**3GPP TSG-SA WG6 Meeting #39-e S6-201334**

**e-meeting, 31st August – 8th September 2020**

Source: MCC

Title: SA6 Meeting 38-e report

Agenda Item: 3

Contact: Bernt Mattsson bernt.mattsson@etsi.org

*Abstract: Meeting report of 3GPP SA6 meeting #38-e*

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

 **DRAFT Meeting Report
for
TSG SA WG6
meeting: #38-e**

**e-meeting, 20/07/2020 to 31/07/2020**

Report generated on Friday, 2020-08-21 09:31

Contents:

1 Opening of the meeting 4

1.1 IPR and antitrust policy reminders 4

1.2 EAR statement 4

2 Agenda and Chairman’s notes 4

3 Report from previous meetings 4

4 Liaison statements 5

4.1 Incoming LSs 5

4.2 Outgoing LSs 12

5 Items for early consideration 14

5.1 Working Agreements 14

5.2 Others 14

6 Rel-16 Work Items 14

7 Rel-17 Work Items 18

7.1 eMONASTERY2 – Enhancements to Application Architecture for the Mobile Communication System for Railways Phase 2 18

7.2 MCIOPS – MC services support on IOPS mode of operation 23

7.3 enh3MCPTT – Enhanced Mission Critical Push-to-talk architecture phase 3 24

7.4 eMCData3 – Enhancements for functional architecture and information flows for Mission Critical Data 27

7.5 EDGEAPP – Architecture for enabling Edge Applications 31

7.6 TEI17 – Technical Enhancements and Improvements 50

8 Study Items 51

8.1 FS\_MCOver5GS – Study on Mission Critical Services support over 5G System 51

8.2 FS\_enhMCLoc – Study on location enhancements for mission critical services 54

8.3 FS\_eV2XAPP – Study on Enhancements to application layer support for V2X services 54

8.4 FS\_FFAPP – Study on application layer support for Factories of the Future in 5G network 61

8.5 FS\_UASAPP – Study on application layer support for Unmanned Aerial System (UAS) 70

8.6 FS\_5GMARCH – Study on support of the 5GMSG Service 75

8.7 FS\_MCGWUE – Study of Gateway UE function for Mission Critical Communication 81

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

10 Work Plan review 84

11 Future meetings 86

12 AOB 86

13 Close of the meeting 86

Annex A: List of contribution documents 87

Annex B: List of change requests 97

Annex C: Lists of liaisons 100

C1: Incoming liaison statements 100

C2: Outgoing liaison statements 100

Annex D: List of agreed/approved new and revised Work Items 100

Annex E: List of draft Technical Specifications and Reports 100

Annex F: List of action items 100

Annex G: List of decisions 100

Annex H: List of participants 101

Annex I: List of future meetings 103

## 1 Opening of the meeting

### 1.1 IPR and antitrust policy reminders

### 1.2 EAR statement

## 2 Agenda and Chairman’s notes

**S6-200962 SA6 Meeting 38-e Agenda**

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

**Abstract:**

Agenda for the SA6#38-e meeting

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

**S6-200964 SA6 Meeting #38-e - Agenda with Tdocs allocation after submission deadline**

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

**Abstract:**

The SA6#38-e meeting agenda with Tdocs allocation after submission deadline

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

**S6-200965 SA6 Meeting #38-e - Agenda with Tdocs allocation at start of the meeting**

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

**Abstract:**

The SA6#38-e meeting agenda with Tdocs allocation at the start of the meeting

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

**S6-200966 SA6 Meeting #38-e - Chairman's notes at end of the meeting**

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

**Abstract:**

Chairman's notes at end of the SA6#38-e meeting

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

## 3 Report from previous meetings

**S6-200963 SA6 Meeting 37-e Report**

 *Type: report For: Approval
 Source: MCC*

**Abstract:**

The report of the SA6#37-e meeting.

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

**S6-201056 Report on SA6 related topics at SA#88-e**

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

**Abstract:**

This document contains a brief report from SA#88-e on matters relating to SA6 WG activities.

**Discussion:**

The chairman briefly presented a report on SA6 related topics at SA#88-e available as S6-201056.

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

## 4 Liaison statements

### 4.1 Incoming LSs

**S6-200967 Reply LS on limiting the number of simultaneous log ins of an MCX user**

 *Type: LS in For: Information
 Original outgoing LS: S1-202280, to CT1, cc SA6
 Source: SA1*

**Abstract:**

1. Overall Description:

SA1 thanks CT1 for their LS in C1-202819.

SA1 have discussed the issue.

With respect to the question from CT1:

Does requirement [R-5.10-001a] of 3GPP TS 22.280 require that a different limit can be applied to each MCX User?

SA1 have discussed the issue and the answer is No.

The existing requirement should be interpreted as meaning "a single system limit per MCX service shall be applied to all users within the MCX service, which aligns with the existing stage 2 architecture defined by SA6 for Release 16 in TS 23.379."

Attached you’ll find the Release 16 and Release 17 (mirror) CRs to TS22.280 clarifying the existing requirement to be a system wide limit. One additional CR adds a new requirement in Rel-17 to allow for different limits per MCX user.

2. Actions:

To CT1 group.

ACTION: SA1 asks CT1 to take the information provided into account for their further work.

**Discussion:**

Nokia presented the LS available as S6-200967.

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

**S6-200968 Reply to LS on Clarification of the definition of a UAS**

 *Type: LS in For: Action
 Original outgoing LS: S1-202267, to SA2, SA6, cc -
 Source: SA1*

**Abstract:**

1. Overall Description:

SA1 has considered the incoming LS from SA6 requesting clarification on stage 1 requirements, as copied below.

The text in the definition of a UAS and other normative text in TS 22.125 is not aligned with the informative Annex A. Further, it can be noted that there is text in the informative Annex A that is normative.

SA1 has discussed the definition of a UAS and come to the conclusion that an update of TS 22.125 is needed, see the attached agreed CR.

2. Actions:

To SA2 and SA6 groups.

ACTION: SA1 requests SA2 and SA6 to take the above into account in their work and update their specifications as necessary.

**Discussion:**

It was decided to await further input from SA1 on this matter.

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

**S6-200969 LS on requirement for 5GMSG in broadcast scenario**

 *Type: LS in For: Action
 Original outgoing LS: S1-202269, to SA6, cc -
 Source: SA1*

**Abstract:**

1. Overall Description:

SA1 thanks SA6 for the question if requirement [R-5.5.2-002] applies to all UE types, i.e. UE B, UE C and UE D as defined in TS 22.262 or only to UE types that support the broadcast message.

The MSGin5G Service for MIoT needs to support broadcast message delivery in order to handle massive communications efficiently with a latency less than [500] ms as specified in requirement [R-5.5.2-001]. This requirement cannot be achieved with point-to-point message delivery. Therefore, the requirement applies to UEs that support the broadcast message.

2. Actions:

To SA6 group.

ACTION: SA1 asks SA6 to take the above information into account.

**Discussion:**

one2many presented the LS available as S6-200969.

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

**S6-200970 Reply LS on Clarification of requirements for UAS application enablement**

 *Type: LS in For: Action
 Original outgoing LS: S1-202270, to SA6, cc SA2
 Source: SA1*

**Abstract:**

1. Overall Description:

SA1 thanks SA6 for the LS requesting clarification on stage 1 requirements, copied bellow.

SA6 has discussed potential key issues on:

• Whether and how to enable flight route support in 3GPP network

• Whether and how to control a UAV fly route under 3GPP network

• Whether and how to enable NOTAM/TFR support under 3GPP network

SA6 asks SA1 to kindly guide SA6 on the requirements for the use cases mentioned above and also the necessity to explicitly refer to application-aware parameters. SA6 kindly asks SA1 to update their specification if necessary.

SA1 has discussed pointed out requirements [R-5.1-003] and [R-5.1-004] from TS 22.125:

[R-5.1-003] The 3GPP system shall enable a UAS to send UTM the UAV data which can contain: unique identity (this may be a 3GPP identity), UE capability of the UAV, make & model, serial number, take-off weight, position, owner identity, owner address, owner contact details, owner certification, take-off location, mission type, route data, operating status.

[R-5.1-004] The 3GPP system shall enable a UAS to send UTM the UAV controller data which can contain: unique identity (this may be a 3GPP identity), UE capability of the UAV controller, position, owner identity, owner address, owner contact details, owner certification, UAV operator identity, UAV operator license, UAV operator certification, UAV pilot identity, UAV pilot license, UAV pilot certification and flight plan.

These requirements are coming from use case for initial authorization to operate. The use case and derived requirements indicate 3GPP system shall enable data communication between UAS and UTM. Indicated parameters show by which means the UAV and UAV controller shall be identified and inform that list of identification data sent towards the UTM could be quite long.

SA6 discussions on potential key issues described above which enable 3GPP to control UAV flight route and NOTAM/TFR are outside the scope of the service requirements for UAS support in 3GPP.

2. Actions:

To SA6 group.

ACTION: SA1 kindly asks SA6 to take the above information into account.

**Discussion:**

Deutsche Telekom presented the LS available as S6-200970.

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

**S6-200971 Reply LS on Application Architecture for enabling Edge Applications**

 *Type: LS in For: Action
 Original outgoing LS: S2-2004386, to SA6, cc SA3, SA5
 Source: SA2*

**Abstract:**

1. Overall Description:

SA2 thanks SA6 for the LS on Application Architecture for enabling Edge Applications (S2-2002608/S6-192399), and would like to provide the following feedback.

SA2 understood that the “Application architecture” in clause 6.2 in TR 23.758 reuses SA2 defined reference points of EPS or 5GS for retrieval of network capability information. SA2 would like to highlight that SA2 supports Edge Computing specific functions only in 5GS.

SA2 understood that some solutions in TR 23.758 have dependencies on SA2 work as listed in Table 11.3.1-1 of the TR. SA2 hasn’t discussed whether any new SA2 features are needed to support these solutions. SA6 is welcome to send LS in case specific dependencies on SA2 are identified.

2. Actions:

To SA6 group.

ACTION: SA2 kindly asks SA6 to take above feedback into consideration.

**Discussion:**

Huawei presented the LS available as S6-200971.

The chairman noted that it would seem the reply says that SA2 is concentrating on 5GS.

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

**S6-200972 Reply LS on provisioning ""EDN connection info"" by Edge Configuration Server**

 *Type: LS in For: Action
 Original outgoing LS: S2-2004387, to SA6, cc -
 Source: SA2*

**Abstract:**

1. Overall Description:

SA2 thanks SA6 about the LS on provisioning "EDN connection info" by Edge Configuration Server (S2-2003201/S6-200617). SA2 discussed the questions and agreed the following answers.

Q1: SA6 kindly requests that SA2 comment on whether SA6’s understanding that a UE Application may provide a DNN is correct?

SA2 answer: SA2 considers the UE application mentioned in Q1 means upper layer to NAS (URSP handling) layer and SA2 confirms that the UE Application may provide a DNN that is used for matching Traffic descriptor(s) in the URSP rules.

Q2: SA6 kindly requests that SA2 comment on how to handle the scenario when parameters provisioned by Edge Configuration Server create a conflict with URSP rules, ANDSP rules or UE local configuration?

SA2 answer: According to TS 23.503, the association of an application to a PDU Session is based on either URSP (if provisioned by the operator) or UE Local Configuration.

SA2 treats the parameters provisioned by Edge Configuration Server as UE Local Configuration. The handling precedence between URSP and UE Local Configuration is defined in TS 23.503 clause 6.1.2.2.1.

Q3: SA6 kindly requests that SA2 comment on whether S-NSSAI can be provisioned by 3rd party via the application layer?

SA2 answer: According to TS 23.503, the association between application traffic and S-NSSAI associated to a PDU Session (by evaluating either URSP or UE Local Configuration) should be controlled by the operator to ensure that only expected service traffic flows are transferred via a specific slice. The UE Local Configuration (e.g. the operator specific configuration including S-NSSAI) can be configured by the operator (or operator’s contracted partner), however it is out of scope of SA2 how UE Local Configuration is configured in UE.

As an alternative to UE Local Configuration, some solutions are under discussion in TR 23.748 for Rel-17 to support the application layer (e.g. ECS) to influence the URSP rules that the network provisions to the UE.

2. Actions:

To SA6 group.

ACTION: SA2 kindly asks SA6 to take above information into consideration.

**Discussion:**

Huawei presented the LS available as S6-200972.

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

**S6-200973 Liaison from IETF Scope and goals of the Drone Remote ID Protocol Working Group (DRIP) of the Internet Engineering Task Force (IETF)**

 *Type: LS in For: Information
 Original outgoing LS: IETF LS 9th June2020, to SA6, cc -
 Source: IETF DRIP*

**Abstract:**

Dear Sir,

This email intents to share with 3GPP the scope and goals of the Drone Remote ID Protocol Working Group (DRIP) of the Internet Engineering Task Force (IETF).

The remaining of this email contains a brief description of the DRIP Working Group as well as the IETF.

If you have any questions or concerns, feel free to contact us, we would be more than happy to take them into account.

The DRIP co-chairs: Mohammed Boucadair and Daniel Migault

The Internet Area Director: Eric Vyncke.

For the complete presentation please refer to the original LS available in S6-200973.

**Discussion:**

Huawei presented the LS available as S6-200973.

It was decided to leave the LS initially OPEN for a while to allow for possible interested parties to indicate if there would be an interest to respond to the LS.

InterDigital noted it would interesting to know which 3GPP groups have received the LS.

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

**S6-200974 LS on SA5 Rel-17 work on SLA**

 *Type: LS in For: (not specified)
 Original outgoing LS: S5-203370, to GSMA 5GJA, 3GPP SA2, RAN3, IETF TEAS WG, cc 3GPP SA, SA1, SA6, RAN2, ETSI ISG ZSM
 Source: SA5*

**Abstract:**

1. Overall Description:

SA5 has cooperated with GSMA 5GJA on implementing NG.116 (v2.0) GST SLA attributes as network slice ServiceProfile attributes in the 3GPP Network Resource Model (NRM) (TS 28.541 clauses 6.3.3, 6.4.1) in the Rel-16 work item Management Aspects of 5G Service-Level Agreement. This work item has been finalised in Rel 16, and a continuing Rel-17 work item Enhancement of Management Aspects of 5G Service-Level Agreement (SP-200190) has been approved. In Rel-17, SA5 will continue working on implementing updated GST SLA attributes, as GSMA 5GJA will continue working on NG.116.

In addition, SA5 will work on breaking down SLA requirements to NetworkSliceSubnet to update the SliceProfile in the 3GPP NRM, which can provide clear requirements to CN, RAN and TN (TS 28.541 clauses 6.3.4, 6.4.1).

2. Actions:

To GSMA 5GJA:

SA5 respectfully requests GSMA 5GJA to take this information into account and provide feedback, if necessary.

To SA2 group:

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

To RAN3 group:

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

To IETF TEAS WG:

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

**Discussion:**

Huawei presented the LS available as S6-200974.

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

**S6-200975 LS on Key Management procedure in SEAL**

 *Type: LS in For: Information
 Original outgoing LS: C3-203588, to SA3, cc SA6, CT1
 Source: CT3*

**Abstract:**

1. Overall description

As specified in the clause 5.3 of TS 33.434 v0.4.0, the VAL server may request key material applicable to particular SEAL service, VAL client or user. CT3 seeks clarifications on SEAL KM Request message from VAL server to Key Management server, as specified in the clause 5.3.2.

CT3 asks SA3 to clarify the following:

Q1. Need clarity on the “Version” information element. What is the purpose of this version? Is it used to identify a key version or a message version for the reference point?

Q2. On ClientID that maps to the VAL client, there is no explicit requirement in TS 23.434 requiring a VAL server to support VAL client id. Is ClientID needed only for KM-UU? Or it is also applicable for KM-S reference point?

Q3. Except for identifying the late requests and responses, is there any other requirement of date/time in the KM request and the corresponding KM request response?

Q4. As per SEAL KM request procedure, the KMS shall verify the SKMSUri is the SKM-S URI of the target SEAL KMS. It is not clear if the SKMSUri is the URI where the key information are storedor it is a URI on the target KMS that the receiving KMS needs to further use/contact the target KMS via SEAL-E reference point by using the SkmsURI?

Q5. In SEAL KM response message, why is “Payload” optional and what is the meaning of “if the request does not require a payload” in its description? Are these to indicate there is no provisioned key material specific to the VAL service, VAL user/ue/client in the SEAL KM request? If so, what is the expected behavior for the VAL server, VAL user/ue/client after receiving the response without key?

2. Actions

To SA WG3 group:

ACTION: CT3 kindly asks SA3 to answer the above questions.

**Discussion:**

Huawei presented the LS available as S6-200975.

Motorola Solutions requested keeping the LS open for a while, in order to allow for internal verification.

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

**S6-200976 LS to 3GPP RAN5 on Requirement for Mission Critical Services (MCX) Testing and Certification 3GPP Release level**

 *Type: LS in For: Information
 Original outgoing LS: MCC-JTF-20-062r2, to RAN5, cc MCC TF160, 3GPP SA6
 Source: GCF-TCCA Joint Taskforce*

**Discussion:**

Motorola Solutions presented the LS available as S6-200976.

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

**S6-200977 LS on location reporting triggers**

 *Type: LS in For: Action
 Original outgoing LS: C3-202441, to SA6, cc -
 Source: CT3*

**Abstract:**

1 . Overall description

As defined in clause 9.3.5 of TS 23.434, the VAL server configures the location reporting trigger to the location management server to activate a location reporting procedure for obtaining the location information of location management client. It’s unclear that whether it is a one-time configuration or not.

Also as defined in clause 9.3.6 of TS 23.434, the location management server may cancel the location reporting triggers configuration to the location management client.

CT3 asks SA6 to clarify the following:

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

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

Also, in TS 29.549, for SS\_GroupManagement API, CT3 updated “Configure\_Group\_Info” service operation’s name to “Update\_Group\_Info”. CT3 kindly asks SA6 to take this information into consideration and update their specification.

2. Actions

To SA WG6 group:

ACTION: CT3 kindly asks SA6 to answer above questions and update their specification if necessary.

**Discussion:**

Huawei presented the LS available as S6-200977.

**Decision:** The document was **replied to in S6-201259**.

**S6-200978 LS on limiting the number of simultaneous log ins of an MCX user**

 *Type: LS in For: Information
 Original outgoing LS: C1-202819, to SA1, cc SA6
 Source: CT1*

**Discussion:**

Nokia presented the LS available as S6-200978.

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

**S6-200979 5G capabilities exposure for factories of the future**

 *Type: LS in For: Information
 Original outgoing LS: 5G-ACIA-LS-2020-WI039, to 3GPP TSG SA, cc 3GPP SA1, SA2, SA3, SA5, SA6, CT3, IEC TC65, oneM2M TP, OPC Foundation, PI, IEEE TSN, TM Forum, ETG
 Source: 5G-ACIA*

**Abstract:**

1. Overall Description:

Over the last two years, 5G-ACIA has collected and analysed many industrial use cases. These use cases – as well as inferred communication service characteristics – have been documented by 3GPP in TS 22.104 and TS 22.261. 5G-ACIA has further refined and analysed operational use cases that are needed by factory operators to manage and maintain 5G-enabled devices and 5G Non-Public Networks (NPN) in a simple and efficient manner.

5G-ACIA believes the service exposure requirements derived from the aforementioned operational use cases are valuable input for upcoming contributions addressing ongoing work in 3GPP, such as the study items documented in TR 23.700 and TR 23.745. These requirements have been published in the 5G-ACIA white paper Exposure of 5G capabilities for connected industries and automation applications (www.5g-acia.org/publications), which is also attached to this LS.

This white paper focuses on operational use cases pertaining to device management, for example use cases that enable factory operators to manage the life cycle of devices, and e.g. to change and monitor the devices’ connectivity. In order to execute these operational use cases efficiently, the industrial systems require a set of well standardised and published APIs that hide a great deal of 3GPP complexity and yet provide the needed flexibility to the factory operator.

These capabilities are needed by factories of the future and expected from 5G NPN and 5G-enabled devices. 5G-ACIA would like to highlight the importance of these refined requirements for industrial operations and would appreciate it very much, if 3GPP considered the provided information to ongoing and upcoming specification work.

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

2. Actions:

TO 3GPP TSG SA

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

**Discussion:**

Ericsson presented the LS available as S6-200979.

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

### 4.2 Outgoing LSs

**S6-201093 [DRAFT] Reply LS on 5G capabilities exposure for factories of the future**

 *Type: LS out For: Approval
 to 5G-ACIA, cc SA
 Source: Ericsson*

**Decision:** The document was **revised to S6-201175**.

**S6-201175 Draft Reply LS on 5G capabilities exposure for factories of the future**

 *Type: LS out For: Approval
 to 5G-ACIA, cc SA
 Source: Ericsson*

(Replaces S6-201093)

**Discussion:**

Ericsson presented the LS available as S6-201175.

Deutsche Telekom did not support to send an LS at this stage, possibly when the study is completed.

Qualcomm did not thing that the study was mature enough to send an LS as proposed, but possibly an LS indicating the work it still work in progress and subject to development.

Lenovo supported sending an LS.

Ericsson was of the view that it to be better to communicate earlier than later, but suggested later on to keep the LS open after initial presentation to allow considering of progress in the current meeting.

During the discussion it was noted that the next 5G-ACIA meeting will take place mid September, hence SA6 could consider this matter during the next SA6 meeting.

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

**S6-201150 Reply LS on location reporting triggers**

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

(Replaces S6-200855)

**Abstract:**

Reply LS on location reporting triggers

**Discussion:**

Huawei presented the LS available as S6-201150.

A modification to the original LS was discussed.

**Decision:** The document was **revised to S6-201222**.

**S6-201222 Reply LS on location reporting triggers**

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

(Replaces S6-201150)

**Discussion:**

The only change is changing the attachment to S6-201258.

The revised contribution, S6-201259, is considered pre-approved.

**Decision:** The document was **revised to S6-201259**.

**S6-201259 Reply LS on location reporting triggers**

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

(Replaces S6-201222)

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

**S6-201280 LS on 5GMSG segment size**

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

**Decision:** The document was **revised to S6-201300**.

**S6-201300 LS on 5GMSG segment size**

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

(Replaces S6-201280)

**Discussion:**

Some additional questions were presented (closing call).

S6-201315 was pre-approved

**Decision:** The document was **revised to S6-201315**.

**S6-201315 LS on 5GMSG segment size**

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

(Replaces S6-201300)

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

## 5 Items for early consideration

### 5.1 Working Agreements

none

### 5.2 Others

none

## 6 Rel-16 Work Items

**S6-201098 Interworking private call floor control**

 *Type: CR For: Agreement
 23.283 v16.4.0 CR-0053 Cat: F (Rel-16)

 Source: Motorola Solutions*

**Abstract:**

Interworking floor control does not explicitly cover private call, and all references and scenarios describe group call only. It is necessary to explicitly extend coverage to private call to ensure that private call scenarios are specified in stage 3, and to allow LMR standards organizations to develop compatible interworking standards that include private call as well as group call.

Requirements for floor control filtering in a private call need to be described.

An error in the description of information flows is misleading and needs to be corrected.

**Discussion:**

Motorola Solutions presented the doc available as S6-201098.

**Decision:** The document was **revised to S6-201178**.

**S6-201178 Interworking private call floor control**

 *Type: CR For: Agreement
 23.283 v16.4.0 CR-0053 rev 1 Cat: F (Rel-16)

 Source: Motorola Solutions*

(Replaces S6-201098)

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

**S6-201099 Interworking private call floor control**

 *Type: CR For: Agreement
 23.283 v17.1.0 CR-0054 Cat: F (Rel-17)

 Source: Motorola Solutions*

**Discussion:**

Mirror of CR in S6-201098.

(Category to be corrected.)

**Decision:** The document was **revised to S6-201179**.

**S6-201179 Interworking private call floor control**

 *Type: CR For: Agreement
 23.283 v17.1.0 CR-0054 rev 1 Cat: A (Rel-17)

 Source: Motorola Solutions*

(Replaces S6-201099)

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

**S6-201114 Ambient Listening Call release "Listened to" User initiated**

 *Type: CR For: Agreement
 23.379 v16.6.1 CR-0267 Cat: F (Rel-16)

 Source: HOME OFFICE*

**Abstract:**

Ambient listening cannot meet requirement [R-6.15.2.2.1-002] , no indication on the listened to user, without allowing the listened to device to drop the ambient listening session if the listened to user attempts a call.

**Discussion:**

Home Office presented the doc available as S6-201114.

The chairman noted the WI code was duplicated.

Motorola Solutions supported in principle the proposed change, but suggested some further clarifications.

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

**S6-201125 Ambient Listening Call release "Listened to" User initiated**

 *Type: CR For: Agreement
 23.379 v17.3.2 CR-0268 Cat: F (Rel-17)

 Source: HOME OFFICE*

**Abstract:**

Ambient listening cannot meet requirement [R-6.15.2.2.1-002] , no indication on the listened to user, without allowing the listened to device to drop the ambient listening session if the listened to user attempts a call.

