step 2 in subclause 8.13.3 and create two new information flows

3) Update the topology hiding related procedure in subclause 8.13.3 and 8.24.3.

**Discussion:**

Huawei presented the document available as S6-190086.

Samsung indicated it was difficult to understand the concept especially as the service area has not been defined.

Qualcomm made a remark that the proposal described dynamic routing based on service area as opposed to topology hiding and hence was not covered by a requirement.

**Decision:** The document was **revised to S6-190176**.

**S6-190176 API invocation request routing with topology hiding**

 *Type: CR For: Agreement
 23.222 v16.2.0 CR-0046 rev 1 Cat: B (Rel-16)

 Source: Huawei, Hisilicon*

(Replaces S6-190086)

**Discussion:**

Huawei presented the document available as S6-190176.

Samsung suggested to take on board a change to the static procedure.

**Decision:** The document was **revised to S6-190277**.

**S6-190277 API invocation request routing with topology hiding**

 *Type: CR For: Agreement
 23.222 v16.2.0 CR-0046 rev 2 Cat: B (Rel-16)

 Source: Huawei, Hisilicon*

(Replaces S6-190176)

**Discussion:**

Huawei presented the document available as S6-190277.

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

**S6-190142 Interactions between API exposing functions**

 *Type: CR For: Agreement
 23.222 v16.2.0 CR-0048 Cat: C (Rel-16)

 Source: Huawei, Hisilicon*

**Abstract:**

Proposal for interactions between API exposing functions

**Discussion:**

Huawei presented the document available as S6-190142.

Qualcomm raised some concern with the proposal and pointed out that e.g. that the CAPIF-2i should not appear as a loop as depicted in the fig Figure 6.2.0-1.

**Decision:** The document was **revised to S6-190177**.

**S6-190177 Interactions between API exposing functions**

 *Type: CR For: Approval
 23.222 v16.2.0 CR-0048 rev 1 Cat: C (Rel-16)

 Source: Huawei, Hisilicon*

(Replaces S6-190142)

**Discussion:**

Huawei presented the document available as S6-190177.

Qualcomm suggested some re-arrangement of figure 6.2.0-2 and clarifying the mention of "all the functions" referred to in "The CAPIF-7 reference point supports all the functions of CAPIF-2." in clause 6.4.12.

After some discussion it was decided to leave the document as is.

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

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

**S6-190037 Corrections to MCPTT chat group call late entry procedures**

 *Type: CR For: Agreement
 23.379 v16.1.0 CR-0171 Cat: F (Rel-16)

 Source: Airbus DS SLC*

**Abstract:**

The subclause titles and numbering (10.6.2.3.1.2.4, 10.6.2.3.1.2.4a, 10.6.2.3.1.2.4b) is not logical and needs some corrections. Additionally, one ambiguous sentence is removed.

**Discussion:**

Airbus presented the document available as S6-190037.

FirsNet suggested adding a further clarification in relation to returning from out of coverage.

**Decision:** The document was **revised to S6-190150**.

**S6-190150 Corrections to MCPTT chat group call late entry procedures**

 *Type: CR For: Agreement
 23.379 v16.1.0 CR-0171 rev 1 Cat: F (Rel-16)

 Source: Airbus DS SLC*

(Replaces S6-190037)

**Discussion:**

Airbus presented the document available as S6-190150.

Motorola Solutions pointed out that the notes should be numbered.

The only changes are to number the notes i.e. NOTE 1 and NOTE 2.

With the above change the revised contribution, S6-190245, is considered pre-agreed.

**Decision:** The document was **revised to S6-190245**.

**S6-190245 Corrections to MCPTT chat group call late entry procedures**

 *Type: CR For: Agreement
 23.379 v16.1.0 CR-0171 rev 2 Cat: F (Rel-16)

 Source: Airbus DS SLC*

(Replaces S6-190150)

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

**S6-190038 Procedure for MCPTT user leaving a group call**

 *Type: CR For: Agreement
 23.379 v16.1.0 CR-0172 Cat: C (Rel-16)

 Source: Airbus DS SLC*

**Abstract:**

Procedure for MCPTT user leaving a group call is missing from TS 23.379.

**Discussion:**

Airbus presented the document available as S6-190038.

Sepura suggested to make the note in table 10.6.2.2.13-1 clearer, maybe even divided into two, but supported the contribution in general.

Motorola Solutions did not support the 10.6.2.2.13 and 10.6.2.2.22, and suggested completely new information elements to be created.

TD Tech noted they supported the new procedure but suggested checking whether the procedure it is valid for both unicast and multicast.

Airbus noted the intention was to align with stage 3.

Huawei indicated support for the new procedure.

**Decision:** The document was **revised to S6-190151**.

**S6-190151 Procedure for MCPTT user leaving a group call**

 *Type: CR For: Agreement
 23.379 v16.1.0 CR-0172 rev 1 Cat: C (Rel-16)

 Source: Airbus DS SLC*

(Replaces S6-190038)

**Discussion:**

Airbus presented the document available as S6-190151.

Motorola Solutions suggested adding a note stating that when the client re-joins the call is FFS.

Sepura and Huawei supported the view of Motorola Solutions.

The Police of Netherlands made a remark that there were no stage 1 requirements on joining and leaving a call.

**Decision:** The document was **revised to S6-190246**.

**S6-190246 Procedure for MCPTT user leaving a group call**

 *Type: CR For: Agreement
 23.379 v16.1.0 CR-0172 rev 2 Cat: C (Rel-16)

 Source: Airbus DS SLC*

(Replaces S6-190151)

**Discussion:**

Airbus presented the document available as S6-190246.

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

**S6-190091 Group status notification over MBMS**

 *Type: CR For: Agreement
 23.280 v16.1.0 CR-0178 Cat: B (Rel-16)

 Source: TD Tech, CHENGDU TD TECH LTD.*

**Abstract:**

This contribution defines the usage of MBMS for group status notification.

**Discussion:**

TD Tech presented the document available as S6-190091.

Airbus did not see a need for the proposal, but did not object.

Samsung raised a concern with sending notifications when the group call is not ongoing.

Sepura suggested using terms like active non-active.

Motorola Solutions struggled seeing when such a procedure would be needed.

**Decision:** The document was **revised to S6-190152**.

**S6-190152 Group status notification over MBMS**

 *Type: CR For: Agreement
 23.280 v16.1.0 CR-0178 rev 1 Cat: B (Rel-16)

 Source: TD Tech, CHENGDU TD TECH LTD.*

(Replaces S6-190091)

**Discussion:**

TD Tech presented the document available as S6-190152

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

**S6-190023 Improvement of the group creation request**

 *Type: CR For: Agreement
 23.280 v16.1.0 CR-0173 Cat: C (Rel-16)

 Source: Sepura PLC, Hytera Communications Corp*

**Abstract:**

Improvement of the group creation request to allow the requester to propose a MC service group ID, to provide the MC service group configuration data and to specify an empty group. These changes facilitate preparing groups in advance, so that they can be

**Discussion:**

Sepura presented the document available as S6-190023.

Motorola Solutions supported the proposal in general but suggested some simplification to the paper.

Nokia suggested rephrasing of some of the notes.

**Decision:** The document was **revised to S6-190153**.

**S6-190153 Improvement of the group creation request**

 *Type: CR For: Agreement
 23.280 v16.1.0 CR-0173 rev 1 Cat: C (Rel-16)

 Source: Sepura PLC, Hytera Communications Corp*

(Replaces S6-190023)

**Discussion:**

Sepura presented the document available as S6-190153.

It was pointed out that the TS 24.181 in the reason for change should read TS 24.481.

TD Tech requested further clarifications on why the MC service group ID was mandatory and where the MC service group configuration data comes from

One of the arguments given was alignment with stage 3.

AT&T stated that SA6 every so often use stage 3 implementation as an argument for changing the stage 2 specification, and they thought this was completely wrong as stage 3 should be based on stage 2.

Huawei agreed with the view of AT&T and hence did not see the need for proposed change.

**Decision:** The document was **revised to S6-190247**.

**S6-190247 Improvement of the group creation request**

 *Type: CR For: Agreement
 23.280 v16.1.0 CR-0173 rev 2 Cat: C (Rel-16)

 Source: Sepura PLC, Hytera Communications Corp*

(Replaces S6-190153)

**Discussion:**

Sepura presented the document available as S6-190247.

AT&T pointed out that in step 2 ".., the group management either.." should read ".., the group management server either ..".

Huawei suggested adding another bullet in step 5 along the lines of "success (with modified group ID)"

**Decision:** The document was **revised to S6-190275**.

**S6-190275 Improvement of the group creation request**

 *Type: CR For: Agreement
 23.280 v16.1.0 CR-0173 rev 3 Cat: C (Rel-16)

 Source: Sepura PLC, Hytera Communications Corp*

(Replaces S6-190247)

**Discussion:**

Sepura presented the document available as S6-190275.

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

**S6-190083 Discussion paper on using preconfigurded group for all the MC services**

 *Type: discussion For: Discussion
 Source: Huawei, Hisilicon*

**Abstract:**

This contribution discusses the regroup using preconfigured group for all the services. And proposed to generalize the approved solution from CR0164/S6-181872.

**Discussion:**

Huawei presented the document available as S6-190083.

Motorola Solutions noted that the paper highlights that the various functions are interpreted differently and that the Group Management server would maybe have been better called e.g. Group database server or similar. The proposed dynamic vs. static actions would need to be reconsidered in the current paper.

Sepura was of the opinion that the initial steps of the proposed procedure were correct.

Samsung indicated support for the proposal.

FirsNet raised the similar concerns as those of Motorola Solutions. The group management server creates groups but should not be involved in realtime management of groups.

TD Tech indicated support for the proposal.

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

**S6-190082 Regroup using preconfigurded group for all the MC services**

 *Type: CR For: (not specified)
 23.280 v16.1.0 CR-0177 Cat: C (Rel-16)

 Source: Huawei, Hisilicon*

**Abstract:**

The document proposes introducing a new subclause with the solution derived from 10.6.2.9 in TS 23.379 with the principal changes as follows:

- terminology changes

- make the MC service group identity allocation only at GMS

- remove the EN

- add a new parameter indicating that the preconfigured group is occupied to table A.4-1

- add a new parameter indicating that the group is being regrouped to table A.4-1 to avoid being regrouped multiple time simultaneously.

- MC service list is added to the preconfigured regroup request message.

**Discussion:**

Huawei presented the document available as S6-190082.

FirstNet pointed out that in this case the GMS does not know about e.g. the emergency states and therefore this cannot work.

Huawei noted that the proposal may require further clarification but stressed that the specification contains too many solutions for solving various features.

**Decision:** The document was **revised to S6-190154**.

**S6-190154 Regroup using preconfigurded group for all the MC services**

 *Type: CR For: Agreement
 23.280 v16.1.0 CR-0177 rev 1 Cat: C (Rel-16)

 Source: Huawei, Hisilicon*

(Replaces S6-190082)

**Discussion:**

Huawei presented the document available as S6-190154.

Motorola Solutions did not agree this was the correct way indicate that a group has been created.

FirstNet did not think that their comments in relation to emergency state had been appropriately considered.

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

**S6-190079 Usage of preconfigured regroup group in MCPTT**

 *Type: CR For: Agreement
 23.379 v16.1.0 CR-0173 Cat: C (Rel-16)

 Source: Huawei, Hisilicon*

**Abstract:**

This CR brings the solution to group call over group created from preconfigured regroup operations.

**Discussion:**

Huawei presented the document available as S6-190079.

Motorola Solutions re-iterated that they did not agree to the proposal.

TD Tech made a remark that the definition for "Pre-configured MCPTT regroup group" was not needed.

FirstNet indicated that they did not support the proposal.

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

**S6-190080 Usage of preconfigured regroup group in MCVideo**

 *Type: CR For: Agreement
 23.281 v16.0.0 CR-0115 Cat: C (Rel-16)

 Source: Huawei, Hisilicon*

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

**S6-190081 Usage of preconfigured regroup group in MCData**

 *Type: CR For: Agreement
 23.282 v16.1.0 CR-0129 Cat: C (Rel-16)

 Source: Huawei, Hisilicon*

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

**S6-190121 Group regroup broadcast and rejection using preconfigured group**

 *Type: CR For: Agreement
 23.379 v16.1.0 CR-0176 Cat: B (Rel-16)

 Source: Motorola Solutions*

**Abstract:**

Adds broadcast facility and corrections to alternative group regroup

**Discussion:**

Motorola Solutions presented the document available as S6-190121.

Sepura was of the view that the proposal was incomplete as it did not include the involvement of the group management server.

Huawei was of the view that the proposal was less optimised than the one proposed in S6-190079.

Motorola Solutions noted they would bring video and data solutions separately.

**Decision:** The document was **revised to S6-190155**.

**S6-190155 Group regroup broadcast and rejection using preconfigured group**

 *Type: CR For: Agreement
 23.379 v16.1.0 CR-0176 rev 1 Cat: B (Rel-16)

 Source: Motorola Solutions*

(Replaces S6-190121)

**Discussion:**

Motorola Solutions presented the document available as S6-190155.

TD Tech suggested to have more specific figure title e.g. by adding "preconfigured".

Huawei suggested reverting the deletion of the editor's note.

**Decision:** The document was **revised to S6-190248**.

**S6-190248 Group regroup broadcast and rejection using preconfigured group**

 *Type: CR For: Agreement
 23.379 v16.1.0 CR-0176 rev 2 Cat: B (Rel-16)

 Source: Motorola Solutions*

(Replaces S6-190155)

**Discussion:**

Motorola Solutions presented the document available as S6-190248.

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

**S6-190029 Broadcast group regroup**

 *Type: CR For: Agreement
 23.280 v16.1.0 CR-0174 Cat: B (Rel-16)

 Source: FirstNet*

**Abstract:**

Information Flows for group regrouping are modified to add a broadcast regroup option, and procedures are enhanced to use this option.

**Discussion:**

FirstNet presented the document available as S6-190029.

They pointed out that there were some clauses affected missing.

The chairman pointed out that the work item code was wrong (should read enh2MCPTT).

TD Tech wanted assurance that the proposal connects to existing procedures in TS 23.379.

FirstNet noted the following paper would clarify the relationship.

**Decision:** The document was **revised to S6-190156**.

**S6-190156 Broadcast group regroup**

 *Type: CR For: Agreement
 23.280 v16.1.0 CR-0174 rev 1 Cat: B (Rel-16)

 Source: FirstNet*

(Replaces S6-190029)

**Discussion:**

FirstNet presented the document available as S6-190156.

The Police of Netherlands suggested rephrasing the "The group management client may indicate that.." in step 1.

The only changes are the following:

 - in step 1 of procedure 10.2.4.1 is to replace the sentence 'The group management client may indicate that the temporary group is a broadcast regroup." to read "The group management client indicates whether the temporary group is a broadcast regroup."

 - in step 1 of procedure 10.2.4.2 to replace the sentence 'The group management client may indicate that the temporary group is a broadcast regroup." to read "The group management client indicates whether the temporary group is a broadcast regroup."

With the above changes the revised contribution, S6-190249, is considered pre-agreed.

**Decision:** The document was **revised to S6-190249**.

**S6-190249 Broadcast group regroup**

 *Type: CR For: Agreement
 23.280 v16.1.0 CR-0174 rev 2 Cat: B (Rel-16)

 Source: FirstNet*

(Replaces S6-190156)

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

**S6-190030 Broadcast group regroup**

 *Type: CR For: Agreement
 23.379 v16.1.0 CR-0170 Cat: B (Rel-16)

 Source: FirstNet*

**Abstract:**

Procedures for non-broadcast and broadcast group calls are modified to clarify the use of two-way/non-broadcast regrouped group calls and one-way/broadcast regrouped group calls.

**Discussion:**

FirstNet presented the document available as S6-190030.

Airbus suggested combining the pre-conditions 2 and 4. They also suggested deleting "to participate in a group call for the temporary group" from the pre-condition 3 (these in clause 10.6.2.5.4).

**Decision:** The document was **revised to S6-190157**.

**S6-190157 Broadcast group regroup**

 *Type: CR For: Agreement
 23.379 v16.1.0 CR-0170 rev 1 Cat: B (Rel-16)

 Source: FirstNet*

(Replaces S6-190030)

**Discussion:**

FirstNet presented the document available as S6-190157.

The only changes are to change figure titles and a precondition as follows:

 - "Figure 10.6.2.4.1.1.2-1: Group call involving groups from multiple MCPTT systems (terminating)" to read "Figure 10.6.2.4.1.1.2-1: Group call involving non-broadcast groups from multiple MCPTT systems (terminating)"

 - "Figure 10.6.2.4.2-1: Group call involving temporary group formed by group regroup from multiple MCPTT systems" to read "Figure 10.6.2.4.2-1: Group call involving non-broadcast temporary group formed by group regroup from multiple MCPTT systems"

 - replace pre-condition 4 clause 10.6.2.4.1.1.1 in "The MCPTT group members of the constituent MCPTT groups belonging to the temporary group are affiliated to participate in a group call for the temporary group." to read "The affiliated MCPTT group members of the constituent MCPTT groups have been implicitly affiliated to the temporary group."

With the above changes the revised contribution, S6-190250, is considered pre-agreed.,

**Decision:** The document was **revised to S6-190250**.

**S6-190250 Broadcast group regroup**

 *Type: CR For: Agreement
 23.379 v16.1.0 CR-0170 rev 2 Cat: B (Rel-16)

 Source: FirstNet*

(Replaces S6-190157)

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

**S6-190120 Broadcast user regroup**

 *Type: CR For: Agreement
 23.379 v16.1.0 CR-0175 Cat: C (Rel-16)

 Source: Motorola Solutions*

**Abstract:**

Adds broadcast facility and corrections to alternative user regroup

**Discussion:**

Motorola Solutions presented the document available as S6-190120.

The Police of Netherlands suggested turning the sentence "The authorized user may make the created group .." into a note.

Huawei was of the view that even if the text would be made a note it is still unclear what it means.

TD Tech pointed out that the proposal did not resolve the editor's note.

**Decision:** The document was **revised to S6-190158**.

**S6-190158 Broadcast user regroup**

 *Type: CR For: Agreement
 23.379 v16.1.0 CR-0175 rev 1 Cat: C (Rel-16)

 Source: Motorola Solutions*

(Replaces S6-190120)

**Discussion:**

Motorola Solutions presented the document available as S6-190158.

The only change is rewording, on the coversheet, under reason for change, the last part of the sentence, to read “…if the group is defined as a broadcast group in the group creation process.”

With the above change the revised contribution, S6-190251, is considered pre-agreed.

**Decision:** The document was **revised to S6-190251**.

**S6-190251 Broadcast user regroup**

 *Type: CR For: Agreement
 23.379 v16.1.0 CR-0175 rev 2 Cat: C (Rel-16)

 Source: Motorola Solutions*

(Replaces S6-190158)

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

**S6-190159 Broadcast user regroup**

 *Type: CR For: Agreement
 23.379 v16.1.0 CR-0177 Cat: C (Rel-16)

 Source: Sepura*

**Discussion:**

Sepura presented the document available as S6-190159.

The only change is to change the CR category to F and deleting superfluous small font text "Is addition to the group creation dddddddddddd" beneath the reason for change.

With the above changes the revised contribution, S6-190299, is considered pre-agreed.

**Decision:** The document was **revised to S6-190299**.

**S6-190299 Broadcast user regroup**

 *Type: CR For: Agreement
 23.379 v16.1.0 CR-0177 rev 1 Cat: F (Rel-16)

 Source: Sepura*

(Replaces S6-190159)

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

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

**S6-190013 Correct the location of MCData content server and MCData message store configuration parameters in table A.3-2 configuration table**

 *Type: CR For: Agreement
 23.282 v16.1.0 CR-0124 Cat: F (Rel-16)

 Source: AT&T GNS Belgium SPRL*

**Abstract:**

Correct the MCData content server and MCData message store configuration parameters in table A.3-2

**Discussion:**

AT&T presented the document available as S6-190013.

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

**S6-190014 Editorial correction on the term of MCData**

 *Type: CR For: Agreement
 23.282 v16.1.0 CR-0125 Cat: D (Rel-16)

 Source: AT&T GNS Belgium SPRL*

**Abstract:**

Editorial correction on the term of MCData

**Discussion:**

AT&T presented the document available as S6-190014.

