Source: Secretary (Maurice Pope, ETSI-MCC)

Title: Draft Report

Document for: Comment
                   Please provide comments by February 15, 2001 to maurice.pope@etsi.fr

1   Opening of the meeting

The hosts, Mannesmann Mobilfunk welcomed delegates to the meeting and provided some domestic arrangements and wished the group a successful meeting. Delegates then introduced themselves.

The Chairman reminded the delegates to the meeting of their obligations regarding essential IPRs.

2   Meeting objectives:

Bernie McKibben, the chairman provided the objectives for the meeting, as given below.

-      Complete TS 33.106 R00 for SA3 release

-      Complete TS 33.107 R00 for SA3 comment.

       It was explained that separate Rel4 and Rel5 versions of these specifications would be required, and that they would need to be split appropriately before presentation to SA WG3 for approval.

-      Prepare for TC Sec LI workshop

-      Recommendation to CN4 on Mc interface

-      Other CRs as received

3   Approval of the agenda

S3LI01_005: The draft agenda was presented by the Chairman. Tandem-Free Operation (TFO) was requested to be added to the agenda, this was added under agenda item 13.1. With this modification, the agenda was then approved.

4   Registration and assignment of input documents

S3LI01_006: The documents received so far for the meeting were provided in this document.

5   Approval of report from S3-LI (Nov. 2000)

S3LI01_124: The report was reviewed, and the final bullet under item 3 was undeleted and modified, the updated report was provided in TD S3LI01_009, which was approved.

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6   TC Sec LI report

ETSI TC Security had requested joint meetings with S3LI group and with the ETSI EP TIPHON Security group. It was suggested that this may be better as a single joint meeting of all 3 groups.

It was reported that ETSI TIPHON have created a Lawful Interception work Item, contrary to the advice provided to their representative by the S3-LI group in November 2000. Therefore a "round-the-table" session with all groups was considered useful to prevent problems in the future with interception standardisation work.

It was agreed that a Liaison statement should be produced to accept the TC Sec LI invitation and to request that this meeting be held on 3 April 2001 (hosted by Telenor). Bernie McKibben produced the liaison statement in TD S3LI01_022.

It was noted that the topic of buffering is still open for discussion in TC Security.

Clarification was required on the location information to be provided for Lawful Interception, as it was not clear whether enhanced location services information would be needed. It was agreed that the concerns and views of S3-LI should be documented for use if necessary in the future progress of these requirements.

7   SA3 Report

The 33.106 Rel4/Rel5 was provided to SA3#16 meeting for comments. No comments had been received to date, so a Rel4 version would be created by B. McKibben.

8   Finalize TS 33.106 CR for R000

TD S3LI00_115: 33.106 Draft 2. This draft was reviewed, some minor changes made. B. McKibben, M. Pope to produce Rel4 and Rel5 CRs from this document. These were provided in TD S3LI01_011 and S3LI01_012, which were approved.

> NOTE: The text *"(to be verified)"* to be added to the definition of Interception Area in these CRs.

9   New inputs to TS 33.107

TD S3LI00_116: 33.107 Initial draft. This draft was updated according to contributions and comments given below, in order to extract Rel4 and Rel5 CRs.

-   CR from Ericsson on CS service

S3 LI01 001. Rel4 CR to 33.107: Lawful Interception for CS domain. This proposed CR was introduced by Ericsson. There was some concern over the provision of the extra interface (HI3b) and the physical implementation provided by this scheme. It was suggested that the existing reference configuration should be used, but that the concept of separating the signalling and content delivery (bearers) could be explained in the text. This received most support and Siemens undertook to provide a contribution describing the separation of the DF3 signalling and bearer in the figure and in text as shown in TD S3LI01_013. This was reviewed and it was agreed that variant a) along with the descriptive text below variant b) would be used (see agenda item 10).

-   Motorola action item on session flows

S3LI01_002: Informative Call flows. This proposes a series of informational session flows to be added to TS 33.107 for multi-media service as part of a new informative annex. After a short discussion, it was considered relevant to modify the figures to show the reporting of signals received by the P-CSCF from the UE to the

intercept agency (DF2p) immediately following their reception, rather than waiting for the result of further processing. This comment was taken into account and a CR produced for inclusion in 33.107 (Rel5).

-   Motorola contribution on SIP intercept

S3 LI01_003: Intercepted SIP Messages. This document proposed a clarification on the nature of intercept SIP messages sent on the X2 interface between the PCSCF/SCSF and DF2p. It listed the SIP messages to be forwarded to the DF2p, and not to send the server or network global failure messages. It was suggested that this could be better presented by requiring all SIP messages which are correlated to the target user should be sent, to ensure future compatibility with any modifications to SIP. This was agreed.

It was also noted that the terminology of "DF2p/DF2" should also be checked in 33.107 for possible correction via CR.