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

**S6-201105 Multiple location trigger configurations**

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

**Abstract:**

At SA6#37e, there was a discussion about whether location reporting triggers from different LMC / VAL server towards the LMS lead to only one active trigger configuration or multiple trigger configurations. The intention to maintain multiple trigger configurations is good for the different consumers but the implication of allowing such mechanism should be clarified. The present paper discusses the co-existence of multiple location reporting trigger configurations. In addition, the present paper also discusses one more issue in the current procedure for immediate reporting and proposes a solution.

**Discussion:**

Ericsson presented the doc available as S6-201105.

A related CR is available in S6-201106.

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

**S6-201106 Multiple trigger configurations**

 *Type: CR For: (not specified)
 23.434 v16.4.0 CR-0023 Cat: F (Rel-16)

 Source: Ericsson*

**Abstract:**

For SEAL location management:

1) The immediate reporting requirement in client-triggered or VAL server-triggered location reporting is missing the corresponding immediate location report in clause 9.3.5.

2) And the existing procedures and information flows for supporting co-existence of multiple location reporting trigger configurations on the LMS and target LMC are also missing.

The present contribution proposes adding location information report in clause 9.3.5 to report immediate location.

Allow multiple location reporting triggers configurations and add configuration ID to identify each location reporting triggers configuration.

In addition, the last sentence in 9.3.3.2 step 3 is removed since it is not related to the configuration storage.

**Decision:** The document was **revised to S6-201206**.

**S6-201206 Multiple trigger configurations**

 *Type: CR For: -
 23.434 v16.4.0 CR-0023 rev 1 Cat: F (Rel-16)

 Source: Ericsson*

(Replaces S6-201106)

**Discussion:**

It was pointed out that the correct version was in "S6-20xxxx was1206 was1106 SEAL, Multiple trigger configurations 23434 R16 v2-revHW"

Tilte should read "Correct location configuration"

S6-201258 was pre-agreed.

**Decision:** The document was **revised to S6-201258**.

**S6-201258 Multiple trigger configurations**

 *Type: CR For: -
 23.434 v16.4.0 CR-0023 rev 2 Cat: F (Rel-16)

 Source: Ericsson, Huawei*

(Replaces S6-201206)

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

**S6-201133 Correction for API routing information**

 *Type: CR For: Agreement
 23.222 v16.8.0 CR-0076 rev 2 Cat: F (Rel-16)

 Source: Huawei, Hisilicon*

(Replaces S6-200844)

**Abstract:**

Proposal for Correction for API routing information.

**Decision:** The document was **revised to S6-201217**.

**S6-201217 Correction for API routing information**

 *Type: CR For: Agreement
 23.222 v16.8.0 CR-0076 rev 3 Cat: F (Rel-16)

 Source: Huawei, Hisilicon*

(Replaces S6-201133)

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

**S6-201134 Correction for API routing information**

 *Type: CR For: Agreement
 23.222 v17.1.0 CR-0077 rev 2 Cat: A (Rel-17)

 Source: Huawei, Hisilicon*

(Replaces S6-200845)

**Abstract:**

Proposal for Correction for API routing information.

**Decision:** The document was **revised to S6-201218**.

**S6-201218 Correction for API routing information**

 *Type: CR For: Agreement
 23.222 v17.1.0 CR-0077 rev 3 Cat: A (Rel-17)

 Source: Huawei, Hisilicon*

(Replaces S6-201134)

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

**S6-201154 Clarifications on MBMS listening status uage**

 *Type: CR For: Agreement
 23.434 v16.4.0 CR-0024 Cat: F (Rel-16)

 Source: Huawei, Hisilicon*

**Abstract:**

Proposal for Clarifications on MBMS listening status uage.

**Decision:** The document was **revised to S6-201226**.

**S6-201226 Clarifications on MBMS listening status uage**

 *Type: CR For: Agreement
 23.434 v16.4.0 CR-0024 rev 1 Cat: F (Rel-16)

 Source: Huawei, Hisilicon*

(Replaces S6-201154)

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

## 7 Rel-17 Work Items

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

**S6-201014 MCPTT private call forwarding to a functional alias as a target**

 *Type: CR For: Agreement
 23.379 v17.3.2 CR-0262 Cat: B (Rel-17)

 Source: Kontron Transportation France*

**Abstract:**

The user profile is enhanced to support a functional alias as target for the forwarded call, as well as the existing MCCPT ID.

**Discussion:**

Kontron presented the document during the informal conference call (D2).

**Decision:** The document was **revised to S6-201208**.

**S6-201208 MCPTT private call forwarding to a functional alias as a target**

 *Type: CR For: Agreement
 23.379 v17.3.2 CR-0262 rev 1 Cat: B (Rel-17)

 Source: Kontron Transportation France*

(Replaces S6-201014)

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

**S6-201015 MCPTT private call transfer to a functional alias as a target**

 *Type: CR For: Agreement
 23.379 v17.3.2 CR-0263 Cat: B (Rel-17)

 Source: Kontron Transportation France*

**Abstract:**

Information flows related to call transfer of MCPTT private calls are enhanced to support a functional alias as target of the call transfer, as well as the existing MCCPT ID.

**Discussion:**

Kontron presented the document during the informal conference call (D2).

**Decision:** The document was **revised to S6-201209**.

**S6-201209 MCPTT private call transfer to a functional alias as a target**

 *Type: CR For: Agreement
 23.379 v17.3.2 CR-0263 rev 1 Cat: B (Rel-17)

 Source: Kontron Transportation France*

(Replaces S6-201015)

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

**S6-201008 Correction of private call setup procedures when using a functional alias as target address**

 *Type: CR For: Agreement
 23.379 v17.3.2 CR-0261 Cat: F (Rel-17)

 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Text is clarified that resolving is always required when a functional alias is used as target address within in a private call setup request message.

**Discussion:**

Nokia presented the document during the informal conference call (D2).

**Decision:** The document was **revised to S6-201190**.

**S6-201190 Correction of private call setup procedures when using a functional alias as target address**

 *Type: CR For: Agreement
 23.379 v17.3.2 CR-0261 rev 1 Cat: F (Rel-17)

 Source: Nokia, Nokia Shanghai Bell*

(Replaces S6-201008)

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

**S6-201010 Update information flows to support interconnection for SDS**

 *Type: CR For: Agreement
 23.282 v17.3.0 CR-0223 Cat: B (Rel-17)

 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

The contribution proposes adding missing server to server information flows for the short data service.

**Discussion:**

Nokia presented the document during the informal conference call (D2).

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

**S6-201011 Update information flows to support interconnection for FD**

 *Type: CR For: Agreement
 23.282 v17.3.0 CR-0224 Cat: B (Rel-17)

 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Adds missing server to server information flows for the file distribution service.

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

**S6-201012 Update information flows to support interconnection for the IP connectivity service**

 *Type: CR For: Agreement
 23.282 v17.3.0 CR-0225 Cat: B (Rel-17)

 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Adds missing server to server information flows for the IP connectivity service.

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

**S6-201059 Limit the number of simultaneous logins on per user basis**

 *Type: CR For: Agreement
 23.282 v17.3.0 CR-0226 Cat: B (Rel-17)

 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Extends the MCData user profile configuration data (on-network) by an additional login limit on a per user basis.

**Discussion:**

Nokia presented the document during the informal conference call (D2).

**Decision:** The document was **revised to S6-201194**.

**S6-201194 Limit the number of simultaneous logins on per user basis**

 *Type: CR For: AgreeNokia, Nokia Shanghai Bell, Korea Railroad Research Institute (KRRI)ment
 23.282 v17.3.0 CR-0226 rev 1 Cat: B (Rel-17)

 Source: Nokia, Nokia Shanghai Bell, Korea Railroad Research Institute (KRRI)*

(Replaces S6-201059)

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

**S6-201153 Call restrictions for normal private calls**

 *Type: CR For: Agreement
 23.379 v17.3.2 CR-0269 Cat: B (Rel-17)

 Source: Huawei, Hisilicon*

**Abstract:**

Proposal for Call restrictions for normal private calls

**Discussion:**

Huawei presented the document during the informal conference call (D2).

**Decision:** The document was **revised to S6-201225**.

**S6-201225 Call restrictions for normal private calls**

 *Type: CR For: Agreement
 23.379 v17.3.2 CR-0269 rev 1 Cat: B (Rel-17)

 Source: Huawei, Hisilicon*

(Replaces S6-201153)

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

**S6-201007 Status of eMONASTERY2**

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

**Abstract:**

The paper provides an overall eMONASTERY2 status (Rel-17 work item).

**Discussion:**

Nokia presented the document during the informal conference call (D4).

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

**S6-201009 Correction of private call setup procedures when using a functional alias as target address**

 *Type: CR For: Agreement
 23.281 v17.3.0 CR-0145 Cat: F (Rel-17)

 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Text is clarified that resolving is always required when a functional alias is used as target address within in a private call setup request message.

**Decision:** The document was **revised to S6-201191**.

**S6-201191 Correction of private call setup procedures when using a functional alias as target address**

 *Type: CR For: Agreement
 23.281 v17.3.0 CR-0145 rev 1 Cat: F (Rel-17)

 Source: Nokia, Nokia Shanghai Bell*

(Replaces S6-201009)

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

**S6-201057 Limit the number of simultaneous logins on per user basis**

 *Type: CR For: Agreement
 23.379 v17.3.2 CR-0265 Cat: B (Rel-17)

 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Extends the MCPTT user profile configuration data (on-network) by an additional login limit on a per user basis.

**Discussion:**

Nokia presented the document during the informal conference call (D4).

Motorola Solutions raised a concern with having a user profile being overridden by a system wide parameter.

**Decision:** The document was **revised to S6-201192**.

**S6-201192 Limit the number of simultaneous logins on per user basis**

 *Type: CR For: Agreement
 23.379 v17.3.2 CR-0265 rev 1 Cat: B (Rel-17)

 Source: Nokia, Nokia Shanghai Bell, Korea Railroad Research Institute (KRRI)*

(Replaces S6-201057)

**Discussion:**

Some formatting issues were pointed out.

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

**S6-201058 Limit the number of simultaneous logins on per user basis**

 *Type: CR For: Agreement
 23.281 v17.3.0 CR-0147 Cat: B (Rel-17)

 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Extends the MCVideo user profile configuration data (on-network) by an additional login limit on a per user basis.

**Decision:** The document was **revised to S6-201193**.

**S6-201193 Limit the number of simultaneous logins on per user basis**

 *Type: CR For: Agreement
 23.281 v17.3.0 CR-0147 rev 1 Cat: B (Rel-17)

 Source: Nokia, Nokia Shanghai Bell, Korea Railroad Research Institute (KRRI)*

(Replaces S6-201058)

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

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

**S6-200989 Pseudo-CR on interaction between network layer and application layer in IOPS mode**

 *Type: pCR For: Agreement
 23.180 v1.0.0
 Source: ZTE Trunking Technology Corp.*

**Abstract:**

Currently the reference point of MC-IOPS-5 and MC-IOPS-6 are defined for interaction between network layer and application layer in IOPS mode. But it is not clear whether IOPS MC connectivity function act the exactly the same way as GCS AS defined in 23.468.

The contribution proposes calrification to the methods of interaction between network layer and application layer in IOPS mode.

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

**S6-201084 Pseudo-CR on Update to the sections scope and references**

 *Type: pCR For: Approval
 23.180 v1.0.0
 Source: Ericsson*

**Abstract:**

The contribution proposes updating of the scope to indicate that 3GPP TS 22.280 also includes MC service requirements in the IOPS mode.

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

**S6-201085 Pseudo-CR on Update to general description in functional model section**

 *Type: pCR For: Approval
 23.180 v1.0.0
 Source: Ericsson*

**Abstract:**

The contribution proposes changes to the general and description of planes within clause 7 (functional model).

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

**S6-201087 Pseudo-CR on Update to reference point MC-IOPS-X1 definition**

 *Type: pCR For: Approval
 23.180 v1.0.0
 Source: Ericsson*

**Abstract:**

The definition of the MC-IOPS-X1 reference point is updated to address the editor’s note.

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

**S6-201088 Pseudo-CR on IOPS configuration data – General and MC service UE configuration data**

 *Type: pCR For: Approval
 23.180 v1.0.0
 Source: Ericsson*

**Abstract:**

The contribution proposes introduction of configuration data needed for MC services in the IOPS mode.

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

**S6-201108 Pseudo-CR on IOPS configuration data – MC service user profile configuration data**

 *Type: pCR For: Approval
 23.180 v1.0.0
 Source: Ericsson*

**Abstract:**

The contribution proposes introduction of configuration data needed for MC services in the IOPS mode.

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

**S6-201109 Pseudo-CR on IOPS configuration data – Group configuration data**

 *Type: pCR For: Approval
 23.180 v1.0.0
 Source: Ericsson*

**Abstract:**

The contribution proposes introduction of configuration data needed for MC services in the IOPS mode.

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

**S6-201110 Pseudo-CR on IOPS configuration data – MC service configuration data**

 *Type: pCR For: Approval
 23.180 v1.0.0
 Source: Ericsson*

**Abstract:**

The contribution proposes introduction of configuration data needed for MC services in the IOPS mode.

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

### 7.3 enh3MCPTT – Enhanced Mission Critical Push-to-talk architecture phase 3

**S6-201043 Update of References**

 *Type: CR For: Agreement
 23.379 v17.3.2 CR-0264 Cat: D (Rel-17)

 Source: KRRI*

**Abstract:**

Update of References in TS 23.379 V17.3.2 is necessary for supporting the feasibility of MCPTT standard in a practical sense.

**Discussion:**

KRRI presented the document during the informal conference call (D3).

Ericsson did not think the proposed reference was appropriate.

Motorola Solutions also pointed out that there would need to be actual text that makes use of the reference in question, not just add a reference.

FirstNet also remarked that the CR would need to inlcude normative text referring to the refernce in question.

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

**S6-201071 Removal of Editors Note related to functional alias resolution by LMS**

 *Type: CR For: Agreement
 23.280 v17.3.0 CR-0261 Cat: D (Rel-17)

 Source: Samsung*

**Abstract:**

In section 10.9.1 exists and EN “It is for FFS how the location management server resolves the functional alias to the corresponding MC Service ID(s).” But we already have a procedure in 10.13.2.11 where in the LMS subscribes to the functional alias controlling MC Service server. Since the procedure is already existing in clause 10.13.2.11 this CR proposes removing the Editors note from clause 10.19.1.

**Discussion:**

Samsung presented the document during the informal conference call (D3).

Some further changes were presented during D4, it was noted that the changes were not anymore editorial so category should be changed accordingly.

**Decision:** The document was **revised to S6-201183**.

**S6-201183 Removal of Editors Note related to functional alias resolution by LMS**

 *Type: CR For: Agreement
 23.280 v17.3.0 CR-0261 rev 1 Cat: D (Rel-17)

 Source: Samsung*

(Replaces S6-201071)

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

**S6-201072 MBCP Resume by MCPTT Server**

 *Type: CR For: Agreement
 23.379 v17.3.2 CR-0266 Cat: B (Rel-17)

 Source: Samsung*

**Abstract:**

This contribution brings in new information elements for the unicast media resume indication and procedures for the same. There should be an indication to the floor participant that its request to stop the media is being overridden.

**Discussion:**

Samsung presented the document during the informal conference call (D3).

Motorola Solutions noted they had already commented by email, and stated that the proposed solution was not needed.

Huawei agreed with Motorola Solutions that this new proposed solution was needed.

**Decision:** The document was **revised to S6-201207**.

**S6-201207 MBCP Resume by MCPTT Server**

 *Type: CR For: Agreement
 23.379 v17.3.2 CR-0266 rev 1 Cat: B (Rel-17)

 Source: Samsung*

(Replaces S6-201072)

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

**S6-201151 Clarification on user subscription, group policy and functional alias policy**

 *Type: CR For: Agreement
 23.280 v17.3.0 CR-0258 rev 2 Cat: B (Rel-17)

 Source: Huawei, Hisilicon*

(Replaces S6-200857)

**Abstract:**

Proposal for Clarification on user subscription, group policy and functional alias policy

**Discussion:**

Huawei presented the document during the informal conference call (D3).

Motorola Solutions raised concerns with adding text to existing flows trying to make them multipurpose.

Discussion will continue over email.

**Decision:** The document was **revised to S6-201223**.

**S6-201223 Clarification on user subscription, group policy and functional alias policy**

 *Type: CR For: Agreement
 23.280 v17.3.0 CR-0258 rev 3 Cat: B (Rel-17)

 Source: Huawei, Hisilicon*

(Replaces S6-201151)

**Discussion:**

Motorola Solutions noted during the formal closing call that lot of improvements had been achieved but proposed to postpone the document for the coming meeting.

Huawei proposed however an agreement during the call.

The dispositiion was parked for a moment with the intention to return later during the call.

When returning to the contribution it was decided to postpone.

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

**S6-201152 Clarification on user subscription, group policy and functional alias policy**

 *Type: CR For: Agreement
 23.379 v17.3.2 CR-0260 rev 2 Cat: B (Rel-17)

 Source: Huawei, Hisilicon*

(Replaces S6-200858)

**Abstract:**

Proposal for Clarification on user subscription, group policy and functional alias policy

**Discussion:**

Huawei presented the document during the informal conference call (D3).

Motorola Solutions did not agree with the new proposed term "functional alias configuration" but agreed with replacing "user subscription" with "user profile" (however not "user profile configuration" as proposed).

**Decision:** The document was **revised to S6-201224**.

**S6-201224 Clarification on user subscription, group policy and functional alias policy**

 *Type: CR For: Agreement
 23.379 v17.3.2 CR-0260 rev 3 Cat: B (Rel-17)

 Source: Huawei, Hisilicon*

(Replaces S6-201152)

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

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

**S6-201073 Removal of content reference IE from FD requests using media plane**

 *Type: CR For: Agreement
 23.282 v17.3.0 CR-0227 Cat: F (Rel-17)

 Source: Samsung*

**Abstract:**

Content reference IE is mandatory when the FD is via HTTP and it is not required when FD is using media plane.

**Discussion:**

Samsung presented the document during the informal conference call (D3).

It was noted that it might be best to include this chagne also in Rel-16 and make the present CR a mirror to the Rel-16 CR.

**Decision:** The document was **revised to S6-201177**.

**S6-201177 Removal of content reference IE from FD requests using media plane**

 *Type: CR For: Agreement
 23.282 v17.3.0 CR-0227 rev 1 Cat: A (Rel-17)

 Source: Samsung*

(Replaces S6-201073)

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

**S6-201176 Removal of content reference IE from FD requests using media plane**

 *Type: CR For: Agreement
 23.282 v16.6.1 CR-235 Cat: F (Rel-16)

 Source: Samsung*

**Abstract:**

Content reference IE is mandatory when the FD is via HTTP and it is not required when FD is using media plane. Therefore the present contribution proposes removal of the content reference IE from the FD requests using media plane.

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

**S6-201076 Functional alias handling for one-one standalone SDS requests**

 *Type: CR For: Agreement
 23.282 v17.3.0 CR-0230 Cat: F (Rel-17)

 Source: Samsung*

**Abstract:**

If the functional alias is used as a target for the standaloneSDS requests and if the end-end encryption to be used then originating client should know the MCData ID derived by resolving the functional alias. Functional alias reaolution response is included between the MCData server and MCData client smiliar to what is introduced for MCPTT and MCVideo.

**Discussion:**

Samsung presented the document during the informal conference call (D3).

Some further improvements to the original CR had been proposed.

**Decision:** The document was **revised to S6-201188**.

**S6-201188 Functional alias handling for one-one standalone SDS requests**

 *Type: CR For: Agreement
 23.282 v17.3.0 CR-0230 rev 1 Cat: F (Rel-17)

 Source: Samsung*

(Replaces S6-201076)

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

**S6-201089 Providing stored files in MCData content server for FD over MBMS**

 *Type: CR For: Agreement
 23.282 v17.3.0 CR-0232 Cat: B (Rel-17)

 Source: Ericsson*

**Abstract:**

As described in clause 6.6.3.1.5, the MCData content server provides a repository area where authorized MCData users temporarily store files that are intended to be shared with other MCData users. The distribution of such files targeting a group of MCData users can be performed over MBMS. This clause includes an editor’s note indicating that how a stored file is provided for distribution over MBMS is FFS. Therefore, this editor’s note needs to be resolved.

The editor’s note in clause 6.6.3.1.5 is resolved by introducing procedures to define how a stored file in the MCData content server is provided for distribution over MBMS.

**Discussion:**

Ericsson presented the document during the informal conference call (D3).

Motorola Solutions raised some concerns with regard to the security of the proposed solution, and suggested adding a pre-condition in relation to this. They also did not agree with including arrows within boxes.

**Decision:** The document was **revised to S6-201230**.

**S6-201230 Providing stored files in MCData content server for FD over MBMS**

 *Type: CR For: Agreement
 23.282 v17.3.0 CR-0232 rev 1 Cat: B (Rel-17)

 Source: Ericsson*

(Replaces S6-201089)

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

**S6-201091 Enhancement of MBMS user service usage procedures**

 *Type: CR For: Agreement
 23.282 v17.3.0 CR-0233 Cat: C (Rel-17)

 Source: Ericsson*

**Abstract:**

The procedures in clauses 7.3.5.3.1 and 7.3.5.3.2 for pre-established and dynamic MBMS user services, respectively, indicate that when the MBMS user service architecture over the xMB interface is used, the MCData server only can define the pull ingest mode during the MBMS session creation. Hence, the MCData server provides the file location where the BM-SC can pull the file from. However, as described in 3GPP TS 26.348 and in the companion CR S6-201089, when the MBMS user service architecture is used, two different ingest modes can be defined by the MCData server. Therefore, the procedures in clauses 7.3.5.3.1 and 7.3.5.3.2 are enhanced to properly indicate that both ingest modes, pull and push, can be supported for file distribution over MBMS. The procedures in clauses 7.3.5.3.1 and 7.3.5.3.2 are enhanced to properly indicate that both ingest modes, pull and push, can be supported for file distribution over MBMS.

**Discussion:**

Ericsson presented the document during the informal conference call (D3).

**Decision:** The document was **revised to S6-201231**.

**S6-201231 Enhancement of MBMS user service usage procedures**

 *Type: CR For: Agreement
 23.282 v17.3.0 CR-0233 rev 1 Cat: C (Rel-17)

 Source: Ericsson*

(Replaces S6-201091)

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

**S6-201092 Enhancement of Group standalone FD using MBMS**

 *Type: CR For: Agreement
 23.282 v17.3.0 CR-0234 Cat: C (Rel-17)

 Source: Ericsson*

**Abstract:**

The procedure in clause 7.5.2.10 for group standalone file distribution using the MBMS download delivery method indicates that during the MBMS session establishment the MCData server only can define the pull ingest mode by providing the file location in the MCData content server. However, as described in 3GPP TS 26.348 and in the companion CR S6-201089, when the MBMS user service architecture is used, two different ingest modes can be defined by the MCData server. Therefore, the procedure in clause 7.5.2.10 is enhanced to properly use the MBMS download delivery method to define how a stored file in the MCData content server is provided for distribution over MBMS. The procedure in clause 7.5.2.10 is enhanced to properly use the MBMS download delivery method by including the option of supporting any of the specified ingest modes in 3GPP TS 26.346 to provide a stored file for distribution over MBMS.

**Discussion:**

Ericsson presented the document during the informal conference call (D3).

**Decision:** The document was **revised to S6-201232**.

**S6-201232 Enhancement of Group standalone FD using MBMS**

 *Type: CR For: Agreement
 23.282 v17.3.0 CR-0234 rev 1 Cat: C (Rel-17)

 Source: Ericsson*

(Replaces S6-201092)

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

**S6-201074 Functional alias handling for 1-1 FD requests**

 *Type: CR For: Agreement
 23.282 v17.3.0 CR-0228 Cat: F (Rel-17)

 Source: Samsung*

**Abstract:**

If the functional alias is used as a target for the one-one FD requests and if the end-end encryption to be used then originating client should know the MCData ID derived by resolving the functional alias. Functional alias reaolution response is included between the MCData server and MCData client smiliar to what is introduced for MCPTT and MCVideo.

**Decision:** The document was **revised to S6-201186**.

**S6-201186 Functional alias handling for 1-1 FD requests**

 *Type: CR For: Agreement
 23.282 v17.3.0 CR-0228 rev 1 Cat: F (Rel-17)

 Source: Samsung*

(Replaces S6-201074)

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

**S6-201075 Functional alias handling for one-one session SDS requests**

 *Type: CR For: Agreement
 23.282 v17.3.0 CR-0229 Cat: F (Rel-17)

 Source: Samsung*

**Abstract:**

If the functional alias is used as a target for the one-one session SDS requests and if the end-end encryption to be used then originating client should know the MCData ID derived by resolving the functional alias.

Functional alias resolution response is included between the MCData server and MCData client similar to what is introduced for MCPTT and MCVideo.

**Decision:** The document was **revised to S6-201187**.

**S6-201187 Functional alias handling for one-one session SDS requests**

 *Type: CR For: Agreement
 23.282 v17.3.0 CR-0229 rev 1 Cat: F (Rel-17)

 Source: Samsung*

(Replaces S6-201075)

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

**S6-201077 Functional alias handling for IPCon**

 *Type: CR For: Agreement
 23.282 v17.3.0 CR-0231 Cat: F (Rel-17)

 Source: Samsung*

**Abstract:**

If the functional alias is used as a target for the one-one IPCon requests and if the end-end encryption to be used then originating client should know the MCData ID derived by resolving the functional alias.