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

**S6-190147 Message store object and metadata**

 *Type: CR For: Agreement
 23.282 v16.1.0 CR-0131 Cat: F (Rel-16)

 Source: Airbus DS SLC*

**Abstract:**

Definitions of MCData message store object and metadata need clarifications.

**Discussion:**

Airbus presented the document available as S6-190147.

Sepura suggested adding time to live.

AT&T made the remark that the time to live was not required here in this case.

Motorola Solutions suggested making the second sentence of the Metadata definition could be made into a note.

Samsung was of the view that the first sentence of the Metadata def. was enough.

**Decision:** The document was **revised to S6-190160**.

**S6-190160 Message store object and metadata**

 *Type: CR For: Agreement
 23.282 v16.1.0 CR-0131 rev 1 Cat: F (Rel-16)

 Source: Airbus DS SLC*

(Replaces S6-190147)

**Discussion:**

Airbus presented the document available as S6-190160.

The only change is removing from the metadata definition "(e.g. content type, status of the object (‘read’, “downloaded by” etc.), lifetime of stored message, encryption information)".

With the above change the revised contribution, S6-190252, is considered pre-agreed.

**Decision:** The document was **revised to S6-190252**.

**S6-190252 Message store object and metadata**

 *Type: CR For: Agreement
 23.282 v16.1.0 CR-0131 rev 2 Cat: F (Rel-16)

 Source: Airbus DS SLC*

(Replaces S6-190160)

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

**S6-190045 Additional architecture requirement for MCData message store**

 *Type: CR For: Agreement
 23.282 v16.1.0 CR-0126 Cat: B (Rel-16)

 Source: AT&T GNS Belgium SPRL*

**Abstract:**

Additional architecture requirement for MCData message store

**Discussion:**

AT&T presented the document available as S6-190045.

**Decision:** The document was **revised to S6-190161**.

**S6-190161 Additional architecture requirement for MCData message store**

 *Type: CR For: Agreement
 23.282 v16.1.0 CR-0126 rev 1 Cat: B (Rel-16)

 Source: AT&T GNS Belgium SPRL*

(Replaces S6-190045)

**Discussion:**

AT&T presented the document available as S6-190161.

Sepura raised a concern about the statement in the editor's note about storing the key unencrypted.

Home Office shared Sepura's concern.

The Police of Netherlands suggested adding a regular note on the subject.

**Decision:** The document was **revised to S6-190253**.

**S6-190253 Additional architecture requirement for MCData message store**

 *Type: CR For: Agreement
 23.282 v16.1.0 CR-0126 rev 2 Cat: B (Rel-16)

 Source: AT&T GNS Belgium SPRL*

(Replaces S6-190161)

**Discussion:**

AT&T presented the document available as S6-190253.

It was pointed out that the highlighting should be ignored when implementing the CR.

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

**S6-190046 Generic SDS procedure with MCData message store**

 *Type: CR For: Agreement
 23.282 v16.1.0 CR-0127 Cat: B (Rel-16)

 Source: AT&T GNS Belgium SPRL*

**Abstract:**

Generic SDS procedure with MCData message store

**Discussion:**

AT&T presented the document available as S6-190046.

Sepura pointed out that in the paper an assumption had been made that the user cannot decide whether a message is stored or not. Also, a decision about whether messages are stored encrypted or not should be made.

Motorola Solutions was of the view that the messages should be stored encrypted, even if it is not an SA6 decision.

Samsung suggested clarifying further the policy.

Airbus suggested replacing the term deposit with store.

Union Inter. Chemins de Fer suggested clarifying that the solution applies to multiple recipient.

**Decision:** The document was **revised to S6-190162**.

**S6-190162 Generic SDS procedure with MCData message store**

 *Type: CR For: Agreement
 23.282 v16.1.0 CR-0127 rev 1 Cat: B (Rel-16)

 Source: AT&T GNS Belgium SPRL*

(Replaces S6-190046)

**Discussion:**

AT&T presented the document available as S6-190162.

The Police of Netherlands suggested separating the incoming and outgoing service requests.

**Decision:** The document was **revised to S6-190254**.

**S6-190254 Generic SDS procedure with MCData message store**

 *Type: CR For: Agreement
 23.282 v16.1.0 CR-0127 rev 2 Cat: B (Rel-16)

 Source: AT&T GNS Belgium SPRL*

(Replaces S6-190162)

**Discussion:**

AT&T presented the document available as S6-190254.

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

**S6-190047 Support no miss chat conversation**

 *Type: CR For: Agreement
 23.282 v16.1.0 CR-0128 Cat: B (Rel-16)

 Source: AT&T GNS Belgium SPRL*

**Abstract:**

Support no miss chat conversation so that a late join user can still know the whole conversation

**Discussion:**

AT&T presented the document available as S6-190047.

Samsung pointed out that the stage 2 solution should not distinguish between the controlling and participating server. Furthermore, the solution could be simplified.

Airbus was of the view that the solution seemed very complex and suggested also renaming the function as e.g. lossless late entry.

Expway suggested including information flows to make it clearer.

Motorola Solutions was of the view that the solution could be reduced to a single paragraph introduced to existing procedures.

**Decision:** The document was **revised to S6-190163**.

**S6-190163 Support no miss chat conversation**

 *Type: CR For: Agreement
 23.282 v16.1.0 CR-0128 rev 1 Cat: B (Rel-16)

 Source: AT&T GNS Belgium SPRL*

(Replaces S6-190047)

**Discussion:**

AT&T presented the document available as S6-190163.

Motorola Solutions suggested rephrasing "late MCData" and step 2.

The Police of Netherlands suggested not to refer to conversation.

Airbus made the overall remark that the modification is rather extensive.

**Decision:** The document was **revised to S6-190255**.

**S6-190255 Providing data for a user entering an ongoing MCData group convers**

 *Type: CR For: Agreement
 23.282 v16.1.0 CR-0128 rev 2 Cat: B (Rel-16)

 Source: AT&T GNS Belgium SPRL*

(Replaces S6-190163)

**Discussion:**

AT&T presented the document available as S6-190255.

There was discussion on whether to use conversation or communication.

The only changes are:

 - replace in the title "convers" with "conversation"

 - change the style of step 1 beneath figure 7.4.3.5.2-1 and

 - modify the figure by moving the verticals to the background (hidden behind the boxes).

With the above changes the revised contribution, S6-190293, is considered pre-agreed.

**Decision:** The document was **revised to S6-190293**.

**S6-190293 Providing data for a user entering an ongoing MCData group convers**

 *Type: CR For: Agreement
 23.282 v16.1.0 CR-0128 rev 3 Cat: B (Rel-16)

 Source: AT&T GNS Belgium SPRL*

(Replaces S6-190255)

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

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

**S6-190115 Migration connectivity information**

 *Type: CR For: Agreement
 23.280 v16.1.0 CR-0179 Cat: F (Rel-16)

 Source: Motorola Solutions*

**Abstract:**

Replaces EN with reference to connectivity information

**Discussion:**

Motorola Solutions presented the document available as S6-190115.

The only change is to fill in the date and release on the cover page.

With the above changes the revised contribution, S6-190256, is considered pre-agreed.

**Decision:** The document was **revised to S6-190256**.

**S6-190256 Migration connectivity information**

 *Type: CR For: Agreement
 23.280 v16.1.0 CR-0179 rev 1 Cat: F (Rel-16)

 Source: Motorola Solutions*

(Replaces S6-190115)

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

**S6-190116 MCData user profile migration information**

 *Type: CR For: Agreement
 23.282 v16.1.0 CR-0130 Cat: B (Rel-16)

 Source: Motorola Solutions*

**Abstract:**

Adds migration connectivity information to user profile

**Discussion:**

Motorola Solutions presented the document available as S6-190116.

It was noted that MCPTT should read MCData.

**Decision:** The document was **revised to S6-190164**.

**S6-190164 MCData user profile migration information**

 *Type: CR For: Agreement
 23.282 v16.1.0 CR-0130 rev 1 Cat: B (Rel-16)

 Source: Motorola Solutions*

(Replaces S6-190116)

**Discussion:**

Motorola Solutions presented the document available as S6-190164.

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

**S6-190119 MCPTT ID in interconnection floor control**

 *Type: CR For: Agreement
 23.379 v16.1.0 CR-0174 Cat: F (Rel-16)

 Source: Motorola Solutions*

**Abstract:**

Adds MCPTT ID to some floor control messages

**Discussion:**

Motorola Solutions presented the document available as S6-190119.

Union Inter. Chemins de Fer suggested adding the functional alias.

Harris raised the question about the status of the client ID, whether it had been agreed.

BDBOS reminded the meeting that there was so far no agreement on client id.

**Decision:** The document was **revised to S6-190165**.

**S6-190165 MCPTT ID in interconnection floor control**

 *Type: CR For: Agreement
 23.379 v16.1.0 CR-0174 rev 1 Cat: F (Rel-16)

 Source: Motorola Solutions*

(Replaces S6-190119)

**Discussion:**

Motorola Solutions presented the document available as S6-190165.

Huawei raised a question about the necessity to include functional alias.

A lengthy discussion followed on the topic.

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

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

**S6-190117 MCPTT ID in floor control messages for interworking**

 *Type: discussion For: Information
 Source: Motorola Solutions*

**Abstract:**

Discusses need for MCPTT ID in floor control for interworking and interconnection

**Discussion:**

Motorola Solutions presented the document available as S6-190117.

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

**S6-190118 MCPTT ID in interworking floor control**

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

 Source: Motorola Solutions*

**Abstract:**

Adds MCPTT ID to some floor control messages

**Discussion:**

Motorola Solutions presented the document available as S6-190118.

It was initially agreed but it was during the course of the meeting decided to further revise the contribution in order to align with S6-190165.

**Decision:** The document was **revised to S6-190257**.

**S6-190257 MCPTT ID in interworking floor control**

 *Type: CR For: Agreement
 23.283 v16.1.0 CR-0023 rev 1 Cat: F (Rel-16)

 Source: Motorola Solutions*

(Replaces S6-190118)

**Discussion:**

Motorola Solutions presented the document available as S6-190257.

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

**S6-190127 IWF alignment for talker location in requests for Group call and Group-broadcast group call setup**

 *Type: CR For: Agreement
 23.283 v16.1.0 CR-0024 Cat: C (Rel-16)

 Source: Harris Corporation*

**Abstract:**

IWF alignment for talker location in requests for Group call and Group-broadcast group call setup

**Discussion:**

Harris presented the document available as S6-190127.

It was pointed out that the CR# (0024) was missing.

Huawei was of the view that the Location information element should refer to Note 2.

Home Office noted that the location information was not defined as a service.

BDBOS pointed out that TS 23.280 uses the term "Location information" for the information element.

**Decision:** The document was **revised to S6-190166**.

**S6-190166 IWF alignment for talker location in requests for Group call and Group-broadcast group call setup**

 *Type: CR For: Agreement
 23.283 v16.1.0 CR-0024 rev 1 Cat: C (Rel-16)

 Source: Harris Corporation*

(Replaces S6-190127)

**Discussion:**

Harris presented the document available as S6-190166.

It was suggested to rephrase the note 2.

**Decision:** The document was **revised to S6-190258**.

**S6-190258 IWF alignment for talker location in requests for Group call and Group-broadcast group call setup**

 *Type: CR For: Agreement
 23.283 v16.1.0 CR-0024 rev 2 Cat: C (Rel-16)

 Source: Harris Corporation*

(Replaces S6-190166)

**Discussion:**

Harris presented the document available as S6-190258.

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

**S6-190128 IWF alignment for talker location in Chat group**

 *Type: CR For: Agreement
 23.283 v16.1.0 CR-0025 Cat: C (Rel-16)

 Source: Harris Corporation*

**Abstract:**

IWF alignment for talker location in Chat group

**Discussion:**

Harris presented the document available as S6-190128.

It was pointed out that the CR# (0025) was missing.

Huawei made remark that it was not clear whether step 3 includes the location information.

Motorola Solutions raised a concern with the second sentence of step 2.

**Decision:** The document was **revised to S6-190167**.

**S6-190167 IWF alignment for talker location in Chat group**

 *Type: CR For: Agreement
 23.283 v16.1.0 CR-0025 rev 1 Cat: C (Rel-16)

 Source: Harris Corporation*

(Replaces S6-190128)

**Discussion:**

Harris presented the document available as S6-190167.

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

**S6-190129 IWF alignment for talker location in Private call**

 *Type: CR For: Agreement
 23.283 v16.1.0 CR-0026 Cat: C (Rel-16)

 Source: Harris Corporation*

**Abstract:**

IWF alignment for talker location in Private call

**Discussion:**

Harris presented the document available as S6-190129.

It was pointed out that the CR# (0026) was missing.

Huawei suggested adding a note for the location IE.

**Decision:** The document was **revised to S6-190168**.

**S6-190168 IWF alignment for talker location in Private call**

 *Type: CR For: Agreement
 23.283 v16.1.0 CR-0026 rev 1 Cat: C (Rel-16)

 Source: Harris Corporation*

(Replaces S6-190129)

**Discussion:**

Harris presented the document available as S6-190168.

FirstNet suggested to delete Note 2.

The only change is to remove Note 2 (as well as numbering of Note 1) from table 10.4.1.2-1 and the reference to Note 2.

With the above change the revised contribution, S6-190259, is considered pre-agreed.

**Decision:** The document was **revised to S6-190259**.

**S6-190259 IWF alignment for talker location in Private call**

 *Type: CR For: Agreement
 23.283 v16.1.0 CR-0026 rev 2 Cat: C (Rel-16)

 Source: Harris Corporation*

(Replaces S6-190168)

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

**S6-190130 IWF alignment for talker Location related to Imminent peril groups**

 *Type: CR For: Agreement
 23.283 v16.1.0 CR-0027 Cat: C (Rel-16)

 Source: Harris Corporation*

**Abstract:**

IWF alignment for talker location related to Imminent peril groups

**Discussion:**

Harris presented the document available as S6-190130.

It was pointed out that the CR# (0027) was missing.

Huawei suggested rephrasing the change in step 1.

**Decision:** The document was **revised to S6-190169**.

**S6-190169 IWF alignment for talker Location related to Imminent peril groups**

 *Type: CR For: Agreement
 23.283 v16.1.0 CR-0027 rev 1 Cat: C (Rel-16)

 Source: Harris Corporation*

(Replaces S6-190130)

**Discussion:**

Harris presented the document available as S6-190169.

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

**S6-190131 IWF alignment for current talker location**

 *Type: CR For: Agreement
 23.283 v16.1.0 CR-0028 Cat: C (Rel-16)

 Source: Harris Corporation*

**Abstract:**

IWF alignment for current talker location

**Discussion:**

Harris presented the document available as S6-190131.

It was pointed out that the CR# (0028) was missing.

**Decision:** The document was **revised to S6-190170**.

**S6-190170 IWF alignment for current talker location**

 *Type: CR For: Agreement
 23.283 v16.1.0 CR-0028 rev 1 Cat: C (Rel-16)

 Source: Harris Corporation*

(Replaces S6-190131)

**Discussion:**

Harris presented the document available as S6-190170.

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

**S6-190132 TS 23.379 alignment for late join**

 *Type: CR For: Agreement
 23.283 v16.1.0 CR-0029 Cat: C (Rel-16)

 Source: Harris Corporation*

**Abstract:**

IWF alignment late join

**Discussion:**

Harris presented the document available as S6-190132.

It was pointed out that the CR# (0029) was missing.

Motorola Solutions made a remark that the steps 6 and 7 in change 2 were incorrect.

FirstNet suggested clarifying what Id the IWF is using in the third change.

BDBOS raised a question about "..returning from coverage.." on the cover page.

Motorola Solutions suggested rewording to read "..returning to coverage..".

The Police of Netherlands raised the question whether the claim "There's no need to define the case for an LMR user returning to coverage." was correct.

**Decision:** The document was **revised to S6-190171**.

**S6-190171 TS 23.379 alignment for late join**

 *Type: CR For: Agreement
 23.283 v16.1.0 CR-0029 rev 1 Cat: C (Rel-16)

 Source: Harris Corporation*

(Replaces S6-190132)

**Discussion:**

Harris presented the document available as S6-190171.

The Police of Netherlands suggested rephrasing "on behalf of LMR system".

Motorola Systems pointed out few occasions where MC should read MCPTT.

**Decision:** The document was **revised to S6-190276**.

**S6-190276 TS 23.379 alignment for late join**

 *Type: CR For: Agreement
 23.283 v16.1.0 CR-0029 rev 2 Cat: C (Rel-16)

 Source: Harris Corporation*

(Replaces S6-190171)

**Discussion:**

Harris presented the document available as S6-190276.

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

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

**S6-190074 Pseudo-CR on introduction**

 *Type: pCR For: Approval
 23.479 v1.0.0
 Source: TD Tech, CHENGDU TD TECH LTD.*

**Abstract:**

The contribution provides the introduction for the TS 23.479 specification.

**Discussion:**

TD Tech presented the document available as S6-190074.

Motorola Solutions suggested deleting the reference to the TR.

Qualcomm noted that as a result the following sentence could also be deleted.

The author of the contribution however preferred to keep the reference to the TR.

**Decision:** The document was **revised to S6-190178**.

**S6-190178 Pseudo-CR on introduction**

 *Type: pCR For: Approval
 23.479 v1.0.0
 Source: TD Tech, CHENGDU TD TECH LTD.*

(Replaces S6-190074)

**Discussion:**

TD Tech presented the document available as S6-190178.

Qualcomm did not agree with the current wording that assumed dependency with the TR 23.792.

**Decision:** The document was **revised to S6-190278**.

**S6-190278 Pseudo-CR on introduction**

 *Type: pCR For: Approval
 23.479 v1.0.0
 Source: TD Tech, CHENGDU TD TECH LTD.*

(Replaces S6-190178)

**Discussion:**

TD Tech presented the document available as S6-190278.

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

**S6-190076 Pseudo-CR on general description of clause 5**

 *Type: pCR For: Approval
 23.479 v1.0.0
 Source: TD Tech, CHENGDU TD TECH LTD.*

**Abstract:**

This contribution provides general descriptions in clause 5.

**Discussion:**

TD Tech presented the document available as S6-190076.

Motorola Solutions suggested some rewording.

The only changes are to:

 - delete "..contains operations.." and

 - replace "..API operations comply.." with "..API functions comply..".

With the above changes the revised contribution, S6-190179, is considered pre-approved.

**Decision:** The document was **revised to S6-190179**.

**S6-190179 Pseudo-CR on general description of clause 5**

 *Type: pCR For: Approval
 23.479 v1.0.0
 Source: TD Tech, CHENGDU TD TECH LTD.*

(Replaces S6-190076)

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

**S6-190077 Pseudo-CR on abbreviations**

 *Type: pCR For: Approval
 23.479 v1.0.0
 Source: TD Tech, CHENGDU TD TECH LTD.*

**Abstract:**

This contribution specifies abbreviations used in the specification.

**Discussion:**

TD Tech presented the document available as S6-190077.

The only change is to add the "E-UTRAN" in the list of abbreviations.

With the above changes the revised contribution, S6-190180, is considered pre-approved.

**Decision:** The document was **revised to S6-190180**.

**S6-190180 Pseudo-CR on abbreviations**

 *Type: pCR For: Approval
 23.479 v1.0.0
 Source: TD Tech, CHENGDU TD TECH LTD.*

(Replaces S6-190077)

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

**S6-190088 Pseudo-CR on alignment of titles**

 *Type: pCR For: Approval
 23.479 v1.0.0
 Source: TD Tech, CHENGDU TD TECH LTD.*

**Abstract:**

This contribution aligns the titles in clause 5 and make some editorial corrections.

**Discussion:**

TD Tech presented the document available as S6-190088.

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

**S6-190126 Pseudo-CR on monitoring reception quality**

 *Type: pCR For: Approval
 23.479 v1.0.0
 Source: Expway*

**Abstract:**

This contribution proposes:

 - to keep a binary information (good / bad reception)

 - to express the quality criteria as a packet loss tolerance and

 - to acknowledge within a NOTE that additional signal strength/reception quality info may be provided to the MC application to implement the make-before-break procedure.

**Discussion:**

Expway presented the document available as S6-190126.

Ericsson suggested leaving the "Reception quality evaluation" information element optional.

Qualcomm did not agree basing the quality on packet loss tolerance but suggested using signal to noise measurement. They also suggested a 5-level scale.