-   Nortel contribution on CS service

S3LI01_004: Lawful Intercept Investigation of Mc Interfaces for 3GPP. This contribution was presented by Nortel and discussed.

Scenario 1, Case 1: It was proposed that the interception point should be the SGSN and the decoding of the signal brought into the LEA (as the functionality would need to be present in the LEA for other scenarios of VoIP interception). Nortel would like to keep the option to intercept at the Media GW to the PSTN for further discussion. Siemens and RegTP stated that they would like the interception at the SGSN and that the inclusion of the option for the Media GW could only be useful in limited cases. It was recognised that some countries may need the interception at the Media GW because they do not have connection to Multimedia at their LEAs.

Scenario 1, Case2: the issue raised was whether there are any new IP data requirements in release 4 or 5, which cannot be handled by the GPRS solutions available. It was considered that GPRS is IP in Rel4 onwards, so this issue had been solved.

Scenario 2, Case 3: The issue raised was the correlation of X-2 and X-3 and Mc interface. This was not seen as an issue, as there were existing communications not shown in the figure between the Media GW and the DF. Correlation was needed between IRI and CC.

Interception of AAL2 or IP voice on Iu-CS and delivery to the DF via an X-3 interface was raised. It was considered that the Media GW would include the necessary mediation functionality (Codecs) and could deliver understandable information to the DF. No correlation data was identified on the Mc Interface between the MSC server, and further checks were needed.

After some discussion on the cases presented, Nortel agreed to update the contribution to resolve some of the issues and to input this to the next meeting.

10   TS 33.107 draft (drafting session output)

S3 LI00-116: 33.107 Initial draft. An update to this draft (not presented as a new TD), which included changes already agreed in this meeting, was reviewed and updated according to agreements at the meeting.

The target identity for multimedia was discussed in depth (currently only SIP URL in CSCF), and it was concluded that more study was required on this subject

For CS service: Various figures were modified to align them with the agreed architecture and consistency of terminology within them. Section 6.1.2 was merged into section 6.1.1 for clarity. *Cell ID* and *Location Area Code* were no longer valid for 3GPP systems, and *Location Information* was added in their place. A potential problem was discovered where the MSC Server may not have up-to-date information available and may have to request

this information. It was agreed to describe this as "*Location information is the service area identity or the location area identity that is present at the time of intercept*". This was identified as a Release 1999 correction.

For PS service: The title of section 7 was modified to reflect the separation of the multimedia aspects in new section 7A (addition of *GSN*). The field *CGI (Cell Global ID)* was removed as it was not applicable to 3GPP Rel4+ systems.

For MM service: (New section 7A) - This was reviewed and corrected as appropriate according to decisions already made.

For Security (Section 8): Minor terminology modifications were made to the text.

Annex A: The terminology was updated to show MSC Server and MGW. The addition of the MGW and bearer establishment flows was considered necessary, which would take a lot of effort. Ericsson agreed to update the CS figures for the March 2001 meeting.

Annex B: The annex was updated to remove the "p" extensions and make them generic interfaces/functions and to remove the cell terminology.

Annex C (new): The MM Call flows were required to be added. Motorola agreed to add these.

The final output (Rel 99, Rel4 and Rel5 CRs to 33.107) was presented and discussed under agenda item 14.

11   TC Sec LI workshop preparations

- **3G HI3 bearer presentation**
- **3G HI3 bearer protocol**
- **Interception of multi-media service**

TD S3LI01_008: 3G Bearer Considerations (Motorola). This contribution questions the suitability of the currently specified protocols for delivery of intercepted bearer information (ROSE, FTP or TCP) in the 3GPP environment (long-duration and high data rate sessions). It suggested the use of UDP as the primary mechanism to deliver 3GPP bearer data and provided arguments for this. It was reported that the regulators would not readily accept the use of UDP over TCP for reasons of delivery reliability and QoS. The USA authorities require the delivery of Multimedia bearer information in real-time and would not accept a FTP or TCP based store-and-forward mechanism for this information. It was also mentioned that their is no guarantee that the data received by the LI agency would be exactly the same as was received by the user, due to the possibility of lost packets from the interception point to the user when using UDP. It was also stated that encryption (e.g. recommended for internet data delivery) may hinder the use of UDP. After some discussion, it was proposed that the use of UDP should be presented as a network-wide option, and that the choice of the protocol could be dependent upon the service context of each session. It was decided that there was not enough support to suggest the use of UDP to ETSI TC Security at this time. The proposal was therefore rejected. Delegates were asked to consider the suitability of the bearer delivery protocols being provided by ETSI TC Security for the 3GPP environment and to contribute any alternatives, if needed, to the March 2001 meeting. UDP may be considered if current concerns are properly addressed or if substantially new justification is provided.

Delegates were also asked to contribute on syntax and structures for SIP event records to the March 2001 meeting in order that a detailed set of recommendations could be presented to ETSI TC Security at the workshop in April 2001.