Functional alias resolution response is included between the MCData server and MCData client similar to what is introduced for MCPTT and MCVideo.

**Decision:** The document was **revised to S6-201189**.

**S6-201189 Functional alias handling for IPCon**

 *Type: CR For: Agreement
 23.282 v17.3.0 CR-0231 rev 1 Cat: F (Rel-17)

 Source: Samsung*

(Replaces S6-201077)

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

### 7.5 EDGEAPP – Architecture for enabling Edge Applications

**S6-201103 Pseudo-CR on QoS capability exposure**

 *Type: pCR For: (not specified)
 23.558 v0.3.0
 Source: Ericsson*

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

**S6-200980 Pseudo-CR on Specification of the Session with QoS API**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Apple*

**Abstract:**

For certain Edge services the Edge Application Server (EAS) needs the capability to request the 5G core network to provide a data session (QoS flow) with a specific QoS.

According to TR 23.758, Solution #11 "QoS Management for 5G Edge Applications", information related with QoS can be exposed to the EAS directly from the NEF or, as a 2nd option, the EAS can request QoS and receive QoS notifications via the Edge Enabler Server (EES), i.e. via the EDGE-3 and N5 reference points.

The first solution mentioned above is based on the use of service based operations between AF (= EAS) and NEF (Nnef\_AFsessionWithQoS service, see 3GPP TS 23.502) and has already been specified, but for the 2nd option the necessary procedures for the EDGE-3 reference point are missing.

**Decision:** The document was **revised to S6-201268**.

**S6-201268 Pseudo-CR on Specification of the Session with QoS API**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Apple, Ericsson*

(Replaces S6-200980)

**Discussion:**

It was suggested to remove duplicate editor's notes below step 1.

**Decision:** The document was **revised to S6-201325**.

**S6-201325 Pseudo-CR on Specification of the Session with QoS API**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Apple, Ericsson, CATT*

(Replaces S6-201268)

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

**S6-200987 Overview of application context relocation - potential way forward**

 *Type: discussion For: Discussion
 Source: Apple (UK) Limited*

**Abstract:**

The contribution presents an overview of Application Context Relocation as a potential way forward.

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

**S6-200988 Pseudo-CR on Overview of Application Context Relocation Procedure**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Apple, Qualcomm*

**Abstract:**

There were a number of discussions at SA6#37-e on the scope of the edge enablement layer responsibility in order to support application context transfer, as well as the overall procedure for application context relocation. There was general agreement that a high level diagram would be helpful to get the big picture.

The contribution proposes clarification to the scope of application context transfer for the edge enablement layer, and to agree at a high level, the steps required in order to perform application context transfer, and to document the agreement in TS 23.558 in clause 8.8.1.

**Decision:** The document was **revised to S6-201285**.

**S6-201285 Pseudo-CR on Overview of Application Context Relocation Procedure**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Apple, Qualcomm*

(Replaces S6-200988)

**Discussion:**

It was noted that one previously agreed editor's note had been omitted.

S6-201321 was pre-approved

**Decision:** The document was **revised to S6-201321**.

**S6-201321 Pseudo-CR on Overview of Application Context Relocation Procedure**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Apple, Qualcomm*

(Replaces S6-201285)

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

**S6-201021 Discussion on comparison between alternatives for triggering a UE mobility event**

 *Type: discussion For: (not specified)
 Source: Intel Deutschland GmbH*

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

**S6-201022 Discussion on Involving the AC in Application Context Transfer**

 *Type: discussion For: (not specified)
 Source: Intel Deutschland GmbH*

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

**S6-201024 pCR on correction to ECS address**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Intel Deutschland GmbH*

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

**S6-201025 pCR on Application Context Transfer involving the AC**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Intel Deutschland GmbH*

**Abstract:**

This contribution proposes a new procedure for Application Context Transfer as a result of a UE mobility event. This procedure relies on existing Service Provisioning and EAS discovery procedures for discovering the target EAS(s). It also relies on AC(s) being triggered to initiate and supervise the transfer of application context.

**Decision:** The document was **revised to S6-201313**.

**S6-201313 pCR on Application Context Transfer involving the AC**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Intel Deutschland GmbH*

(Replaces S6-201025)

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

**S6-201027 Pseudo-CR on Privacy Requirement**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Sony*

**Abstract:**

At the previous meeting we agreed to send LS to SA3 with the existing security and privacy requirements knowing that what we have is not complete. This document proposes missing privacy requirements that was discussed at previous meeting when we discussed how to handle personal data like permanent identifiers.

**Decision:** The document was **revised to S6-201281**.

**S6-201281 Pseudo-CR on Privacy Requirement**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Sony*

(Replaces S6-201027)

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

**S6-201028 Pseudo-CR on EDGE-3 Cardinality**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Sony*

**Abstract:**

EDGE-3 Cardinality

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

**S6-201029 Pseudo-CR on definition of EASID and Edge UE ID**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Sony*

**Abstract:**

Definition of EASID and Edge UE ID.

**Decision:** The document was **revised to S6-201282**.

**S6-201282 Pseudo-CR on definition of EASID and Edge UE ID**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Sony*

(Replaces S6-201029)

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

**S6-201121 Pseudo-CR on UE location (Commonly used value)**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Samsung Electronics*

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

**S6-201030 Pseudo-CR on UE Location**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Sony*

**Abstract:**

The current specification does not describe which cell ID to use when the UE is for example using carrier aggregation or dual connectivity. This proposal also removes the reason for keeping the Editor’s Note.

**Decision:** The document was **revised to S6-201283**.

**S6-201283 Pseudo-CR on UE Location**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Sony, Samsung, InterDigital*

(Replaces S6-201030)

**Decision:** The document was **revised to S6-201316**.

**S6-201316 Pseudo-CR on UE Location**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Sony, Samsung, InterDigital*

(Replaces S6-201283)

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

**S6-201033 Pseudo-CR on S6-200999, EN in Service continuity**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Sony*

**Abstract:**

EN in Service continuity

**Decision:** The document was **revised to S6-201284**.

**S6-201284 Pseudo-CR on S6-200999, EN in Service continuity**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Sony*

(Replaces S6-201033)

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

**S6-201036 Pseudo-CR on clarifying EAS description**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: InterDigital*

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

**S6-201037 Pseudo-CR on enhancing EAS Profile with Network Service Area**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: InterDigital*

**Discussion:**

InterDigital noted that with the EN added in S6-201294 in the present contibution can be postponed.

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

**S6-201049 EEC capability**

 *Type: pCR For: (not specified)
 23.558 v0.3.0
 Source: Samsung*

**Decision:** The document was **revised to S6-201260**.

**S6-201260 EEC capability**

 *Type: pCR For: -
 23.558 v0.3.0
 Source: Samsung*

(Replaces S6-201049)

**Discussion:**

S6-201322 was pre-approved

**Decision:** The document was **revised to S6-201322**.

**S6-201322 EEC capability**

 *Type: pCR For: -
 23.558 v0.3.0
 Source: Samsung*

(Replaces S6-201260)

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

**S6-201050 Clarification on UP path management event API**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Samsung*

**Abstract:**

This pCR clarifies the UP path management event API to be aligned with operations in TS 23.502 by adding information elements necessary for the Edge Enabler Server to determine the type of subscription and/or indication of AF acknowledgement to be expected. The current User plane path management event API subscribe request in clause 8.6.3 does not clarify how early/late notification can be applied or how to let SMF expect the AF acknowledgement for UP path configuration/activation.

Additionally, this pCR introduces the use of Nnef\_APISupportCapability or Availability of service APIs event notifications to monitor and provide the availability of the UP path management event API.

**Decision:** The document was **revised to S6-201261**.

**S6-201261 Clarification on UP path management event API**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Samsung, Ericsson*

(Replaces S6-201050)

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

**S6-201051 EES DNAI information**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Samsung*

**Abstract:**

This pCR proposes EES DNAI information that includes DNAI(s) associated to the EES as an information element of the EES profile. The EES DNAI information can be used for target EES selection aligned with target DNAI(s) received from the 3GPP network (e.g. via UP path change notification).

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

**S6-201262 EES DNAI information**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Samsung*

(Replaces S6-201051)

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

**S6-201052 UE CN Type and interaction with 3GPP network**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Samsung*

**Decision:** The document was **revised to S6-201263**.

**S6-201263 UE CN Type and interaction with 3GPP network**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Samsung*

(Replaces S6-201052)

**Discussion:**

Huawei was of the view that consultation with SA2 (LS) on the topic of this use case, prior to proceeding per made proposal.

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

**S6-201053 EAS profile and AF request**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Samsung*

**Abstract:**

This pCR introduces additional EAS profile elements, which is necessary for the Edge Enabler Server to issue the AF request on behalf of the registered EAS.

**Decision:** The document was **revised to S6-201264**.

**S6-201264 EAS profile and AF request**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Samsung*

(Replaces S6-201053)

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

**S6-201054 Target EAS discovery with target DNAI**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Samsung*

**Abstract:**

This pCR introduces target DNAI provided from the 3GPP network within target EAS discovery request of the source EAS, so that the source EAS can discover the target EAS corresponding to the UP path change identified by the target DNAI. The proposed change resolves the following EN :

Editor's Note: Whether the information in the discovery is sufficient to discover a proper EAS is FFS.

**Decision:** The document was **revised to S6-201265**.

**S6-201265 Target EAS discovery with target DNAI**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Samsung*

(Replaces S6-201054)

**Discussion:**

S6-201323 was pre-approved.

**Decision:** The document was **revised to S6-201323**.

**S6-201323 Target EAS discovery with target DNAI**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Samsung*

(Replaces S6-201265)

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

**S6-201055 Application context relocation initiated by the EEC**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Samsung*

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

**S6-201060 Dynamic Availability Procedures**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: ETRI, UANGEL*

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

**S6-201117 Pseudo-CR on EAS information subscription**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Samsung Electronics, ETRI, UANGEL*

**Decision:** The document was **revised to S6-201292**.

**S6-201292 Pseudo-CR on EAS information subscription**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Samsung Electronics, ETRI, UANGEL*

(Replaces S6-201117)

**Abstract:**

This contribution introduces a subscription-notification mechanism.

**Discussion:**

During the closisng session Huawei was opposed to the contribution even with the additional proposals made.

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

**S6-201067 Application context relocation initiated by EES**

 *Type: pCR For: (not specified)
 23.558 v0.3.0
 Source: Samsung*

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

**S6-201078 ECS Discovery**

 *Type: pCR For: Agreement
 23.558 v0.3.0
 Source: Qualcomm Technologies Int*

**Abstract:**

Related to configuration & discovery of ECS information before service provisioning

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

**S6-201068 ECS discovery**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Samsung*

**Abstract:**

It proposes various methods for EAS address configuration or derivation

**Decision:** The document was **revised to S6-201267**.

**S6-201267 ECS discovery**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Samsung, Qualcomm*

(Replaces S6-201068)

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

**S6-201023 pCR on EAS selection EN resolution**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Intel Deutschland GmbH*

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

**S6-201069 EAS selection**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Samsung*

**Abstract:**

It discusses and proposes EAS selection

**Decision:** The document was **revised to S6-201266**.

**S6-201266 EAS selection**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Samsung, Intel*

(Replaces S6-201069)

**Discussion:**

During the closing conf call Huawei still had some concern with the proposal in question.

Qualcomm supported the proposal.

Huawei made a contra-proposal to remove parts of the proposal, leaving only the 3 editor's notes.

Intel did however not agree to any additional changes.

InterDigital noted they supported even the reduced text proposal.

Qualcomm suggested to either accept the proposal as is or postpone.

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

**S6-201079 Pseudo-CR on UE to Edge application context transfer**

 *Type: pCR For: Agreement
 23.558 v0.3.0
 Source: Qualcomm Technologies Int*

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

**S6-201080 pCR on EEC triggered application context relocation**

 *Type: pCR For: Agreement
 23.558 v0.3.0
 Source: Qualcomm Technologies Int*

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

**S6-201101 Pseudo-CR on EES registration time**

 *Type: pCR For: (not specified)
 23.558 v0.3.0
 Source: Ericsson*

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

**S6-201102 Pseudo-CR on event report info in UE location subscription**

 *Type: pCR For: (not specified)
 23.558 v0.3.0
 Source: Ericsson*

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

**S6-201104 Pseudo-CR on EAS and EES registration clarification**

 *Type: pCR For: (not specified)
 23.558 v0.3.0
 Source: Ericsson*

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

**S6-201112 Pseudo-CR on update to Annex C**

 *Type: pCR For: Decision
 23.558 v0.3.0
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

This contribution provides minor updates to the figure in Annex C to:

• align terminology with ETSI ISG MEC

• include a missing interface betweek the MEC Orchestrator and the core network.

**Decision:** The document was **revised to S6-201287**.

**S6-201287 Pseudo-CR on update to Annex C**

 *Type: pCR For: Decision
 23.558 v0.3.0
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S6-201112)

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

**S6-201113 Separation between EEC registration and EAS discovery procedure**

 *Type: discussion For: Discussion
 23.558 v..
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Proposal to remove separation between EEC registration and EAS discovery procedure

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

**S6-201032 Service provisioning**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Sony*

**Abstract:**

Clarification is needed for where the UE retrieve the initial configuration required to connect to the Edge Data Network.

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

**S6-200986 Pseudo-CR on EAS Data Network Connectivity**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Apple (UK) Limited*

(Replaces S6-200460)

**Abstract:**

EAS Data Network Connectivity was discussed in SA6#36bis-e meeting, and as a result of the discsusion, an LS was sent to SA2 in S6-200617. SA2 provided a response in S2-2004387 / S6-200972.

SA2 clarified that the association of an application to a PDU Session is based on either URSP, if provisioned by the operator, or UE Local Configurations. UE Local Configurations can be provisioned by Edge Configuration Server.

Following the SA2 clarification, provisioning of "connectivity information to the Edge Data Network" is useful for the case when the UE is not provisioned or pre-configured with URSP rules by the HPLMN. Therefore, it is proposed to extend EDN connection info in the Provisioning response from the Edge Configuration Server with additional information, e.g. S-NSSAI (DNN/APN is already present in current specification) which the Edge network requires for this client, by either interacting via CAPIF, SCEF/NEF, directly with underlying network or by static configurations.

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

**S6-201115 Pseudo-CR on Service provisioning**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Samsung Electronics, Intel, AT&T, Convida, Qualcomm*

**Abstract:**

The contribution is to clean up service provisioning procedure and introduce subscribe notify model.

**Decision:** The document was **revised to S6-201289**.

**S6-201289 Pseudo-CR on Service provisioning**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Samsung Electronics, Intel, AT&T, Convida, Qualcomm, ETRI, UANGEL, Sony, Interdigital, Huawei*

(Replaces S6-201115)

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

**S6-201031 Pseudo-CR on Application Client Profile**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Sony*

**Abstract:**

Application Client Profile

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

**S6-201116 Pseudo-CR on EAS discovery**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Samsung Electronics, Intel, AT&T, Convida, Qualcomm*

**Decision:** The document was **revised to S6-201290**.

**S6-201290 Pseudo-CR on EAS discovery**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Samsung Electronics, Intel, AT&T, Convida, Qualcomm, Sony, Huawei*

(Replaces S6-201116)

**Discussion:**

Some additonal changes were presented during the closing call.

S6-201318 was pre-approved.

**Decision:** The document was **revised to S6-201318**.

**S6-201318 Pseudo-CR on EAS discovery**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Samsung Electronics, Intel, AT&T, Convida, Qualcomm, Sony, Huawei, InterDigital*

(Replaces S6-201290)

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

**S6-201118 Pseudo-CR on EDN and EAS service area**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Samsung Electronics*

**Abstract:**

'EDN service area' and 'EAS service area' are two constructs that are being used in the TS without clear description of the constructs.

**Decision:** The document was **revised to S6-201294**.

**S6-201294 Pseudo-CR on EDN and EAS service area**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Samsung Electronics, InterDigital*

(Replaces S6-201118)

**Discussion:**

S6-201317 was pre-approved.

**Decision:** The document was **revised to S6-201317**.

**S6-201317 Pseudo-CR on EDN and EAS service area**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Samsung Electronics, InterDigital*

(Replaces S6-201294)

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

**S6-201119 Pseudo-CR on Deployment guidelines for seamless service continuity**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Samsung Electronics*

**Abstract:**

This contribution provides deployment guidelines for Application Service Providers to plan the service areas of Edge Application Servers such that it is possible to provide seamless service continuity.

**Decision:** The document was **revised to S6-201295**.

**S6-201295 Pseudo-CR on Deployment guidelines for seamless service continuity**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Samsung Electronics*

(Replaces S6-201119)

**Discussion:**

During the closing call:

Huawei did not agree with the directions proposed in the contribution.

Qualcomm also noted that they did not agree with the proposed scenario presented.

InterDigital noted a concern with the proposed contribution.

Samsung noted it would have been appreciated having the concerns earlier in the process.

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

**S6-201120 Pseudo-CR on missing reference to TS 23.682**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Samsung Electronics*

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

**S6-201122 Pseudo-CR on Implicit expiry of UE location subscriptions**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Samsung Electronics*

**Abstract:**

The contribution adds the notion of implicit expiration of UE location subscriptions.

**Decision:** The document was **revised to S6-201298**.

**S6-201298 Pseudo-CR on Implicit expiry of UE location subscriptions**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Samsung Electronics*

(Replaces S6-201122)

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

**S6-201123 Pseudo-CR on Reference to clause 8.9.3 for UE location**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Samsung Electronics*

**Abstract:**

The pCR merges the contents of clause 8.6.2.2.3 (Detection of UE location from the 3GPP system) with the procedure in 8.6.2.2.1 and 8.6.2.2.2.1 and provides a reference to clause 8.9.3 for detection of UE location.

**Decision:** The document was **revised to S6-201299**.

**S6-201299 Pseudo-CR on Reference to clause 8.9.3 for UE location**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Samsung Electronics*

(Replaces S6-201123)

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

**S6-201124 Pseudo-CR on API definition for UE Identifier API**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Samsung Electronics*

**Abstract:**

The pCR introduces the API definition for UE identifier API.

**Decision:** The document was **revised to S6-201302**.

**S6-201302 Pseudo-CR on API definition for UE Identifier API**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Samsung Electronics*

(Replaces S6-201124)

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

**S6-201130 Pseudo-CR on service provisioning update**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: CATT*

**Abstract:**

This contribution provides updates on service provisioning procedure and information flows, and resolves the Editor's notes.

**Decision:** The document was **revised to S6-201311**.

**S6-201311 Pseudo-CR on service provisioning update**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: CATT*

(Replaces S6-201130)

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

**S6-201135 Update to service provisioning**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Huawei, Hisilicon*

**Abstract:**

Proposal for Update to service provisioning

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

**S6-201136 Subscribe-Notify Service provisioning procedures**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Huawei, Hisilicon*

**Abstract:**

Proposal for Subscribe-Notify Service provisioning procedures

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

**S6-201137 Update to EAS discovery procedure**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Huawei, Hisilicon*

**Abstract:**

Proposal for Update to EAS discovery procedure

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

**S6-201138 Requirements for Edge Service Continuity**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Huawei, Hisilicon*

**Abstract:**

This contribution provides a proposal for requirements on edge service continuity. Currently, the requirements for service continuity including application context relocation are not specified in the TS. The present contribution proposes adding the requirements for supporting of Edge Application context relocation.

**Decision:** The document was **revised to S6-201304**.

**S6-201304 Requirements for Edge Service Continuity**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Huawei, Hisilicon*

(Replaces S6-201138)

**Discussion:**

S6-201320 was pre-approved.

**Decision:** The document was **revised to S6-201320**.

**S6-201320 Requirements for Edge Service Continuity**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Huawei, Hisilicon*

(Replaces S6-201304)

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

**S6-201139 Edge service continuity procedure**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Huawei, Hisilicon*

**Abstract:**

Proposal for Edge service continuity procedure

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

**S6-201140 Clarification about EAS Instance ID**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Huawei, Hisilicon*

**Abstract:**

Proposal for Clarification about EAS Instance ID

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

**S6-201100 Pseudo-CR on EES exposure without CAPIF**

 *Type: pCR For: (not specified)
 23.558 v0.3.0
 Source: Ericsson*

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

**S6-201141 Clarification about Network Capability Exposure**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Huawei, Hisilicon*

**Abstract:**

This contribution provides a proposal for clarification about Network Capability Exposure.

**Decision:** The document was **revised to S6-201305**.

**S6-201305 Clarification about Network Capability Exposure**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Huawei, Hisilicon, Ericsson, Samsung*

(Replaces S6-201141)

**Discussion:**

During the closing call it was noted that China Mobile wished to appear as co-signer, but had been omitted from the contribution.

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

**S6-201142 Retrieve Target Edge Enabler Server**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Huawei, Hisilicon*

**Abstract:**

This contribution provides a proposal for Retrieve Target Edge Enabler Server.

**Decision:** The document was **revised to S6-201306**.

**S6-201306 Retrieve Target Edge Enabler Server**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Huawei, Hisilicon*

(Replaces S6-201142)

**Discussion:**

S6-201324 was pre-approved.

**Decision:** The document was **revised to S6-201324**.

**S6-201324 Retrieve Target Edge Enabler Server**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Huawei, Hisilicon*

(Replaces S6-201306)

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

**S6-201143 Update EES profile with service area information of EDN**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Huawei, Hisilicon*

**Abstract:**

This pCR proposes to include EDN service area information for the EES.

**Decision:** The document was **revised to S6-201307**.

**S6-201307 Update EES profile with service area information of EDN**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Huawei, Hisilicon*

(Replaces S6-201143)

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

**S6-201144 Clarifying the EAS information provided to ECS by EES**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Huawei, Hisilicon*

**Abstract:**

Proposal for Clarifying the EAS information provided to ECS by EES

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

**S6-201145 Considering UE location during EES provisioning**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Huawei, Hisilicon*

**Abstract:**

This pCR is propoded to consider the UE location when provisioning the EES information to the EEC.

**Decision:** The document was **revised to S6-201308**.

**S6-201308 Considering UE location during EES provisioning**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Huawei, Hisilicon*

(Replaces S6-201145)

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

**S6-201146 EES provisioning when UE is roaming**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Huawei, Hisilicon*

**Abstract:**

Proposal for EES provisioning when UE is roaming

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

**S6-201170 Pseudo-CR on EDGEAPP restructuring capability exposure**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Samsung*

**Abstract:**

In the current version of EDGEAPP TS 23.558, procedures related to Capability Exposure are spread across multiple clauses which requires restructuring for better readibility purposes.

**Decision:** The document was **revised to S6-201303**.

**S6-201303 Pseudo-CR on EDGEAPP restructuring capability exposure**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: Samsung*

(Replaces S6-201170)

**Discussion:**

During the closing call Huawei proposed a change to figure 6.6-1 (Edge -3 being API based).

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

**S6-201172 Pseudo-CR on rephrasing of pointer to SA3**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: InterDigital*

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

**S6-201173 Pseudo-CR on correction of NOTE in 8.5.2.2**

 *Type: pCR For: Approval
 23.558 v0.3.0
 Source: InterDigital*

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

**S6-201174 Outcomes from drafting session on service continuity**

 *Type: discussion For: Discussion
 Source: SA6 Vice-Chairman*

**Decision:** The document was **revised to S6-201319**.

**S6-201319 Outcomes from drafting session on service continuity**

 *Type: discussion For: Discussion
 Source: SA6 Vice-Chairman*

(Replaces S6-201174)

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

### 7.6 TEI17 – Technical Enhancements and Improvements

**S6-201013 Add the IE of priority in information flows for transmission control**

 *Type: CR For: (not specified)
 23.281 v16.3.0 CR-0146 Cat: F (Rel-16)

 Source: TD Tech Ltd*

**Abstract:**

When the transmission control server receives a transmit media request from transmission control participant ,it decides wether to give a grant or

not based on transmission control criteria.The priority should be included in transmission control criteria to indicate the importance of the transmission media.When the maximum media transmission limit for the MCVideo session is reached, transmission control server determines to accept the transmit media request which has a higher priority and decides to pre-empt the on-going video transmission.

The present contribution proposes adding the IE of priority in the transmit media request and remote transmit media request messages.

**Discussion:**

TD Tech presented the document during the informal conference call (D2).

The document was further discussed during the informal call D4.

Home Office sugested it to be verified whether further clauses require changes.

After discussion it was concluded the CR would me made for Rel-17 only using WID TEI17.

**Decision:** The document was **revised to S6-201244**.

**S6-201244 Add the IE of priority in information flows for transmission control**

 *Type: CR For: -
 23.281 v17.3.0 CR-0146 rev 1 Cat: F (Rel-17)

 Source: TD Tech Ltd*

(Replaces S6-201013)

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

## 8 Study Items

### 8.1 FS\_MCOver5GS – Study on Mission Critical Services support over 5G System

**S6-200990 Pseudo-CR on interworking between MC system over 5GS and 4G EPC**

 *Type: pCR For: Agreement
 23.783 v0.10.0
 Source: ZTE Trunking Technology Corp.*

**Abstract:**

Deployment of 5G network may last a long time, and in the initial deployment stage 5G network is not providing good coverage. There is scenario that some group member users’ UEs camping on 4G LTE cell while other group member user’s UEs camping on 5G NR cells and thus interworking between MC system over 5GS and 4G EPC is very important to achieve inter RAT group communication. There is risk that the difference of accessing network used by group member user’s UEs may impact the usability of group communication services.

