**3GPP TSG- Meeting #8**

**, , - (revision of S6-253053)**

**Source: Airbus**

**Title: Solution: Recording HTTP traffic**

**Spec: 3GPP TR 23.700-39 V0.2.0**

**Agenda item: 9.2**

**Document for: Approval**

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**1. Introduction**

This contribution proposes a solution to Key Issue#y - Recording HTTP traffic.

**2. Reason for Change**

No solution exists for KI#y.

**3. Proposal**

It is proposed to agree the following changes to 3GPP TR 23.700-39 V0.2.0.

\* \* \* First Change \* \* \* \*

## 6.x Solution x (for KI#y): Recording HTTP traffic

### 6.x.1 Description

#### 6.x.1.0 General

HTTP in MC system is used for MCData file distribution (scenario 2) as well as for the non-communication related signalling (scenario 3).

#### 6.x.1.1 Functional model and reference points

New reference points are added to the “*Functional model for application plane for an MC system*”, Figure 7.3.1.2-1 in TS 23.280:

* REC6 between LMS and recording server
* REC7 between IdMS and recording server

Figure 6.x.1.1-1 is an updated Figure 7.3.1.2-1 in TS 23.280.



*Figure 6.x.1.1-1 – updates to Figure 7.3.1.2-1 in TS 23.280*

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Recording server is added to the “Functional model for signalling control plane”. Figure 6.x.1.1-2 is an updated Figure 7.3.1.2-2 in TS 23.280.



*Figure 6.x.1.1-2 – updates to Figure 7.3.1.2-2 in TS 23.280*

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The new REC-6 and REC-7 reference points are added also to the “*Relationships between reference points of MC service application plane and signalling control planes*”. HTTP is added to REC-4. IdMC and IdMS are added to the figure.

Figure 6.x.1.1-3 is an updated Figure 7.3.1.2-3 in TS 23.280.



*Figure 6.x.1.1-3 - updates to Figure 7.3.1.2-3 in TS 23.280*

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TBD: The new REC-6 and REC-7 shall be added also to Figure 7.3.1.3-1 and Figure 7.3.1.3-2 in TS 23.280.

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#### TS 23.280 / 7.5.2.32 Reference point REC-3 (between recording server and configuration management server)

The REC-3 reference point, which exists between recording server and configuration management server, is used by the recording server to obtain user profiles (and updated user profile data) of the replay service users. It is also used for recording configuration management related user events from CMS to the recording server.

The REC-3 reference point shall use HTTP-1 and HTTP-2 reference points for transport and routing of non-subscription/notification related signalling. The REC-3 reference point shall use SIP-2 and SIP-3 reference point for transport and routing of subscription/notification related signalling. The SIP-3 reference point is used when the recording server and the configuration management server are served by different SIP cores.

#### TS 23.280 / 7.5.2.34 Reference point REC-4 (between recording server and MC service servers)

The REC-4 reference point, which exists between recording server and MC service servers, is used for transmitting metadata and media of the communication of target users and target groups from the MC service servers to the recording server.

The REC-4 reference point shall use the SIP-2 reference point for transport and routing of signalling and communication sessions related metadata. If an MC service server and a recording server are served by different SIP cores, then the REC-4 reference point shall also use the SIP-3 reference point for transport and routing of signalling and communication sessions related metadata.

For recording RTP media and related metadata of session-based user communications (e.g. MCPTT and MCVideo private and group calls), MC service server and recording server shall use Session Recording Protocol as specified in IETF RFC-7866 [40].

For recording non-session based MCData user communications and related metadata, the REC-4 reference point shall use the HTTP-1 and HTTP-2 reference points.

#### TS 23.280 / 7.5.2.37 Reference point REC-5 (between recording server and group management server)

The REC-5 reference point, which exists between recording server and group management server, is used by the recording server to obtain information related to target groups for the recordings, including the group related key material. It is also used for recording group management related user events from GMS to the recording server.Editor's note: The security aspects of REC-5 shall be specified by SA3 in 3GPP TS 33.180 [25].

#### TS 23.280 / 7.5.2.x Reference point REC-6 (between recording server and location management server)

The REC-6 reference point, which exists between recording server and location management server, is used for recording location management related user events from LMS to the recording server.

The REC-6 reference point shall use the HTTP-1 and HTTP-2 reference points.

#### TS 23.280 / 7.5.2.y Reference point REC-7 (between recording server and identity management server)

The REC-7 reference point, which exists between recording server and identity management server, is used for recording failed authorization ateempts of an MC user (see [R-6.15.4-009] in TS 22.280, Table A.1-1).

Editor's note: Recording of successful authorizations is FFS.

The REC-7 reference point shall use the HTTP-1 and HTTP-2 reference points.

#### 6.x.1.2 Configurations

No changes are needed to the application layer configurations i.e. configuring target users/groups for recording.

HTTP level configurations e.g. configuring HTTP proxy to capture/forward traffic from target users/groups to the recording server is out of scope of 3GPP.

#### 6.x.1.3 Procedures

TBD.

Editor's note: It is FFS if an HTTP recording RFC or other standard/specification, that can be used as a reference in 3GPP TS, is available.

### 6.x.2 Impacts on existing functional entities and reference points

All changes are described in 6.x.1.1.

### 6.x.3 Solution evaluation

FFS.

\* \* \* End of changes \* \* \* \*