TD Tech suggested to accept more than two level measurement but did not want to set the number.

**Decision:** The document was **revised to S6-190226**.

**S6-190226 Pseudo-CR on monitoring reception quality**

 *Type: pCR For: Approval
 23.479 v1.0.0
 Source: Expway*

(Replaces S6-190126)

**Discussion:**

Qualcomm presented the document available as S6-190126 on behalf of Expway.

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

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

**S6-190144 Template change for procedures**

 *Type: pCR For: Approval
 23.286 v0.2.0
 Source: Huawei, Hisilicon*

**Abstract:**

This contribution proposes template changes for the procedures.

**Discussion:**

Huawei presented the document available as S6-190144.

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

**S6-190143 Clarification about V2X user identity and V2X UE identity**

 *Type: pCR For: Approval
 23.286 v0.2.0
 Source: Huawei, Hisilicon*

**Abstract:**

This contribution proposes clarification on the usage of V2X user identity and V2X UE identity.

**Discussion:**

Huawei presented the document available as S6-190143.

Samsung suggested adding an editor's note stating that the mapping between the User ID and UE Id is for FS.

**Decision:** The document was **revised to S6-190219**.

**S6-190219 Clarification about V2X user identity and V2X UE identity**

 *Type: pCR For: Approval
 23.286 v0.2.0
 Source: Huawei, Hisilicon*

(Replaces S6-190143)

**Discussion:**

Huawei presented the document available as S6-190219.

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

**S6-190071 Pseudo-CR on Identities**

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

**Abstract:**

This contribution provides a unique global service identifier for ITS services.

**Discussion:**

Ericsson presented the document available as S6-190071.

Huawei did not agree to the proposed changes to the V2X user ID.

It was also suggested to add a paragraph for V2X service ID including a corresponding editor's note that it is for further study.

**Decision:** The document was **revised to S6-190220**.

**S6-190220 Pseudo-CR on Identities**

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

(Replaces S6-190071)

**Discussion:**

Ericsson presented the document available as S6-190220.

It was suggested to make the Note in clause 8.5 a regular text block.

Qualcomm raised a concern with the ".., which is an identifier of the V2X application" in clause 8.5.

It was hence suggested to add an editor's note stating "The relationship between V2X services and V2X applications is FFS."

The only changes are the following:

 - converting the note in clause 8.5 into a regular text block

 - add a new editor's note stating, "The relationship between V2X services and V2X applications is FFS."

 - renumber clause 8.5 to 8.3 and align other numbers accordingly.

With the above changes the revised contribution, S6-190271, is consider pre-approved.

**Decision:** The document was **revised to S6-190271**.

**S6-190271 Pseudo-CR on Identities**

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

(Replaces S6-190220)

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

**S6-190138 Network resource management server as a common enabler service**

 *Type: pCR For: Approval
 23.286 v0.2.0
 Source: Huawei, Hisilicon*

**Abstract:**

Proposal for network resource management server as a common enabler service

**Discussion:**

Huawei presented the document available as S6-190138.

ZTE indicated concern about the network resource interface (clause 6.3.17) and its possible latency.

It was noted that it could be a question about the name of the clause.

**Decision:** The document was **revised to S6-190221**.

**S6-190221 Network resource management server as a common enabler service**

 *Type: pCR For: Approval
 23.286 v0.2.0
 Source: Huawei, Hisilicon*

(Replaces S6-190138)

**Discussion:**

Huawei presented the document available as S6-190221.

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

**S6-190109 Pseudo-CR on V2X ENs for sync with SEAL**

 *Type: pCR For: Approval
 23.286 v0.2.0
 Source: Samsung*

**Abstract:**

The contribution proposes updating ENs in TS 23.286 aligning with the development the SEAL TS.

**Discussion:**

Samsung presented the document available as S6-190109.

Huawei supported in principle the contribution but made some additional change proposals like e.g. to move the editor's note "It is FFS how the common services core entities and…" to SEAL. They also had some editorial proposals that they will provide offline.

**Decision:** The document was **revised to S6-190222**.

**S6-190222 Pseudo-CR on V2X ENs for sync with SEAL**

 *Type: pCR For: Approval
 23.286 v0.2.0
 Source: Samsung*

(Replaces S6-190109)

**Discussion:**

Samsung presented the document available as S6-190222.

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

**S6-190137 V2X USD provisioning by VAE server**

 *Type: pCR For: Approval
 23.286 v0.2.0
 Source: Huawei, Hisilicon*

**Abstract:**

This contribution proposes the procedure and information flows for V2X USD provisioning via V1.

**Discussion:**

Huawei presented the document available as S6-190137.

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

**S6-190139 PC5 parameter provisioning by VAE server**

 *Type: pCR For: Approval
 23.286 v0.2.0
 Source: Huawei, Hisilicon*

**Abstract:**

This contribution proposes the procedure and information flows for PC5 parameters provisioning via V1.

**Discussion:**

Huawei presented the document available as S6-190139.

**Decision:** The document was **revised to S6-190223**.

**S6-190223 PC5 parameter provisioning by VAE server**

 *Type: pCR For: Approval
 23.286 v0.2.0
 Source: Huawei, Hisilicon*

(Replaces S6-190139)

**Discussion:**

Huawei presented the document available as S6-190223.

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

**S6-190140 UE network location reporting**

 *Type: pCR For: Approval
 23.286 v0.2.0
 Source: Huawei, Hisilicon*

**Abstract:**

Proposal for UE network location reporting

**Discussion:**

Huawei presented the document available as S6-190140.

Qualcomm suggested a clarification to the clause 9.x.1 "The location information reporting triggers are based on the location reporting configuration. Different type of location information can be provided." They further suggested minor rewording i.e. deletion of "The" in "The location information of V2X UEs shall.." also in clause 9.x.1.

It was further suggested to change the note in 9.x.1 to an editor's note or delete all together.

**Decision:** The document was **revised to S6-190224**.

**S6-190224 UE network location reporting**

 *Type: pCR For: Approval
 23.286 v0.2.0
 Source: Huawei, Hisilicon*

(Replaces S6-190140)

**Discussion:**

Huawei presented the document available as S6-190224.

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

**S6-190141 Operation modes selection for V2V communications**

 *Type: pCR For: Approval
 23.286 v0.2.0
 Source: Huawei, Hisilicon*

**Abstract:**

Proposal for operation modes selection for V2V communications

**Discussion:**

Huawei presented the document available as S6-190141.

Ericsson raised a concern about the complexity of the proposal with regard to the switching between PC5 and Uu (see also figure 9.x.3.2-1).

Qualcomm agreed with the view of Ericsson because of the rapidity of the switching.

ZTE made a comment that it should be the UE taking the switching decision.

Huawei suggested to further specify the conditions for the solution.

**Decision:** The document was **revised to S6-190225**.

**S6-190225 Operation modes selection for V2V communications**

 *Type: pCR For: Approval
 23.286 v0.2.0
 Source: Huawei, Hisilicon*

(Replaces S6-190141)

**Discussion:**

Huawei presented the document available as S6-190225.

It was suggested to restructure the proposal.

**Decision:** The document was **revised to S6-190298**.

**S6-190298 Operation modes selection for V2V communications**

 *Type: pCR For: Approval
 23.286 v0.2.0
 Source: Huawei, Hisilicon*

(Replaces S6-190225)

**Discussion:**

Huawei presented the document available as S6-190298.

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

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

**S6-190096 Pseudo-CR on SEAL skeleton**

 *Type: pCR For: Approval
 23.434 v0.0.0
 Source: Samsung*

**Abstract:**

Introduces skeleton for SA6 "Service Enabler Architecture Layer for Verticals (SEAL)" TS 23.434 for the WID approved in SP-181141.

**Discussion:**

Samsung presented the document available as S6-190096.

**Decision:** The document was **revised to S6-190218**.

**S6-190218 Pseudo-CR on SEAL skeleton**

 *Type: pCR For: Approval
 23.434 v0.0.0
 Source: Samsung*

(Replaces S6-190096)

**Abstract:**

Introduces skeleton for TS 23.434 SEAL (Service Enabler Architecture Layer for Verticals) for the WID approved in SP-181141.

**Discussion:**

Samsung presented the document available as S6-190218.

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

**S6-190097 Pseudo-CR on SEAL introduction**

 *Type: pCR For: Approval
 23.434 v0.0.0
 Source: Samsung*

**Abstract:**

Introduction description in SEAL TS is proposed to be completed

**Discussion:**

Samsung presented the document available as S6-190097.

Qualcomm suggested deleting or rephrasing "(e.g. group, configuration, identity)" and to rephrase "..3GPP verticals..".

**Decision:** The document was **revised to S6-190206**.

**S6-190206 Pseudo-CR on SEAL introduction**

 *Type: pCR For: Approval
 23.434 v0.0.0
 Source: Samsung*

(Replaces S6-190097)

**Discussion:**

Samsung presented the document available as S6-190206.

Qualcomm suggested replacing common functions with common services.

The only change is to replace "A set of common functions.." with "A set of common services..".

With the above change the revised contribution, S6-190283, is considered pre-approved.

**Decision:** The document was **revised to S6-190283**.

**S6-190283 Pseudo-CR on SEAL introduction**

 *Type: pCR For: Approval
 23.434 v0.0.0
 Source: Samsung*

(Replaces S6-190206)

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

**S6-190098 Pseudo-CR on SEAL scope**

 *Type: pCR For: Approval
 23.434 v0.0.0
 Source: Samsung*

**Abstract:**

The contribution proposes a scope for the SEAL TS 23.434.

**Discussion:**

Samsung presented the document available as S6-190098.

ZTE raised the question whether file upload and download is part of the scope.

Samsung responded that upload and download are part of the work item scope.

Qualcomm suggested rewording the "..functions such as..".

**Decision:** The document was **revised to S6-190207**.

**S6-190207 Pseudo-CR on SEAL scope**

 *Type: pCR For: Approval
 23.434 v0.0.0
 Source: Samsung*

(Replaces S6-190098)

**Discussion:**

Samsung presented the document available as S6-190207.

The only change is to rephrase the editor's note to read "The exact list of SEAL services to be updated at the end of TS development".

With the above change the revised contribution, S6-190284, is considered pre-approved.

**Decision:** The document was **revised to S6-190284**.

**S6-190284 Pseudo-CR on SEAL scope**

 *Type: pCR For: Approval
 23.434 v0.0.0
 Source: Samsung*

(Replaces S6-190207)

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

**S6-190134 Analysis of functionalities of V2X application layer for SEAL**

 *Type: discussion For: Discussion
 Source: Huawei, Hisilicon*

**Abstract:**

This contribution provides an analysis of V2X application support layer which can be generalized as the service enabler architecture for verticals.

**Discussion:**

Huawei presented the document available as S6-190134.

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

**S6-190099 Pseudo-CR on SEAL functional model**

 *Type: pCR For: Approval
 23.434 v0.0.0
 Source: Samsung*

**Abstract:**

SEAL functional model derived from V2X functional model is proposed to be included.

**Discussion:**

Samsung presented the document available as S6-190099.

Qualcomm made various comments and suggested to clarify note 3.

Huawei raised a concern with note 2.

**Decision:** The document was **revised to S6-190208**.

**S6-190208 Pseudo-CR on SEAL functional model**

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

(Replaces S6-190099)

**Abstract:**

Introduces functional model for SEAL mainly derived from V2X application layer functional model in TS 23.286 and generalizing the description according to SEAL scope.

**Discussion:**

Huawei presented the document available as S6-190208.

Motorola Solutions suggested adding an editor's note in clause D.2.2 stating VAL-UU (for identity management) is FFS.

Sepura raised a concern with regard to the security consideration.

Samsung suggested removing NOTE 4.

The chairman suggested replacing in figure 6.2-1, "3GPP interfaces" with "Network interfaces" or similar.

**Decision:** The document was **revised to S6-190285**.

**S6-190285 Pseudo-CR on SEAL functional model**

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

(Replaces S6-190208)

**Discussion:**

Huawei presented the document available as S6-190285.

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

**S6-190100 Pseudo-CR on SEAL functional entities description**

 *Type: pCR For: Approval
 23.434 v0.0.0
 Source: Samsung*

**Abstract:**

SEAL functional model entities description derived from V2X TS 23.286 is proposed to be included.

**Discussion:**

Samsung presented the document available as S6-190100.

**Decision:** The document was **revised to S6-190209**.

**S6-190209 Pseudo-CR on SEAL functional entities description**

 *Type: pCR For: Approval
 23.434 v0.0.0
 Source: Samsung*

(Replaces S6-190100)

**Discussion:**

Samsung presented the document available as S6-190209.

The only changes are:

 - adding Huawei as co-source,

 - fixing clause numbers and

 - removing "(s)" in clauses 6.4.2 to 6.4.5

With the above changes the revised contribution, S6-190301, is considered pre-approved.

**Decision:** The document was **revised to S6-190301**.

**S6-190301 Pseudo-CR on SEAL functional entities description**

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

(Replaces S6-190209)

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

**S6-190101 Pseudo-CR on SEAL reference points description**

 *Type: pCR For: Approval
 23.434 v0.0.0
 Source: Samsung*

**Abstract:**

Proposed text for SEAL reference points description is based on the V2X reference points description in TS 23.286 and adapted to SEAL.

**Discussion:**

Samsung presented the document available as S6-190101.

Qualcomm pointed out some editorial errors e.g. VAE that should read VAL.

It was also suggested to replace "service enabler architecture layer" with SEAL in clause 5.5.1.

**Decision:** The document was **revised to S6-190210**.

**S6-190210 Pseudo-CR on SEAL reference points description**

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

(Replaces S6-190101)

**Discussion:**

Samsung presented the document available as S6-190210.

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

**S6-190136 SEAL functional model**

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

**Abstract:**

This contribution proposes the SEAL functional model.

**Discussion:**

Huawei presented the document available as S6-190134.

It was decided to merge the contents of the present contribution into the contributions:

S6-190208 (revision S6-190099)

S6-190209 (revision S6-190100)

S6-190210 (revision S6-190101)

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

**S6-190102 Pseudo-CR on SEAL architectural requirements - general**

 *Type: pCR For: Approval
 23.434 v0.0.0
 Source: Samsung*

**Abstract:**

Adding SEAL general architectural requirements

**Discussion:**

Samsung presented the document available as S6-190102.

Qualcomm pointed the importance of considering both application from multiple verticals and multiple application from single vertical.

**Decision:** The document was **revised to S6-190211**.

**S6-190211 Pseudo-CR on SEAL architectural requirements - general**

 *Type: pCR For: Approval
 23.434 v0.0.0
 Source: Samsung*

(Replaces S6-190102)

**Discussion:**

Samsung presented the document available as S6-190211.

It was suggested to remove "architecture" from [AR-4.1.2-a].

Sepura pointed out the need for definition for verticals.

An editor's note could be introduced to point out the need for a definition.

Telstra made remark that it might not be up for SA6 (but 3GPP as a whole) to come up with the definition.

**Decision:** The document was **revised to S6-190286**.

**S6-190286 Pseudo-CR on SEAL architectural requirements - general**

 *Type: pCR For: Approval
 23.434 v0.0.0
 Source: Samsung*

(Replaces S6-190211)

**Discussion:**

Samsung presented the document available as S6-190286.

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

**S6-190135 Architecture requirements for SEAL**

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

**Abstract:**

Proposal for architecture requirements for SEAL

**Discussion:**

Huawei presented the document available as S6-190135.

The [SEAL-X.2] requirement was reworded online, but will be finalised offline.

**Decision:** The document was **revised to S6-190212**.

**S6-190212 Architecture requirements for SEAL**

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

(Replaces S6-190135)

**Discussion:**

Huawei presented the document available as S6-190212.

Huawei pointed out that Samsung should be added as co-source and that changes on changes should be removed.

The only changes are to:

 - remove changes on changes in clause X.1 and

 - add Samsung as co-source.

With the above changes the revised contribution, S6-190272, is considered pre-approved.

**Decision:** The document was **revised to S6-190272**.

**S6-190272 Architecture requirements for SEAL**

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

(Replaces S6-190212)

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

**S6-190103 Pseudo-CR on SEAL architectural requirements – deployment models**

 *Type: pCR For: Approval
 23.434 v0.0.0
 Source: Samsung*

**Abstract:**

The contribution introduces deployment models related architectural requirements for SEAL in accordance with the SEAL WID objectives.

**Discussion:**

Samsung presented the document available as S6-190103.

It was suggested to reword requirements [AR-4.x.2-a] and [AR-4.x.2-b] e.g. to add "only" i.e. "..are only deployed..".

**Decision:** The document was **revised to S6-190213**.

**S6-190213 Pseudo-CR on SEAL architectural requirements – deployment models**

 *Type: pCR For: Approval
 23.434 v0.0.0
 Source: Samsung*

(Replaces S6-190103)

**Discussion:**

Samsung presented the document available as S6-190213.

The only change is to replace "capabilities" with services in all five requirements [AR-4.x.2-X].

With the above change the revised contribution, S6-190287, is considered pre-approved.

**Decision:** The document was **revised to S6-190287**.

**S6-190287 Pseudo-CR on SEAL architectural requirements – deployment models**

 *Type: pCR For: Approval
 23.434 v0.0.0
 Source: Samsung*

(Replaces S6-190213)

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

**S6-190104 Pseudo-CR on SEAL architectural requirements – group management**

 *Type: pCR For: Approval
 23.434 v0.0.0
 Source: Samsung*

**Abstract:**

Adding SEAL group management related architectural requirements

**Discussion:**

Samsung presented the document available as S6-190104.

It was suggested to split the requirement [AR-4.x.2-a].

**Decision:** The document was **revised to S6-190214**.

**S6-190214 Pseudo-CR on SEAL architectural requirements – group management**

 *Type: pCR For: Approval
 23.434 v0.0.0
 Source: Samsung*

(Replaces S6-190104)

**Discussion:**

Samsung presented the document available as S6-190214.

Qualcomm suggested adding an editor's note that the definition of service domain is FFS.

The only change is to add beneath requirement [AR-4.x.2-b] an editor's note stating, "Definition of service domain is FFS."

With the above change the revised contribution, S6-190295, is considered pre-approved.

**Decision:** The document was **revised to S6-190295**.

**S6-190295 Pseudo-CR on SEAL architectural requirements – group management**

 *Type: pCR For: Approval
 23.434 v0.0.0
 Source: Samsung*

(Replaces S6-190214)

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

**S6-190105 Pseudo-CR on SEAL architectural requirements – configuration management**

 *Type: pCR For: Approval
 23.434 v0.0.0
 Source: Samsung*

**Abstract:**

Adding SEAL configuration management related architectural requirements

**Discussion:**

Samsung presented the document available as S6-190105.

**Decision:** The document was **revised to S6-190215**.

**S6-190215 Pseudo-CR on SEAL architectural requirements – configuration management**

 *Type: pCR For: Approval
 23.434 v0.0.0
 Source: Samsung*

(Replaces S6-190105)

**Discussion:**

Samsung presented the document available as S6-190215.

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

**S6-190106 Pseudo-CR on SEAL architectural requirements – location management**

 *Type: pCR For: Approval
 23.434 v0.0.0
 Source: Samsung*

**Abstract:**

Introduces location management related architectural requirements for SEAL.

**Discussion:**

Samsung presented the document available as S6-190106.

There was discussion on rephrasing some of the requirements like e.g. below:

[AR-4.x.2-a] The SEAL architecture shall enable location report data (between client and server) for one or more vertical applications.

[AR-4.x.2-c] The SEAL capabilities shall enable client location reporting based on triggers.

Final wording will be completed offline.

**Decision:** The document was **revised to S6-190216**.

**S6-190216 Pseudo-CR on SEAL architectural requirements – location management**

 *Type: pCR For: Approval
 23.434 v0.0.0
 Source: Samsung*

(Replaces S6-190106)

**Discussion:**

Samsung presented the document available as S6-190216.

Qualcomm suggested rewording requirement [AR-4.x.2-e] to read "The SEAL shall enable vertical applications to receive updates to the location information."

The only change is rewording requirement [AR-4.x.2-e] to read "The SEAL shall enable vertical applications to receive updates to the location information."

With the above change the revised contribution, S6-190296, is considered pre-approved.