The contribution proposes adding a key issue in relation to this.

**Discussion:**

ZTE presented the document during the informal conference call (D3).

Motorola Solutions suggested rephrasing the first key issue bullet in to the form of whether and how as it is unknown whether there are impacts nd deleting the two remaining bullets.

FirstNet noted that this is more of an interconnection issue and not interworking.

Motorola Solutions further noted that this is neither interconnection nor interworking. Having two different types of RANs is a network issue and does not introduce interworking or interconnection.

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

**S6-200991 Pseudo-CR on service continuity of MC UE mobility between MC system over 5GS and 4G EPC**

 *Type: pCR For: Agreement
 23.783 v0.10.0
 Source: ZTE Trunking Technology Corp.*

**Abstract:**

Deployment of 5G network may last a long time, at least in the initial deployment stage 5G network is not providing good coverage. There is scenario that MC UE in process of MC services (e.g. group call) moves across boundary of 4G LTE service area and 5G NR service area (It is assumed that MC UEs should support both 4G LTE and 5G NR RATs). The MC UE mobility between 4G EPC and 5GS network is not transparent to MC service layer and thus it will impact the MC service continuity. Obvious MC services interruption may happen when MC UE moves across boundary of 4G LTE service area and 5G NR service area.

**Discussion:**

ZTE presented the document during the informal conference call (D3).

Motorola Solutions suggested rephrasing the first key issue bullet in to the form of whether and how as it is unknown whether there are impacts nd deleting the two remaining bullets.

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

**S6-200981 Key issue 3 use of 5GS DNN in the context for MCData message store**

 *Type: pCR For: Approval
 23.783 v0.10.0
 Source: UIC, Nokia, Nokia Shanghai Bell, Kontron*

**Abstract:**

With the use of 5GS, the DNN concept with the associated PDU sessions and QoS flows has to be used during migration to access the corresponding message store. In 3GPP TS 23.282 subclause 7.13.6 Interconnection and migration with MCData message store the use of DNN has to be provided accordingly for the use of 5GS. This will complete the potential solutions for key issue 3.

**Decision:** The document was **revised to S6-201201**.

**S6-201201 Key issue 3 use of 5GS DNN in the context for MCData message store**

 *Type: pCR For: Approval
 23.783 v0.10.0
 Source: UIC, Nokia, Nokia Shanghai Bell, Kontron*

(Replaces S6-200981)

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

**S6-200982 Key issue 6 - 5GS DNN usage and resource control**

 *Type: pCR For: Approval
 23.783 v0.10.0
 Source: UIC, Nokia, Nokia Shanghai Bell, Kontron*

**Abstract:**

The present contribution proposes resolving the editor´s notes in clause 5.2.7a.0.

The allocation and management of transport resources in 5GS is PDU session and QoS flow oriented. Each QoS flow within an PDU session will receive individual latency values, reliability values and priorities. In addition to the predefined 5QI values, values defined by the MC service operator can also be used. Accordingly, 5GS is more flexible in handling QoS characteristica than EPS. 3GPP TS 24.229 defines the relationship between an IP CAN bearer and 5GS, which corresponds to an QoS flow. In this sense, IMS SIP signaling and media flows correspond to individual QoS flows. The EPS bearer approach associated with QoS attributes and priorities can be transferred using a single DNN approach with PDU sessions and QoS flows, taking into account the PDU session limitation. This can be considered if only 5GS is used for MC services. If MC services are used alternately under EPS and 5GS conditions, then the multiple APN / DNN approach need to be considered.

**Decision:** The document was **revised to S6-201202**.

**S6-201202 Key issue 6 - 5GS DNN usage and resource control**

 *Type: pCR For: Approval
 23.783 v0.10.0
 Source: UIC, Nokia, Nokia Shanghai Bell, Kontron*

(Replaces S6-200982)

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

**S6-200983 Key issue 6 - MCVideo DNN usage and resource control using 5GS**

 *Type: pCR For: Approval
 23.783 v0.10.0
 Source: UIC, Nokia, Nokia Shanghai Bell, Kontron*

**Decision:** The document was **revised to S6-201203**.

**S6-201203 Key issue 6 - MCVideo DNN usage and resource control using 5GS**

 *Type: pCR For: Approval
 23.783 v0.10.0
 Source: UIC, Nokia, Nokia Shanghai Bell, Kontron*

(Replaces S6-200983)

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

**S6-200984 Key issue 6 - MCData DNN usage and resource control using 5GS**

 *Type: pCR For: Approval
 23.783 v0.10.0
 Source: UIC, Nokia, Nokia Shanghai Bell, Kontron*

**Decision:** The document was **revised to S6-201204**.

**S6-201204 Key issue 6 - MCData DNN usage and resource control using 5GS**

 *Type: pCR For: Approval
 23.783 v0.10.0
 Source: UIC, Nokia, Nokia Shanghai Bell, Kontron*

(Replaces S6-200984)

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

**S6-200985 Key issue 6 MCPTT DNN usage and resource control using 5GS**

 *Type: pCR For: Approval
 23.783 v0.10.0
 Source: UIC, Nokia, Nokia Shanghai Bell, Kontron*

**Decision:** The document was **revised to S6-201205**.

**S6-201205 Key issue 6 MCPTT DNN usage and resource control using 5GS**

 *Type: pCR For: Approval
 23.783 v0.10.0
 Source: UIC, Nokia, Nokia Shanghai Bell, Kontron*

(Replaces S6-200985)

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

**S6-201066 Revised SID Study on Mission Critical services support over 5G System**

 *Type: SID revised For: Approval
 Source: The Police of the Netherlands*

**Discussion:**

During the informal call there was a discussion on whether it enough to just adjust the dates or whether there should be a change towards a phased approach.

Nokia was of the view that there would be a need move to a study with more concrete goals.

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

**S6-201070 Implementation of approved pCR S6-200938**

 *Type: pCR For: Approval
 23.783 v0.10.0
 Source: The Police of the Netherlands*

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

### 8.2 FS\_enhMCLoc – Study on location enhancements for mission critical services

**S6-201026 Missing removal of EN in clause 6.11.2 of TR23.744**

 *Type: CR For: Approval
 23.744 v17.0.0 CR-0001 Cat: D (Rel-17)

 Source: BDBOS*

**Abstract:**

Missing removal of Editors Note in clause 6.11.2 of TR23.744, issued in pCR S6-200911, which was approved in last SA6#37 meeting

**Decision:** The document was **revised to S6-201212**.

**S6-201212 Missing removal of EN in clause 6.11.2 of TR23.744**

 *Type: CR For: Approval
 23.744 v17.0.0 CR-0001 rev 1 Cat: D (Rel-17)

 Source: BDBOS*

(Replaces S6-201026)

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

### 8.3 FS\_eV2XAPP – Study on Enhancements to application layer support for V2X services

**S6-201081 Update of Solution #5 on V2XAPP functional model**

 *Type: pCR For: Approval
 23.764 v1.0.0
 Source: Motorola Mobility, Lenovo*

**Abstract:**

This contribution proposes the update of solution #5 and in particular the addition of N5 interface between VAE server and 5GS.

**Discussion:**

Lenovo presented the document during the informal conference call (D2).

Samsung remarked on lack of justification.

**Decision:** The document was **revised to S6-201213**.

**S6-201213 Update of Solution #5 on V2XAPP functional model**

 *Type: pCR For: Approval
 23.764 v1.0.0
 Source: Motorola Mobility, Lenovo*

(Replaces S6-201081)

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

**S6-201083 Solution on V2X application support for network slicing**

 *Type: pCR For: Approval
 23.764 v1.0.0
 Source: Motorola Mobility, Lenovo*

**Abstract:**

This paper provides a solution on Key issue 3 – V2X application support for network slicing.

**Discussion:**

Lenovo presented the document during the informal conference call (D2).

Motorola Solutions remarked that as a co-signer they supported the proposal but sugested to refer to only 5GS instead of both 5GS/PCF.

Discussion continued further during the D4 call to evaluate further suggestions to the original proposal.

Huawei suggested adding some editor's notes in order to move forward.

**Decision:** The document was **revised to S6-201215**.

**S6-201215 Solution on V2X application support for network slicing**

 *Type: pCR For: Approval
 23.764 v1.0.0
 Source: Motorola Mobility, Lenovo*

(Replaces S6-201083)

**Discussion:**

The document was reviewed and some additional changes were proposed to editor's notes.

The revised contribution, S6-201245, is considered pre-approved.

**Decision:** The document was **revised to S6-201245**.

**S6-201245 Solution on V2X application support for network slicing**

 *Type: pCR For: Approval
 23.764 v1.0.0
 Source: Motorola Mobility, Lenovo*

(Replaces S6-201215)

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

**S6-201034 Pseudo-CR on UE to UE Tele-operated Driving over PC5**

 *Type: pCR For: Approval
 23.764 v1.0.0
 Source: Qualcomm Incorporated*

**Abstract:**

A use case that enables one UE to send command and control messages to another UE for the purpose of tele-operated driving was recently added to key issue #4, "The remote driver may utilize a V2X application server or a V2X UE to communicate tele-operated command and control messages to one or more vehicles to drive autonomously and coordinate driving manoeuvres.". Solutions to meet this update to the key issue were specified for Uu connections for UEs engaged in a ToD session. Solutions need to specified for a PC5 connection for UEs engaged in a ToD session.

**Discussion:**

Qualcomm presented the document during the informal conference call (D2).

Samsung pointed out that som alignment with existing solutions was needed.

**Decision:** The document was **revised to S6-201242**.

**S6-201242 Pseudo-CR on UE to UE Tele-operated Driving over PC5**

 *Type: pCR For: Approval
 23.764 v1.0.0
 Source: Qualcomm Incorporated*

(Replaces S6-201034)

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

**S6-201035 PC5\_cPseudo-CR on V2X Application Usage of PC5 Cast Typeast\_type**

 *Type: pCR For: Approval
 23.764 v1.0.0
 Source: Qualcomm Incorporated*

**Abstract:**

SA2 has specified mechanisms to enable applications to communicate over PC5 using unicast, groupcast and broadcast communication methods. The specified reuse of those mechanisms will enable the selection of the best mechanism for PC5 communications by the VAE layer. Key issue #8 captures the need to support all of the these communication methods. Solutions need to be specified to enable reuse of all PC5-based communication methods specified by SA2.

**Discussion:**

Qualcomm presented the document during the informal conference call (D2).

Samsung noted they had provided various comments over email.

**Decision:** The document was **revised to S6-201243**.

**S6-201243 PC5\_cPseudo-CR on V2X Application Usage of PC5 Cast Typeast\_type**

 *Type: pCR For: Approval
 23.764 v1.0.0
 Source: Qualcomm Incorporated*

(Replaces S6-201035)

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

**S6-201159 Solution to KI#10**

 *Type: pCR For: Approval
 23.764 v0.6.0
 Source: Huawei, Hisilicon*

**Abstract:**

Proposal for Solution to KI#10

**Discussion:**

Huawei presented the document during the informal conference call (D2).

**Decision:** The document was **revised to S6-201228**.

**S6-201228 Solution to KI#10**

 *Type: pCR For: Approval
 23.764 v0.6.0
 Source: Huawei, Hisilicon*

(Replaces S6-201159)

**Discussion:**

During the ph1 closing call it was noted that Qualcomm still objected the current version, but they noted these probably can be solved during the coming meeting.

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

**S6-201131 Pseudo-CR on solution for the support of local MBMS**

 *Type: pCR For: Approval
 23.764 v1.0.0
 Source: CATT*

**Abstract:**

This contribution proposes solutions for the key issue #14 – support for Local MBMS.

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

**S6-201161 Pseudo-CR on updates to session-oriented service establishment procedure**

 *Type: pCR For: Approval
 23.764 v1.0.0
 Source: Samsung*

**Abstract:**

The contribution proposes alignment of procedures for V2X application server triggered and VAE client triggered session-oriented service.

**Discussion:**

Samsung presented the document during the informal conference call (D2).

Ericsson did not think the proposed solution for the alignment was a working solution.

During the follow-up discussion during D4 Huawei suggested some changes to the notification terminology, to the new proposals that had been made.

**Decision:** The document was **revised to S6-201238**.

**S6-201238 Pseudo-CR on updates to session-oriented service establishment procedure**

 *Type: pCR For: Approval
 23.764 v1.0.0
 Source: Samsung*

(Replaces S6-201161)

**Discussion:**

The revised contribution, S6-201246, is considered pre-approved.

**Decision:** The document was **revised to S6-201246**.

**S6-201246 Pseudo-CR on updates to session-oriented service establishment procedure**

 *Type: pCR For: Approval
 23.764 v1.0.0
 Source: Samsung*

(Replaces S6-201238)

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

**S6-201157 New key issue on supporting dynamic information for HD maps**

 *Type: pCR For: Approval
 23.764 v0.6.0
 Source: Huawei, Hisilicon*

**Abstract:**

Proposal for New key issue on supporting dynamic information for HD maps

**Discussion:**

Huawei presented the document during the informal conference call (D2).

**Decision:** The document was **revised to S6-201227**.

**S6-201227 New key issue on supporting dynamic information for HD maps**

 *Type: pCR For: Approval
 23.764 v0.6.0
 Source: Huawei, Hisilicon*

(Replaces S6-201157)

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

**S6-201164 Pseudo-CR on new key issues for V2X group management and group communication**

 *Type: pCR For: Approval
 23.764 v1.0.0
 Source: Samsung*

**Abstract:**

This pCR is introduce a new KI to FS\_eV2XAPP.

**Discussion:**

Samsung presented the document during the informal conference call (D2).

Qualcomm made a remark that it was not clear from the proposal where various capability lies i.e. in the platooning application or the VAE layer or the VAX layer.

CATT remarked that the group leader seemed to be a completely new concept that would require further clarification and definition.

Samsung noted that the present specification was not the right palce for a definition but some explanation could be added on the cover page.

Motorola Solutions was of the view that some explanation would be required in the actual text as otherwise it would get lost when the pCR is implemented.

**Decision:** The document was **revised to S6-201237**.

**S6-201237 Pseudo-CR on new key issues for V2X group management and group communication**

 *Type: pCR For: Approval
 23.764 v1.0.0
 Source: Samsung*

(Replaces S6-201164)

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

**S6-201165 Pseudo-CR on solution to key issues for V2X group management and group communication**

 *Type: pCR For: Approval
 23.764 v1.0.0
 Source: Samsung*

**Abstract:**

Samsung presented the document during the informal conference call (D2). Solution for on-network and off-network group leader change procedure has been proposed. Solution for VAE server to determine new potential group leader and change the group leader has been proposed.

**Discussion:**

Samsung presented the document during the informal conference call (D2).

**Decision:** The document was **revised to S6-201236**.

**S6-201236 Pseudo-CR on solution to key issues for V2X group management and group communication**

 *Type: pCR For: Approval
 23.764 v1.0.0
 Source: Samsung*

(Replaces S6-201165)

**Discussion:**

S6-201249 was pre-aproved (ph1 closing call).

**Decision:** The document was **revised to S6-201249**.

**S6-201249 Pseudo-CR on solution to key issues for V2X group management and group communication**

 *Type: pCR For: Approval
 23.764 v1.0.0
 Source: Samsung*

(Replaces S6-201236)

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

**S6-201158 Update to evaluations**

 *Type: pCR For: Approval
 23.764 v0.6.0
 Source: Huawei, Hisilicon*

**Abstract:**

Proposal for Update to evaluations

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

**S6-201162 Pseudo-CR on updates to session-oriented service change procedure**

 *Type: pCR For: Approval
 23.764 v1.0.0
 Source: Samsung*

**Decision:** The document was **revised to S6-201239**.

**S6-201239 Pseudo-CR on updates to session-oriented service change procedure**

 *Type: pCR For: Approval
 23.764 v1.0.0
 Source: Samsung*

(Replaces S6-201162)

**Discussion:**

The revised contribution, S6-201247, is considered pre-approved.

**Decision:** The document was **revised to S6-201247**.

**S6-201247 Pseudo-CR on updates to session-oriented service change procedure**

 *Type: pCR For: Approval
 23.764 v1.0.0
 Source: Samsung*

(Replaces S6-201239)

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

**S6-201163 Pseudo-CR on updates to session-oriented service terminate procedure**

 *Type: pCR For: Approval
 23.764 v1.0.0
 Source: Samsung*

**Decision:** The document was **revised to S6-201240**.

**S6-201240 Pseudo-CR on updates to session-oriented service terminate procedure**

 *Type: pCR For: Approval
 23.764 v1.0.0
 Source: Samsung*

(Replaces S6-201163)

**Discussion:**

The revised contribution, S6-201248, is considered pre-approved.

**Decision:** The document was **revised to S6-201248**.

**S6-201248 Pseudo-CR on updates to session-oriented service terminate procedure**

 *Type: pCR For: Approval
 23.764 v1.0.0
 Source: Samsung*

(Replaces S6-201240)

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

### 8.4 FS\_FFAPP – Study on application layer support for Factories of the Future in 5G network

**S6-201171 pCR FFAPP FAE server clarification**

 *Type: pCR For: Approval
 23.745 v0.8.0
 Source: Samsung*

**Abstract:**

This pCR clarifies the role of FAE server when interacting with 3GPP system using different reference points.

**Discussion:**

Samsung presented the document during the informal conference call (D3).

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

**S6-201149 New key issue on device monitoring**

 *Type: pCR For: Approval
 23.745 v0.8.0
 Source: Huawei, Hisilicon*

**Abstract:**

Proposal for New key issue on device monitoring

**Discussion:**

Huawei presented the document during the informal conference call (D3).

**Decision:** The document was **revised to S6-201221**.

**S6-201221 New key issue on device monitoring**

 *Type: pCR For: Approval
 23.745 v0.8.0
 Source: Huawei, Hisilicon*

(Replaces S6-201149)

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

**S6-201097 Pseudo-CR on key issue on constrained devices**

 *Type: pCR For: Approval
 23.745 v0.8.0
 Source: Ericsson*

**Abstract:**

Therefore there is a need to study whether and how to use protocol(s) designed for constrained devices to support the Factories of the Future applications. The present contribution proposes a key issue covering this topic.

**Discussion:**

Ericsson presented the document during the informal conference call (D3).

**Decision:** The document was **revised to S6-201235**.

**S6-201235 Pseudo-CR on key issue on constrained devices**

 *Type: pCR For: Approval
 23.745 v0.8.0
 Source: Ericsson*

(Replaces S6-201097)

**Discussion:**

Ericsson indicated during ph1 closing call that they believed all concerns of Deutcsche Telekom had been addressed.

Deutsche Telekom noted they still had concerns with regard to lack of normative requirements and still did not support the contribution. They suggested sending an LS to SA1.

The chairman noted that the bar for key issues in a TR is normally set rather low and asked for further views.

Lenovo also had some concern with the elaboration of the key issue.

Qualcomm indicated they were of two minds and thought SA6 might be stepping in the area of SA1 with this proposal and thought an LS to SA1 might be one solution.

TMUS also supported approaching SA1 prior to proceeding with the proposal in question.

Huawei was of the view that while SA6 should concentrate on application use cases, SA6 may need do some rethinking in order to be able to make progress in a broader sense.

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

**S6-201148 New key issue on support for device groups**

 *Type: pCR For: Approval
 23.745 v0.8.0
 Source: Huawei, Hisilicon*

**Abstract:**

Proposal for New key issue on support for device groups

**Discussion:**

Huawei presented the document during the informal conference call (D3). Further enhancement proposals were presented during D4 call.

**Decision:** The document was **revised to S6-201220**.

**S6-201220 New key issue on support for device groups**

 *Type: pCR For: Approval
 23.745 v0.8.0
 Source: Huawei, Hisilicon*

(Replaces S6-201148)

**Discussion:**

A brief presentation was made during the ph1 closing call with some additional changes.

The revised contribution, S6-201250, is considered pre-approved.

**Decision:** The document was **revised to S6-201250**.

**S6-201250 New key issue on support for device groups**

 *Type: pCR For: Approval
 23.745 v0.8.0
 Source: Huawei, Hisilicon*

(Replaces S6-201220)

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

**S6-201095 Pseudo-CR on Update to 5GLAN group management solution**

 *Type: pCR For: Approval
 23.745 v0.8.0
 Source: Ericsson*

**Abstract:**

This contribution proposes to expand the scope of KI#6 to investigate the use of SEAL Group Management for 5GLAN group management and proposes changes to Solution #9 describing needed SEAL GM enhancements.

**Discussion:**

Ericsson presented the document during the informal conference call (D3).

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

**S6-201147 Update to key issue on device onboarding**

 *Type: pCR For: Approval
 23.745 v0.8.0
 Source: Huawei, Hisilicon*

**Abstract:**

This contribution provides a proposal for update to key issue on device onboarding.

**Discussion:**

Huawei presented the document during the informal conference call (D3) further enhancements were discussed during D4.

**Decision:** The document was **revised to S6-201219**.

**S6-201219 Update to key issue on device onboarding**

 *Type: pCR For: Approval
 23.745 v0.8.0
 Source: Huawei, Hisilicon*

(Replaces S6-201147)

**Discussion:**

A brief presentation was made during the ph1 closing call with some additional changes.

Deutsche Telekom still had concerns with the proposal and suggested communication with SA1.

Qualcomm initially indicated support for the changes proposed in the contribution.

There were some discussion on how to proceed with initially only one objecting company/member, and whether the contribution could be approved.

After chairman checking for the support for this contribution it turned out that ZTE, Qualcomm and Deutsche Telekom were oppsoing the approval of the contribution.

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

**S6-201017 Pseudo-CR on oneM2M overview - AnnexA**

 *Type: pCR For: Approval
 23.745 v0.8.0
 Source: Deutsche Telekom AG*

**Abstract:**

Adding additional info about oneM2M to existing Annex A.

**Discussion:**

Deutsche Telekom presented the document during the informal conference call (D3).

**Decision:** The document was **revised to S6-201241**.

**S6-201241 Pseudo-CR on oneM2M overview - AnnexA**

 *Type: pCR For: Approval
 23.745 v0.8.0
 Source: Deutsche Telekom AG*

(Replaces S6-201017)

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

**S6-201096 Pseudo-CR on Solution - SEAL support for device onboarding and remote provisioning in an SNPN**

 *Type: pCR For: Approval
 23.745 v0.8.0
 Source: Ericsson*

**Abstract:**

This contribution proposes a solution for KI#7 – Device onboarding.

**Discussion:**

Ericsson presented the document during the informal conference call (D3).

**Decision:** The document was **revised to S6-201234**.

**S6-201234 Pseudo-CR on Solution - SEAL support for device onboarding and remote provisioning in an SNPN**

 *Type: pCR For: Approval
 23.745 v0.8.0
 Source: Ericsson*

(Replaces S6-201096)

**Discussion:**

A brief presentation was made during the ph1 closing call and it was noted that Deutsche Telekom had concerns with the proposal.

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

**S6-201044 Solution #x Device Onboarding**

 *Type: pCR For: Approval
 23.745 v0.8.0
 Source: ZTE Corporation*

**Abstract:**

This contribution proposes a new solution for device onboarding.

**Discussion:**

ZTE presented the document during the informal conference call (D3).

There was a.o. discussion on whether the present contribution could be merged with S6-201096.

**Decision:** The document was **revised to S6-201180**.

**S6-201180 Solution #x Device Onboarding**

 *Type: pCR For: Approval
 23.745 v0.8.0
 Source: ZTE Corporation*

(Replaces S6-201044)

**Discussion:**

Objection from Ericsson was confirmed during the ph1 closing call.

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

**S6-201046 Solution #x Integration with Operation Technologies**

 *Type: pCR For: Approval
 23.745 v0.8.0
 Source: ZTE Corporation*

**Decision:** The document was **revised to S6-201182**.

**S6-201160 FS\_FFApp QoS management solution**

 *Type: pCR For: Approval
 23.745 v0.8.0
 Source: Convida Wireless LLC*

**Abstract:**

QoS management solution

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

**S6-201182 Solution #x Integration with Operation Technologies**

 *Type: pCR For: Approval
 23.745 v0.8.0
 Source: ZTE Corporation*

(Replaces S6-201046)

**Discussion:**

A brief presentation was made during the ph1 closing call with some additional changes (editor).

It was noted that the correct draft file was named "S6-20xxxx-was 201182-revision of 201046-23745-FS\_FFAPP-Annex x Integration with Operation Technologies.doc"

The revised contribution, S6-201256, is considered pre-approved.

**Decision:** The document was **revised to S6-201256**.

**S6-201256 Solution #x Integration with Operation Technologies**

 *Type: pCR For: Approval
 23.745 v0.8.0
 Source: ZTE Corporation*

(Replaces S6-201182)

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

**S6-201047 Annex x Analysis of relationship between OPC UA and FF architecture**

 *Type: pCR For: Approval
 23.745 v0.8.0
 Source: ZTE Corporation*

**Decision:** The document was **revised to S6-201184**.

**S6-201184 Annex x Analysis of relationship between OPC UA and FF architecture**

 *Type: pCR For: Approval
 23.745 v0.8.0
 Source: ZTE Corporation*

(Replaces S6-201047)

**Discussion:**

A brief presentation was made during the ph1 closing call with some additional changes.