12   CN4: intercept for Mc

This was postponed to the March 2001 meeting.

13   IMEI CR to 03.33

This was postponed to the March 2001 meeting.

13.1   TFO issues

This was postponed to the March 2001 meeting.

14   TS 33.107 updated from January 23.

It was agreed that the CR for the Rel4 version of 33.107 would be presented to SA WG3 in February for comment, and the CR for the Rel5 version presented to SA WG3 for information, to be finalised at the March LI meeting, and then sent to SA WG3 for e-mail approval.

TD S3LI01_014 was produced containing the changes to the document (including both Rel4 and Rel5 changes) for review. Figure 1a was updated to show single interfaces for the X3 and HI3 interfaces for clarification. Figures 11, 16 and 22 still needed updating. Note 2 in section 6.1 was removed as it provided stage 3 detail. Network identifiers need to be added to all event records.

The CR to correct the location information in the event records was created and provided in TD S3LI01_016. This was reviewed, and equivalent changes in Section 7 added to the CR, which was reproduced in TD S3LI01_020.

The CR for Release 4 was provided in TD S3LI01_017 and reviewed. Fig 1b needed update to remove the CSCF references. Figure 11 needed update to include the Mc interface. Editors note under figure 11 to be deleted. This was done and the CR reproduced in TD S3LI01_019 which was agreed.

16   Develop March meeting agenda, work plan for 2nd half of 2001

The Chairman provided a call for contributions for the March meeting in TD S3LI01_018, including consideration of the use of H.248 for the Mc interface, for discussion at the March 2001 meeting. delegates were asked to contribute on the topics included.

16.1   Future meeting dates and venues

6-8 March 2001: Tampa, Florida (Motorola/Nortel)
3-4 April 2001: Grimstadt, Norway (Telenor): Workshop with ETSI TC Sec LI group and ETSI TIPHON proposed
        for 3 April 2001.
5-7 June 2001: Munich, Germany (VIAG Interkom)
21-23 August 2001 Saarbrucken, Germany (RegTP)
23-25 October 2001 (TBD)

17   Other business

There was no other business raised.

18   Close of meeting

The Chairman thanked the hosts, Mannesmann for the facilities and delegates and secretary for their hard work and closed the meeting.

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Annex A: List of documents

Number	Title	Source	Document for	Comments Status
S3LI00_115	33.106 draft 2	S3 LI	Discussion and decision	
S3LI00_116	33.107 initial draft	S3 LI draft session	Discussion	
S3LI00_124	Meeting minutes for Sophia	S3 LI	Decision	rev 01_009
S3LI01_001	CR to CS	Ericsson	Decision	
S3LI01_002	Action item on flows	Motorola	Decision	
S3LI01_003	SIP messages	Motorola	Decision	
S3LI01_004	CS intercept	Nortel	Decision	
S3LI01_005	Draft agenda for Jan 2001	S3 LI	Decision	revised and approved
S3LI01_006	Draft Tdoc list for Jan 2001	S3 LI	Discussion	Noted
S3LI01_007	Lawful Intercept Standards V3.0	C Brookson	Discussion	
S3LI01_008	3G Bearer Considerations	Motorola	Discussion	
S3LI01_009	Meeting minutes for Sophia (Final)	S3 LI		Approved
S3LI01_010	Updated doc list	Secretary	Information	
S3LI01_011	CR to 33.106 (Rel4)	S3 LI	Approval	Approved
S3LI01_012	CR to 33.106 (Rel5)	S3 LI	Approval	Approved
S3LI01_013	DF3 picture	Siemens	Discussion	
S3LI01_014	Update of TS 33.107 for Release 5 (CR format)	S3 LI	Discussion	
S3LI01_015	Attendees list	S3 LI	Information	
S3LI01_016	R99 CR to 33.107: Correction of Location information parameters in interception event records	S3 LI	Approval	Replaced by TD020
S3LI01_017	Rel4 CR to 33.107: Update of TS 33.107 for Release 4	S3 LI	Approval	Replaced by TD019
S3LI01_018	Call for contributions for Tampa meeting (March 2001)	Chairman	Information	Noted
S3LI01_019	Rel4 CR to 33.107: Update of TS 33.107 for Release 4	S3 LI	Approval	
S3LI01_020	R99 CR to 33.107: Correction of Location information parameters in interception event records	S3 LI	Approval	
S3LI01_021	Final version of Release 5 draft of 33.107	Chairman	Discussion/ update	Basis for further changes
S3LI01_022	LS to SEC-LI and TIPHON-SEC on joint workshop for LI issues.	Chairman		To be transmitted to TC SEC & TIPHON
S3LI01_23	Draft report of the meeting	Secretary	Comment	Comment by 15/02/2001
S3LI01_24	Final TDoc List	Secretary	Information	

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Annex B: **List of Attendees**

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