**Decision:** The document was **revised to S6-190296**.

**S6-190296 Pseudo-CR on SEAL architectural requirements – location management**

 *Type: pCR For: Approval
 23.434 v0.0.0
 Source: Samsung*

(Replaces S6-190216)

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

**S6-190107 Pseudo-CR on SEAL architectural requirements – key and identity management**

 *Type: pCR For: Approval
 23.434 v0.0.0
 Source: Samsung*

**Abstract:**

Introduces key and identity management related architectural requirements for SEAL.

**Discussion:**

Samsung presented the document available as S6-190107.

There was discussion on the wording of the requirement.

The following wording was proposed.

[AR-4.x.2-a] The SEAL capabilities shall support the transfer of security related information (e.g. encryption keys).

[AR-4.y.2-a] The SEAL capabilities shall enable the vertical application layer authorized access to SEAL functionality.

It was further suggested to split the [AR-4.x.2-a] requirement.

The final wording will be completed offline.

**Decision:** The document was **revised to S6-190217**.

**S6-190217 Pseudo-CR on SEAL architectural requirements – key and identity management**

 *Type: pCR For: Approval
 23.434 v0.0.0
 Source: Samsung*

(Replaces S6-190107)

**Discussion:**

Samsung presented the document available as S6-190217.

Motorola Solutions suggested rewording the requirement [AR-4.y.2-a] to read "The SEAL shall enable the authorized access to SEAL services from the vertical application layer entities to be authorized." and adding an editor's note stating, "The relationship between identity management and is for FFS."

The only changes are:

 - rewording the requirement [AR-4.y.2-a] to read "The SEAL shall enable the authorized access to SEAL services from the vertical application layer entities to be authorized."

 - adding and editor's note below requirement [AR-4.y.2-a] stating "The relationship between identity management service and authorization is for FFS."

With the above changes the revised contribution, S6-190297, is considered pre-approved.

**Decision:** The document was **revised to S6-190297**.

**S6-190297 Pseudo-CR on SEAL architectural requirements – key and identity management**

 *Type: pCR For: Approval
 23.434 v0.0.0
 Source: Samsung*

(Replaces S6-190217)

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

**S6-190108 Discussion on SEAL TS organization**

 *Type: discussion For: Endorsement
 Source: Samsung*

**Abstract:**

This document discusses the potential ways to organize descriptions of SEAL functionality along with observations for each proposal.

**Discussion:**

Samsung presented the document available as S6-190108.

Qualcomm was in favour of having separate TSs.

The meeting agreed in principle with the contribution choosing option 2 as a way forward. However, it was decided to keep a single TS structure in Rel-16, but split in Rel-17. The single TS should be structured in a way that would facilitate the split.

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

### 9.9 TEI16 - Technical Enhancements and Improvements

**S6-190042 Corrections to general subclause for pre-arranged and chat group call**

 *Type: discussion For: Discussion
 23.281 v..
 Source: Airbus DS SLC*

**Abstract:**

The ‘general’ subclauses for pre-arranged and chat group calls need some corrections and improvements. Equivalent corrections for MCPTT (23.379) were agreed in S6-181856 (23.379 Rel-16 CR166r2). It is proposed that a new WID for MCVideo Rel-16 is created

**Discussion:**

Airbus presented the document available as S6-190042.

Samsung made a remark that TEI could be used for this kind of changes.

The chairman noted that also some other options may be used i.e. using the open MCPTT WID for such alignment CRs.

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

**S6-190043 Late entry MCVideo chat group call**

 *Type: discussion For: Discussion
 23.281 v..
 Source: Airbus DS SLC*

**Abstract:**

Late entry for MCVideo chat group call is missing from TS23.281. Late entry for MCPTT chat group call was corrected/updated with S6-181873 (TS23.379 Rel-16 CR161r4).

**Discussion:**

Airbus presented the document available as S6-190043.

The chairman noted that also some other options may be used i.e. using the open MCPTT WID for such alignment CRs.

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

**S6-190044 Procedure for MCVideo user leaving a group call**

 *Type: discussion For: Discussion
 23.281 v..
 Source: Airbus DS SLC*

**Abstract:**

Procedure for MCVideo user leaving a group call is missing from TS23.281.

Note that equivalent procedure is proposed to be added also to the MCPTT Rel-16 (S6-190038).

This functionality is already specified in stage 3 TS24.281, subclauses 6.2.4 and 6.3.3.

**Discussion:**

Airbus presented the document available as S6-190044.

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

**S6-190024 Discussion document on the changes required to BEST for the authentication available on the 5G options**

 *Type: discussion For: Discussion
 33.163 v..
 Source: VODAFONE Group Plc*

**Abstract:**

This document discusses how the authentication service provided by the different 4G/5G options affects the BEST TS 33.163.

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

**S6-190025 Discussion document on the changes required to BEST for the authentication available on the 5G options**

 *Type: discussion For: Discussion
 33.163 v..
 Source: VODAFONE Group Plc*

**Abstract:**

This document discusses the authentication service interface between BEST and the 7 options for NR/LTE

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

## 10 Study Items

### 10.1 FS\_FRMCS2 - Study on application architecture for the Future Railway Mobile Communication System (FRMCS) Phase 2

**S6-190049 Pseudo-CR on updating annex A of TR 23.796**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

To keep Annex A up-to-date

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

**S6-190051 Pseudo-CR on updating annex A to indicate those requirements which are not addressed**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

This paper clarifies that the TR does not address a solution for a number of stage 1 requirements.

**Discussion:**

Nokia presented the document available as S6-190051.

**Decision:** The document was **revised to S6-190181**.

**S6-190181 Pseudo-CR on updating annex A to indicate those requirements which are not addressed**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S6-190051)

**Discussion:**

Nokia presented the document available as S6-190181.

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

**S6-190052 Pseudo-CR on adding stage 1 requirement references to key issue 3**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

This paper adds the missing two stage 1 references to the key issue description.

**Discussion:**

Nokia presented the document available as S6-190052.

**Decision:** The document was **revised to S6-190182**.

**S6-190182 Pseudo-CR on adding stage 1 requirement references to key issue 3**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S6-190052)

**Discussion:**

Nokia presented the document available as S6-190182.

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

**S6-190053 Pseudo-CR on adding stage 1 requirement references to key issue 4**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

This paper adds the missing stage 1 reference to the key issue description.

**Discussion:**

Nokia presented the document available as S6-190053.

**Decision:** The document was **revised to S6-190183**.

**S6-190183 Pseudo-CR on adding stage 1 requirement references to key issue 4**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S6-190053)

**Discussion:**

Nokia presented the document available as S6-190183.

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

**S6-190125 GSM-R interworking**

 *Type: discussion For: Discussion
 23.796 v..
 Source: Kapsch CarrierCom France S.A.S*

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

**S6-190114 Pseudo-CR for interworking with GSM-R**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: Kapsch CarrierCom France S.A.S*

**Discussion:**

Nokia presented the document available as S6-190114.

**Decision:** The document was **revised to S6-190184**.

**S6-190184 Pseudo-CR for interworking with GSM-R**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: Kapsch CarrierCom France S.A.S*

(Replaces S6-190114)

**Discussion:**

Nokia presented the document available as S6-190184.

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

**S6-190054 Pseudo-CR on adding a new key issue on commencement modes for MCPTT group calls**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Additional stage 1 requirements require a new key issue.

**Discussion:**

Nokia presented the document available as S6-190054.

**Decision:** The document was **revised to S6-190185**.

**S6-190185 Pseudo-CR on adding a new key issue on commencement modes for MCPTT group calls**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S6-190054)

**Discussion:**

Nokia presented the document available as S6-190185.

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

**S6-190060 Pseudo-CR on a solution on additional commencement modes for MCPTT Group calls**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

This paper proposes a new solution to address the key issue on additional commencement modes for MCPTT Group calls.

**Discussion:**

Nokia presented the document available as S6-190060.

**Decision:** The document was **revised to S6-190186**.

**S6-190186 Pseudo-CR on a solution on additional commencement modes for MCPTT Group calls**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S6-190060)

**Discussion:**

Nokia presented the document available as S6-190186.

TD Tech suggest adding 'group" in the parameter description i.e. to replace "Minimum number of members which must be affiliated before start of the group call" with "Minimum number of group members which must be affiliated before start of the group call"

Huawei suggested adding a clarifying note after step 3.

The Police of Netherlands suggested replacing "before start" to "allowing start" in the parameter description.

**Decision:** The document was **revised to S6-190262**.

**S6-190262 Pseudo-CR on a solution on additional commencement modes for MCPTT Group calls**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S6-190186)

**Discussion:**

Nokia presented the document available as S6-190262.

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

**S6-190095 Pseudo-CR for call forwarding and call transfer for private calls**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: Kapsch CarrierCom France S.A.S*

**Decision:** The document was **revised to S6-190187**.

**S6-190187 Pseudo-CR for call forwarding and call transfer for private calls**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: Kapsch CarrierCom France S.A.S*

(Replaces S6-190095)

**Discussion:**

Kapsch CarrierCom presented the document available as S6-190187.

Motorola Solutions suggested rewording of the editor's note.

The only change is replacing the first editor's note in 5.x with "Handling of call forwarding and call transfer in busy condition is FFS."

With the above change the revised contribution, S6-190279, is considered pre-approved.

**Decision:** The document was **revised to S6-190279**.

**S6-190279 Pseudo-CR for call forwarding and call transfer for private calls**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: Kapsch CarrierCom France S.A.S*

(Replaces S6-190187)

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

**S6-190113 Pseudo-CR for call forwarding and call transfer for private calls**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: Kapsch CarrierCom France S.A.S*

**Abstract:**

This contribution adds the solution for the newly introduced requirements concerning call forwarding and call transfer of private calls with and without floor control.

**Discussion:**

Kapsch CarrierCom presented the document available as S6-190113.

**Decision:** The document was **revised to S6-190188**.

**S6-190188 Pseudo-CR for call forwarding and call transfer for private calls**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: Kapsch CarrierCom France S.A.S*

(Replaces S6-190113)

**Discussion:**

Kapsch CarrierCom presented the document available as S6-190188.

Motorola Solutions suggested modifying the step 3 in 7.x.1.4.

Nokia suggested and editor's note on configuration and user input.

**Decision:** The document was **revised to S6-190294**.

**S6-190294 Pseudo-CR for call forwarding and call transfer for private calls**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: Kapsch CarrierCom France S.A.S*

(Replaces S6-190188)

**Discussion:**

Kapsch CarrierCom presented the document available as S6-190294.

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

**S6-190055 Pseudo-CR on introducing a new key issue on triggering an emergency group communication after an emergency alert**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

This paper suggests a new key issue capturing a stage 1 requirement.

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

**S6-190059 Pseudo-CR on a solution on triggering an emergency group communication after an emergency alert automatically**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

This paper proposes a new solution to address the key issue on automatic start of an emergency group communication after an emergency group alert.

**Discussion:**

Nokia presented the document available as S6-190059.

**Decision:** The document was **revised to S6-190189**.

**S6-190189 Pseudo-CR on a solution on triggering an emergency group communication after an emergency alert automatically**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S6-190059)

**Discussion:**

Nokia presented the document available as S6-190189.

The only change is to replace all occurrences of "MCPPT" with "MCPTT".

With the above change the revised contribution, S6-190263, is considered pre-approved.

**Decision:** The document was **revised to S6-190263**.

**S6-190263 Pseudo-CR on a solution on triggering an emergency group communication after an emergency alert automatically**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S6-190189)

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

**S6-190056 Pseudo-CR on introducing a new key issue on limiting the number of parallel emergency group communications**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

This paper suggests a new key issue capturing a stage 1 requirement.

**Discussion:**

Nokia presented the document available as S6-190056.

**Decision:** The document was **revised to S6-190190**.

**S6-190190 Pseudo-CR on introducing a new key issue on limiting the number of parallel emergency group communications**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S6-190056)

**Discussion:**

Nokia presented the document available as S6-190190.

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

**S6-190058 Pseudo-CR on a solution to limit the number of parallel emergency group calls**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Solution 5 is updated to address the key issue and the related stage 1 requirement.

**Discussion:**

Nokia presented the document available as S6-190058.

**Decision:** The document was **revised to S6-190191**.

**S6-190191 Pseudo-CR on a solution to limit the number of parallel emergency group calls**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S6-190058)

**Discussion:**

Nokia presented the document available as S6-190191.

The Police of Netherlands suggested some rewordings to the step 8.

**Decision:** The document was **revised to S6-190264**.

**S6-190264 Pseudo-CR on a solution to limit the number of parallel emergency group calls**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S6-190191)

**Discussion:**

Nokia presented the document available as S6-190264.

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

**S6-190057 Pseudo-CR on solution 4 to configure private call restrictions**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Solution 4 is updated so that the MCPTT user profile data considers related stage 1 requirements.

**Discussion:**

Nokia presented the document available as S6-190057.

**Decision:** The document was **revised to S6-190192**.

**S6-190192 Pseudo-CR on solution 4 to configure private call restrictions**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S6-190057)

**Discussion:**

Nokia presented the document available as S6-190192.

The Police of Netherlands suggested to replace "can be made" with "is allowed".

**Decision:** The document was **revised to S6-190265**.

**S6-190265 Pseudo-CR on solution 4 to configure private call restrictions**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S6-190192)

**Discussion:**

Nokia presented the document available as S6-190265.

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

**S6-190061 Pseudo-CR on updating solution 10 on periodic location information reporting**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

The solution resolves an editor's note by adding additional information.

**Discussion:**

Nokia presented the document available as S6-190061.

**Decision:** The document was **revised to S6-190193**.

**S6-190193 Pseudo-CR on updating solution 10 on periodic location information reporting**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S6-190061)

**Discussion:**

Nokia presented the document available as S6-190193.

It was suggested to clarify the step 8.

**Decision:** The document was **revised to S6-190266**.

**S6-190266 Pseudo-CR on updating solution 10 on periodic location information reporting**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S6-190193)

**Discussion:**

Nokia presented the document available as S6-190266.

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

**S6-190028 Discussion on the issue of FRMCS Solution 12**

 *Type: discussion For: Discussion
 23.796 v1.0.0
 Source: ZTE Trunking*

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

**S6-190031 Pseudo-CR on Updating the evaluation part of FRMCS Solution 12**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: ZTE Trunking*

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

**S6-190090 Pseudo-CR on solution for application layer priorities**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: TD Tech, CHENGDU TD TECH LTD.*

**Abstract:**

This contribution provides solutions for key issue regarding application layer priorities.

**Discussion:**

TD Tech presented the document available as S6-190090.

**Decision:** The document was **revised to S6-190194**.

**S6-190194 Pseudo-CR on solution for application layer priorities**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: TD Tech, CHENGDU TD TECH LTD.*

(Replaces S6-190090)

**Discussion:**

TD Tech presented the document available as S6-190194.

The only change is to remove the superfluous document named "S6-190194 was 190076 pCR 23479 general description" from the zip archive.

With the above change the revised contribution, S6-190267, is considered pre-approved.

**Decision:** The document was **revised to S6-190267**.

**S6-190267 Pseudo-CR on solution for application layer priorities**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: TD Tech, CHENGDU TD TECH LTD.*

(Replaces S6-190194)

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

**S6-190027 Pseudo-CR on Enhancement of FRMCS Solution 13**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: ZTE Trunking*

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

**S6-190026 Pseudo-CR on Clarification on FRMCS Solution 14**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: ZTE Trunking*

**Decision:** The document was **revised to S6-190195**.

**S6-190195 Pseudo-CR on Clarification on FRMCS Solution 14**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: ZTE Trunking*

(Replaces S6-190026)

**Discussion:**

ZTE presented the document available as S6-190195.

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

**S6-190078 Pseudo-CR for MC service application gateway**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: UIC (Union Inter. Chemins de Fer), Nokia*

**Abstract:**

This document addresses the topic of access to the MC service system without direct access to the 3GPP system. In particular, it provides statements on the necessary range of functions, the classification of the MC service application gateway in comparison to ProSe and initial solutions in relation to the functional architecture.

**Discussion:**

UIC presented the document available as S6-190078.

**Decision:** The document was **revised to S6-190197**.

**S6-190197 Pseudo-CR for MC service application gateway**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: UIC (Union Inter. Chemins de Fer), Nokia*

(Replaces S6-190078)

**Discussion:**

UIC presented the document available as S6-190197.

Huawei suggested to rename the Figure 7.xx.1.3-1: title to read "MC gateway UE illustration"

Motorola Solutions suggested stating the association between MC service clients and SIP clients is FFS.

**Decision:** The document was **revised to S6-190268**.

**S6-190268 Pseudo-CR for MC service application gateway**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: UIC (Union Inter. Chemins de Fer), Nokia*

(Replaces S6-190197)

**Discussion:**

UIC presented the document available as S6-190268.

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

**S6-190089 Pseudo-CR for IP connectivity**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: UIC, Nokia*

**Abstract:**

This document addresses the topic the IP connectivity between two or more MC service clients that can be operated on different devices. Two or more MC service clients can communicate with each other at the same time.

**Discussion:**

UIC presented the document available as S6-190089.

**Decision:** The document was **revised to S6-190198**.

**S6-190198 Pseudo-CR for IP connectivity**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: UIC, Nokia*

(Replaces S6-190089)

**Discussion:**

UIC presented the document available as S6-190198.

Motorola Solutions suggested clarifying the IP connectivity.

**Decision:** The document was **revised to S6-190269**.

**S6-190269 Pseudo-CR for IP connectivity**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: UIC, Nokia*

(Replaces S6-190198)

**Discussion:**

UIC presented the document available as S6-190269.

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

**S6-190145 Functional alias controlling for MCVideo and MCData services**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: Huawei, Hisilicon*

**Abstract:**

Proposal for functional alias controlling for MCVideo and MCData services

**Discussion:**

UIC presented the document available as S6-190145.

**Decision:** The document was **revised to S6-190199**.

**S6-190199 Functional alias controlling for MCVideo and MCData services**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: Huawei, Hisilicon*

(Replaces S6-190145)

**Discussion:**

UIC presented the document available as S6-190199.

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

**S6-190050 Pseudo-CR on updating the key issue and solution evaluation table**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Updates the overall evaluation section to reflect the latest achievements

**Discussion:**

Nokia presented the document available as S6-190050.

**Decision:** The document was **revised to S6-190200**.

**S6-190200 Pseudo-CR on updating the key issue and solution evaluation table**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S6-190050)

**Discussion:**

Nokia presented the document available as S6-190200.

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

**S6-190062 Pseudo-CR on proposing text for the conclusion section**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

The conclusion section requires further updates, especially on the list of candidate solutions which are suggested to become normative.

**Discussion:**

Nokia presented the document available as S6-190062.

**Decision:** The document was **revised to S6-190201**.

**S6-190201 Pseudo-CR on proposing text for the conclusion section**

 *Type: pCR For: Approval
 23.796 v1.0.0
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S6-190062)

**Discussion:**

Nokia presented the document available as S6-190201.

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

**S6-190202 Reserved for breakout, not used.**

 *Type: other For: discussion
 Source: n/a*

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

**S6-190203 Reserved for breakout, not used.**

 *Type: other For: discussion
 Source: n/a*

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

**S6-190204 Reserved for breakout, not used.**

 *Type: other For: discussion
 Source: n/a*

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

**S6-190205 Reserved for breakout, not used.**

 *Type: other For: discussion
 Source: n/a*

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

### 10.2 FS\_MCSAA - Study on MC services access aspects

**S6-190087 Update solution 6: Procedure for switching between primary and IOPS MC system**

 *Type: pCR For: Approval
 23.778 v1.0.0
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S6-190196**.

**S6-190196 Update solution 6: Procedure for switching between primary and IOPS MC system**

 *Type: pCR For: Approval
 23.778 v1.0.0
 Source: Huawei, Hisilicon*

(Replaces S6-190087)

**Discussion:**

Huawei presented the document available as S6-190196.

Ericsson suggested to revert the changes to the structure.

The only changes are to;

- rename subclause 6.6. to read “Solution 6: Procedure for switching from the primary MC system to an IOPS MC system”

- Removing subclause title 6.6.2.1, and undo the changes to figure numbers.

With the above changes the revised contribution, S6-190270, is considered pre-approved.