The revised contribution, S6-201255, is considered pre-approved.

**Decision:** The document was **revised to S6-201255**.

**S6-201255 Annex x Analysis of relationship between OPC UA and FF architecture**

 *Type: pCR For: Approval
 23.745 v0.8.0
 Source: ZTE Corporation*

(Replaces S6-201184)

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

**S6-201045 Modification on Solution #4 Device Onboarding support in FF**

 *Type: pCR For: Approval
 23.745 v0.8.0
 Source: ZTE Corporation*

**Decision:** The document was **revised to S6-201181**.

**S6-201181 Modification on Solution #4 Device Onboarding support in FF**

 *Type: pCR For: Approval
 23.745 v0.8.0
 Source: ZTE Corporation*

(Replaces S6-201045)

**Discussion:**

A brief presentation was made during the ph1 closing call with some additional changes.

Huawei indicated concerns with reason for change.

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

**S6-201048 Solution #x Private Slice**

 *Type: pCR For: Approval
 23.745 v0.8.0
 Source: ZTE Corporation*

**Decision:** The document was **revised to S6-201185**.

**S6-201185 Solution #x Private Slice**

 *Type: pCR For: Approval
 23.745 v0.8.0
 Source: ZTE Corporation*

(Replaces S6-201048)

**Discussion:**

A brief presentation was made during the ph1 closing call with some additional changes.

The revised contribution, S6-201252, is considered pre-approved.

**Decision:** The document was **revised to S6-201252**.

**S6-201252 Solution #x Private Slice**

 *Type: pCR For: Approval
 23.745 v0.8.0
 Source: ZTE Corporation*

(Replaces S6-201185)

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

**S6-201061 New solution for Key issue 3**

 *Type: pCR For: Approval
 23.745 v0.8.0
 Source: ZTE Corporation*

**Discussion:**

ZTE presented the document during the informal conference call (D4).

Ericsson noted they agreed with the further enhancements that had been made to the original contribution.

**Decision:** The document was **revised to S6-201210**.

**S6-201210 New solution for Key issue 3**

 *Type: pCR For: Approval
 23.745 v0.8.0
 Source: ZTE Corporation*

(Replaces S6-201061)

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

**S6-201062 New solution for Key issue 4**

 *Type: pCR For: Approval
 23.745 v0.8.0
 Source: ZTE Corporation*

**Discussion:**

ZTE presented the document during the informal conference call (D4) and further modifications based on received comments.

**Decision:** The document was **revised to S6-201211**.

**S6-201211 New solution for Key issue 4**

 *Type: pCR For: Approval
 23.745 v0.8.0
 Source: ZTE Corporation*

(Replaces S6-201062)

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

**S6-201082 Proposal for solution to key issue #4 on TSN support**

 *Type: pCR For: Approval
 23.745 v0.8.0
 Source: Motorola Mobility, Lenovo*

**Abstract:**

This contribution provides a solution for enabling the negotation via the FFAE layer (between the 5GS and the TSN system) of the TSN application QoS requirements, and their mapping to network policies / QoS parameters.

**Decision:** The document was **revised to S6-201214**.

**S6-201214 Proposal for solution to key issue #4 on TSN support**

 *Type: pCR For: Approval
 23.745 v0.8.0
 Source: Motorola Mobility, Lenovo*

(Replaces S6-201082)

**Discussion:**

A brief presentation was made during the ph1 closing call with some additional changes (editor's note).

The revised contribution, S6-201254, is considered pre-approved.

**Decision:** The document was **revised to S6-201254**.

**S6-201254 Proposal for solution to key issue #4 on TSN support**

 *Type: pCR For: Approval
 23.745 v0.8.0
 Source: Motorola Mobility, Lenovo*

(Replaces S6-201214)

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

**S6-201086 Solution on FFAE layer support for network slicing**

 *Type: pCR For: Approval
 23.745 v0.8.0
 Source: Motorola Mobility, Lenovo*

**Abstract:**

This paper provides a solution on Key issue 1 – Use of network slicing for FFAPP.

**Decision:** The document was **revised to S6-201216**.

**S6-201216 Solution on FFAE layer support for network slicing**

 *Type: pCR For: Approval
 23.745 v0.8.0
 Source: Motorola Mobility, Lenovo*

(Replaces S6-201086)

**Discussion:**

A brief presentation was made during the ph1 closing call with some additional changes (editor's note).

The revised contribution, S6-201251, is considered pre-approved.

**Decision:** The document was **revised to S6-201251**.

**S6-201251 Solution on FFAE layer support for network slicing**

 *Type: pCR For: Approval
 23.745 v0.8.0
 Source: Motorola Mobility, Lenovo*

(Replaces S6-201216)

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

**S6-201094 Pseudo-CR on Time Synchronization solution**

 *Type: pCR For: Approval
 23.745 v0.8.0
 Source: Ericsson*

**Discussion:**

Ericsson presented the document during the informal conference call (D4) with some further proposals based on comments received.

**Decision:** The document was **revised to S6-201233**.

**S6-201233 Pseudo-CR on Time Synchronization solution**

 *Type: pCR For: Approval
 23.745 v0.8.0
 Source: Ericsson*

(Replaces S6-201094)

**Discussion:**

A brief presentation was made during the ph1 closing call with some additional changes (editor's note).

The revised contribution, S6-201253, is considered pre-approved.

**Decision:** The document was **revised to S6-201253**.

**S6-201253 Pseudo-CR on Time Synchronization solution**

 *Type: pCR For: Approval
 23.745 v0.8.0
 Source: Ericsson*

(Replaces S6-201233)

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

**S6-201129 FS\_FFApp KI and Solution on QoS management**

 *Type: pCR For: Approval
 23.745 v0.8.0
 Source: Convida Wireless LLC*

**Abstract:**

New Key Issue

**Decision:** The document was **revised to S6-201229**.

**S6-201229 FS\_FFApp KI and Solution on QoS management**

 *Type: pCR For: Approval
 23.745 v0.8.0
 Source: Convida Wireless LLC*

(Replaces S6-201129)

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

### 8.5 FS\_UASAPP – Study on application layer support for Unmanned Aerial System (UAS)

**S6-201016 Pseudo-CR on Removing Editor’s Note in clause 1**

 *Type: pCR For: Approval
 23.755 v0.8.0
 Source: InterDigital*

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

**S6-201018 Pseudo-CR on removal of clause 4**

 *Type: pCR For: Approval
 23.755 v0.8.0
 Source: InterDigital*

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

**S6-201019 Pseudo-CR on removal of Editor's Note in clause 7.2**

 *Type: pCR For: Approval
 23.755 v0.8.0
 Source: InterDigital*

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

**S6-201020 Pseudo-CR on support of broadcast communications in Rel-17**

 *Type: pCR For: Approval
 23.755 v0.8.0
 Source: InterDigital*

**Discussion:**

S6-201327 was pre-approved.

**Decision:** The document was **revised to S6-201327**.

**S6-201327 Pseudo-CR on support of broadcast communications in Rel-17**

 *Type: pCR For: Approval
 23.755 v0.8.0
 Source: InterDigital*

(Replaces S6-201020)

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

**S6-201038 Pseudo-CR on Annex X: UAV Aeronautical data communication with USS/UTM**

 *Type: pCR For: Approval
 23.755 v0.8.0
 Source: Tencent*

**Abstract:**

In the context of the FS\_UASAPP study, SA6 received a reply LS from SA1 (S6-200620) stating that “Indicated parameters show by which means the UAV and UAV controller shall be identified and inform that list of identification data sent towards the UTM coul

**Decision:** The document was **revised to S6-201275**.

**S6-201275 Pseudo-CR on Annex X: UAV Aeronautical data communication with USS/UTM**

 *Type: pCR For: Approval
 23.755 v0.8.0
 Source: Tencent*

(Replaces S6-201038)

**Discussion:**

S6-201330 was pre-approved.

**Decision:** The document was **revised to S6-201330**.

**S6-201330 Pseudo-CR on Annex X: UAV Aeronautical data communication with USS/UTM**

 *Type: pCR For: Approval
 23.755 v0.8.0
 Source: Tencent*

(Replaces S6-201275)

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

**S6-201039 pCR on key issue about Data Communication betwen UAV and UTM**

 *Type: pCR For: Approval
 23.755 v0.8.0
 Source: Tencent*

**Abstract:**

It was recognized from the LS sent back from SA1 regarding LS S6-200620 that “Indicated parameters show by which means the UAV and UAV controller shall be identified and inform that list of identification data sent towards the UTM could be quite long”. It

**Decision:** The document was **revised to S6-201276**.

**S6-201276 pCR on key issue about Data Communication betwen UAV and UTM**

 *Type: pCR For: Approval
 23.755 v0.8.0
 Source: Tencent*

(Replaces S6-201039)

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

**S6-201040 Pseudo-CR on key issue x: UTM/USS service handoff**

 *Type: pCR For: Approval
 23.755 v0.8.0
 Source: Tencent*

**Abstract:**

A UAV may need to obtain flight authorization from a connected USS/UTM service while doing pre-flight before take-off. However, USS or UTM service might need to be handed off to different USS/UTM server while UAV is airborne following a specific fly path.

**Decision:** The document was **revised to S6-201277**.

**S6-201277 Pseudo-CR on key issue x: UTM/USS service handoff**

 *Type: pCR For: Approval
 23.755 v0.8.0
 Source: Tencent, Lenovo, Motorola Mobility*

(Replaces S6-201040)

**Discussion:**

Airbus made remark that they had strong concerns with the proposal due to lacking user requirements.

Deutsche Telekom also did not see a reason to study the topic in question, as an existing solution already existed or at least furtehr work would be required and hence objected to the contribution.

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

**S6-201041 Pseudo-CR on key issue x: UAV application server QoS provisioning.**

 *Type: pCR For: Approval
 23.755 v0.8.0
 Source: Tencent*

**Abstract:**

Stage 1 TS 22.125 specified two major QoS scheme where 3GPP network shall provide:

• “The 3GPP system shall support C2 communication with required QoS for pre-defined C2 communication models”

• UAV download/uplink performance for payload, location positio

**Decision:** The document was **revised to S6-201278**.

**S6-201278 Pseudo-CR on key issue x: UAV application server QoS provisioning.**

 *Type: pCR For: Approval
 23.755 v0.8.0
 Source: Tencent, Interdigital, Motorola Mobility, Lenovo*

(Replaces S6-201041)

**Discussion:**

S6-201328 was pre-approved.

**Decision:** The document was **revised to S6-201328**.

**S6-201328 Pseudo-CR on key issue x: UAV application server QoS provisioning.**

 *Type: pCR For: Approval
 23.755 v0.8.0
 Source: Tencent, Interdigital, Motorola Mobility, Lenovo*

(Replaces S6-201278)

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

**S6-201042 Pseudo-CR on key issue x: Application Server on problematic UAV reporting**

 *Type: pCR For: Approval
 23.755 v0.8.0
 Source: Tencent*

**Abstract:**

UAV application shall be able to detect, identify and report problematic UAV(s) back to UTM, per stage 1 requirement TS 22.125:

• “[R-5.1-017] The 3GPP system shall support detection, identification and reporting of problematic UAV(s) and the UAV control

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

**S6-201090 Proposal of Key Issue on assisting C2 mode switching**

 *Type: pCR For: Approval
 23.755 v0.8.0
 Source: Motorola Mobility, Lenovo*

**Abstract:**

This paper provides a contribution on introducing a new KI on assisting the C2 mode switching by the application enabler layer.

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

**S6-201132 Pseudo-CR on new key issue on selecting and switching C2 communication modes**

 *Type: pCR For: Approval
 23.755 v0.8.0
 Source: CATT*

**Abstract:**

This contribution addresses new key issue on selecting and switching the C2 communication modes.

**Decision:** The document was **revised to S6-201312**.

**S6-201312 Pseudo-CR on new key issue on selecting and switching C2 communication modes**

 *Type: pCR For: Approval
 23.755 v0.8.0
 Source: CATT, Motorola Mobility, Lenovo, Tencent*

(Replaces S6-201132)

**Discussion:**

InterDigital wished to appear as co-signer.

S6-201329 was pre-approved.

**Decision:** The document was **revised to S6-201329**.

**S6-201329 Pseudo-CR on new key issue on selecting and switching C2 communication modes**

 *Type: pCR For: Approval
 23.755 v0.8.0
 Source: CATT, Motorola Mobility, Lenovo, Tencent, InterDigital*

(Replaces S6-201312)

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

**S6-201155 Solution to support supplementing UAV location to the UTM/USS**

 *Type: pCR For: Approval
 23.755 v0.8.0
 Source: Huawei, Hisilicon*

**Abstract:**

This contribution provides a proposal for a solution to support supplementing UAV location to the UTM/USS.

**Decision:** The document was **revised to S6-201309**.

**S6-201309 Solution to support supplementing UAV location to the UTM/USS**

 *Type: pCR For: Approval
 23.755 v0.8.0
 Source: Huawei, Hisilicon*

(Replaces S6-201155)

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

**S6-201156 Update to the UAS application layer architecture**

 *Type: pCR For: Approval
 23.755 v0.8.0
 Source: Huawei, Hisilicon*

**Abstract:**

This contribution provides a proposal for update to the UAS application layer architecture.

**Decision:** The document was **revised to S6-201310**.

**S6-201310 Update to the UAS application layer architecture**

 *Type: pCR For: Approval
 23.755 v0.8.0
 Source: Huawei, Hisilicon*

(Replaces S6-201156)

**Discussion:**

S6-201326 was pre-approved

**Decision:** The document was **revised to S6-201326**.

**S6-201326 Update to the UAS application layer architecture**

 *Type: pCR For: Approval
 23.755 v0.8.0
 Source: Huawei, Hisilicon*

(Replaces S6-201310)

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

### 8.6 FS\_5GMARCH – Study on support of the 5GMSG Service

**S6-200994 Pseudo-CR on FS 5GMARCH Correction for broadcast scenarios**

 *Type: pCR For: Approval
 23.700-24 v0.6.2
 Source: one2many B.V.*

**Abstract:**

SA1 has clarified in its LS in S6-200969 that "broadcast to all UEs in the service area" means all UEs that support receiving the broadcast message and not all UEs regardless if they support the broadcast message. This implies that distributing the broadcast message via SMS or any non-3GPP transport is removed from the broadcast message scenarios.

This pCR implements the information received from SA1 in S6-200969 and applies corrections based on SA6 agreements after the scenarios were written, such as those listed in section 4.1.

**Decision:** The document was **revised to S6-201269**.

**S6-201269 Pseudo-CR on FS 5GMARCH Correction for broadcast scenarios**

 *Type: pCR For: Approval
 23.700-24 v0.6.2
 Source: one2many B.V.*

(Replaces S6-200994)

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

**S6-200995 Pseudo-CR on FS 5GMARCH Key Issue on Charging**

 *Type: pCR For: Approval
 23.700-24 v0.6.2
 Source: one2many B.V.*

**Abstract:**

The proposed Key Issue addresses requirements on charging as listed in clause 6 of TS 22.262.

**Decision:** The document was **revised to S6-201271**.

**S6-201271 Pseudo-CR on FS 5GMARCH Key Issue on Charging**

 *Type: pCR For: Approval
 23.700-24 v0.6.2
 Source: one2many B.V.*

(Replaces S6-200995)

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

**S6-200996 Pseudo-CR on FS 5GMARCH Key Issue on message delivery from MSGin5G Server**

 *Type: pCR For: Approval
 23.700-24 v0.6.2
 Source: one2many B.V.*

**Abstract:**

The proposed key issue addresses message delivery from the MSGin5G Server to an end-point or to multiple end-points.

**Decision:** The document was **revised to S6-201270**.

**S6-201270 Pseudo-CR on FS 5GMARCH Key Issue on message delivery from MSGin5G Server**

 *Type: pCR For: Approval
 23.700-24 v0.6.2
 Source: one2many B.V.*

(Replaces S6-200996)

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

**S6-200997 Pseudo-CR on FS 5GMARCH Solution for broadcast**

 *Type: pCR For: Approval
 23.700-24 v0.6.2
 Source: one2many B.V.*

**Abstract:**

This solution addresses how the MSGin5G Server can send a broadcast message to a pre-configured service area.

**Decision:** The document was **revised to S6-201272**.

**S6-201272 Pseudo-CR on FS 5GMARCH Solution for broadcast**

 *Type: pCR For: Approval
 23.700-24 v0.6.2
 Source: one2many B.V.*

(Replaces S6-200997)

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

**S6-201004 Pseudo-CR on FS 5GMARCH Key Issue #6 now bi-directional**

 *Type: pCR For: Approval
 23.700-24 v0.6.2
 Source: one2many B.V.*

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

**S6-201005 Alignment on item names**

 *Type: pCR For: Approval
 23.700-24 v0.6.2
 Source: Huawei*

**Abstract:**

Alignment on terminology as:

 "5GMSGS service" and "MSGin5G service" are both used.

 "5GMSGS server" and "MSGin5G server" are both used.

 "5GMSGS client" and "MSGin5G client" are both used.

 "5GMSGS UE" and "MSGin5G UE" are both used.

 "MSGin5G Gateway" is used in Figure 4.2.2-1 and Figure 4.2.3-1, but "MSGin5G Gateway Client" is used in clause 7.2.4 and Figure 7.1-1.

**Decision:** The document was **revised to S6-201273**.

**S6-201273 Alignment on item names**

 *Type: pCR For: Approval
 23.700-24 v0.6.2
 Source: Huawei*

(Replaces S6-201005)

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

**S6-201006 non-3GPP message definition**

 *Type: pCR For: Approval
 23.700-24 v0.6.2
 Source: Huawei*

**Abstract:**

The contribution proposes a definition for "non-3GPP message", in order to resolve the related editor’s note.

**Decision:** The document was **revised to S6-201274**.

**S6-201274 non-3GPP message definition**

 *Type: pCR For: Approval
 23.700-24 v0.6.2
 Source: Huawei*

(Replaces S6-201006)

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

**S6-201064 Pseudo-CR on FS 5GMARCH Key Issue Interconnection**

 *Type: pCR For: Approval
 23.700-24 v0.6.2
 Source: China Mobile Com. Corporation*

**Decision:** The document was **revised to S6-201288**.

**S6-201288 Pseudo-CR on FS 5GMARCH Key Issue Interconnection**

 *Type: pCR For: Approval
 23.700-24 v0.6.2
 Source: China Mobile Com. Corporation*

(Replaces S6-201064)

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

**S6-201065 Pseudo-CR on FS 5GMARCH Key Issue Roaming**

 *Type: pCR For: Approval
 23.700-24 v0.6.2
 Source: China Mobile Com. Corporation*

**Abstract:**

This doc proposes the key issue that MSGin5G Service shall fulfill the requirements of roaming in all Message scenarios.

**Decision:** The document was **revised to S6-201291**.

**S6-201291 Pseudo-CR on FS 5GMARCH Key Issue Roaming**

 *Type: pCR For: Approval
 23.700-24 v0.6.2
 Source: China Mobile Com. Corporation*

(Replaces S6-201065)

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

**S6-201107 Clarification and corrections to Clause 7**

 *Type: pCR For: Approval
 23.700-24 v0.6.2
 Source: AT&T GNS Belgium SPRL*

**Abstract:**

Clarification and corrections to Clause 7

**Decision:** The document was **revised to S6-201279**.

**S6-201279 Clarification and corrections to Clause 7**

 *Type: pCR For: Approval
 23.700-24 v0.6.2
 Source: AT&T GNS Belgium SPRL*

(Replaces S6-201107)

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

**S6-201126 MSGin5G non-IMS Message Acknowledgements**

 *Type: pCR For: Approval
 23.700-24 v0.6.2
 Source: Convida Wireless LLC*

**Abstract:**

Solution for support of non-IMS messaging acknowledgements.

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

**S6-201127 MSGin5G non-IMS Store and Forward Solution**

 *Type: pCR For: Approval
 23.700-24 v0.6.2
 Source: Convida Wireless LLC*

**Abstract:**

Solution for support of store and forward for non-IMS messaging

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

**S6-201128 MSGin5G non-IMS Message Segmentation and Reassembly Solution**

 *Type: pCR For: Approval
 23.700-24 v0.6.2
 Source: Convida Wireless LLC, Samsung*

**Abstract:**

Solution for support of non-IMS message segmentation and reassembly

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

**S6-201166 pCR 5GMARCH Capability Architecture Requirements**

 *Type: pCR For: Approval
 23.700-24 v0.6.2
 Source: Samsung*

**Abstract:**

Current application architecture for MSGin5G Application Service in TR 23.700-24 is not very clear wrt supported UE types, communication type, communication payload size, communication frequency, communication targets, communication payload type etc leading to different interpretations. It is necesary to discuss and clarify these aspects explicitly in the TR.

**Decision:** The document was **revised to S6-201293**.

**S6-201293 pCR 5GMARCH Capability Architecture Requirements**

 *Type: pCR For: Approval
 23.700-24 v0.6.2
 Source: Samsung*

(Replaces S6-201166)

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

**S6-201167 pCR 5GMARCH KI resource optimization**

 *Type: pCR For: Approval
 23.700-24 v0.6.2
 Source: Samsung*

**Abstract:**

This proposal introduces key issue related to efficient resource usage of the control plane and user plane for IoT device communciation in MSGin5G Service.

**Decision:** The document was **revised to S6-201296**.

**S6-201296 pCR 5GMARCH KI resource optimization**

 *Type: pCR For: Approval
 23.700-24 v0.6.2
 Source: Samsung, China Mobile*

(Replaces S6-201167)

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

**S6-201168 pCR 5GMARCH Architecture Principles**

 *Type: pCR For: Approval
 23.700-24 v0.6.2
 Source: Samsung*

**Decision:** The document was **revised to S6-201297**.

**S6-201297 pCR 5GMARCH Architecture Principles**

 *Type: pCR For: Approval
 23.700-24 v0.6.2
 Source: Samsung*

(Replaces S6-201168)

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

**S6-201169 Pseudo-CR on FS 5GMARCH solution on group message delivery**

 *Type: pCR For: Approval
 23.700-24 v0.6.2
 Source: Samsung*

**Abstract:**

Current solution in clause "6.5 Solution 5: 5GMSGS Group messaging after Group is created" is very confusing as it is trying to address several communication models in a single solution. So the proposal is to restructure the solution for better readibility.

Furthemore, providing a solution resolving the editor’s note 2 in clause 6.5.1.1.

**Decision:** The document was **revised to S6-201301**.

**S6-201301 Pseudo-CR on FS 5GMARCH solution on group message delivery**

 *Type: pCR For: Approval
 23.700-24 v0.6.2
 Source: Samsung*

(Replaces S6-201169)

**Discussion:**

Editor's note formatting.

S6-201331 was pre-approved.

**Decision:** The document was **revised to S6-201331**.

**S6-201331 Pseudo-CR on FS 5GMARCH solution on group message delivery**

 *Type: pCR For: Approval
 23.700-24 v0.6.2
 Source: Samsung*

(Replaces S6-201301)

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

### 8.7 FS\_MCGWUE – Study of Gateway UE function for Mission Critical Communication

**S6-200998 Pseudo-CR on Relationship between Users/Clients and Gateway UE functions**

 *Type: pCR For: Approval
 23.700-79 v0.0.1
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Describes relationships between MC service users/clients and gateway UE functions.

**Discussion:**

Nokia presented the document during the informal conference call (D4) and the proposed changes received over email.

**Decision:** The document was **revised to S6-201195**.

**S6-201195 Pseudo-CR on Relationship between Users/Clients and Gateway UE functions**

 *Type: pCR For: Approval
 23.700-79 v0.0.1
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S6-200998)

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

**S6-200999 Key issue on Functional Architecture for a gateway UE function**

 *Type: pCR For: Approval
 23.700-79 v0.0.1
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Adding a key issue on Functional Architecture for a gateway UE function.

**Decision:** The document was **revised to S6-201196**.

**S6-201196 Key issue on Functional Architecture for a gateway UE function**

 *Type: pCR For: Approval
 23.700-79 v0.0.1
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S6-200999)

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

**S6-201000 Key issue on Authorisation for binding of non-3GPP devices to gateway UE functions**

 *Type: pCR For: Approval
 23.700-79 v0.0.1
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Adding a key issue on authorisation for binding of non-3GPP devices to gateway UE functions.

**Decision:** The document was **revised to S6-201197**.

**S6-201197 Key issue on Authorisation for binding of non-3GPP devices to gateway UE functions**

 *Type: pCR For: Approval
 23.700-79 v0.0.1
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S6-201000)

**Discussion:**

The revised contribution, S6-201257, is considered pre-approved.

**Decision:** The document was **revised to S6-201257**.

**S6-201257 Key issue on Authorisation for binding of non-3GPP devices to gateway UE functions**

 *Type: pCR For: Approval
 23.700-79 v0.0.1
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S6-201197)

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

**S6-201001 Key issue on Identification of MC service users behind a gateway UE function**

 *Type: pCR For: Approval
 23.700-79 v0.0.1
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Adding a key issue to address the problem of identifying MC service users behind a gateway UE function.

**Discussion:**

Nokia presented the document during the informal conference call (D4).

It was suggestd to delete key issue 6.

**Decision:** The document was **revised to S6-201198**.

**S6-201198 Key issue on Identification of MC service users behind a gateway UE function**

 *Type: pCR For: Approval
 23.700-79 v0.0.1
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S6-201001)

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

**S6-201002 Key issue on MBMS support**

 *Type: pCR For: Approval
 23.700-79 v0.0.1
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Adding a key issue on MBMS support provided by the gateway UE function.

**Decision:** The document was **revised to S6-201199**.

**S6-201199 Key issue on MBMS support**

 *Type: pCR For: Approval
 23.700-79 v0.0.1
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S6-201002)

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

**S6-201003 Key issue on User traffic handling**

 *Type: pCR For: Approval
 23.700-79 v0.0.1
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Adding a key issue on user traffic handling.

**Decision:** The document was **revised to S6-201200**.

**S6-201200 Key issue on User traffic handling**

 *Type: pCR For: Approval
 23.700-79 v0.0.1
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S6-201003)

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

## 9 Future work / New WIDs (including related contributions)

**S6-200992 Phased approach proposal for the study of Mission Critical services over 5GS (TR 23.783)**

 *Type: discussion For: Discussion
 23.783 v..
 Source: Union Inter. Chemins de Fer*

**Abstract:**

The MCover5GS study has now been conducted for over two years with progress that is rather below average, which is partly due to the dependency on topics such as 5GS side link and MBMS support as well as by the present pandemic situation. There exist dependencies to other 3GPP groups, basically on results of related studies in SA2 and RAN groups. This causes delay even for those key issues, i.e. APNs / DNNs and roaming necessary for unicast based Mission Critical services, that are not directly dependent on side link and MBMS support.

It is proposed to group the study into three phases to push normative work on a per phase basis, i.e. get started before finishing the entire study:

- Phase 1: Mission Critical services based on unicast only (no UE-to-network relay support)

- Phase 2: Full set of on-network Mission Critical services using unicast and multicast (no UE-to-network relay support)

- Phase 3: Full set of Mission Critical services.

For the mapping to specific key issues see the contribution S6-200992.

**Discussion:**

Nokia presented the document S6-200992 on behalf of UIC.

AT&T raised the question whether phase 1, 2 and 3 corresponded to Rel-17, -18 and -19.

Nokia replied they were not in position to respond, but noted that only phase 1 would be covered withing Rel-17.

Motorola Solutions noted that the slow progress is due to the fact that the 5GS is a full system and hence inter-dependent not just a feature.

Samsung noted that phasing the work could be a good approach and supported the proposal.

FirsNet noted they understood the view of Motorola Solutions but thought that maybe SA6 don't need to be so strict about "5G", while the surrounding world seem to be deploying 5G.

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

**S6-200993 Work Item MCOver5GS Phase1 normative**

 *Type: WID new For: Approval
 Source: Union Inter. Chemins de Fer*

**Discussion:**

UIC presented the document S6-200993 during the informal conference call.

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

## 10 Work Plan review

**S6-201063 New SID on support of the 5GMSG Service**

 *Type: SID new For: Approval
 Source: SA WG6*

(Replaces SP-190559)

**Abstract:**

Objective: The objective of this study item is to evaluate and identify application layer solutions where it is necessary to fulfil the requirements from stage 1. This study will produce a technical report that includes: - 1) Evaluation of existing messag

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

**S6-201111 Revised SID on support of the 5GMSG Service**

 *Type: SID revised For: Approval
 Source: China Mobile Com. Corporation*

**Abstract:**

Revised SID on support of the 5GMSG Service

**Decision:** The document was **revised to S6-201286**.

**S6-201286 Revised SID on support of the 5GMSG Service**

 *Type: SID revised For: Agreement
 Source: China Mobile Com. Corporation*

(Replaces S6-201111)

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

**S6-201314 SA6#38 Work Plan discussion**

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

**Decision:** The document was **revised to S6-201332**.

**S6-201332 SA6#38 Work Plan discussion**

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

(Replaces S6-201314)

**Abstract:**

Table 10.1: Current status of work items

|  |  |  |  |
| --- | --- | --- | --- |
| **Work Item** | **WI Code** | **SA#88** | **SA6#38** |
| Enhancements to Application Architecture for the Mobile Communication System for Railways Phase 2 | eMONASTERY2 | 85% | 95% |
| MC services support on IOPS mode of operation | MCIOPS | 75% | 90% |
| Enhancements for functional architecture and information flows for Mission Critical Data | eMCData3 | 45% | 60% |
| Architecture for enabling Edge Applications | EDGEAPP | 50% | 60% |
| Enhanced Mission Critical Push-to-talk architecture phase 3 | enh3MCPTT | 20% | 30% |

Table 10.2: Current status of study items

|  |  |  |  |
| --- | --- | --- | --- |
| **Work Item** | **WI Code** | **SA#88** | **SA6#38** |
| Study on Mission Critical Services support over 5G System | FS\_MCOver5GS  | 50% | 55% |
| Study into location enhancements for mission critical services | FS\_enhMCLoc | 90% | 90% |
| Study on application layer support for Factories of the Future in 5G network | FS\_FFAPP | 60% | 65% |
| Study on application layer support for Unmanned Aerial System (UAS) | FS\_UASAPP | 45% | 50% |
| Study on Enhancements to application layer support for V2X services | FS\_eV2XAPP | 75% | 85% |
| Study on support of the 5GMSG Service | FS\_5GMARCH | 50% | 60% |
| Study of Gateway UE function for Mission Critical Communication | FS\_MCGWUE | 0% | 10% |
| Study of Interconnection and Migration Aspects for Railways | FS\_IRail | 0% | 0% |

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

## 11 Future meetings

See Annex I.