**Decision:** The document was **revised to S6-190270**.

**S6-190270 Update solution 6: Procedure for switching between primary and IOPS MC system**

 *Type: pCR For: Approval
 23.778 v1.0.0
 Source: Huawei, Hisilicon*

(Replaces S6-190196)

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

### 10.3 FS\_MCOver5GS - Study on Mission Critical Services support over 5G System

**S6-190019 Pseudo-CR on identifying HSS as E-UTRAN/EPS specific term**

 *Type: pCR For: Approval
 23.783 v0.3.0
 Source: The Police of the Netherlands*

**Abstract:**

This pCR adds "HSS" as E-UTRAN/EPS term to the list in the Introduction clause of TR 23.783, adds the term on the title pages of the annexes and highlights occurrences of the term in the annexes (HSS only occurs in annex A).

**Discussion:**

The Police of Netherlands presented the document available as S6-190019.

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

**S6-190032 Pseudo-CR identifying E-UTRAN/EPS terminology in TS 23.379 clause 3.1**

 *Type: pCR For: Approval
 23.783 v0.3.0
 Source: The Police of the Netherlands*

**Abstract:**

This pCR adds a subclause to TR 23.783 that identifies E-UTRAN/EPS specific terminology in clause 3.1 of TS 23.379.

**Discussion:**

The Police of Netherlands presented the document available as S6-190032.

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

**S6-190033 Pseudo-CR on identifying E-UTRAN/EPS terminology in TS 23.379 clause 4 Introduction**

 *Type: pCR For: Approval
 23.783 v0.3.0
 Source: The Police of the Netherlands*

**Abstract:**

This pCR adds a subclause to TR 23.783 that identifies E-UTRAN/LTE specific terminology in the clause 4 Introduction of TS 23.379.

**Discussion:**

The Police of Netherlands presented the document available as S6-190033.

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

**S6-190035 Pseudo-CR identifying E-UTRAN/EPS terminology in TS 23.281 clause 6.2.2.2**

 *Type: pCR For: Approval
 23.783 v0.3.0
 Source: The Police of the Netherlands*

**Abstract:**

This pCR adds a subclause to TR 23.783 that identifies E-UTRAN/EPS specific terminology in clause 6.2.2.2 of TS 23.281.

**Discussion:**

The Police of Netherlands presented the document available as S6-190035.

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

**S6-190036 Pseudo-CR identifying E-UTRAN/EPS terminology in TS 23.282 clause 4 Introduction**

 *Type: pCR For: Approval
 23.783 v0.3.0
 Source: The Police of the Netherlands*

**Abstract:**

This pCR adds a subclause to TR 23.783 that identifies E-UTRAN/EPS specific terminology in clause 4 Introduction of TS 23.282.

**Discussion:**

The Police of Netherlands presented the document available as S6-190036.

It was suggested to divide the main paragraph in 4.4.Y.

The rapporteur made a remark that there was a space missing after TS 23.501. The rapporteur would correct this.

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

**S6-190034 pCR identifying E-UTRAN EPS terminology in TS 23.379 clause 6.2.2.2 Common services core**

 *Type: pCR For: Approval
 23.783 v0.3.0
 Source: The Police of the Netherlands*

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

### 10.4 FS\_MCLOG - Study into discreet listening and logging for mission critical services

**S6-190122 pCR Key Issue on multiple devices**

 *Type: pCR For: Approval
 23.784 v0.0.4
 Source: Motorola Solutions*

**Abstract:**

An MC service user may be receiving MC service on multiple devices. A discreet listening or logging service will expect to be able to receive or log communications that the user takes part in on any of these devices. This pCR introduces a key issue for this case.

**Discussion:**

Motorola Solutions presented the document available as S6-190122.

TD Tech made a remark that the issues were more like requirements.

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

**S6-190123 pCR Solution for logging**

 *Type: pCR For: Approval
 23.784 v0.0.4
 Source: Motorola Solutions*

**Abstract:**

This contribution introduces a solution for logging.

**Discussion:**

Motorola Solutions presented the document available as S6-190123.

The Police of Netherlands raised the question whether there should be some information about the user logging access control.

Motorola Solutions suggested stating this was out of scope.

It was also suggested to clarify information on configuration.

**Decision:** The document was **revised to S6-190227**.

**S6-190227 pCR Solution for logging**

 *Type: pCR For: Approval
 23.784 v0.0.4
 Source: Motorola Solutions*

(Replaces S6-190123)

**Discussion:**

Motorola Solutions presented the document available as S6-190227.

TD Tech suggested clarifying that the logging entity is a logical entity as opposed to physical entity.

TD Tech noted that some further security might be needed between the logging entity and services.

Motorola Solutions noted that an editor's note could be added stating that security considerations are out of scope.

It was noted that the "Y":s should be removed from the MC service UE column in table 6.x.1.2-2.

Huawei raised the question why MC logging replay equipment are separated.

Motorola Solutions pointed out that commercial equipment on the market today seem to be produced in such manner.

Sepura raised a question about MC service logging client vs MC logging client.

Motorola Solutions suggested use MC logging client.

**Decision:** The document was **revised to S6-190288**.

**S6-190288 pCR Solution for logging**

 *Type: pCR For: Approval
 23.784 v0.0.4
 Source: Motorola Solutions*

(Replaces S6-190227)

**Discussion:**

Motorola Solutions presented the document available as S6-190288.

The Police of Netherlands suggested a change to Note 3.

The only change is to replace the beginning of the Note 3 "Inclusion of MC service user authentication and authorization for the replay equipment within this solution allows" with "Inclusion of the mechanisms for MC service user authentication and authorization for use by the replay equipment within this solution allows.

With this change the revised contribution, S6-190300, is considered pre-approved.

**Decision:** The document was **revised to S6-190300**.

**S6-190300 pCR Solution for logging**

 *Type: pCR For: Approval
 23.784 v0.0.4
 Source: Motorola Solutions*

(Replaces S6-190288)

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

**S6-190124 pCR Overall evaluation**

 *Type: pCR For: Approval
 23.784 v0.0.4
 Source: Motorola Solutions*

**Abstract:**

This pCR presents an overall evaluation to capture the evaluations of each individual solution, and to indicate a mapping of key issues to solutions.

**Discussion:**

Motorola Solutions presented the document available as S6-190124.

The Police of Netherlands suggested some re-ordering of the tables.

TD Tech pointed out that some verification with SA1 was required.

**Decision:** The document was **revised to S6-190228**.

**S6-190228 pCR Overall evaluation**

 *Type: pCR For: Approval
 23.784 v0.0.4
 Source: Motorola Solutions*

(Replaces S6-190124)

**Discussion:**

Motorola Solutions presented the document available as S6-190228.

Motorola Solutions noted that the solution x description in table 7.2-2 will need to be updated.

**Decision:** The document was **revised to S6-190289**.

**S6-190289 pCR Overall evaluation**

 *Type: pCR For: Approval
 23.784 v0.0.4
 Source: Motorola Solutions*

(Replaces S6-190228)

**Discussion:**

Motorola Solutions presented the document available as S6-190289.

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

### 10.5 FS\_enhMCLoc - Study on location enhancements for mission critical services

**S6-190068 Pseudo-CR on off-network handling of event-triggered location information**

 *Type: pCR For: Approval
 23.744 v0.1.0
 Source: BDBOS, BMWi*

**Abstract:**

This pCR adds a solution for key issue 2: “Location History Reporting” to 3GPP TR 23.744.

**Discussion:**

BDBOS presented the document available as S6-190068.

Motorola Solutions suggested to clarify whether this solution also is intended to work when moving out of coverage. They further suggested to delete the "triggering step 4" from step 3.

Huawei suggested to move the FFS sentence (in the note) into an editor's note.

FirstNet suggested just to delete the FFS sentence.

**Decision:** The document was **revised to S6-190230**.

**S6-190230 Pseudo-CR on off-network handling of event-triggered location information**

 *Type: pCR For: Approval
 23.744 v0.1.0
 Source: BDBOS, BMWi*

(Replaces S6-190068)

**Discussion:**

BDBOS presented the document available as S6-190230.

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

**S6-190069 Pseudo-CR on on-demand location history reporting**

 *Type: pCR For: Approval
 23.744 v0.1.0
 Source: BDBOS, BMWi*

**Abstract:**

This pCR adds a solution for key issue 2: “Location History Reporting” to 3GPP TR 23.744.

**Discussion:**

BDBOS presented the document available as S6-190069.

There was a discussion on adding a precondition stating that it is assumed that the location management server has knowledge about the user having network coverage.

It was pointed out that the "flow from the MC service server to the location management server" was incorrect.

**Decision:** The document was **revised to S6-190231**.

**S6-190231 Pseudo-CR on on-demand location history reporting**

 *Type: pCR For: Approval
 23.744 v0.1.0
 Source: BDBOS, BMWi*

(Replaces S6-190069)

**Discussion:**

BDBOS presented the document available as S6-190231.

Motorola Solutions suggested rephrasing the note 2.

The only changes are:

 - rephrase note 2 in clause 6.x.2.2 to read "Last stored location information report is transmitted first."

 - in the sentence below step 6 clause 6.x.2.2 replace "on ore many" with "on or many"

With the above changes the revised contribution, S6-190281, is considered pre-approved.

**Decision:** The document was **revised to S6-190281**.

**S6-190281 Pseudo-CR on on-demand location history reporting**

 *Type: pCR For: Approval
 23.744 v0.1.0
 Source: BDBOS, BMWi*

(Replaces S6-190231)

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

**S6-190070 Pseudo-CR on triggered location history reporting**

 *Type: pCR For: Approval
 23.744 v0.1.0
 Source: BDBOS, BMWi*

**Abstract:**

This pCR adds a solution for key issue 2: “Location History Reporting” to 3GPP TR 23.744.

**Discussion:**

BDBOS presented the document available as S6-190070.

Motorola Solutions suggested deleting the "which triggers step 2" from step 1.

Sepura suggested including a procedure for stopping reporting in case of congestion.

**Decision:** The document was **revised to S6-190232**.

**S6-190232 Pseudo-CR on triggered location history reporting**

 *Type: pCR For: Approval
 23.744 v0.1.0
 Source: BDBOS, BMWi*

(Replaces S6-190070)

**Discussion:**

BDBOS presented the document available as S6-190232.

Only changes are:

 - replacing "regonized" with "recognized" in Figure 6.x.2.1-1 and

 - correcting style issues.

With the above changes the revised contribution, S6-190282, is considered pre-approved.

**Decision:** The document was **revised to S6-190282**.

**S6-190282 Pseudo-CR on triggered location history reporting**

 *Type: pCR For: Approval
 23.744 v0.1.0
 Source: BDBOS, BMWi*

(Replaces S6-190232)

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

**S6-190072 Pseudo-CR on use case and key issue for sharing location information**

 *Type: pCR For: Approval
 23.744 v0.1.0
 Source: BDBOS, BMWi*

**Abstract:**

This pCR adds a use case and key issue to 3GPP TR 23.744.

**Discussion:**

BDBOS presented the document available as S6-190072.

FirstNet was of the opinion that the Architectural requirement wasn't related to the use case in question.

The Police of Netherlands suggested clarifying (if that is the case) that the purpose is really to share the location information between the users.

It was also noted that the use case and key issue does note map well.

**Decision:** The document was **revised to S6-190233**.

**S6-190233 Pseudo-CR on use case and key issue for sharing location information**

 *Type: pCR For: Approval
 23.744 v0.1.0
 Source: BDBOS, BMWi*

(Replaces S6-190072)

**Discussion:**

BDBOS presented the document available as S6-190233.

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

**S6-190073 Pseudo-CR on key issue for individual MC UE identity**

 *Type: pCR For: Approval
 23.744 v0.1.0
 Source: BDBOS, BMWi*

**Abstract:**

This pCR adds a key issue to 3GPP TR 23.744

**Discussion:**

BDBOS presented the document available as S6-190073.

Motorola Solutions was of the view that proposal was at wrong level of detail.

Qualcomm made remark that if we need the details as described then one should use the IMEI. However, it was unclear whether this was the intention.

Huawei was of the view that one could simply register equipment with nicknames.

**Decision:** The document was **revised to S6-190234**.

**S6-190234 Pseudo-CR on key issue for individual MC UE identity**

 *Type: pCR For: Approval
 23.744 v0.1.0
 Source: BDBOS, BMWi*

(Replaces S6-190073)

**Discussion:**

BDBOS presented the document available as S6-190234.

AT&T raised the question about the wording of "A MC service client ID could be a globally unique identifier.." and in particular the use of could.

The Police of Netherlands suggested to delete the two bullets as seemed like a solution.

Finally, it was suggested to convert the bullets to an editor's note.

**Decision:** The document was **revised to S6-190290**.

**S6-190290 Pseudo-CR on key issue for individual MC UE identity**

 *Type: pCR For: Approval
 23.744 v0.1.0
 Source: BDBOS, BMWi*

(Replaces S6-190234)

**Discussion:**

BDBOS presented the document available as S6-190290.

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

**S6-190075 Pseudo-CR on solution for individual MC UE identity**

 *Type: pCR For: Approval
 23.744 v0.1.0
 Source: BDBOS, BMWi*

**Abstract:**

This pCR adds a solution to 3GPP TR 23.744 for the key issue to distinguish between location information by operating several UEs under the same MC service ID

**Discussion:**

BDBOS presented the document available as S6-190075.

Motorola Solutions was of the view that the proposal went in too much detail, including building blocks we don't want to standardise.

The Police of Netherlands thought that the proposal contained e.g. some security aspects that are important but out of context.

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

**S6-190093 Pseudo-CR on location information from UE of unauthenticated MC user**

 *Type: pCR For: Approval
 23.744 v0.1.0
 Source: BDBOS, BMWi*

**Abstract:**

This pCR adds a use case and key issue to 3GPP TR 23.744 for the need of being able to request and send location information from a UE before its user has authenticated to MC service(s).

**Discussion:**

BDBOS presented the document available as S6-190093.

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

### 10.6 FS\_FFAPP - Application layer support for Factories of the Future in 5G network

**S6-190015 Proposed skeleton for TR on study on application layer support for Factories of the Future in 5G network**

 *Type: pCR For: Approval
 23.745 v0.0.0
 Source: ZTE Corporation*

**Abstract:**

The contribution proposes a skeleton for TR 23.745 "Study on application layer support for Factories of the Future in 5G network".

**Discussion:**

ZTE presented the document available as S6-190015.

It was suggested to rephrase clause 4 heading to read

"Analysis of existing standards", clause 6 heading "Assumptions and architectural requirements" and clause 4.2 "Topic 1".

**Decision:** The document was **revised to S6-190235**.

**S6-190235 Proposed skeleton for TR on study on application layer support for Factories of the Future in 5G network**

 *Type: pCR For: Approval
 23.745 v0.0.0
 Source: ZTE Corporation*

(Replaces S6-190015)

**Discussion:**

ZTE presented the document available as S6-190235.

It was suggested accepting all changes to make a clean skeleton document.

The only changes are:

 - accepting change marks and

 - replacing standard with standards in clause 4 title and editor's notes.

With the above changes the revised contribution, S6-190291, is considered pre-approved.

**Decision:** The document was **revised to S6-190291**.

**S6-190291 Proposed skeleton for TR on study on application layer support for Factories of the Future in 5G network**

 *Type: pCR For: Approval
 23.745 v0.0.0
 Source: ZTE Corporation*

(Replaces S6-190235)

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

**S6-190018 Proposal for scope**

 *Type: pCR For: Approval
 23.745 v0.0.0
 Source: ZTE Corporation*

**Abstract:**

This document provides a proposal for the scope of TR23.745.

**Discussion:**

ZTE presented the document available as S6-190018.

It was noted that TR 22.725 and TR 22.734 should read TR 23.725 and TR 23.734.

Qualcomm did not see the need to refer to all the mentioned TRs, but suggested to concentrate on the actual scope.

Huawei voiced similar concerns as Qualcomm.

Qualcomm further stated that the work should not commence before normative stage 1 work has been completed.

**Decision:** The document was **revised to S6-190236**.

**S6-190236 Proposal for scope**

 *Type: pCR For: Approval
 23.745 v0.0.0
 Source: ZTE Corporation*

(Replaces S6-190018)

**Discussion:**

ZTE presented the document available as S6-190236.

It was noted that changes on changes should be removed and new text appear with change marks.

Qualcomm suggested adding reference to TS 22.104.

**Decision:** The document was **revised to S6-190292**.

**S6-190292 Proposal for scope**

 *Type: pCR For: Approval
 23.745 v0.0.0
 Source: ZTE Corporation*

(Replaces S6-190236)

**Discussion:**

ZTE presented the document available as S6-190292.

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

**S6-190020 Analysis of TR 22.804**

 *Type: pCR For: Approval
 23.745 v0.0.0
 Source: ZTE Corporation*

**Abstract:**

This document provides a proposal for the analysis of TR 22.804.

**Discussion:**

ZTE presented the document available as S6-190020.

It was noted that the study should be based normative work.

Huawei made a remark that one should only list requirements with application impact.

Qualcomm pointed out that the current work should concentrate on preparatory work e.g. on scope and introduction until the normative work is available.

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

**S6-190021 Analysis of TR 22.821**

 *Type: pCR For: Approval
 23.745 v0.0.0
 Source: ZTE Corporation*

**Abstract:**

This document provides a proposal for the analysis of TR 22.821.

**Discussion:**

ZTE presented the document available as S6-190021.

It was noted that the contribution had the same issues as S6-190020.

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

**S6-190022 Analysis of TR 23.734**

 *Type: pCR For: Approval
 23.745 v0.0.0
 Source: ZTE Corporation*

**Abstract:**

This document provides a proposal for the analysis of TR 23.734.

**Discussion:**

ZTE presented the document available as S6-190022.

It was noted that the contribution had the same issues as S6-190020 (and S6-190021).

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

## 11 Future work / New WIDs (including related contributions)

**S6-190063 New WID on Application Architecture for the Mobile Communication System for Railways (MONASTERY) Phase 2**

 *Type: WID new For: Agreement
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

New WID to start normative work on railways in Rel-16

**Discussion:**

Nokia presented the document available as S6-190063.

It was suggested to add eMCData2 as other related work.

The Police of Netherlands suggested to specify the objective in more detail.

**Decision:** The document was **revised to S6-190237**.

**S6-190237 New WID on Application Architecture for the Mobile Communication System for Railways (MONASTERY) Phase 2**

 *Type: WID new For: Agreement
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S6-190063)

**Discussion:**

Nokia presented the document available as S6-190237.

The chairman suggested adding "including" after '...conclusions captured in 3GPP TR 23.796:"

The only changes are:

 - adding the word "including" after '...conclusions captured in 3GPP TR 23.796"

 - removing empty rows in supporting companies and

 - removing track changes.

With the above changes the revised contribution, S6-190273 is considered pre-agreed.

**Decision:** The document was **revised to S6-190273**.

**S6-190273 New WID on Application Architecture for the Mobile Communication System for Railways (MONASTERY) Phase 2**

 *Type: WID new For: Agreement
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S6-190237)

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

**S6-190111 Study on Application Architecture for enabling EDGE Applications**

 *Type: discussion For: Discussion
 Source: Samsung*

**Abstract:**

The contribution presents a proposal for new work on Study on Application Architecture for enabling EDGE applications.

**Discussion:**

Samsung presented the document available as S6-190111.

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

**S6-190112 New SID on Application Architecture for enabling EDGE Applications**

 *Type: SID new For: Agreement
 Source: Samsung*

**Abstract:**

Proposal for a New SID on Application Architecture for enabling EDGE Applications

**Discussion:**

Revised prior to presentation.

**Decision:** The document was **revised to S6-190148**.

**S6-190148 New SID on Application Architecture for enabling EDGE Applications**

 *Type: SID new For: Agreement
 Source: Samsung*

(Replaces S6-190112)

**Discussion:**

Revised prior to presentation.

**Decision:** The document was **revised to S6-190229**.

**S6-190229 New SID on Application Architecture for enabling EDGE Applications**

 *Type: SID new For: Agreement
 Source: Samsung*

(Replaces S6-190148)

**Discussion:**

Samsung presented the document available as S6-190229.

Qualcomm wanted the SID to be clearer on what is going to be studied as well as the relation with ETSI MEC. Also, whether this is work is within the scope of SA6 should be clear.

Intel stated that work in 3GPP and ETSI would be complementary and having this work being done in SA6 would facilitate the work of SA2.

Verizon stated that ETSI MEC has done very good work on multi-access MEC, and the intention with the study is not take anything away from ETSI MEC.

Qualcomm suggested capturing as an objective e.g. identifying gaps in order to enable MEC on 5G systems.

**Decision:** The document was **revised to S6-190238**.

**S6-190238 New SID on Application Architecture for enabling EDGE Applications**

 *Type: SID new For: Agreement
 Source: Samsung*

(Replaces S6-190229)

**Abstract:**

The contribution proposes a study on Application Architecture for enabling Edge Applications.

**Discussion:**

Samsung presented the document available as S6-190238.

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

## 12 Work Plan review

**S6-190274 Summary of status report**

 *Type: report For: discussion
 Source: Qualcomm*

**Discussion:**

Qualcomm introduced the document available as S6-190238.

Each rapporteur (attending) presented the status of their corresponding work item.

Information on the current status can also be found in S6-190302.

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

**S6-190017 Work Plan review at SA6#28**

 *Type: Work Plan For: Discussion
 Source: SA6 Chairman*

**Abstract:**

This document serves as a reference for SA6 Work Plan review and progress update after SA6#28.

**Decision:** The document was **revised to S6-190302**.

**S6-190302 Work Plan review at SA6#28**

 *Type: Work Plan For: Discussion
 Source: SA6 Chairman*

(Replaces S6-190017)

**Abstract:**

The status of the SA6 work can be found below (extracted from S6-190302).

**Rel-16 Studies**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Study Item**  | **Target Completion Date** | **Completion % (before SA6#28)** | **Completion % (after SA6#28)** | **Remarks** |
| FS\_FRMCS2 | SA#83 (03/2019) | 65% | **80%** |  |
| FS\_MCSAA | SA#83 (03/2019) | 70% | **70%** | New target completion date - SA#84 |
| FS\_MCOver5GS | SA#85 (09/2019) | 35% | **35%** |  |
| FS\_MCLOG | SA#84 (06/2019) | 50% | **60%** | Prepare TR for information to SA#83 |
| FS\_enhMCLoc | SA#83 (03/2019) | 20% | **40%** | New target completion date - SA#84 |
| FS\_FFAPP | SA#86 (12/2019) | 0% | **5%** | Normative work update from Stage 1 would be useful |
| FS\_UASAPP | SA#87 (03/2020) | 0% | **0%** | No work expected in Q1/2019 |

**Rel-16 Work-Items**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Work Item**  | **Target Completion Date** | **Completion % (before SA6#28)** | **Completion %****(after SA6#28)** | **Remarks** |
| eCAPIF | SA#84 (06/2019) | 45% | **60%** |  |
| enh2MCPTT | SA#83 (03/2019) | 35% | **50%** | New target completion date - SA#84 |
| eMCData2 | SA#84 (06/2019) | 40% | **55%** |  |
| eMCSMI | SA#84 (06/2019) | 10% | **30%** |  |
| eMCCI | SA#84 (06/2019) | 15% | **25%** |  |
| MBMSAPI\_MCS | SA#83 (03/2019) | 65% | **75%** |  |
| V2XAPP | SA#84 (06/2019) | 25% | **45%** |  |
| SEAL | SA#84 (06/2019) | 0% | **20%** |  |

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

**S6-190064 FS\_FRMCS2 status report**

 *Type: Work Plan For: Information
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Study on application architecture for the Future Railway Mobile Communication System (FRMCS) Phase 2

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

**S6-190092 Status report of MBMSAPI\_MCS**

 *Type: WI status report For: (not specified)
 Source: TD Tech*

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

**S6-190094 eMCData2 status report**

 *Type: WI status report For: Information
 Source: AT&T GNS Belgium SPRL*

**Abstract:**

eMCData2 status report

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

**S6-190133 Status Report for eMCCI**

 *Type: WI status report For: Information
 Source: Harris Corporation*

**Abstract:**

Status Report for eMCCI

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

**S6-190146 V2XAPP status report**

 *Type: WI status report For: Information
 Source: Huawei, Hisilicon*

**Abstract:**

V2XAPP status report

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

## 13 Future meetings

## 14 AOB

none

## 15 Close of the meeting

**15.1 Social event**

SA6 expresses its sincere gratitude for the excellent social event given by IF3.

**15.1 Thanks to**

The SA6 chairman Suresh Chitturi (Samsung) thanked the:

 - IF3 for the hosting of the meeting,

 - vice-chair David Chater-Lea (Motorola Solutions) for all the support he has provided during his time as SA6 vice-chairman as well as for chairing the parallel session ,

 - rapporteurs as well as all delegates for their efforts during the week and

 - meeting secretary (MCC).