## 12 AOB

## 13 Close of the meeting

Report prepared by: MCC

## Annex A: List of contribution documents

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Decision | Replaces | Replaced by |
| S6-200962 | SA6 Meeting 38-e Agenda | SA6 Chairman | noted |  |  |
| S6-200963 | SA6 Meeting 37-e Report | MCC | approved |  |  |
| S6-200964 | SA6 Meeting #38-e - Agenda with Tdocs allocation after submission deadline | SA6 Chairman | noted |  |  |
| S6-200965 | SA6 Meeting #38-e - Agenda with Tdocs allocation at start of the meeting | SA6 Chairman | approved |  |  |
| S6-200966 | SA6 Meeting #38-e - Chairman's notes at end of the meeting | SA6 Chairman | noted |  |  |
| S6-200967 | Reply LS on limiting the number of simultaneous log ins of an MCX user | SA1 | noted |  |  |
| S6-200968 | Reply to LS on Clarification of the definition of a UAS | SA1 | noted |  |  |
| S6-200969 | LS on requirement for 5GMSG in broadcast scenario | SA1 | noted |  |  |
| S6-200970 | Reply LS on Clarification of requirements for UAS application enablement | SA1 | noted |  |  |
| S6-200971 | Reply LS on Application Architecture for enabling Edge Applications | SA2 | noted |  |  |
| S6-200972 | Reply LS on provisioning ""EDN connection info"" by Edge Configuration Server | SA2 | noted |  |  |
| S6-200973 | Liaison from IETF Scope and goals of the Drone Remote ID Protocol Working Group (DRIP) of the Internet Engineering Task Force (IETF) | IETF DRIP | postponed |  |  |
| S6-200974 | LS on SA5 Rel-17 work on SLA | SA5 | noted |  |  |
| S6-200975 | LS on Key Management procedure in SEAL | CT3 | noted |  |  |
| S6-200976 | LS to 3GPP RAN5 on Requirement for Mission Critical Services (MCX) Testing and Certification 3GPP Release level | GCF-TCCA Joint Taskforce | noted |  |  |
| S6-200977 | LS on location reporting triggers | CT3 | replied to |  |  |
| S6-200978 | LS on limiting the number of simultaneous log ins of an MCX user | CT1 | noted |  |  |
| S6-200979 | 5G capabilities exposure for factories of the future | 5G-ACIA | noted |  |  |
| S6-200980 | Pseudo-CR on Specification of the Session with QoS API | Apple | revised |  | S6-201268 |
| S6-200981 | Key issue 3 use of 5GS DNN in the context for MCData message store | UIC, Nokia, Nokia Shanghai Bell, Kontron | revised |  | S6-201201 |
| S6-200982 | Key issue 6 - 5GS DNN usage and resource control | UIC, Nokia, Nokia Shanghai Bell, Kontron | revised |  | S6-201202 |
| S6-200983 | Key issue 6 - MCVideo DNN usage and resource control using 5GS | UIC, Nokia, Nokia Shanghai Bell, Kontron | revised |  | S6-201203 |
| S6-200984 | Key issue 6 - MCData DNN usage and resource control using 5GS | UIC, Nokia, Nokia Shanghai Bell, Kontron | revised |  | S6-201204 |
| S6-200985 | Key issue 6 MCPTT DNN usage and resource control using 5GS | UIC, Nokia, Nokia Shanghai Bell, Kontron | revised |  | S6-201205 |
| S6-200986 | Pseudo-CR on EAS Data Network Connectivity | Apple (UK) Limited | merged | S6-200460 | S6-201115 |
| S6-200987 | Overview of application context relocation - potential way forward | Apple (UK) Limited | noted |  |  |
| S6-200988 | Pseudo-CR on Overview of Application Context Relocation Procedure | Apple, Qualcomm | revised |  | S6-201285 |
| S6-200989 | Pseudo-CR on interaction between network layer and application layer in IOPS mode | ZTE Trunking Technology Corp. | postponed |  |  |
| S6-200990 | Pseudo-CR on interworking between MC system over 5GS and 4G EPC | ZTE Trunking Technology Corp. | postponed |  |  |
| S6-200991 | Pseudo-CR on service continuity of MC UE mobility between MC system over 5GS and 4G EPC | ZTE Trunking Technology Corp. | postponed |  |  |
| S6-200992 | Phased approach proposal for the study of Mission Critical services over 5GS (TR 23.783) | Union Inter. Chemins de Fer | noted |  |  |
| S6-200993 | Work Item MCOver5GS Phase1 normative | Union Inter. Chemins de Fer | postponed |  |  |
| S6-200994 | Pseudo-CR on FS 5GMARCH Correction for broadcast scenarios | one2many B.V. | revised |  | S6-201269 |
| S6-200995 | Pseudo-CR on FS 5GMARCH Key Issue on Charging | one2many B.V. | revised |  | S6-201271 |
| S6-200996 | Pseudo-CR on FS 5GMARCH Key Issue on message delivery from MSGin5G Server | one2many B.V. | revised |  | S6-201270 |
| S6-200997 | Pseudo-CR on FS 5GMARCH Solution for broadcast | one2many B.V. | revised |  | S6-201272 |
| S6-200998 | Pseudo-CR on Relationship between Users/Clients and Gateway UE functions | Nokia, Nokia Shanghai Bell | revised |  | S6-201195 |
| S6-200999 | Key issue on Functional Architecture for a gateway UE function | Nokia, Nokia Shanghai Bell | revised |  | S6-201196 |
| S6-201000 | Key issue on Authorisation for binding of non-3GPP devices to gateway UE functions | Nokia, Nokia Shanghai Bell | revised |  | S6-201197 |
| S6-201001 | Key issue on Identification of MC service users behind a gateway UE function | Nokia, Nokia Shanghai Bell | revised |  | S6-201198 |
| S6-201002 | Key issue on MBMS support | Nokia, Nokia Shanghai Bell | revised |  | S6-201199 |
| S6-201003 | Key issue on User traffic handling | Nokia, Nokia Shanghai Bell | revised |  | S6-201200 |
| S6-201004 | Pseudo-CR on FS 5GMARCH Key Issue #6 now bi-directional | one2many B.V. | noted |  |  |
| S6-201005 | Alignment on item names | Huawei | revised |  | S6-201273 |
| S6-201006 | non-3GPP message definition | Huawei | revised |  | S6-201274 |
| S6-201007 | Status of eMONASTERY2 | Nokia, Nokia Shanghai Bell | noted |  |  |
| S6-201008 | Correction of private call setup procedures when using a functional alias as target address | Nokia, Nokia Shanghai Bell | revised |  | S6-201190 |
| S6-201009 | Correction of private call setup procedures when using a functional alias as target address | Nokia, Nokia Shanghai Bell | revised |  | S6-201191 |
| S6-201010 | Update information flows to support interconnection for SDS | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S6-201011 | Update information flows to support interconnection for FD | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S6-201012 | Update information flows to support interconnection for the IP connectivity service | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S6-201013 | Add the IE of priority in information flows for transmission control | TD Tech Ltd | revised |  | S6-201244 |
| S6-201014 | MCPTT private call forwarding to a functional alias as a target | Kontron Transportation France | revised |  | S6-201208 |
| S6-201015 | MCPTT private call transfer to a functional alias as a target | Kontron Transportation France | revised |  | S6-201209 |
| S6-201016 | Pseudo-CR on Removing Editor’s Note in clause 1 | InterDigital | approved |  |  |
| S6-201017 | Pseudo-CR on oneM2M overview - AnnexA | Deutsche Telekom AG | revised |  | S6-201241 |
| S6-201018 | Pseudo-CR on removal of clause 4 | InterDigital | approved |  |  |
| S6-201019 | Pseudo-CR on removal of Editor's Note in clause 7.2 | InterDigital | approved |  |  |
| S6-201020 | Pseudo-CR on support of broadcast communications in Rel-17 | InterDigital | revised |  | S6-201327 |
| S6-201021 | Discussion on comparison between alternatives for triggering a UE mobility event | Intel Deutschland GmbH | noted |  |  |
| S6-201022 | Discussion on Involving the AC in Application Context Transfer | Intel Deutschland GmbH | noted |  |  |
| S6-201023 | pCR on EAS selection EN resolution | Intel Deutschland GmbH | merged |  | S6-201069 |
| S6-201024 | pCR on correction to ECS address | Intel Deutschland GmbH | approved |  |  |
| S6-201025 | pCR on Application Context Transfer involving the AC | Intel Deutschland GmbH | revised |  | S6-201313 |
| S6-201026 | Missing removal of EN in clause 6.11.2 of TR23.744 | BDBOS | revised |  | S6-201212 |
| S6-201027 | Pseudo-CR on Privacy Requirement | Sony | revised |  | S6-201281 |
| S6-201028 | Pseudo-CR on EDGE-3 Cardinality | Sony | approved |  |  |
| S6-201029 | Pseudo-CR on definition of EASID and Edge UE ID | Sony | revised |  | S6-201282 |
| S6-201030 | Pseudo-CR on UE Location | Sony | revised |  | S6-201283 |
| S6-201031 | Pseudo-CR on Application Client Profile | Sony | merged |  | S6-201116 |
| S6-201032 | Service provisioning | Sony | merged |  | S6-201115 |
| S6-201033 | Pseudo-CR on S6-200999, EN in Service continuity | Sony | revised |  | S6-201284 |
| S6-201034 | Pseudo-CR on UE to UE Tele-operated Driving over PC5 | Qualcomm Incorporated | revised |  | S6-201242 |
| S6-201035 | PC5\_cPseudo-CR on V2X Application Usage of PC5 Cast Typeast\_type | Qualcomm Incorporated | revised |  | S6-201243 |
| S6-201036 | Pseudo-CR on clarifying EAS description | InterDigital | approved |  |  |
| S6-201037 | Pseudo-CR on enhancing EAS Profile with Network Service Area | InterDigital | postponed |  |  |
| S6-201038 | Pseudo-CR on Annex X: UAV Aeronautical data communication with USS/UTM | Tencent | revised |  | S6-201275 |
| S6-201039 | pCR on key issue about Data Communication betwen UAV and UTM | Tencent | revised |  | S6-201276 |
| S6-201040 | Pseudo-CR on key issue x: UTM/USS service handoff | Tencent | revised |  | S6-201277 |
| S6-201041 | Pseudo-CR on key issue x: UAV application server QoS provisioning. | Tencent | revised |  | S6-201278 |
| S6-201042 | Pseudo-CR on key issue x: Application Server on problematic UAV reporting | Tencent | postponed |  |  |
| S6-201043 | Update of References | KRRI | not pursued |  |  |
| S6-201044 | Solution #x Device Onboarding | ZTE Corporation | revised |  | S6-201180 |
| S6-201045 | Modification on Solution #4 Device Onboarding support in FF | ZTE Corporation | revised |  | S6-201181 |
| S6-201046 | Solution #x Integration with Operation Technologies | ZTE Corporation | revised |  | S6-201182 |
| S6-201047 | Annex x Analysis of relationship between OPC UA and FF architecture | ZTE Corporation | revised |  | S6-201184 |
| S6-201048 | Solution #x Private Slice | ZTE Corporation | revised |  | S6-201185 |
| S6-201049 | EEC capability | Samsung | revised |  | S6-201260 |
| S6-201050 | Clarification on UP path management event API | Samsung | revised |  | S6-201261 |
| S6-201051 | EES DNAI information | Samsung | merged |  | S6-201143 |
| S6-201052 | UE CN Type and interaction with 3GPP network | Samsung | revised |  | S6-201263 |
| S6-201053 | EAS profile and AF request | Samsung | revised |  | S6-201264 |
| S6-201054 | Target EAS discovery with target DNAI | Samsung | revised |  | S6-201265 |
| S6-201055 | Application context relocation initiated by the EEC | Samsung | postponed |  |  |
| S6-201056 | Report on SA6 related topics at SA#88-e | SA6 Chairman | noted |  |  |
| S6-201057 | Limit the number of simultaneous logins on per user basis | Nokia, Nokia Shanghai Bell | revised |  | S6-201192 |
| S6-201058 | Limit the number of simultaneous logins on per user basis | Nokia, Nokia Shanghai Bell | revised |  | S6-201193 |
| S6-201059 | Limit the number of simultaneous logins on per user basis | Nokia, Nokia Shanghai Bell | revised |  | S6-201194 |
| S6-201060 | Dynamic Availability Procedures | ETRI, UANGEL | merged |  | S6-201117 |
| S6-201061 | New solution for Key issue 3 | ZTE Corporation | revised |  | S6-201210 |
| S6-201062 | New solution for Key issue 4 | ZTE Corporation | revised |  | S6-201211 |
| S6-201063 | New SID on support of the 5GMSG Service | SA WG6 | withdrawn | SP-190559 |  |
| S6-201064 | Pseudo-CR on FS 5GMARCH Key Issue Interconnection | China Mobile Com. Corporation | revised |  | S6-201288 |
| S6-201065 | Pseudo-CR on FS 5GMARCH Key Issue Roaming | China Mobile Com. Corporation | revised |  | S6-201291 |
| S6-201066 | Revised SID Study on Mission Critical services support over 5G System | The Police of the Netherlands | postponed |  |  |
| S6-201067 | Application context relocation initiated by EES | Samsung | postponed |  |  |
| S6-201068 | ECS discovery | Samsung | revised |  | S6-201267 |
| S6-201069 | EAS selection | Samsung | revised |  | S6-201266 |
| S6-201070 | Implementation of approved pCR S6-200938 | The Police of the Netherlands | noted |  |  |
| S6-201071 | Removal of Editors Note related to functional alias resolution by LMS | Samsung | revised |  | S6-201183 |
| S6-201072 | MBCP Resume by MCPTT Server | Samsung | revised |  | S6-201207 |
| S6-201073 | Removal of content reference IE from FD requests using media plane | Samsung | revised |  | S6-201177 |
| S6-201074 | Functional alias handling for 1-1 FD requests | Samsung | revised |  | S6-201186 |
| S6-201075 | Functional alias handling for one-one session SDS requests | Samsung | revised |  | S6-201187 |
| S6-201076 | Functional alias handling for one-one standalone SDS requests | Samsung | revised |  | S6-201188 |
| S6-201077 | Functional alias handling for IPCon | Samsung | revised |  | S6-201189 |
| S6-201078 | ECS Discovery | Qualcomm Technologies Int | merged |  | S6-201068 |
| S6-201079 | Pseudo-CR on UE to Edge application context transfer | Qualcomm Technologies Int | postponed |  |  |
| S6-201080 | pCR on EEC triggered application context relocation | Qualcomm Technologies Int | postponed |  |  |
| S6-201081 | Update of Solution #5 on V2XAPP functional model | Motorola Mobility, Lenovo | revised |  | S6-201213 |
| S6-201082 | Proposal for solution to key issue #4 on TSN support | Motorola Mobility, Lenovo | revised |  | S6-201214 |
| S6-201083 | Solution on V2X application support for network slicing | Motorola Mobility, Lenovo | revised |  | S6-201215 |
| S6-201084 | Pseudo-CR on Update to the sections scope and references | Ericsson | approved |  |  |
| S6-201085 | Pseudo-CR on Update to general description in functional model section | Ericsson | approved |  |  |
| S6-201086 | Solution on FFAE layer support for network slicing | Motorola Mobility, Lenovo | revised |  | S6-201216 |
| S6-201087 | Pseudo-CR on Update to reference point MC-IOPS-X1 definition | Ericsson | approved |  |  |
| S6-201088 | Pseudo-CR on IOPS configuration data – General and MC service UE configuration data | Ericsson | approved |  |  |
| S6-201089 | Providing stored files in MCData content server for FD over MBMS | Ericsson | revised |  | S6-201230 |
| S6-201090 | Proposal of Key Issue on assisting C2 mode switching | Motorola Mobility, Lenovo | merged |  | S6-201132 |
| S6-201091 | Enhancement of MBMS user service usage procedures | Ericsson | revised |  | S6-201231 |
| S6-201092 | Enhancement of Group standalone FD using MBMS | Ericsson | revised |  | S6-201232 |
| S6-201093 | [DRAFT] Reply LS on 5G capabilities exposure for factories of the future | Ericsson | revised |  | S6-201175 |
| S6-201094 | Pseudo-CR on Time Synchronization solution | Ericsson | revised |  | S6-201233 |
| S6-201095 | Pseudo-CR on Update to 5GLAN group management solution | Ericsson | approved |  |  |
| S6-201096 | Pseudo-CR on Solution - SEAL support for device onboarding and remote provisioning in an SNPN | Ericsson | revised |  | S6-201234 |
| S6-201097 | Pseudo-CR on key issue on constrained devices | Ericsson | revised |  | S6-201235 |
| S6-201098 | Interworking private call floor control | Motorola Solutions | revised |  | S6-201178 |
| S6-201099 | Interworking private call floor control | Motorola Solutions | revised |  | S6-201179 |
| S6-201100 | Pseudo-CR on EES exposure without CAPIF | Ericsson | merged |  | S6-201141 |
| S6-201101 | Pseudo-CR on EES registration time | Ericsson | approved |  |  |
| S6-201102 | Pseudo-CR on event report info in UE location subscription | Ericsson | approved |  |  |
| S6-201103 | Pseudo-CR on QoS capability exposure | Ericsson | merged |  | S6-200980 |
| S6-201104 | Pseudo-CR on EAS and EES registration clarification | Ericsson | approved |  |  |
| S6-201105 | Multiple location trigger configurations | Ericsson | noted |  |  |
| S6-201106 | Multiple trigger configurations | Ericsson | revised |  | S6-201206 |
| S6-201107 | Clarification and corrections to Clause 7 | AT&T GNS Belgium SPRL | revised |  | S6-201279 |
| S6-201108 | Pseudo-CR on IOPS configuration data – MC service user profile configuration data | Ericsson | approved |  |  |
| S6-201109 | Pseudo-CR on IOPS configuration data – Group configuration data | Ericsson | approved |  |  |
| S6-201110 | Pseudo-CR on IOPS configuration data – MC service configuration data | Ericsson | approved |  |  |
| S6-201111 | Revised SID on support of the 5GMSG Service | China Mobile Com. Corporation | revised |  | S6-201286 |
| S6-201112 | Pseudo-CR on update to Annex C | Nokia, Nokia Shanghai Bell | revised |  | S6-201287 |
| S6-201113 | Separation between EEC registration and EAS discovery procedure | Nokia, Nokia Shanghai Bell | noted |  |  |
| S6-201114 | Ambient Listening Call release "Listened to" User initiated | HOME OFFICE | postponed |  |  |
| S6-201115 | Pseudo-CR on Service provisioning | Samsung Electronics, Intel, AT&T, Convida, Qualcomm | revised |  | S6-201289 |
| S6-201116 | Pseudo-CR on EAS discovery | Samsung Electronics, Intel, AT&T, Convida, Qualcomm | revised |  | S6-201290 |
| S6-201117 | Pseudo-CR on EAS information subscription | Samsung Electronics, ETRI, UANGEL | revised |  | S6-201292 |
| S6-201118 | Pseudo-CR on EDN and EAS service area | Samsung Electronics | revised |  | S6-201294 |
| S6-201119 | Pseudo-CR on Deployment guidelines for seamless service continuity | Samsung Electronics | revised |  | S6-201295 |
| S6-201120 | Pseudo-CR on missing reference to TS 23.682 | Samsung Electronics | approved |  |  |
| S6-201121 | Pseudo-CR on UE location (Commonly used value) | Samsung Electronics | merged |  | S6-201030 |
| S6-201122 | Pseudo-CR on Implicit expiry of UE location subscriptions | Samsung Electronics | revised |  | S6-201298 |
| S6-201123 | Pseudo-CR on Reference to clause 8.9.3 for UE location | Samsung Electronics | revised |  | S6-201299 |
| S6-201124 | Pseudo-CR on API definition for UE Identifier API | Samsung Electronics | revised |  | S6-201302 |
| S6-201125 | Ambient Listening Call release "Listened to" User initiated | HOME OFFICE | postponed |  |  |
| S6-201126 | MSGin5G non-IMS Message Acknowledgements | Convida Wireless LLC | postponed |  |  |
| S6-201127 | MSGin5G non-IMS Store and Forward Solution | Convida Wireless LLC | postponed |  |  |
| S6-201128 | MSGin5G non-IMS Message Segmentation and Reassembly Solution | Convida Wireless LLC, Samsung | postponed |  |  |
| S6-201129 | FS\_FFApp KI and Solution on QoS management | Convida Wireless LLC | revised |  | S6-201229 |
| S6-201130 | Pseudo-CR on service provisioning update | CATT | revised |  | S6-201311 |
| S6-201131 | Pseudo-CR on solution for the support of local MBMS | CATT | approved |  |  |
| S6-201132 | Pseudo-CR on new key issue on selecting and switching C2 communication modes | CATT | revised |  | S6-201312 |
| S6-201133 | Correction for API routing information | Huawei, Hisilicon | revised | S6-200844 | S6-201217 |
| S6-201134 | Correction for API routing information | Huawei, Hisilicon | revised | S6-200845 | S6-201218 |
| S6-201135 | Update to service provisioning | Huawei, Hisilicon | postponed |  |  |
| S6-201136 | Subscribe-Notify Service provisioning procedures | Huawei, Hisilicon | postponed |  |  |
| S6-201137 | Update to EAS discovery procedure | Huawei, Hisilicon | postponed |  |  |
| S6-201138 | Requirements for Edge Service Continuity | Huawei, Hisilicon | revised |  | S6-201304 |
| S6-201139 | Edge service continuity procedure | Huawei, Hisilicon | postponed |  |  |
| S6-201140 | Clarification about EAS Instance ID | Huawei, Hisilicon | approved |  |  |
| S6-201141 | Clarification about Network Capability Exposure | Huawei, Hisilicon | revised |  | S6-201305 |
| S6-201142 | Retrieve Target Edge Enabler Server | Huawei, Hisilicon | revised |  | S6-201306 |
| S6-201143 | Update EES profile with service area information of EDN | Huawei, Hisilicon | revised |  | S6-201307 |
| S6-201144 | Clarifying the EAS information provided to ECS by EES | Huawei, Hisilicon | approved |  |  |
| S6-201145 | Considering UE location during EES provisioning | Huawei, Hisilicon | revised |  | S6-201308 |
| S6-201146 | EES provisioning when UE is roaming | Huawei, Hisilicon | postponed |  |  |
| S6-201147 | Update to key issue on device onboarding | Huawei, Hisilicon | revised |  | S6-201219 |
| S6-201148 | New key issue on support for device groups | Huawei, Hisilicon | revised |  | S6-201220 |
| S6-201149 | New key issue on device monitoring | Huawei, Hisilicon | revised |  | S6-201221 |
| S6-201150 | Reply LS on location reporting triggers | Huawei, Hisilicon | revised | S6-200855 | S6-201222 |
| S6-201151 | Clarification on user subscription, group policy and functional alias policy | Huawei, Hisilicon | revised | S6-200857 | S6-201223 |
| S6-201152 | Clarification on user subscription, group policy and functional alias policy | Huawei, Hisilicon | revised | S6-200858 | S6-201224 |
| S6-201153 | Call restrictions for normal private calls | Huawei, Hisilicon | revised |  | S6-201225 |
| S6-201154 | Clarifications on MBMS listening status uage | Huawei, Hisilicon | revised |  | S6-201226 |
| S6-201155 | Solution to support supplementing UAV location to the UTM/USS | Huawei, Hisilicon | revised |  | S6-201309 |
| S6-201156 | Update to the UAS application layer architecture | Huawei, Hisilicon | revised |  | S6-201310 |
| S6-201157 | New key issue on supporting dynamic information for HD maps | Huawei, Hisilicon | revised |  | S6-201227 |
| S6-201158 | Update to evaluations | Huawei, Hisilicon | approved |  |  |
| S6-201159 | Solution to KI#10 | Huawei, Hisilicon | revised |  | S6-201228 |
| S6-201160 | FS\_FFApp QoS management solution | Convida Wireless LLC | postponed |  |  |
| S6-201161 | Pseudo-CR on updates to session-oriented service establishment procedure | Samsung | revised |  | S6-201238 |
| S6-201162 | Pseudo-CR on updates to session-oriented service change procedure | Samsung | revised |  | S6-201239 |
| S6-201163 | Pseudo-CR on updates to session-oriented service terminate procedure | Samsung | revised |  | S6-201240 |
| S6-201164 | Pseudo-CR on new key issues for V2X group management and group communication | Samsung | revised |  | S6-201237 |
| S6-201165 | Pseudo-CR on solution to key issues for V2X group management and group communication | Samsung | revised |  | S6-201236 |
| S6-201166 | pCR 5GMARCH Capability Architecture Requirements | Samsung | revised |  | S6-201293 |
| S6-201167 | pCR 5GMARCH KI resource optimization | Samsung | revised |  | S6-201296 |
| S6-201168 | pCR 5GMARCH Architecture Principles | Samsung | revised |  | S6-201297 |
| S6-201169 | Pseudo-CR on FS 5GMARCH solution on group message delivery | Samsung | revised |  | S6-201301 |
| S6-201170 | Pseudo-CR on EDGEAPP restructuring capability exposure | Samsung | revised |  | S6-201303 |
| S6-201171 | pCR FFAPP FAE server clarification | Samsung | approved |  |  |
| S6-201172 | Pseudo-CR on rephrasing of pointer to SA3 | InterDigital | postponed |  |  |
| S6-201173 | Pseudo-CR on correction of NOTE in 8.5.2.2 | InterDigital | approved |  |  |
| S6-201174 | Outcomes from drafting session on service continuity | SA6 Vice-Chairman | revised |  | S6-201319 |
| S6-201175 | Draft Reply LS on 5G capabilities exposure for factories of the future | Ericsson | postponed | S6-201093 |  |
| S6-201176 | Removal of content reference IE from FD requests using media plane | Samsung | agreed | - | - |
| S6-201177 | Removal of content reference IE from FD requests using media plane | Samsung | agreed | S6-201073 | - |
| S6-201178 | Interworking private call floor control | Motorola Solutions | agreed | S6-201098 | - |
| S6-201179 | Interworking private call floor control | Motorola Solutions | agreed | S6-201099 | - |
| S6-201180 | Solution #x Device Onboarding | ZTE Corporation | postponed | S6-201044 | - |
| S6-201181 | Modification on Solution #4 Device Onboarding support in FF | ZTE Corporation | postponed | S6-201045 | - |
| S6-201182 | Solution #x Integration with Operation Technologies | ZTE Corporation | revised | S6-201046 | S6-201256 |
| S6-201183 | Removal of Editors Note related to functional alias resolution by LMS | Samsung | agreed | S6-201071 | - |
| S6-201184 | Annex x Analysis of relationship between OPC UA and FF architecture | ZTE Corporation | revised | S6-201047 | S6-201255 |
| S6-201185 | Solution #x Private Slice | ZTE Corporation | revised | S6-201048 | S6-201252 |
| S6-201186 | Functional alias handling for 1-1 FD requests | Samsung | agreed | S6-201074 | - |
| S6-201187 | Functional alias handling for one-one session SDS requests | Samsung | agreed | S6-201075 | - |
| S6-201188 | Functional alias handling for one-one standalone SDS requests | Samsung | agreed | S6-201076 | - |
| S6-201189 | Functional alias handling for IPCon | Samsung | agreed | S6-201077 | - |
| S6-201190 | Correction of private call setup procedures when using a functional alias as target address | Nokia, Nokia Shanghai Bell | agreed | S6-201008 | - |
| S6-201191 | Correction of private call setup procedures when using a functional alias as target address | Nokia, Nokia Shanghai Bell | agreed | S6-201009 | - |
| S6-201192 | Limit the number of simultaneous logins on per user basis | Nokia, Nokia Shanghai Bell, Korea Railroad Research Institute (KRRI) | agreed | S6-201057 | - |
| S6-201193 | Limit the number of simultaneous logins on per user basis | Nokia, Nokia Shanghai Bell, Korea Railroad Research Institute (KRRI) | agreed | S6-201058 | - |
| S6-201194 | Limit the number of simultaneous logins on per user basis | Nokia, Nokia Shanghai Bell, Korea Railroad Research Institute (KRRI) | agreed | S6-201059 | - |
| S6-201195 | Pseudo-CR on Relationship between Users/Clients and Gateway UE functions | Nokia, Nokia Shanghai Bell | approved | S6-200998 | - |
| S6-201196 | Key issue on Functional Architecture for a gateway UE function | Nokia, Nokia Shanghai Bell | approved | S6-200999 | - |
| S6-201197 | Key issue on Authorisation for binding of non-3GPP devices to gateway UE functions | Nokia, Nokia Shanghai Bell | revised | S6-201000 | S6-201257 |
| S6-201198 | Key issue on Identification of MC service users behind a gateway UE function | Nokia, Nokia Shanghai Bell | approved | S6-201001 | - |
| S6-201199 | Key issue on MBMS support | Nokia, Nokia Shanghai Bell | approved | S6-201002 | - |
| S6-201200 | Key issue on User traffic handling | Nokia, Nokia Shanghai Bell | approved | S6-201003 | - |
| S6-201201 | Key issue 3 use of 5GS DNN in the context for MCData message store | UIC, Nokia, Nokia Shanghai Bell, Kontron | approved | S6-200981 | - |
| S6-201202 | Key issue 6 - 5GS DNN usage and resource control | UIC, Nokia, Nokia Shanghai Bell, Kontron | approved | S6-200982 | - |
| S6-201203 | Key issue 6 - MCVideo DNN usage and resource control using 5GS | UIC, Nokia, Nokia Shanghai Bell, Kontron | approved | S6-200983 | - |
| S6-201204 | Key issue 6 - MCData DNN usage and resource control using 5GS | UIC, Nokia, Nokia Shanghai Bell, Kontron | approved | S6-200984 | - |
| S6-201205 | Key issue 6 MCPTT DNN usage and resource control using 5GS | UIC, Nokia, Nokia Shanghai Bell, Kontron | approved | S6-200985 | - |
| S6-201206 | Multiple trigger configurations | Ericsson | revised | S6-201106 | S6-201258 |
| S6-201207 | MBCP Resume by MCPTT Server | Samsung | postponed | S6-201072 | - |
| S6-201208 | MCPTT private call forwarding to a functional alias as a target | Kontron Transportation France | agreed | S6-201014 | - |
| S6-201209 | MCPTT private call transfer to a functional alias as a target | Kontron Transportation France | agreed | S6-201015 | - |
| S6-201210 | New solution for Key issue 3 | ZTE Corporation | approved | S6-201061 | - |
| S6-201211 | New solution for Key issue 4 | ZTE Corporation | postponed | S6-201062 | - |
| S6-201212 | Missing removal of EN in clause 6.11.2 of TR23.744 | BDBOS | agreed | S6-201026 | - |
| S6-201213 | Update of Solution #5 on V2XAPP functional model | Motorola Mobility, Lenovo | approved | S6-201081 | - |
| S6-201214 | Proposal for solution to key issue #4 on TSN support | Motorola Mobility, Lenovo | revised | S6-201082 | S6-201254 |
| S6-201215 | Solution on V2X application support for network slicing | Motorola Mobility, Lenovo | revised | S6-201083 | S6-201245 |
| S6-201216 | Solution on FFAE layer support for network slicing | Motorola Mobility, Lenovo | revised | S6-201086 | S6-201251 |
| S6-201217 | Correction for API routing information | Huawei, Hisilicon | agreed | S6-201133 | - |
| S6-201218 | Correction for API routing information | Huawei, Hisilicon | agreed | S6-201134 | - |
| S6-201219 | Update to key issue on device onboarding | Huawei, Hisilicon | postponed | S6-201147 | - |
| S6-201220 | New key issue on support for device groups | Huawei, Hisilicon | revised | S6-201148 | S6-201250 |
| S6-201221 | New key issue on device monitoring | Huawei, Hisilicon | approved | S6-201149 | - |
| S6-201222 | Reply LS on location reporting triggers | Huawei, Hisilicon | revised | S6-201150 | S6-201259 |
| S6-201223 | Clarification on user subscription, group policy and functional alias policy | Huawei, Hisilicon | postponed | S6-201151 | - |
| S6-201224 | Clarification on user subscription, group policy and functional alias policy | Huawei, Hisilicon | agreed | S6-201152 | - |
| S6-201225 | Call restrictions for normal private calls | Huawei, Hisilicon | agreed | S6-201153 | - |
| S6-201226 | Clarifications on MBMS listening status uage | Huawei, Hisilicon | agreed | S6-201154 | - |
| S6-201227 | New key issue on supporting dynamic information for HD maps | Huawei, Hisilicon | approved | S6-201157 | - |
| S6-201228 | Solution to KI#10 | Huawei, Hisilicon | postponed | S6-201159 | - |
| S6-201229 | FS\_FFApp KI and Solution on QoS management | Convida Wireless LLC | postponed | S6-201129 | - |
| S6-201230 | Providing stored files in MCData content server for FD over MBMS | Ericsson | agreed | S6-201089 | - |
| S6-201231 | Enhancement of MBMS user service usage procedures | Ericsson | agreed | S6-201091 | - |
| S6-201232 | Enhancement of Group standalone FD using MBMS | Ericsson | agreed | S6-201092 | - |
| S6-201233 | Pseudo-CR on Time Synchronization solution | Ericsson | revised | S6-201094 | S6-201253 |
| S6-201234 | Pseudo-CR on Solution - SEAL support for device onboarding and remote provisioning in an SNPN | Ericsson | postponed | S6-201096 | - |
| S6-201235 | Pseudo-CR on key issue on constrained devices | Ericsson | postponed | S6-201097 | - |
| S6-201236 | Pseudo-CR on solution to key issues for V2X group management and group communication | Samsung | revised | S6-201165 | S6-201249 |
| S6-201237 | Pseudo-CR on new key issues for V2X group management and group communication | Samsung | approved | S6-201164 | - |
| S6-201238 | Pseudo-CR on updates to session-oriented service establishment procedure | Samsung | revised | S6-201161 | S6-201246 |
| S6-201239 | Pseudo-CR on updates to session-oriented service change procedure | Samsung | revised | S6-201162 | S6-201247 |
| S6-201240 | Pseudo-CR on updates to session-oriented service terminate procedure | Samsung | revised | S6-201163 | S6-201248 |
| S6-201241 | Pseudo-CR on oneM2M overview - AnnexA | Deutsche Telekom AG | postponed | S6-201017 | - |
| S6-201242 | Pseudo-CR on UE to UE Tele-operated Driving over PC5 | Qualcomm Incorporated | approved | S6-201034 | - |
| S6-201243 | PC5\_cPseudo-CR on V2X Application Usage of PC5 Cast Typeast\_type | Qualcomm Incorporated | approved | S6-201035 | - |
| S6-201244 | Add the IE of priority in information flows for transmission control | TD Tech Ltd | agreed | S6-201013 | - |
| S6-201245 | Solution on V2X application support for network slicing | Motorola Mobility, Lenovo | approved | S6-201215 | - |
| S6-201246 | Pseudo-CR on updates to session-oriented service establishment procedure | Samsung | approved | S6-201238 | - |
| S6-201247 | Pseudo-CR on updates to session-oriented service change procedure | Samsung | approved | S6-201239 | - |
| S6-201248 | Pseudo-CR on updates to session-oriented service terminate procedure | Samsung | approved | S6-201240 | - |
| S6-201249 | Pseudo-CR on solution to key issues for V2X group management and group communication | Samsung | approved | S6-201236 | - |
| S6-201250 | New key issue on support for device groups | Huawei, Hisilicon | approved | S6-201220 | - |
| S6-201251 | Solution on FFAE layer support for network slicing | Motorola Mobility, Lenovo | approved | S6-201216 | - |
| S6-201252 | Solution #x Private Slice | ZTE Corporation | approved | S6-201185 | - |
| S6-201253 | Pseudo-CR on Time Synchronization solution | Ericsson | approved | S6-201233 | - |
| S6-201254 | Proposal for solution to key issue #4 on TSN support | Motorola Mobility, Lenovo | approved | S6-201214 | - |
| S6-201255 | Annex x Analysis of relationship between OPC UA and FF architecture | ZTE Corporation | approved | S6-201184 | - |
| S6-201256 | Solution #x Integration with Operation Technologies | ZTE Corporation | approved | S6-201182 | - |
| S6-201257 | Key issue on Authorisation for binding of non-3GPP devices to gateway UE functions | Nokia, Nokia Shanghai Bell | approved | S6-201197 | - |
| S6-201258 | Multiple trigger configurations | Ericsson, Huawei | agreed | S6-201206 | - |
| S6-201259 | Reply LS on location reporting triggers | Huawei, Hisilicon | approved | S6-201222 | - |
| S6-201260 | EEC capability | Samsung | revised | S6-201049 | S6-201322 |
| S6-201261 | Clarification on UP path management event API | Samsung, Ericsson | approved | S6-201050 | - |
| S6-201262 | EES DNAI information | Samsung | withdrawn | S6-201051 | - |
| S6-201263 | UE CN Type and interaction with 3GPP network | Samsung | postponed | S6-201052 | - |
| S6-201264 | EAS profile and AF request | Samsung | approved | S6-201053 | - |
| S6-201265 | Target EAS discovery with target DNAI | Samsung | revised | S6-201054 | S6-201323 |
| S6-201266 | EAS selection | Samsung, Intel | postponed | S6-201069 | - |
| S6-201267 | ECS discovery | Samsung, Qualcomm | approved | S6-201068 | - |
| S6-201268 | Pseudo-CR on Specification of the Session with QoS API | Apple, Ericsson | revised | S6-200980 | S6-201325 |
| S6-201269 | Pseudo-CR on FS 5GMARCH Correction for broadcast scenarios | one2many B.V. | approved | S6-200994 | - |
| S6-201270 | Pseudo-CR on FS 5GMARCH Key Issue on message delivery from MSGin5G Server | one2many B.V. | approved | S6-200996 | - |
| S6-201271 | Pseudo-CR on FS 5GMARCH Key Issue on Charging | one2many B.V. | approved | S6-200995 | - |
| S6-201272 | Pseudo-CR on FS 5GMARCH Solution for broadcast | one2many B.V. | approved | S6-200997 | - |
| S6-201273 | Alignment on item names | Huawei | approved | S6-201005 | - |
| S6-201274 | non-3GPP message definition | Huawei | approved | S6-201006 | - |
| S6-201275 | Pseudo-CR on Annex X: UAV Aeronautical data communication with USS/UTM | Tencent | revised | S6-201038 | S6-201330 |
| S6-201276 | pCR on key issue about Data Communication betwen UAV and UTM | Tencent | postponed | S6-201039 | - |
| S6-201277 | Pseudo-CR on key issue x: UTM/USS service handoff | Tencent, Lenovo, Motorola Mobility | postponed | S6-201040 | - |
| S6-201278 | Pseudo-CR on key issue x: UAV application server QoS provisioning. | Tencent, Interdigital, Motorola Mobility, Lenovo | revised | S6-201041 | S6-201328 |
| S6-201279 | Clarification and corrections to Clause 7 | AT&T GNS Belgium SPRL | approved | S6-201107 | - |
| S6-201280 | LS on 5GMSG segment size | SA6 | revised | - | S6-201300 |
| S6-201281 | Pseudo-CR on Privacy Requirement | Sony | approved | S6-201027 | - |
| S6-201282 | Pseudo-CR on definition of EASID and Edge UE ID | Sony | approved | S6-201029 | - |
| S6-201283 | Pseudo-CR on UE Location | Sony, Samsung, InterDigital | revised | S6-201030 | S6-201316 |
| S6-201284 | Pseudo-CR on S6-200999, EN in Service continuity | Sony | approved | S6-201033 | - |
| S6-201285 | Pseudo-CR on Overview of Application Context Relocation Procedure | Apple, Qualcomm | revised | S6-200988 | S6-201321 |
| S6-201286 | Revised SID on support of the 5GMSG Service | China Mobile Com. Corporation | agreed | S6-201111 | - |
| S6-201287 | Pseudo-CR on update to Annex C | Nokia, Nokia Shanghai Bell | approved | S6-201112 | - |
| S6-201288 | Pseudo-CR on FS 5GMARCH Key Issue Interconnection | China Mobile Com. Corporation | approved | S6-201064 | - |
| S6-201289 | Pseudo-CR on Service provisioning | Samsung Electronics, Intel, AT&T, Convida, Qualcomm, ETRI, UANGEL, Sony, Interdigital, Huawei | approved | S6-201115 | - |
| S6-201290 | Pseudo-CR on EAS discovery | Samsung Electronics, Intel, AT&T, Convida, Qualcomm, Sony, Huawei | revised | S6-201116 | S6-201318 |
| S6-201291 | Pseudo-CR on FS 5GMARCH Key Issue Roaming | China Mobile Com. Corporation | approved | S6-201065 | - |
| S6-201292 | Pseudo-CR on EAS information subscription | Samsung Electronics, ETRI, UANGEL | postponed | S6-201117 | - |
| S6-201293 | pCR 5GMARCH Capability Architecture Requirements | Samsung | approved | S6-201166 | - |
| S6-201294 | Pseudo-CR on EDN and EAS service area | Samsung Electronics, InterDigital | revised | S6-201118 | S6-201317 |
| S6-201295 | Pseudo-CR on Deployment guidelines for seamless service continuity | Samsung Electronics | postponed | S6-201119 | - |
| S6-201296 | pCR 5GMARCH KI resource optimization | Samsung, China Mobile | approved | S6-201167 | - |
| S6-201297 | pCR 5GMARCH Architecture Principles | Samsung | approved | S6-201168 | - |
| S6-201298 | Pseudo-CR on Implicit expiry of UE location subscriptions | Samsung Electronics | approved | S6-201122 | - |
| S6-201299 | Pseudo-CR on Reference to clause 8.9.3 for UE location | Samsung Electronics | approved | S6-201123 | - |
| S6-201300 | LS on 5GMSG segment size | SA6 | revised | S6-201280 | S6-201315 |
| S6-201301 | Pseudo-CR on FS 5GMARCH solution on group message delivery | Samsung | revised | S6-201169 | S6-201331 |
| S6-201302 | Pseudo-CR on API definition for UE Identifier API | Samsung Electronics | approved | S6-201124 | - |
| S6-201303 | Pseudo-CR on EDGEAPP restructuring capability exposure | Samsung | approved | S6-201170 | - |
| S6-201304 | Requirements for Edge Service Continuity | Huawei, Hisilicon | revised | S6-201138 | S6-201320 |
| S6-201305 | Clarification about Network Capability Exposure | Huawei, Hisilicon, Ericsson, Samsung | approved | S6-201141 | - |
| S6-201306 | Retrieve Target Edge Enabler Server | Huawei, Hisilicon | revised | S6-201142 | S6-201324 |
| S6-201307 | Update EES profile with service area information of EDN | Huawei, Hisilicon | postponed | S6-201143 | - |
| S6-201308 | Considering UE location during EES provisioning | Huawei, Hisilicon | approved | S6-201145 | - |
| S6-201309 | Solution to support supplementing UAV location to the UTM/USS | Huawei, Hisilicon | approved | S6-201155 | - |
| S6-201310 | Update to the UAS application layer architecture | Huawei, Hisilicon | revised | S6-201156 | S6-201326 |
| S6-201311 | Pseudo-CR on service provisioning update | CATT | approved | S6-201130 | - |
| S6-201312 | Pseudo-CR on new key issue on selecting and switching C2 communication modes | CATT, Motorola Mobility, Lenovo, Tencent | revised | S6-201132 | S6-201329 |
| S6-201313 | pCR on Application Context Transfer involving the AC | Intel Deutschland GmbH | postponed | S6-201025 | - |
| S6-201314 | SA6#38 Work Plan discussion | SA6 Chairman | revised | - | S6-201332 |
| S6-201315 | LS on 5GMSG segment size | SA6 | approved | S6-201300 | - |
| S6-201316 | Pseudo-CR on UE Location | Sony, Samsung, InterDigital | approved | S6-201283 | - |
| S6-201317 | Pseudo-CR on EDN and EAS service area | Samsung Electronics, InterDigital | approved | S6-201294 | - |
| S6-201318 | Pseudo-CR on EAS discovery | Samsung Electronics, Intel, AT&T, Convida, Qualcomm, Sony, Huawei, InterDigital | approved | S6-201290 | - |
| S6-201319 | Outcomes from drafting session on service continuity | SA6 Vice-Chairman | noted | S6-201174 | - |
| S6-201320 | Requirements for Edge Service Continuity | Huawei, Hisilicon | approved | S6-201304 | - |
| S6-201321 | Pseudo-CR on Overview of Application Context Relocation Procedure | Apple, Qualcomm | approved | S6-201285 | - |
| S6-201322 | EEC capability | Samsung | approved | S6-201260 | - |
| S6-201323 | Target EAS discovery with target DNAI | Samsung | approved | S6-201265 | - |
| S6-201324 | Retrieve Target Edge Enabler Server | Huawei, Hisilicon | approved | S6-201306 | - |
| S6-201325 | Pseudo-CR on Specification of the Session with QoS API | Apple, Ericsson, CATT | approved | S6-201268 | - |
| S6-201326 | Update to the UAS application layer architecture | Huawei, Hisilicon | approved | S6-201310 | - |
| S6-201327 | Pseudo-CR on support of broadcast communications in Rel-17 | InterDigital | approved | S6-201020 | - |
| S6-201328 | Pseudo-CR on key issue x: UAV application server QoS provisioning. | Tencent, Interdigital, Motorola Mobility, Lenovo | approved | S6-201278 | - |
| S6-201329 | Pseudo-CR on new key issue on selecting and switching C2 communication modes | CATT, Motorola Mobility, Lenovo, Tencent, InterDigital | approved | S6-201312 | - |
| S6-201330 | Pseudo-CR on Annex X: UAV Aeronautical data communication with USS/UTM | Tencent | approved | S6-201275 | - |
| S6-201331 | Pseudo-CR on FS 5GMARCH solution on group message delivery | Samsung | approved | S6-201301 | - |
| S6-201332 | SA6#38 Work Plan discussion | SA6 Chairman | noted | S6-201314 | - |