Report prepared by: MCC

## Annex A: List of contribution documents

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Decision | Replaces | Replaced by |
| S6-190001 | SA6 Meeting 28 Agenda | SA6 Chairman | noted |  |  |
| S6-190002 | SA6 Meeting 27 Report | MCC | approved |  |  |
| S6-190003 | SA6 Meeting #28 - Agenda with Tdocs allocation after submission deadline | SA6 Chairman | noted |  |  |
| S6-190004 | SA6 Meeting #28 - Agenda with Tdocs allocation at start of the meeting | SA6 Chairman | approved |  |  |
| S6-190005 | SA6 Meeting #28 - Chairman's notes at end of the meeting | SA6 Chairman | noted |  |  |
| S6-190006 | Reply LS on API specification and API version number maintenance | CT4 chair | noted |  |  |
| S6-190007 | LS on enablers for group communications in 5GS | RAN | noted |  |  |
| S6-190008 | Reply LS on ISO 17515-3 comment resolution | SA | noted |  |  |
| S6-190009 | Cooperation on Generic Slice Template definition | GSMA | replied to |  |  |
| S6-190010 | Reply LS on the application layer support for V2X services | SA4 | noted |  |  |
| S6-190011 | LS on moving xMB to TS 26.348 | SA4 | noted |  |  |
| S6-190012 | LS on ROHC support | SA4 | noted |  |  |
| S6-190013 | Correct the location of MCData content server and MCData message store configuration parameters in table A.3-2 configuration table | AT&T GNS Belgium SPRL | agreed |  |  |
| S6-190014 | Editorial correction on the term of MCData | AT&T GNS Belgium SPRL | agreed |  |  |
| S6-190015 | Proposed skeleton for TR on study on application layer support for Factories of the Future in 5G network | ZTE Corporation | revised |  | S6-190235 |
| S6-190016 | Report on SA6 related topics at SA#82 | SA6 Chairman | noted |  |  |
| S6-190017 | Work Plan review at SA6#28 | SA6 Chairman | revised |  | S6-190302 |
| S6-190018 | Proposal for scope | ZTE Corporation | revised |  | S6-190236 |
| S6-190019 | Pseudo-CR on identifying HSS as E-UTRAN/EPS specific term | The Police of the Netherlands | approved |  |  |
| S6-190020 | Analysis of TR 22.804 | ZTE Corporation | noted |  |  |
| S6-190021 | Analysis of TR 22.821 | ZTE Corporation | noted |  |  |
| S6-190022 | Analysis of TR 23.734 | ZTE Corporation | noted |  |  |
| S6-190023 | Improvement of the group creation request | Sepura PLC, Hytera Communications Corp | revised |  | S6-190153 |
| S6-190024 | Discussion document on the changes required to BEST for the authentication available on the 5G options | VODAFONE Group Plc | withdrawn |  |  |
| S6-190025 | Discussion document on the changes required to BEST for the authentication available on the 5G options | VODAFONE Group Plc | withdrawn |  |  |
| S6-190026 | Pseudo-CR on Clarification on FRMCS Solution 14 | ZTE Trunking | revised |  | S6-190195 |
| S6-190027 | Pseudo-CR on Enhancement of FRMCS Solution 13 | ZTE Trunking | noted |  |  |
| S6-190028 | Discussion on the issue of FRMCS Solution 12 | ZTE Trunking | noted |  |  |
| S6-190029 | Broadcast group regroup | FirstNet | revised |  | S6-190156 |
| S6-190030 | Broadcast group regroup | FirstNet | revised |  | S6-190157 |
| S6-190031 | Pseudo-CR on Updating the evaluation part of FRMCS Solution 12 | ZTE Trunking | noted |  |  |
| S6-190032 | Pseudo-CR identifying E-UTRAN/EPS terminology in TS 23.379 clause 3.1 | The Police of the Netherlands | approved |  |  |
| S6-190033 | Pseudo-CR on identifying E-UTRAN/EPS terminology in TS 23.379 clause 4 Introduction | The Police of the Netherlands | approved |  |  |
| S6-190034 | pCR identifying E-UTRAN EPS terminology in TS 23.379 clause 6.2.2.2 Common services core | The Police of the Netherlands | withdrawn |  |  |
| S6-190035 | Pseudo-CR identifying E-UTRAN/EPS terminology in TS 23.281 clause 6.2.2.2 | The Police of the Netherlands | approved |  |  |
| S6-190036 | Pseudo-CR identifying E-UTRAN/EPS terminology in TS 23.282 clause 4 Introduction | The Police of the Netherlands | approved |  |  |
| S6-190037 | Corrections to MCPTT chat group call late entry procedures | Airbus DS SLC | revised |  | S6-190150 |
| S6-190038 | Procedure for MCPTT user leaving a group call | Airbus DS SLC | revised |  | S6-190151 |
| S6-190039 | Corrections to MCVideo Group join information flows and procedure | Airbus DS SLC | postponed |  |  |
| S6-190040 | Corrections to MCVideo Group join information flows and procedure | Airbus DS SLC | revised |  | S6-190241 |
| S6-190041 | Corrections to MCVideo Group join information flows and procedure | Airbus DS SLC | revised |  | S6-190242 |
| S6-190042 | Corrections to general subclause for pre-arranged and chat group call | Airbus DS SLC | noted |  |  |
| S6-190043 | Late entry MCVideo chat group call | Airbus DS SLC | noted |  |  |
| S6-190044 | Procedure for MCVideo user leaving a group call | Airbus DS SLC | noted |  |  |
| S6-190045 | Additional architecture requirement for MCData message store | AT&T GNS Belgium SPRL | revised |  | S6-190161 |
| S6-190046 | Generic SDS procedure with MCData message store | AT&T GNS Belgium SPRL | revised |  | S6-190162 |
| S6-190047 | Support no miss chat conversation | AT&T GNS Belgium SPRL | revised |  | S6-190163 |
| S6-190048 | Correction of emergency location triggering criteria | BDBOS | not pursued |  |  |
| S6-190049 | Pseudo-CR on updating annex A of TR 23.796 | Nokia, Nokia Shanghai Bell | approved |  |  |
| S6-190050 | Pseudo-CR on updating the key issue and solution evaluation table | Nokia, Nokia Shanghai Bell | revised |  | S6-190200 |
| S6-190051 | Pseudo-CR on updating annex A to indicate those requirements which are not addressed | Nokia, Nokia Shanghai Bell | revised |  | S6-190181 |
| S6-190052 | Pseudo-CR on adding stage 1 requirement references to key issue 3 | Nokia, Nokia Shanghai Bell | revised |  | S6-190182 |
| S6-190053 | Pseudo-CR on adding stage 1 requirement references to key issue 4 | Nokia, Nokia Shanghai Bell | revised |  | S6-190183 |
| S6-190054 | Pseudo-CR on adding a new key issue on commencement modes for MCPTT group calls | Nokia, Nokia Shanghai Bell | revised |  | S6-190185 |
| S6-190055 | Pseudo-CR on introducing a new key issue on triggering an emergency group communication after an emergency alert | Nokia, Nokia Shanghai Bell | approved |  |  |
| S6-190056 | Pseudo-CR on introducing a new key issue on limiting the number of parallel emergency group communications | Nokia, Nokia Shanghai Bell | revised |  | S6-190190 |
| S6-190057 | Pseudo-CR on solution 4 to configure private call restrictions | Nokia, Nokia Shanghai Bell | revised |  | S6-190192 |
| S6-190058 | Pseudo-CR on a solution to limit the number of parallel emergency group calls | Nokia, Nokia Shanghai Bell | revised |  | S6-190191 |
| S6-190059 | Pseudo-CR on a solution on triggering an emergency group communication after an emergency alert automatically | Nokia, Nokia Shanghai Bell | revised |  | S6-190189 |
| S6-190060 | Pseudo-CR on a solution on additional commencement modes for MCPTT Group calls | Nokia, Nokia Shanghai Bell | revised |  | S6-190186 |
| S6-190061 | Pseudo-CR on updating solution 10 on periodic location information reporting | Nokia, Nokia Shanghai Bell | revised |  | S6-190193 |
| S6-190062 | Pseudo-CR on proposing text for the conclusion section | Nokia, Nokia Shanghai Bell | revised |  | S6-190201 |
| S6-190063 | New WID on Application Architecture for the Mobile Communication System for Railways (MONASTERY) Phase 2 | Nokia, Nokia Shanghai Bell | revised |  | S6-190237 |
| S6-190064 | FS\_FRMCS2 status report | Nokia, Nokia Shanghai Bell | withdrawn |  |  |
| S6-190065 | Correction of emergency location triggering criteria | BDBOS | not pursued |  |  |
| S6-190066 | Correction of emergency location triggering criteria | BDBOS | revised |  | S6-190239 |
| S6-190067 | [DRAFT] Reply LS on Cooperation on Generic Slice Template definition | BDBOS | revised |  | S6-190149 |
| S6-190068 | Pseudo-CR on off-network handling of event-triggered location information | BDBOS, BMWi | revised |  | S6-190230 |
| S6-190069 | Pseudo-CR on on-demand location history reporting | BDBOS, BMWi | revised |  | S6-190231 |
| S6-190070 | Pseudo-CR on triggered location history reporting | BDBOS, BMWi | revised |  | S6-190232 |
| S6-190071 | Pseudo-CR on Identities | Ericsson | revised |  | S6-190220 |
| S6-190072 | Pseudo-CR on use case and key issue for sharing location information | BDBOS, BMWi | revised |  | S6-190233 |
| S6-190073 | Pseudo-CR on key issue for individual MC UE identity | BDBOS, BMWi | revised |  | S6-190234 |
| S6-190074 | Pseudo-CR on introduction | TD Tech, CHENGDU TD TECH LTD. | revised |  | S6-190178 |
| S6-190075 | Pseudo-CR on solution for individual MC UE identity | BDBOS, BMWi | noted |  |  |
| S6-190076 | Pseudo-CR on general description of clause 5 | TD Tech, CHENGDU TD TECH LTD. | revised |  | S6-190179 |
| S6-190077 | Pseudo-CR on abbreviations | TD Tech, CHENGDU TD TECH LTD. | revised |  | S6-190180 |
| S6-190078 | Pseudo-CR for MC service application gateway | UIC (Union Inter. Chemins de Fer), Nokia | revised |  | S6-190197 |
| S6-190079 | Usage of preconfigured regroup group in MCPTT | Huawei, Hisilicon | not pursued |  |  |
| S6-190080 | Usage of preconfigured regroup group in MCVideo | Huawei, Hisilicon | not pursued |  |  |
| S6-190081 | Usage of preconfigured regroup group in MCData | Huawei, Hisilicon | not pursued |  |  |
| S6-190082 | Regroup using preconfigurded group for all the MC services | Huawei, Hisilicon | revised |  | S6-190154 |
| S6-190083 | Discussion paper on using preconfigurded group for all the MC services | Huawei, Hisilicon | noted |  |  |
| S6-190084 | Update procedures with topology hidding | Huawei, Hisilicon | revised |  | S6-190174 |
| S6-190085 | API sharing for CCF interconnection | Huawei, Hisilicon | revised |  | S6-190175 |
| S6-190086 | API invocation request routing with topology hiding | Huawei, Hisilicon | revised |  | S6-190176 |
| S6-190087 | Update solution 6: Procedure for switching between primary and IOPS MC system | Huawei, Hisilicon | revised |  | S6-190196 |
| S6-190088 | Pseudo-CR on alignment of titles | TD Tech, CHENGDU TD TECH LTD. | approved |  |  |
| S6-190089 | Pseudo-CR for IP connectivity | UIC, Nokia | revised |  | S6-190198 |
| S6-190090 | Pseudo-CR on solution for application layer priorities | TD Tech, CHENGDU TD TECH LTD. | revised |  | S6-190194 |
| S6-190091 | Group status notification over MBMS | TD Tech, CHENGDU TD TECH LTD. | revised |  | S6-190152 |
| S6-190092 | Status report of MBMSAPI\_MCS | TD Tech | withdrawn |  |  |
| S6-190093 | Pseudo-CR on location information from UE of unauthenticated MC user | BDBOS, BMWi | approved |  |  |
| S6-190094 | eMCData2 status report | AT&T GNS Belgium SPRL | withdrawn |  |  |
| S6-190095 | Pseudo-CR for call forwarding and call transfer for private calls | Kapsch CarrierCom France S.A.S | revised |  | S6-190187 |
| S6-190096 | Pseudo-CR on SEAL skeleton | Samsung | revised |  | S6-190218 |
| S6-190097 | Pseudo-CR on SEAL introduction | Samsung | revised |  | S6-190206 |
| S6-190098 | Pseudo-CR on SEAL scope | Samsung | revised |  | S6-190207 |
| S6-190099 | Pseudo-CR on SEAL functional model | Samsung | revised |  | S6-190208 |
| S6-190100 | Pseudo-CR on SEAL functional entities description | Samsung | revised |  | S6-190209 |
| S6-190101 | Pseudo-CR on SEAL reference points description | Samsung | revised |  | S6-190210 |
| S6-190102 | Pseudo-CR on SEAL architectural requirements - general | Samsung | revised |  | S6-190211 |
| S6-190103 | Pseudo-CR on SEAL architectural requirements – deployment models | Samsung | revised |  | S6-190213 |
| S6-190104 | Pseudo-CR on SEAL architectural requirements – group management | Samsung | revised |  | S6-190214 |
| S6-190105 | Pseudo-CR on SEAL architectural requirements – configuration management | Samsung | revised |  | S6-190215 |
| S6-190106 | Pseudo-CR on SEAL architectural requirements – location management | Samsung | revised |  | S6-190216 |
| S6-190107 | Pseudo-CR on SEAL architectural requirements – key and identity management | Samsung | revised |  | S6-190217 |
| S6-190108 | Discussion on SEAL TS organization | Samsung | noted |  |  |
| S6-190109 | Pseudo-CR on V2X ENs for sync with SEAL | Samsung | revised |  | S6-190222 |
| S6-190110 | CAPIF new architectural requirements | Samsung | revised |  | S6-190173 |
| S6-190111 | Study on Application Architecture for enabling EDGE Applications | Samsung | noted |  |  |
| S6-190112 | New SID on Application Architecture for enabling EDGE Applications | Samsung | revised |  | S6-190148 |
| S6-190113 | Pseudo-CR for call forwarding and call transfer for private calls | Kapsch CarrierCom France S.A.S | revised |  | S6-190188 |
| S6-190114 | Pseudo-CR for interworking with GSM-R | Kapsch CarrierCom France S.A.S | revised |  | S6-190184 |
| S6-190115 | Migration connectivity information | Motorola Solutions | revised |  | S6-190256 |
| S6-190116 | MCData user profile migration information | Motorola Solutions | revised |  | S6-190164 |
| S6-190117 | MCPTT ID in floor control messages for interworking | Motorola Solutions | noted |  |  |
| S6-190118 | MCPTT ID in interworking floor control | Motorola Solutions | revised |  | S6-190257 |
| S6-190119 | MCPTT ID in interconnection floor control | Motorola Solutions | revised |  | S6-190165 |
| S6-190120 | Broadcast user regroup | Motorola Solutions | revised |  | S6-190158 |
| S6-190121 | Group regroup broadcast and rejection using preconfigured group | Motorola Solutions | revised |  | S6-190155 |
| S6-190122 | pCR Key Issue on multiple devices | Motorola Solutions | approved |  |  |
| S6-190123 | pCR Solution for logging | Motorola Solutions | revised |  | S6-190227 |
| S6-190124 | pCR Overall evaluation | Motorola Solutions | revised |  | S6-190228 |
| S6-190125 | GSM-R interworking | Kapsch CarrierCom France S.A.S | noted |  |  |
| S6-190126 | Pseudo-CR on monitoring reception quality | Expway | revised |  | S6-190226 |
| S6-190127 | IWF alignment for talker location in requests for Group call and Group-broadcast group call setup | Harris Corporation | revised |  | S6-190166 |
| S6-190128 | IWF alignment for talker location in Chat group | Harris Corporation | revised |  | S6-190167 |
| S6-190129 | IWF alignment for talker location in Private call | Harris Corporation | revised |  | S6-190168 |
| S6-190130 | IWF alignment for talker Location related to Imminent peril groups | Harris Corporation | revised |  | S6-190169 |
| S6-190131 | IWF alignment for current talker location | Harris Corporation | revised |  | S6-190170 |
| S6-190132 | TS 23.379 alignment for late join | Harris Corporation | revised |  | S6-190171 |
| S6-190133 | Status Report for eMCCI | Harris Corporation | withdrawn |  |  |
| S6-190134 | Analysis of functionalities of V2X application layer for SEAL | Huawei, Hisilicon | noted |  |  |
| S6-190135 | Architecture requirements for SEAL | Huawei, Hisilicon | revised |  | S6-190212 |
| S6-190136 | SEAL functional model | Huawei, Hisilicon | merged |  | S6-190208 |
| S6-190137 | V2X USD provisioning by VAE server | Huawei, Hisilicon | approved |  |  |
| S6-190138 | Network resource management server as a common enabler service | Huawei, Hisilicon | revised |  | S6-190221 |
| S6-190139 | PC5 parameter provisioning by VAE server | Huawei, Hisilicon | revised |  | S6-190223 |
| S6-190140 | UE network location reporting | Huawei, Hisilicon | revised |  | S6-190224 |
| S6-190141 | Operation modes selection for V2V communications | Huawei, Hisilicon | revised |  | S6-190225 |
| S6-190142 | Interactions between API exposing functions | Huawei, Hisilicon | revised |  | S6-190177 |
| S6-190143 | Clarification about V2X user identity and V2X UE identity | Huawei, Hisilicon | revised |  | S6-190219 |
| S6-190144 | Template change for procedures | Huawei, Hisilicon | approved |  |  |
| S6-190145 | Functional alias controlling for MCVideo and MCData services | Huawei, Hisilicon | revised |  | S6-190199 |
| S6-190146 | V2XAPP status report | Huawei, Hisilicon | withdrawn |  |  |
| S6-190147 | Message store object and metadata | Airbus DS SLC | revised |  | S6-190160 |
| S6-190148 | New SID on Application Architecture for enabling EDGE Applications | Samsung | revised | S6-190112 | S6-190229 |
| S6-190149 | [DRAFT] Reply LS on Cooperation on Generic Slice Template definition | BDBOS | revised | S6-190067 | S6-190243 |
| S6-190150 | Corrections to MCPTT chat group call late entry procedures | Airbus DS SLC | revised | S6-190037 | S6-190245 |
| S6-190151 | Procedure for MCPTT user leaving a group call | Airbus DS SLC | revised | S6-190038 | S6-190246 |
| S6-190152 | Group status notification over MBMS | TD Tech, CHENGDU TD TECH LTD. | agreed | S6-190091 | - |
| S6-190153 | Improvement of the group creation request | Sepura PLC, Hytera Communications Corp | revised | S6-190023 | S6-190247 |
| S6-190154 | Regroup using preconfigurded group for all the MC services | Huawei, Hisilicon | not pursued | S6-190082 | - |
| S6-190155 | Group regroup broadcast and rejection using preconfigured group | Motorola Solutions | revised | S6-190121 | S6-190248 |
| S6-190156 | Broadcast group regroup | FirstNet | revised | S6-190029 | S6-190249 |
| S6-190157 | Broadcast group regroup | FirstNet | revised | S6-190030 | S6-190250 |
| S6-190158 | Broadcast user regroup | Motorola Solutions | revised | S6-190120 | S6-190251 |
| S6-190159 | Broadcast user regroup | Sepura | revised | - | S6-190299 |
| S6-190160 | Message store object and metadata | Airbus DS SLC | revised | S6-190147 | S6-190252 |
| S6-190161 | Additional architecture requirement for MCData message store | AT&T GNS Belgium SPRL | revised | S6-190045 | S6-190253 |
| S6-190162 | Generic SDS procedure with MCData message store | AT&T GNS Belgium SPRL | revised | S6-190046 | S6-190254 |
| S6-190163 | Support no miss chat conversation | AT&T GNS Belgium SPRL | revised | S6-190047 | S6-190255 |
| S6-190164 | MCData user profile migration information | Motorola Solutions | agreed | S6-190116 | - |
| S6-190165 | MCPTT ID in interconnection floor control | Motorola Solutions | agreed | S6-190119 | - |
| S6-190166 | IWF alignment for talker location in requests for Group call and Group-broadcast group call setup | Harris Corporation | revised | S6-190127 | S6-190258 |
| S6-190167 | IWF alignment for talker location in Chat group | Harris Corporation | agreed | S6-190128 | - |
| S6-190168 | IWF alignment for talker location in Private call | Harris Corporation | revised | S6-190129 | S6-190259 |
| S6-190169 | IWF alignment for talker Location related to Imminent peril groups | Harris Corporation | agreed | S6-190130 | - |
| S6-190170 | IWF alignment for current talker location | Harris Corporation | agreed | S6-190131 | - |
| S6-190171 | TS 23.379 alignment for late join | Harris Corporation | revised | S6-190132 | S6-190276 |
| S6-190172 | LS on D2D enabler for public safety communications in 5GS | FirstNet | revised | - | S6-190244 |
| S6-190173 | CAPIF new architectural requirements | Samsung | postponed | S6-190110 | - |
| S6-190174 | Update procedures with topology hidding | Huawei, Hisilicon | revised | S6-190084 | S6-190260 |
| S6-190175 | API sharing for CCF interconnection | Huawei, Hisilicon | revised | S6-190085 | S6-190261 |
| S6-190176 | API invocation request routing with topology hiding | Huawei, Hisilicon | revised | S6-190086 | S6-190277 |
| S6-190177 | Interactions between API exposing functions | Huawei, Hisilicon | agreed | S6-190142 | - |
| S6-190178 | Pseudo-CR on introduction | TD Tech, CHENGDU TD TECH LTD. | revised | S6-190074 | S6-190278 |
| S6-190179 | Pseudo-CR on general description of clause 5 | TD Tech, CHENGDU TD TECH LTD. | approved | S6-190076 | - |
| S6-190180 | Pseudo-CR on abbreviations | TD Tech, CHENGDU TD TECH LTD. | approved | S6-190077 | - |
| S6-190181 | Pseudo-CR on updating annex A to indicate those requirements which are not addressed | Nokia, Nokia Shanghai Bell | approved | S6-190051 | - |
| S6-190182 | Pseudo-CR on adding stage 1 requirement references to key issue 3 | Nokia, Nokia Shanghai Bell | approved | S6-190052 | - |
| S6-190183 | Pseudo-CR on adding stage 1 requirement references to key issue 4 | Nokia, Nokia Shanghai Bell | approved | S6-190053 | - |
| S6-190184 | Pseudo-CR for interworking with GSM-R | Kapsch CarrierCom France S.A.S | approved | S6-190114 | - |
| S6-190185 | Pseudo-CR on adding a new key issue on commencement modes for MCPTT group calls | Nokia, Nokia Shanghai Bell | approved | S6-190054 | - |
| S6-190186 | Pseudo-CR on a solution on additional commencement modes for MCPTT Group calls | Nokia, Nokia Shanghai Bell | revised | S6-190060 | S6-190262 |
| S6-190187 | Pseudo-CR for call forwarding and call transfer for private calls | Kapsch CarrierCom France S.A.S | revised | S6-190095 | S6-190279 |
| S6-190188 | Pseudo-CR for call forwarding and call transfer for private calls | Kapsch CarrierCom France S.A.S | revised | S6-190113 | S6-190294 |
| S6-190189 | Pseudo-CR on a solution on triggering an emergency group communication after an emergency alert automatically | Nokia, Nokia Shanghai Bell | revised | S6-190059 | S6-190263 |
| S6-190190 | Pseudo-CR on introducing a new key issue on limiting the number of parallel emergency group communications | Nokia, Nokia Shanghai Bell | approved | S6-190056 | - |
| S6-190191 | Pseudo-CR on a solution to limit the number of parallel emergency group calls | Nokia, Nokia Shanghai Bell | revised | S6-190058 | S6-190264 |
| S6-190192 | Pseudo-CR on solution 4 to configure private call restrictions | Nokia, Nokia Shanghai Bell | revised | S6-190057 | S6-190265 |
| S6-190193 | Pseudo-CR on updating solution 10 on periodic location information reporting | Nokia, Nokia Shanghai Bell | revised | S6-190061 | S6-190266 |
| S6-190194 | Pseudo-CR on solution for application layer priorities | TD Tech, CHENGDU TD TECH LTD. | revised | S6-190090 | S6-190267 |
| S6-190195 | Pseudo-CR on Clarification on FRMCS Solution 14 | ZTE Trunking | approved | S6-190026 | - |
| S6-190196 | Update solution 6: Procedure for switching between primary and IOPS MC system | Huawei, Hisilicon | revised | S6-190087 | S6-190270 |
| S6-190197 | Pseudo-CR for MC service application gateway | UIC (Union Inter. Chemins de Fer), Nokia | revised | S6-190078 | S6-190268 |
| S6-190198 | Pseudo-CR for IP connectivity | UIC, Nokia | revised | S6-190089 | S6-190269 |
| S6-190199 | Functional alias controlling for MCVideo and MCData services | Huawei, Hisilicon | approved | S6-190145 | - |
| S6-190200 | Pseudo-CR on updating the key issue and solution evaluation table | Nokia, Nokia Shanghai Bell | approved | S6-190050 | - |
| S6-190201 | Pseudo-CR on proposing text for the conclusion section | Nokia, Nokia Shanghai Bell | approved | S6-190062 | - |
| S6-190202 | Reserved for breakout, not used. | n/a | withdrawn | - | - |
| S6-190203 | Reserved for breakout, not used. | n/a | withdrawn | - | - |
| S6-190204 | Reserved for breakout, not used. | n/a | withdrawn | - | - |
| S6-190205 | Reserved for breakout, not used. | n/a | withdrawn | - | - |
| S6-190206 | Pseudo-CR on SEAL introduction | Samsung | revised | S6-190097 | S6-190283 |
| S6-190207 | Pseudo-CR on SEAL scope | Samsung | revised | S6-190098 | S6-190284 |
| S6-190208 | Pseudo-CR on SEAL functional model | Samsung, Huawei, Hisilicon | revised | S6-190099 | S6-190285 |
| S6-190209 | Pseudo-CR on SEAL functional entities description | Samsung | revised | S6-190100 | S6-190301 |
| S6-190210 | Pseudo-CR on SEAL reference points description | Huawei, Samsung | approved | S6-190101 | - |
| S6-190211 | Pseudo-CR on SEAL architectural requirements - general | Samsung | revised | S6-190102 | S6-190286 |
| S6-190212 | Architecture requirements for SEAL | Huawei, Hisilicon | revised | S6-190135 | S6-190272 |
| S6-190213 | Pseudo-CR on SEAL architectural requirements – deployment models | Samsung | revised | S6-190103 | S6-190287 |
| S6-190214 | Pseudo-CR on SEAL architectural requirements – group management | Samsung | revised | S6-190104 | S6-190295 |
| S6-190215 | Pseudo-CR on SEAL architectural requirements – configuration management | Samsung | approved | S6-190105 | - |
| S6-190216 | Pseudo-CR on SEAL architectural requirements – location management | Samsung | revised | S6-190106 | S6-190296 |
| S6-190217 | Pseudo-CR on SEAL architectural requirements – key and identity management | Samsung | revised | S6-190107 | S6-190297 |
| S6-190218 | Pseudo-CR on SEAL skeleton | Samsung | approved | S6-190096 | - |
| S6-190219 | Clarification about V2X user identity and V2X UE identity | Huawei, Hisilicon | approved | S6-190143 | - |
| S6-190220 | Pseudo-CR on Identities | Ericsson | revised | S6-190071 | S6-190271 |
| S6-190221 | Network resource management server as a common enabler service | Huawei, Hisilicon | approved | S6-190138 | - |
| S6-190222 | Pseudo-CR on V2X ENs for sync with SEAL | Samsung | approved | S6-190109 | - |
| S6-190223 | PC5 parameter provisioning by VAE server | Huawei, Hisilicon | approved | S6-190139 | - |
| S6-190224 | UE network location reporting | Huawei, Hisilicon | approved | S6-190140 | - |
| S6-190225 | Operation modes selection for V2V communications | Huawei, Hisilicon | revised | S6-190141 | S6-190298 |
| S6-190226 | Pseudo-CR on monitoring reception quality | Expway | approved | S6-190126 | - |
| S6-190227 | pCR Solution for logging | Motorola Solutions | revised | S6-190123 | S6-190288 |
| S6-190228 | pCR Overall evaluation | Motorola Solutions | revised | S6-190124 | S6-190289 |
| S6-190229 | New SID on Application Architecture for enabling EDGE Applications | Samsung | revised | S6-190148 | S6-190238 |
| S6-190230 | Pseudo-CR on off-network handling of event-triggered location information | BDBOS, BMWi | approved | S6-190068 | - |
| S6-190231 | Pseudo-CR on on-demand location history reporting | BDBOS, BMWi | revised | S6-190069 | S6-190281 |
| S6-190232 | Pseudo-CR on triggered location history reporting | BDBOS, BMWi | revised | S6-190070 | S6-190282 |
| S6-190233 | Pseudo-CR on use case and key issue for sharing location information | BDBOS, BMWi | approved | S6-190072 | - |
| S6-190234 | Pseudo-CR on key issue for individual MC UE identity | BDBOS, BMWi | revised | S6-190073 | S6-190290 |
| S6-190235 | Proposed skeleton for TR on study on application layer support for Factories of the Future in 5G network | ZTE Corporation | revised | S6-190015 | S6-190291 |
| S6-190236 | Proposal for scope | ZTE Corporation | revised | S6-190018 | S6-190292 |
| S6-190237 | New WID on Application Architecture for the Mobile Communication System for Railways (MONASTERY) Phase 2 | Nokia, Nokia Shanghai Bell | revised | S6-190063 | S6-190273 |
| S6-190238 | New SID on Application Architecture for enabling EDGE Applications | Samsung | agreed | S6-190229 | - |
| S6-190239 | Correction of emergency location triggering criteria | BDBOS | agreed | S6-190066 | - |
| S6-190240 | Correction of emergency location triggering criteria | BDBOS | agreed | - | - |
| S6-190241 | Corrections to MCVideo Group join information flows and procedure | Airbus DS SLC | agreed | S6-190040 | - |
| S6-190242 | Corrections to MCVideo Group join information flows and procedure | Airbus DS SLC | agreed | S6-190041 | - |
| S6-190243 | Reply LS on Cooperation on Generic Slice Template definition | BDBOS | approved | S6-190149 | - |
| S6-190244 | LS on D2D enabler for public safety communications in 5GS | FirstNet | revised | S6-190172 | S6-190280 |
| S6-190245 | Corrections to MCPTT chat group call late entry procedures | Airbus DS SLC | agreed | S6-190150 | - |
| S6-190246 | Procedure for MCPTT user leaving a group call | Airbus DS SLC | agreed | S6-190151 | - |
| S6-190247 | Improvement of the group creation request | Sepura PLC, Hytera Communications Corp | revised | S6-190153 | S6-190275 |
| S6-190248 | Group regroup broadcast and rejection using preconfigured group | Motorola Solutions | agreed | S6-190155 | - |
| S6-190249 | Broadcast group regroup | FirstNet | agreed | S6-190156 | - |
| S6-190250 | Broadcast group regroup | FirstNet | agreed | S6-190157 | - |
| S6-190251 | Broadcast user regroup | Motorola Solutions | agreed | S6-190158 | - |
| S6-190252 | Message store object and metadata | Airbus DS SLC | agreed | S6-190160 | - |
| S6-190253 | Additional architecture requirement for MCData message store | AT&T GNS Belgium SPRL | agreed | S6-190161 | - |
| S6-190254 | Generic SDS procedure with MCData message store | AT&T GNS Belgium SPRL | agreed | S6-190162 | - |
| S6-190255 | Providing data for a user entering an ongoing MCData group convers | AT&T GNS Belgium SPRL | revised | S6-190163 | S6-190293 |
| S6-190256 | Migration connectivity information | Motorola Solutions | agreed | S6-190115 | - |
| S6-190257 | MCPTT ID in interworking floor control | Motorola Solutions | agreed | S6-190118 | - |
| S6-190258 | IWF alignment for talker location in requests for Group call and Group-broadcast group call setup | Harris Corporation | agreed | S6-190166 | - |
| S6-190259 | IWF alignment for talker location in Private call | Harris Corporation | agreed | S6-190168 | - |
| S6-190260 | Update procedures with topology hidding | Huawei, Hisilicon | agreed | S6-190174 | - |
| S6-190261 | API sharing for CCF interconnection | Huawei, Hisilicon | agreed | S6-190175 | - |
| S6-190262 | Pseudo-CR on a solution on additional commencement modes for MCPTT Group calls | Nokia, Nokia Shanghai Bell | approved | S6-190186 | - |
| S6-190263 | Pseudo-CR on a solution on triggering an emergency group communication after an emergency alert automatically | Nokia, Nokia Shanghai Bell | approved | S6-190189 | - |
| S6-190264 | Pseudo-CR on a solution to limit the number of parallel emergency group calls | Nokia, Nokia Shanghai Bell | approved | S6-190191 | - |
| S6-190265 | Pseudo-CR on solution 4 to configure private call restrictions | Nokia, Nokia Shanghai Bell | approved | S6-190192 | - |
| S6-190266 | Pseudo-CR on updating solution 10 on periodic location information reporting | Nokia, Nokia Shanghai Bell | approved | S6-190193 | - |
| S6-190267 | Pseudo-CR on solution for application layer priorities | TD Tech, CHENGDU TD TECH LTD. | approved | S6-190194 | - |
| S6-190268 | Pseudo-CR for MC service application gateway | UIC (Union Inter. Chemins de Fer), Nokia | approved | S6-190197 | - |
| S6-190269 | Pseudo-CR for IP connectivity | UIC, Nokia | approved | S6-190198 | - |
| S6-190270 | Update solution 6: Procedure for switching between primary and IOPS MC system | Huawei, Hisilicon | approved | S6-190196 | - |
| S6-190271 | Pseudo-CR on Identities | Ericsson | approved | S6-190220 | - |
| S6-190272 | Architecture requirements for SEAL | Huawei, Hisilicon, Samsung | approved | S6-190212 | - |
| S6-190273 | New WID on Application Architecture for the Mobile Communication System for Railways (MONASTERY) Phase 2 | Nokia, Nokia Shanghai Bell | agreed | S6-190237 | - |
| S6-190274 | Summary of status report | Qualcomm | noted | - | - |
| S6-190275 | Improvement of the group creation request | Sepura PLC, Hytera Communications Corp | agreed | S6-190247 | - |
| S6-190276 | TS 23.379 alignment for late join | Harris Corporation | agreed | S6-190171 | - |
| S6-190277 | API invocation request routing with topology hiding | Huawei, Hisilicon | agreed | S6-190176 | - |
| S6-190278 | Pseudo-CR on introduction | TD Tech, CHENGDU TD TECH LTD. | approved | S6-190178 | - |
| S6-190279 | Pseudo-CR for call forwarding and call transfer for private calls | Kapsch CarrierCom France S.A.S | approved | S6-190187 | - |
| S6-190280 | LS on D2D enabler for public safety communications in 5GS | FirstNet | approved | S6-190244 | - |
| S6-190281 | Pseudo-CR on on-demand location history reporting | BDBOS, BMWi | approved | S6-190231 | - |
| S6-190282 | Pseudo-CR on triggered location history reporting | BDBOS, BMWi | approved | S6-190232 | - |
| S6-190283 | Pseudo-CR on SEAL introduction | Samsung | approved | S6-190206 | - |
| S6-190284 | Pseudo-CR on SEAL scope | Samsung | approved | S6-190207 | - |
| S6-190285 | Pseudo-CR on SEAL functional model | Samsung, Huawei, Hisilicon | approved | S6-190208 | - |
| S6-190286 | Pseudo-CR on SEAL architectural requirements - general | Samsung | approved | S6-190211 | - |
| S6-190287 | Pseudo-CR on SEAL architectural requirements – deployment models | Samsung | approved | S6-190213 | - |
| S6-190288 | pCR Solution for logging | Motorola Solutions | revised | S6-190227 | S6-190300 |
| S6-190289 | pCR Overall evaluation | Motorola Solutions | approved | S6-190228 | - |
| S6-190290 | Pseudo-CR on key issue for individual MC UE identity | BDBOS, BMWi | approved | S6-190234 | - |
| S6-190291 | Proposed skeleton for TR on study on application layer support for Factories of the Future in 5G network | ZTE Corporation | approved | S6-190235 | - |
| S6-190292 | Proposal for scope | ZTE Corporation | approved | S6-190236 | - |
| S6-190293 | Providing data for a user entering an ongoing MCData group convers | AT&T GNS Belgium SPRL | agreed | S6-190255 | - |
| S6-190294 | Pseudo-CR for call forwarding and call transfer for private calls | Kapsch CarrierCom France S.A.S | approved | S6-190188 | - |
| S6-190295 | Pseudo-CR on SEAL architectural requirements – group management | Samsung | approved | S6-190214 | - |
| S6-190296 | Pseudo-CR on SEAL architectural requirements – location management | Samsung | approved | S6-190216 | - |
| S6-190297 | Pseudo-CR on SEAL architectural requirements – key and identity management | Samsung | approved | S6-190217 | - |
| S6-190298 | Operation modes selection for V2V communications | Huawei, Hisilicon | approved | S6-190225 | - |
| S6-190299 | Broadcast user regroup | Sepura | agreed | S6-190159 | - |
| S6-190300 | pCR Solution for logging | Motorola Solutions | approved | S6-190288 | - |
| S6-190301 | Pseudo-CR on SEAL functional entities description | Huawei, Samsung | approved | S6-190209 | - |
| S6-190302 | Work Plan review at SA6#28 | SA6 Chairman | noted | S6-190017 | - |

## Annex B: List of change requests

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Spec | CR | Rev | Rel | Cat | WI | Decision |
| S6-190048 | Correction of emergency location triggering criteria | BDBOS | 23.179 | 0128 | - | Rel-13 | F | MCPTT | not pursued |
| S6-190084 | Update procedures with topology hidding | Huawei, Hisilicon | 23.222 | 0044 | - | Rel-16 | F | eCAPIF | revised |
| S6-190174 | Update procedures with topology hidding | Huawei, Hisilicon | 23.222 | 0044 | 1 | Rel-16 | F | eCAPIF | revised |
| S6-190260 | Update procedures with topology hidding | Huawei, Hisilicon | 23.222 | 0044 | 2 | Rel-16 | F | eCAPIF | agreed |
| S6-190085 | API sharing for CCF interconnection | Huawei, Hisilicon | 23.222 | 0045 | - | Rel-16 | B | eCAPIF | revised |
| S6-190175 | API sharing for CCF interconnection | Huawei, Hisilicon | 23.222 | 0045 | 1 | Rel-16 | B | eCAPIF | revised |
| S6-190261 | API sharing for CCF interconnection | Huawei, Hisilicon | 23.222 | 0045 | 2 | Rel-16 | B | eCAPIF | agreed |
| S6-190086 | API invocation request routing with topology hiding | Huawei, Hisilicon | 23.222 | 0046 | - | Rel-16 | B | eCAPIF | revised |
| S6-190176 | API invocation request routing with topology hiding | Huawei, Hisilicon | 23.222 | 0046 | 1 | Rel-16 | B | eCAPIF | revised |
| S6-190277 | API invocation request routing with topology hiding | Huawei, Hisilicon | 23.222 | 0046 | 2 | Rel-16 | B | eCAPIF | agreed |
| S6-190110 | CAPIF new architectural requirements | Samsung | 23.222 | 0047 | - | Rel-16 | B | eCAPIF | revised |
| S6-190173 | CAPIF new architectural requirements | Samsung | 23.222 | 0047 | 1 | Rel-16 | B | eCAPIF | postponed |
| S6-190142 | Interactions between API exposing functions | Huawei, Hisilicon | 23.222 | 0048 | - | Rel-16 | C | eCAPIF | revised |
| S6-190177 | Interactions between API exposing functions | Huawei, Hisilicon | 23.222 | 0048 | 1 | Rel-16 | C | eCAPIF | agreed |
| S6-190023 | Improvement of the group creation request | Sepura PLC, Hytera Communications Corp | 23.280 | 0173 | - | Rel-16 | C | enh2MCPTT | revised |
| S6-190153 | Improvement of the group creation request | Sepura PLC, Hytera Communications Corp | 23.280 | 0173 | 1 | Rel-16 | C | enh2MCPTT | revised |
| S6-190247 | Improvement of the group creation request | Sepura PLC, Hytera Communications Corp | 23.280 | 0173 | 2 | Rel-16 | C | enh2MCPTT | revised |
| S6-190275 | Improvement of the group creation request | Sepura PLC, Hytera Communications Corp | 23.280 | 0173 | 3 | Rel-16 | C | enh2MCPTT | agreed |
| S6-190029 | Broadcast group regroup | FirstNet | 23.280 | 0174 | - | Rel-16 | B | enhMCPTT | revised |
| S6-190156 | Broadcast group regroup | FirstNet | 23.280 | 0174 | 1 | Rel-16 | B | enh2MCPTT | revised |
| S6-190249 | Broadcast group regroup | FirstNet | 23.280 | 0174 | 2 | Rel-16 | B | enh2MCPTT | agreed |
| S6-190065 | Correction of emergency location triggering criteria | BDBOS | 23.280 | 0175 | - | Rel-14 | A | MCPTT | not pursued |
| S6-190066 | Correction of emergency location triggering criteria | BDBOS | 23.280 | 0176 | - | Rel-15 | A | MCPTT | revised |
| S6-190239 | Correction of emergency location triggering criteria | BDBOS | 23.280 | 0176 | 1 | Rel-15 | F | enhMCPTT | agreed |
| S6-190082 | Regroup using preconfigurded group for all the MC services | Huawei, Hisilicon | 23.280 | 0177 | - | Rel-16 | C | enh2MCPTT | revised |
| S6-190154 | Regroup using preconfigurded group for all the MC services | Huawei, Hisilicon | 23.280 | 0177 | 1 | Rel-16 | C | enh2MCPTT | not pursued |
| S6-190091 | Group status notification over MBMS | TD Tech, CHENGDU TD TECH LTD. | 23.280 | 0178 | - | Rel-16 | B | enh2MCPTT | revised |
| S6-190152 | Group status notification over MBMS | TD Tech, CHENGDU TD TECH LTD. | 23.280 | 0178 | 1 | Rel-16 | B | enh2MCPTT | agreed |
| S6-190115 | Migration connectivity information | Motorola Solutions | 23.280 | 0179 | - | Rel-16 | F | eMCSMI | revised |
| S6-190256 | Migration connectivity information | Motorola Solutions | 23.280 | 0179 | 1 | Rel-16 | F | eMCSMI | agreed |
| S6-190240 | Correction of emergency location triggering criteria | BDBOS | 23.280 | 0180 | - | Rel-16 | A | enhMCPTT | agreed |
| S6-190039 | Corrections to MCVideo Group join information flows and procedure | Airbus DS SLC | 23.281 | 0112 | - | Rel-14 | F | MCImp-MCVideo | postponed |
| S6-190040 | Corrections to MCVideo Group join information flows and procedure | Airbus DS SLC | 23.281 | 0113 | - | Rel-15 | A | MCImp-MCVideo | revised |
| S6-190241 | Corrections to MCVideo Group join information flows and procedure | Airbus DS SLC | 23.281 | 0113 | 1 | Rel-15 | F | MCImp-MCVideo | agreed |
| S6-190041 | Corrections to MCVideo Group join information flows and procedure | Airbus DS SLC | 23.281 | 0114 | - | Rel-16 | A | MCImp-MCVideo | revised |
| S6-190242 | Corrections to MCVideo Group join information flows and procedure | Airbus DS SLC | 23.281 | 0114 | 1 | Rel-16 | A | eMCVideo | agreed |
| S6-190080 | Usage of preconfigured regroup group in MCVideo | Huawei, Hisilicon | 23.281 | 0115 | - | Rel-16 | C | TEI16 | not pursued |
| S6-190013 | Correct the location of MCData content server and MCData message store configuration parameters in table A.3-2 configuration table | AT&T GNS Belgium SPRL | 23.282 | 0124 | - | Rel-16 | F | eMCData2 | agreed |
| S6-190014 | Editorial correction on the term of MCData | AT&T GNS Belgium SPRL | 23.282 | 0125 | - | Rel-16 | D | eMCData2 | agreed |
| S6-190045 | Additional architecture requirement for MCData message store | AT&T GNS Belgium SPRL | 23.282 | 0126 | - | Rel-16 | B | eMCData2 | revised |
| S6-190161 | Additional architecture requirement for MCData message store | AT&T GNS Belgium SPRL | 23.282 | 0126 | 1 | Rel-16 | B | eMCData2 | revised |
| S6-190253 | Additional architecture requirement for MCData message store | AT&T GNS Belgium SPRL | 23.282 | 0126 | 2 | Rel-16 | B | eMCData2 | agreed |
| S6-190046 | Generic SDS procedure with MCData message store | AT&T GNS Belgium SPRL | 23.282 | 0127 | - | Rel-16 | B | eMCData2 | revised |
| S6-190162 | Generic SDS procedure with MCData message store | AT&T GNS Belgium SPRL | 23.282 | 0127 | 1 | Rel-16 | B | eMCData2 | revised |
| S6-190254 | Generic SDS procedure with MCData message store | AT&T GNS Belgium SPRL | 23.282 | 0127 | 2 | Rel-16 | B | eMCData2 | agreed |
| S6-190047 | Support no miss chat conversation | AT&T GNS Belgium SPRL | 23.282 | 0128 | - | Rel-16 | B | eMCData2 | revised |
| S6-190163 | Support no miss chat conversation | AT&T GNS Belgium SPRL | 23.282 | 0128 | 1 | Rel-16 | B | eMCData2 | revised |
| S6-190255 | Providing data for a user entering an ongoing MCData group convers | AT&T GNS Belgium SPRL | 23.282 | 0128 | 2 | Rel-16 | B | eMCData2 | revised |
| S6-190293 | Providing data for a user entering an ongoing MCData group convers | AT&T GNS Belgium SPRL | 23.282 | 0128 | 3 | Rel-16 | B | eMCData2 | agreed |
| S6-190081 | Usage of preconfigured regroup group in MCData | Huawei, Hisilicon | 23.282 | 0129 | - | Rel-16 | C | enh2MCPTT | not pursued |
| S6-190116 | MCData user profile migration information | Motorola Solutions | 23.282 | 0130 | - | Rel-16 | B | eMCSMI | revised |
| S6-190164 | MCData user profile migration information | Motorola Solutions | 23.282 | 0130 | 1 | Rel-16 | B | eMCSMI | agreed |
| S6-190147 | Message store object and metadata | Airbus DS SLC | 23.282 | 0131 | - | Rel-16 | F | eMCData2 | revised |
| S6-190160 | Message store object and metadata | Airbus DS SLC | 23.282 | 0131 | 1 | Rel-16 | F | eMCData2 | revised |
| S6-190252 | Message store object and metadata | Airbus DS SLC | 23.282 | 0131 | 2 | Rel-16 | F | eMCData2 | agreed |
| S6-190118 | MCPTT ID in interworking floor control | Motorola Solutions | 23.283 | 0023 | - | Rel-16 | F | eMCCI | revised |
| S6-190257 | MCPTT ID in interworking floor control | Motorola Solutions | 23.283 | 0023 | 1 | Rel-16 | F | eMCCI | agreed |
| S6-190127 | IWF alignment for talker location in requests for Group call and Group-broadcast group call setup | Harris Corporation | 23.283 | 0024 | - | Rel-16 | C | eMCCI | revised |
| S6-190166 | IWF alignment for talker location in requests for Group call and Group-broadcast group call setup | Harris Corporation | 23.283 | 0024 | 1 | Rel-16 | C | eMCCI | revised |
| S6-190258 | IWF alignment for talker location in requests for Group call and Group-broadcast group call setup | Harris Corporation | 23.283 | 0024 | 2 | Rel-16 | C | eMCCI | agreed |
| S6-190128 | IWF alignment for talker location in Chat group | Harris Corporation | 23.283 | 0025 | - | Rel-16 | C | eMCCI | revised |
| S6-190167 | IWF alignment for talker location in Chat group | Harris Corporation | 23.283 | 0025 | 1 | Rel-16 | C | eMCCI | agreed |
| S6-190129 | IWF alignment for talker location in Private call | Harris Corporation | 23.283 | 0026 | - | Rel-16 | C | eMCCI | revised |
| S6-190168 | IWF alignment for talker location in Private call | Harris Corporation | 23.283 | 0026 | 1 | Rel-16 | C | eMCCI | revised |
| S6-190259 | IWF alignment for talker location in Private call | Harris Corporation | 23.283 | 0026 | 2 | Rel-16 | C | eMCCI | agreed |
| S6-190130 | IWF alignment for talker Location related to Imminent peril groups | Harris Corporation | 23.283 | 0027 | - | Rel-16 | C | eMCCI | revised |
| S6-190169 | IWF alignment for talker Location related to Imminent peril groups | Harris Corporation | 23.283 | 0027 | 1 | Rel-16 | C | eMCCI | agreed |
| S6-190131 | IWF alignment for current talker location | Harris Corporation | 23.283 | 0028 | - | Rel-16 | C | eMCCI | revised |
| S6-190170 | IWF alignment for current talker location | Harris Corporation | 23.283 | 0028 | 1 | Rel-16 | C | eMCCI | agreed |
| S6-190132 | TS 23.379 alignment for late join | Harris Corporation | 23.283 | 0029 | - | Rel-16 | C | eMCCI | revised |
| S6-190171 | TS 23.379 alignment for late join | Harris Corporation | 23.283 | 0029 | 1 | Rel-16 | C | eMCCI | revised |
| S6-190276 | TS 23.379 alignment for late join | Harris Corporation | 23.283 | 0029 | 2 | Rel-16 | C | eMCCI | agreed |
| S6-190030 | Broadcast group regroup | FirstNet | 23.379 | 0170 | - | Rel-16 | B | enhMCPTT | revised |
| S6-190157 | Broadcast group regroup | FirstNet | 23.379 | 0170 | 1 | Rel-16 | B | enh2MCPTT | revised |
| S6-190250 | Broadcast group regroup | FirstNet | 23.379 | 0170 | 2 | Rel-16 | B | enh2MCPTT | agreed |
| S6-190037 | Corrections to MCPTT chat group call late entry procedures | Airbus DS SLC | 23.379 | 0171 | - | Rel-16 | F | enh2MCPTT | revised |
| S6-190150 | Corrections to MCPTT chat group call late entry procedures | Airbus DS SLC | 23.379 | 0171 | 1 | Rel-16 | F | enh2MCPTT | revised |
| S6-190245 | Corrections to MCPTT chat group call late entry procedures | Airbus DS SLC | 23.379 | 0171 | 2 | Rel-16 | F | enh2MCPTT | agreed |
| S6-190038 | Procedure for MCPTT user leaving a group call | Airbus DS SLC | 23.379 | 0172 | - | Rel-16 | C | enh2MCPTT | revised |
| S6-190151 | Procedure for MCPTT user leaving a group call | Airbus DS SLC | 23.379 | 0172 | 1 | Rel-16 | C | enh2MCPTT | revised |
| S6-190246 | Procedure for MCPTT user leaving a group call | Airbus DS SLC | 23.379 | 0172 | 2 | Rel-16 | C | enh2MCPTT | agreed |
| S6-190079 | Usage of preconfigured regroup group in MCPTT | Huawei, Hisilicon | 23.379 | 0173 | - | Rel-16 | C | enh2MCPTT, eMCData2 | not pursued |
| S6-190119 | MCPTT ID in interconnection floor control | Motorola Solutions | 23.379 | 0174 | - | Rel-16 | F | eMCSMI | revised |
| S6-190165 | MCPTT ID in interconnection floor control | Motorola Solutions | 23.379 | 0174 | 1 | Rel-16 | F | eMCSMI | agreed |
| S6-190120 | Broadcast user regroup | Motorola Solutions | 23.379 | 0175 | - | Rel-16 | C | enh2MCPTT | revised |
| S6-190158 | Broadcast user regroup | Motorola Solutions | 23.379 | 0175 | 1 | Rel-16 | C | enh2MCPTT | revised |
| S6-190251 | Broadcast user regroup | Motorola Solutions | 23.379 | 0175 | 2 | Rel-16 | C | enh2MCPTT | agreed |
| S6-190121 | Group regroup broadcast and rejection using preconfigured group | Motorola Solutions | 23.379 | 0176 | - | Rel-16 | B | enh2MCPTT | revised |
| S6-190155 | Group regroup broadcast and rejection using preconfigured group | Motorola Solutions | 23.379 | 0176 | 1 | Rel-16 | B | enh2MCPTT | revised |
| S6-190248 | Group regroup broadcast and rejection using preconfigured group | Motorola Solutions | 23.379 | 0176 | 2 | Rel-16 | B | enh2MCPTT | agreed |
| S6-190159 | Broadcast user regroup | Sepura | 23.379 | 0177 | - | Rel-16 | C | enh2MCPTT | revised |
| S6-190299 | Broadcast user regroup | Sepura | 23.379 | 0177 | 1 | Rel-16 | F | enh2MCPTT | agreed |

## Annex C: Lists of liaisons

### C1: Incoming liaison statements

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Original | Title | From | Decision | Reply in |
| S6-190006 | C4-188646 | Reply LS on API specification and API version number maintenance | CT4 chair | noted |  |
| S6-190007 | RP-182875 | LS on enablers for group communications in 5GS | RAN | noted |  |
| S6-190008 | SP-181228 | Reply LS on ISO 17515-3 comment resolution | SA | noted |  |
| S6-190009 | 5GJA05\_110 | Cooperation on Generic Slice Template definition | GSMA | replied to | S6-190243 |
| S6-190010 | S4-181442 | Reply LS on the application layer support for V2X services | SA4 | noted |  |
| S6-190011 | S4-181491 | LS on moving xMB to TS 26.348 | SA4 | noted |  |
| S6-190012 | S4-181424 | LS on ROHC support | SA4 | noted |  |

### C2: Outgoing liaison statements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Document | Title | To | Cc | reply to i/c LS |
| S6-190243 | Reply LS on Cooperation on Generic Slice Template definition | GSMA-5GJA | 3GPP SA | S6-190009/ 5GJA05\_110 |
| S6-190280 | LS on D2D enabler for public safety communications in 5GS | SA, RAN | SA2 | - |

## Annex D: List of agreed/approved new and revised Work Items

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Title | Source | new/revised |
| S6-190238 | New SID on Application Architecture for enabling EDGE Applications | Samsung | SID new |
| S6-190273 | New WID on Application Architecture for the Mobile Communication System for Railways (MONASTERY) Phase 2 | Nokia, Nokia Shanghai Bell | WID new |

## Annex E: List of draft Technical Specifications and Reports

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Spec | Vers | Doc title |
| S6-190218 | 3GPP TS 23.434 | 0.0.0 | Service Enabler Architecture Layer for Verticals;Functional architecture and information flows |
| S6-190291 | 3GPP TR 23.745 | 0.0.0 | Study on application layer support for Factories of the Future in 5G network |

## Annex F: List of action items

n/a

## Annex G: List of decisions

n/a

## Annex H: List of participants

|  |  |  |  |
| --- | --- | --- | --- |
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## Annex I: List of future meetings

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Title | Start date | End date (OP) | Town | Country | Reference |
| 3GPPSA6#29 | 25/02/2019 09:00:00 | 01/03/2019 17:30:00 | Montreal | CA | S6-29 |
| 3GPPSA6#30 | 08/04/2019 09:00:00 | 12/04/2019 17:30:00 | Newport Beach | US | S6-30 |
| 3GPPSA6#31 | 20/05/2019 09:00:00 | 24/05/2019 17:30:00 | Bruges | BE | S6-31 |
| 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 | TBD | CN | 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 | TBD | - | S6-35 |
| 3GPPSA6#36 | 24/01/2020 09:00:00 | 28/02/2020 17:30:00 | TBD | - | 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 | Sophia Antipolis | FR | S6-38 |
| 3GPPSA6#39 | 24/08/2020 09:00:00 | 28/08/2020 17:30:00 | Helsinki/Espoo | FI | S6-39 |
| 3GPPSA6#40 | 16/11/2020 09:00:00 | 20/11/2020 17:30:00 | TBD | - | S6-40 |