## Annex B: List of change requests

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Spec | CR | Rev | Rel | Cat | WI | Decision |
| S6-201133 | Correction for API routing information | Huawei, Hisilicon | 23.222 | 0076 | 2 | Rel-16 | F | eCAPIF | revised |
| S6-201217 | Correction for API routing information | Huawei, Hisilicon | 23.222 | 0076 | 3 | Rel-16 | F | eCAPIF | agreed |
| S6-201134 | Correction for API routing information | Huawei, Hisilicon | 23.222 | 0077 | 2 | Rel-17 | A | eCAPIF | revised |
| S6-201218 | Correction for API routing information | Huawei, Hisilicon | 23.222 | 0077 | 3 | Rel-17 | A | eCAPIF | agreed |
| S6-201151 | Clarification on user subscription, group policy and functional alias policy | Huawei, Hisilicon | 23.280 | 0258 | 2 | Rel-17 | B | enh3MCPTT | revised |
| S6-201223 | Clarification on user subscription, group policy and functional alias policy | Huawei, Hisilicon | 23.280 | 0258 | 3 | Rel-17 | B | enh3MCPTT | postponed |
| S6-201071 | Removal of Editors Note related to functional alias resolution by LMS | Samsung | 23.280 | 0261 | - | Rel-17 | D | enh3MCPTT | revised |
| S6-201183 | Removal of Editors Note related to functional alias resolution by LMS | Samsung | 23.280 | 0261 | 1 | Rel-17 | D | enh3MCPTT | agreed |
| S6-201009 | Correction of private call setup procedures when using a functional alias as target address | Nokia, Nokia Shanghai Bell | 23.281 | 0145 | - | Rel-17 | F | eMONASTERY2 | revised |
| S6-201191 | Correction of private call setup procedures when using a functional alias as target address | Nokia, Nokia Shanghai Bell | 23.281 | 0145 | 1 | Rel-17 | F | eMONASTERY2 | agreed |
| S6-201013 | Add the IE of priority in information flows for transmission control | TD Tech Ltd | 23.281 | 0146 | - | Rel-16 | F | eMCVideo | revised |
| S6-201244 | Add the IE of priority in information flows for transmission control | TD Tech Ltd | 23.281 | 0146 | 1 | Rel-17 | F | TEI17 | agreed |
| S6-201058 | Limit the number of simultaneous logins on per user basis | Nokia, Nokia Shanghai Bell | 23.281 | 0147 | - | Rel-17 | B | eMONASTERY2 | revised |
| S6-201193 | Limit the number of simultaneous logins on per user basis | Nokia, Nokia Shanghai Bell, Korea Railroad Research Institute (KRRI) | 23.281 | 0147 | 1 | Rel-17 | B | eMONASTERY2 | agreed |
| S6-201010 | Update information flows to support interconnection for SDS | Nokia, Nokia Shanghai Bell | 23.282 | 0223 | - | Rel-17 | B | eMONASTERY2 | not pursued |
| S6-201011 | Update information flows to support interconnection for FD | Nokia, Nokia Shanghai Bell | 23.282 | 0224 | - | Rel-17 | B | eMONASTERY2 | not pursued |
| S6-201012 | Update information flows to support interconnection for the IP connectivity service | Nokia, Nokia Shanghai Bell | 23.282 | 0225 | - | Rel-17 | B | eMONASTERY2 | not pursued |
| S6-201059 | Limit the number of simultaneous logins on per user basis | Nokia, Nokia Shanghai Bell | 23.282 | 0226 | - | Rel-17 | B | eMONASTERY2 | revised |
| S6-201194 | Limit the number of simultaneous logins on per user basis | Nokia, Nokia Shanghai Bell, Korea Railroad Research Institute (KRRI) | 23.282 | 0226 | 1 | Rel-17 | B | eMONASTERY2 | agreed |
| S6-201073 | Removal of content reference IE from FD requests using media plane | Samsung | 23.282 | 0227 | - | Rel-17 | F | eMCData3 | revised |
| S6-201177 | Removal of content reference IE from FD requests using media plane | Samsung | 23.282 | 0227 | 1 | Rel-17 | A | eMCData3 | agreed |
| S6-201074 | Functional alias handling for 1-1 FD requests | Samsung | 23.282 | 0228 | - | Rel-17 | F | eMCData3 | revised |
| S6-201186 | Functional alias handling for 1-1 FD requests | Samsung | 23.282 | 0228 | 1 | Rel-17 | F | eMCData3 | agreed |
| S6-201075 | Functional alias handling for one-one session SDS requests | Samsung | 23.282 | 0229 | - | Rel-17 | F | eMCData3 | revised |
| S6-201187 | Functional alias handling for one-one session SDS requests | Samsung | 23.282 | 0229 | 1 | Rel-17 | F | eMCData3 | agreed |
| S6-201076 | Functional alias handling for one-one standalone SDS requests | Samsung | 23.282 | 0230 | - | Rel-17 | F | eMCData3 | revised |
| S6-201188 | Functional alias handling for one-one standalone SDS requests | Samsung | 23.282 | 0230 | 1 | Rel-17 | F | eMCData3 | agreed |
| S6-201077 | Functional alias handling for IPCon | Samsung | 23.282 | 0231 | - | Rel-17 | F | eMCData3 | revised |
| S6-201189 | Functional alias handling for IPCon | Samsung | 23.282 | 0231 | 1 | Rel-17 | F | eMCData3 | agreed |
| S6-201089 | Providing stored files in MCData content server for FD over MBMS | Ericsson | 23.282 | 0232 | - | Rel-17 | B | eMCData3 | revised |
| S6-201230 | Providing stored files in MCData content server for FD over MBMS | Ericsson | 23.282 | 0232 | 1 | Rel-17 | B | eMCData3 | agreed |
| S6-201091 | Enhancement of MBMS user service usage procedures | Ericsson | 23.282 | 0233 | - | Rel-17 | C | eMCData3 | revised |
| S6-201231 | Enhancement of MBMS user service usage procedures | Ericsson | 23.282 | 0233 | 1 | Rel-17 | C | eMCData3 | agreed |
| S6-201092 | Enhancement of Group standalone FD using MBMS | Ericsson | 23.282 | 0234 | - | Rel-17 | C | eMCData3 | revised |
| S6-201232 | Enhancement of Group standalone FD using MBMS | Ericsson | 23.282 | 0234 | 1 | Rel-17 | C | eMCData3 | agreed |
| S6-201176 | Removal of content reference IE from FD requests using media plane | Samsung | 23.282 | 235 | - | Rel-16 | F | eMCData2 | agreed |
| S6-201098 | Interworking private call floor control | Motorola Solutions | 23.283 | 0053 | - | Rel-16 | F | eMCCI | revised |
| S6-201178 | Interworking private call floor control | Motorola Solutions | 23.283 | 0053 | 1 | Rel-16 | F | eMCCI | agreed |
| S6-201099 | Interworking private call floor control | Motorola Solutions | 23.283 | 0054 | - | Rel-17 | F | eMCCI | revised |
| S6-201179 | Interworking private call floor control | Motorola Solutions | 23.283 | 0054 | 1 | Rel-17 | A | eMCCI | agreed |
| S6-201152 | Clarification on user subscription, group policy and functional alias policy | Huawei, Hisilicon | 23.379 | 0260 | 2 | Rel-17 | B | enh3MCPTT | revised |
| S6-201224 | Clarification on user subscription, group policy and functional alias policy | Huawei, Hisilicon | 23.379 | 0260 | 3 | Rel-17 | B | enh3MCPTT | agreed |
| S6-201008 | Correction of private call setup procedures when using a functional alias as target address | Nokia, Nokia Shanghai Bell | 23.379 | 0261 | - | Rel-17 | F | eMONASTERY2 | revised |
| S6-201190 | Correction of private call setup procedures when using a functional alias as target address | Nokia, Nokia Shanghai Bell | 23.379 | 0261 | 1 | Rel-17 | F | eMONASTERY2 | agreed |
| S6-201014 | MCPTT private call forwarding to a functional alias as a target | Kontron Transportation France | 23.379 | 0262 | - | Rel-17 | B | eMONASTERY2 | revised |
| S6-201208 | MCPTT private call forwarding to a functional alias as a target | Kontron Transportation France | 23.379 | 0262 | 1 | Rel-17 | B | eMONASTERY2 | agreed |
| S6-201015 | MCPTT private call transfer to a functional alias as a target | Kontron Transportation France | 23.379 | 0263 | - | Rel-17 | B | eMONASTERY2 | revised |
| S6-201209 | MCPTT private call transfer to a functional alias as a target | Kontron Transportation France | 23.379 | 0263 | 1 | Rel-17 | B | eMONASTERY2 | agreed |
| S6-201043 | Update of References | KRRI | 23.379 | 0264 | - | Rel-17 | D | enhMCPTT | not pursued |
| S6-201057 | Limit the number of simultaneous logins on per user basis | Nokia, Nokia Shanghai Bell | 23.379 | 0265 | - | Rel-17 | B | eMONASTERY2 | revised |
| S6-201192 | Limit the number of simultaneous logins on per user basis | Nokia, Nokia Shanghai Bell, Korea Railroad Research Institute (KRRI) | 23.379 | 0265 | 1 | Rel-17 | B | eMONASTERY2 | agreed |
| S6-201072 | MBCP Resume by MCPTT Server | Samsung | 23.379 | 0266 | - | Rel-17 | B | enh3MCPTT | revised |
| S6-201207 | MBCP Resume by MCPTT Server | Samsung | 23.379 | 0266 | 1 | Rel-17 | B | enh3MCPTT | postponed |
| S6-201114 | Ambient Listening Call release "Listened to" User initiated | HOME OFFICE | 23.379 | 0267 | - | Rel-16 | F | enh2MCPTT | postponed |
| S6-201125 | Ambient Listening Call release "Listened to" User initiated | HOME OFFICE | 23.379 | 0268 | - | Rel-17 | F | enh3MCPTT | postponed |
| S6-201153 | Call restrictions for normal private calls | Huawei, Hisilicon | 23.379 | 0269 | - | Rel-17 | B | eMONASTERY2 | revised |
| S6-201225 | Call restrictions for normal private calls | Huawei, Hisilicon | 23.379 | 0269 | 1 | Rel-17 | B | eMONASTERY2 | agreed |
| S6-201106 | Multiple trigger configurations | Ericsson | 23.434 | 0023 | - | Rel-16 | F | SEAL | revised |
| S6-201206 | Multiple trigger configurations | Ericsson | 23.434 | 0023 | 1 | Rel-16 | F | SEAL | revised |
| S6-201258 | Multiple trigger configurations | Ericsson, Huawei | 23.434 | 0023 | 2 | Rel-16 | F | SEAL | agreed |
| S6-201154 | Clarifications on MBMS listening status uage | Huawei, Hisilicon | 23.434 | 0024 | - | Rel-16 | F | SEAL | revised |
| S6-201226 | Clarifications on MBMS listening status uage | Huawei, Hisilicon | 23.434 | 0024 | 1 | Rel-16 | F | SEAL | agreed |
| S6-201026 | Missing removal of EN in clause 6.11.2 of TR23.744 | BDBOS | 23.744 | 0001 | - | Rel-17 | D | FS\_enhMCLoc | revised |
| S6-201212 | Missing removal of EN in clause 6.11.2 of TR23.744 | BDBOS | 23.744 | 0001 | 1 | Rel-17 | D | FS\_enhMCLoc | agreed |

## Annex C: Lists of liaisons

### C1: Incoming liaison statements

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Original | Title | From | Decision | Reply TDoc |
| S6-200967 | S1-202280 | Reply LS on limiting the number of simultaneous log ins of an MCX user | SA1 | noted | (none) |
| S6-200968 | S1-202267 | Reply to LS on Clarification of the definition of a UAS | SA1 | noted | (none) |
| S6-200969 | S1-202269 | LS on requirement for 5GMSG in broadcast scenario | SA1 | noted | (none) |
| S6-200970 | S1-202270 | Reply LS on Clarification of requirements for UAS application enablement | SA1 | noted | (none) |
| S6-200971 | S2-2004386 | Reply LS on Application Architecture for enabling Edge Applications | SA2 | noted | (none) |
| S6-200972 | S2-2004387 | Reply LS on provisioning ""EDN connection info"" by Edge Configuration Server | SA2 | noted | (none) |
| S6-200973 | IETF LS 9th June2020 | Liaison from IETF Scope and goals of the Drone Remote ID Protocol Working Group (DRIP) of the Internet Engineering Task Force (IETF) | IETF DRIP | postponed | (none) |
| S6-200974 | S5-203370 | LS on SA5 Rel-17 work on SLA | SA5 | noted | (none) |
| S6-200975 | C3-203588 | LS on Key Management procedure in SEAL | CT3 | noted | (none) |
| S6-200976 | MCC-JTF-20-062r2 | LS to 3GPP RAN5 on Requirement for Mission Critical Services (MCX) Testing and Certification 3GPP Release level | GCF-TCCA Joint Taskforce | noted | (none) |
| S6-200977 | C3-202441 | LS on location reporting triggers | CT3 | replied to | S6-201259 |
| S6-200978 | C1-202819 | LS on limiting the number of simultaneous log ins of an MCX user | CT1 | noted | (none) |
| S6-200979 | 5G-ACIA-LS-2020-WI039 | 5G capabilities exposure for factories of the future | 5G-ACIA | noted | S6-201175 |

### C2: Outgoing liaison statements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Document | Title | To | Cc | reply to i/c LS |
| S6-201259 | Reply LS on location reporting triggers | CT3, CT1 | - | S6-200977 (C3-202441) |
| S6-201315 | LS on 5GMSG segment size | SA1 | - | - |

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

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Title | Source | new/revised |
| S6-201286 | Revised SID on support of the 5GMSG Service | China Mobile Com. Corporation | SID revised |

## Annex E: List of draft Technical Specifications and Reports

n/a

## Annex F: List of action items

n/a

## Annex G: List of decisions

n/a

## Annex H: List of participants

|  |  |  |
| --- | --- | --- |
| Name | Representing | Status (OP) |
| ALEKSIEV, Vasil | Deutsche Telekom AG | 3GPPMEMBER (ETSI) |
| ALNÃ¥S, Svante | Sony Europe B.V. | 3GPPMEMBER (ETSI) |
| AMOGH, Niranth | Huawei Telecommunication India | 3GPPMEMBER (TSDSI) |
| ARORA, Saurav | ETSI | 3GPPORG\_REP (ETSI) |
| BAI, kunai | TD Tech Ltd | 3GPPMEMBER (CCSA) |
| BEICHT, Peter | Kontron Transportation France | 3GPPMEMBER (ETSI) |
| CHAN, Yee Sin | Facebook | 3GPPMEMBER (ETSI) |
| CHATER-LEA, David | Motorola Solutions UK Ltd. | 3GPPMEMBER (ETSI) |
| CHEN, Xiao | ZTE Corporation | 3GPPMEMBER (CCSA) |
| CHEN, Ying | TD Tech Ltd | 3GPPMEMBER (CCSA) |
| CHITTURI, Suresh | Samsung Electronics Co., Ltd | 3GPPMEMBER (TTA) |
| CHOI, Sang Won | KRRI | 3GPPMEMBER (TTA) |
| DEVAR, Sendil Kumar | Ericsson India Private Limited | 3GPPMEMBER (TSDSI) |
| EL ESSAILI, Ali | Ericsson EspaÃ±a S.A. | 3GPPMEMBER (ETSI) |
| ELLOUMI, Omar | Nokia France | 3GPPMEMBER (ETSI) |
| FEATHERSTONE, Walter | Samsung R&D Institute UK | 3GPPMEMBER (ETSI) |
| FLANDER, Andreas | BDBOS | 3GPPMEMBER (ETSI) |
| GUPTA, Nishant | BEIJING SAMSUNG TELECOM R&D | 3GPPMEMBER (CCSA) |
| HALL, Edward | Qualcomm Technologies Int | 3GPPMEMBER (ETSI) |
| HAN, Andrew Min-gyu | Hansung University | 3GPPMEMBER (TTA) |
| HAO, Hongxia | Huawei Technologies France | 3GPPMEMBER (ETSI) |
| JANKY, William | FirstNet | 3GPPMEMBER (ATIS) |
| JIAO, Jerry | ZTE Trunking Technology Corp. | 3GPPMEMBER (CCSA) |
| JOHNSON, Reid | L3Harris |  () |
| KAPALE, Kiran | Samsung Electronics Benelux BV | 3GPPMEMBER (ETSI) |
| KARAKAS, Nurettin Can | Havelsan | 3GPPMEMBER (ETSI) |
| KIM, Hyesung | Samsung Electronics Romania | 3GPPMEMBER (ETSI) |
| KIM, TaeHyun | SyncTechno Inc. | 3GPPMEMBER (TTA) |
| KOERSTEN, Frank | BDBOS | 3GPPMEMBER (ETSI) |
| KOO, Hyounhee | SyncTechno Inc. | 3GPPMEMBER (ETSI) |
| LAZARA, Dominic | Motorola Solutions Germany | 3GPPMEMBER (ETSI) |
| LEE, Jicheol | SAMSUNG R&D INSTITUTE JAPAN | 3GPPMEMBER (ARIB) |
| LEE, Ki-Dong | LG Electronics Inc. | 3GPPMEMBER (TTA) |
| LEE, Seungik | ETRI | 3GPPMEMBER (TTA) |
| LEI, Yixue | Tencent | 3GPPMEMBER (CCSA) |
| LEI, Yu | Beijing Xiaomi Mobile Software | 3GPPMEMBER (CCSA) |
| LI, Alice | VODAFONE Group Plc | 3GPPMEMBER (ETSI) |
| LIBUNAO, Gerardo | Verizon UK Ltd | 3GPPMEMBER (ETSI) |
| LIN, Lin | China Unicom | 3GPPMEMBER (CCSA) |
| LIU, Yue | China Mobile Com. Corporation | 3GPPMEMBER (CCSA) |
| LIU, Yuze | ZTE Corporation | 3GPPMEMBER (CCSA) |
| MADDEN, Helen | Verizon Denmark | 3GPPMEMBER (ETSI) |
| MATTSSON, Bernt | ETSI | 3GPPORG\_REP (ETSI) |
| MERRICK, Robert | HOME OFFICE | 3GPPMEMBER (ETSI) |
| MIAO, Chuanyang | ZTE Corporation | 3GPPMEMBER (ETSI) |
| MLADIN, Catalina | Convida Wireless | 3GPPMEMBER (ETSI) |
| MOHAJERI, Shahram | AT&T GNS Belgium SPRL | 3GPPMEMBER (ETSI) |
| MONNES, Peter | Perspecta Labs Inc. | 3GPPMEMBER (ATIS) |
| MONRAD, Atle | InterDigital, Europe, Ltd. | 3GPPMEMBER (ETSI) |
| MOSES, Danny | Intel Deutschland GmbH | 3GPPMEMBER (ETSI) |
| MUSTAPHA, Mona | Apple (UK) Limited | 3GPPMEMBER (ETSI) |
| NEAL, Adrian | Vodafone GmbH | 3GPPMEMBER (ETSI) |
| NERLIKAR, Rohit | Motorola Solutions UK Ltd. | 3GPPMEMBER (ETSI) |
| OETTL, Martin | Nokia Corporation | 3GPPMEMBER (ETSI) |
| OPRESCU, Val | AT&T | 3GPPMEMBER (ATIS) |
| PATEROMICHELAKIS, Emmanouil | Motorola Mobility Germany GmbH | 3GPPMEMBER (ETSI) |
| PATTAN, Basavaraj (Basu) | Samsung Research America | 3GPPMEMBER (ATIS) |
| PEKER, Ahmet GÃ¶khan | Havelsan | 3GPPMEMBER (ETSI) |
| PLATZER, Andreas | BDBOS | 3GPPMEMBER (ETSI) |
| RAMAMOORTHY, Arunprasath | Samsung R&D Institute India | 3GPPMEMBER (TSDSI) |
| RURAINSKY, Juergen | BDBOS | 3GPPMEMBER (ETSI) |
| SANDERS, Peter | one2many B.V. | 3GPPMEMBER (ETSI) |
| SHAH, Sapan | Samsung Guangzhou Mobile R&D | 3GPPMEMBER (CCSA) |
| SHAO, Weixiang | ZTE Corporation | 3GPPMEMBER (ETSI) |
| SHIH, Jerry | AT&T GNS Belgium SPRL | 3GPPMEMBER (ETSI) |
| SOLANO, Camilo | Ericsson GmbH, Eurolab | 3GPPMEMBER (ETSI) |
| SOLOWAY, Alan | Qualcomm Incorporated | 3GPPMEMBER (ATIS) |
| STOUT, Mark | T-Mobile USA | 3GPPMEMBER (ETSI) |
| TANGUDU, Narendranath Durga | Harman GmbH | 3GPPMEMBER (ETSI) |
| TEMIR, Tugce | Havelsan | 3GPPMEMBER (ETSI) |
| TENIOU, Gilles | Tencent | 3GPPMEMBER (CCSA) |
| TRAKINAT, Jean | T-Mobile USA Inc. | 3GPPMEMBER (ATIS) |
| VERWEIJ, Kees | The Police of the Netherlands | 3GPPMEMBER (ETSI) |
| VIALEN, Jukka | Airbus | 3GPPMEMBER (ETSI) |
| VOSKAR, Paul | Huawei Tech.(UK) Co., Ltd | 3GPPMEMBER (ETSI) |
| WELLS, Derek | L3Harris Technologies | 3GPPMEMBER (ATIS) |
| WENDLER, Ingo | Union Inter. Chemins de Fer | 3GPPMEMBER (ETSI) |
| WOODWARD, Tim | Motorola Solutions Danmark A/S | 3GPPMEMBER (ETSI) |
| XIONG, Chunshan | Tencent | 3GPPMEMBER (CCSA) |
| XU, Wenliang | Ericsson Limited | 3GPPMEMBER (ETSI) |
| YAN, Yali | Huawei Tech.(UK) Co., Ltd | 3GPPMEMBER (ETSI) |
| YI, Jong-Hwa | ETRI | 3GPPMEMBER (TTA) |
| ZAUS, Robert | Apple GmbH | 3GPPMEMBER (ETSI) |
| ZHAO, Shuai | Tencent | 3GPPMEMBER (CCSA) |
| ZHU, Chunhui | Spreadtrum Communications | 3GPPMEMBER (CCSA) |

## Annex I: List of future meetings

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Title** | **Start date** | **End date (OP)** | **Town** | **Country** | **Reference** |
| 3GPPSA6#39 | 31/08/2020  | 08/09/2020  | e-meeting | - | S6-39 |
| 3GPPSA6#39-BIS | 12/10/2020 09:00:00 | 16/10/2020 17:30:00 | Tallinn | EE | - |
| 3GPPSA6#40 | 16/11/2020 09:00:00 | 20/11/2020 17:30:00 | TBD | NA | S6-40 |
| 3GPPSA6#41 | 18/01/2021 09:00:00 | 22/01/2021 17:30:00 | TBD | NA | S6-41 |
| 3GPPSA6#42 | 01/03/2021 09:00:00 | 05/03/2021 17:30:00 | TBD | NA | S6-42 |
| 3GPPSA6#43 | 03/05/2021 09:00:00 | 07/05/2021 17:30:00 | TBD | NA | S6-43 |
| 3GPPSA6#44 | 12/07/2021 09:00:00 | 16/07/2021 17:30:00 | TBD | NA | S6-44 |
| 3GPPSA6#45 | 30/08/2021 09:00:00 | 03/09/2021 17:30:00 | TBD | NA | S6-45 |
| 3GPPSA6#Adhoc | 11/10/2021 09:00:00 | 15/10/2021 17:30:00 | TBD | NA | - |
| 3GPPSA6#46 | 15/11/2021 09:00:00 | 19/11/2021 17:30:00 | TBD | NA | S6-46 |