

tdoc S3 LI 03\_010r1 DRAFT

**Report of the 3GPP TSG SA WG3-LI (S3-LI) meeting #11/03  
on lawful interception**

**London 19-21 November 2003**



Parliament Buildings and Big Ben view from the Thames River

Please direct all comments to  
Rupert Thorogood at [rupert.thorogood@homeoffice.gsi.gov.uk](mailto:rupert.thorogood@homeoffice.gsi.gov.uk)

Management Team:

Chairman:

Brye Bonner

Motorola

Vice Chairman: Burkhard Kubbutat O2 Germany  
Meeting Secretary: Rupert Thorogood UK Home Office

List of participants: see annex A  
List of action points: see annex B  
List of documents: see annex C  
List of Change Requests see annex D  
List of Liaison Statements see annex E  
List of related specifications see annex F

3G LI specifications:

3G TS 33.106 LI Requirements version 5.1.0: Berthold Wilhelm (Reg TP)  
3G TS 33.107 LI Architecture and Functions version 5.5.0: Berthold Wilhelm (Reg TP)  
3G TS 33.108 Handover Interface for LI version 5.4.0: Ron Ryan (Nortel Networks)  
3G TS 33.106 LI Requirements version 6.0.0: Berthold Wilhelm (Reg TP)  
3G TS 33.107 LI Architecture and Functions version 6.0.0: Berthold Wilhelm (Reg TP)  
3G TS 33.108 Handover Interface for LI version 6.2.0: Ron Ryan (Nortel Networks)

## 1 Welcome and Logistics

The meeting was opened by the Chair, Ms Brye Bonner of Motorola. The delegates were welcomed to the Department of Trade and Industry (DTI) by Charles Brookson. He outlined the formalities and administration.

The chair stated the code of conduct and drew attention to the IPR declaration. There were no declarations.

## 2. Apologies

Apologies were received from Brad Owen, Antti Laurila and Jean Francois Zell.

## 3. Approval of Agenda

The agenda with working schedule in Tdoc S3LI03\_110 was proposed by the chair and agreed. Koen Jaspers drew attention to the continuation of the Work Item under New Business. Bernhard Spalt noted an LS from CN2 about CAMEL and CAMEL functions. Under item 10.

## 4. Registration and assignment of input documents

The input documents are listed in Annex C.

## 5. Approval of Report from Jackson Hole

The report from the S3-LI meeting in Jackson Hole, Wyoming, 2003 was tabled as **Tdoc S3LI03 111r1**. Apart from an error in the **document list** where **tdocS3LI03 098** was listed as Siemens but was in fact from Alcatel the report was accepted.

## 7. Review Action Points from Jackson Hole

List of action points in annex B to **Tdoc S3LI03 111** from Jackson Hole.

**AP03\_05** has now been transferred from Maurice Pope to be actioned by the Chair.

**AP03\_09** is closed.

**AP03\_10** the Chair has opened an Action File. It was proposed to have an agenda item for a review of new items at the January meeting and at every second meeting thereafter.

**AP03\_11** to amend the incorrect reference to TS101 331 in 33.107 release 6. It was decided to make this into a CR. Berthold Wilhelm will action.

## 8. Review outcome of LI and CRs to SA3 and ETSI TC LI

### 8.1 Liaisons

#### 8.1.1 **S3LI03 104r1** LS to ETSI TC LI.

Liaison was accepted and incorporated into TC LI 003020 spec.

#### 8.1.2 **S3LI03 084** LS to SA3

The Liaison on new acronym was accepted. A question was raised on how to get a new acronym into the 3GPP acronym document. It was proposed to send the new acronym to Maurice Pope.

**Action Point:** **AP03\_12** Chair to send new acronym ANP to Maurice Pope

### 8.2 Change Requests to SA3 and SA

8.2.1 **S3LI03 088r1** CR to TS 33.108r6.2.0 LI Reporting of Dialed Digits.  
Status - revised at SA3 – TD S3-030607 (from TS S3-030531). The proposed amendment by SA3 was agreed and accepted.

8.2.2. **S3LI03 094r2** CR to TS 33.107r6 MSISDN/IMEI clarification for GPRS interception.  
Status - revised at SA3 –TD S3-0306071 from (TS S3 – 030531). The proposed addition was agreed and accepted.

**Action Point: AP03\_13** Alex Leadbeater to report to SA3 of LI's acceptance to the changes to the CRs (items 8.2.1 and 8.2.2).

8.2.3 **S3LI03\_101** CR to TS33.108r5.5.0 Annex G Correction. Status- approved. The meeting noted the approval.

8.2.4 **3LI03\_102** CR to TS33.108r6.3.0 Annex G Correction  
Revised at SA3 – S3-030608. Status – approved. The meeting noted the approval.

8.2.5 **S3LI03\_51r1** CR to 33.106 rejected at SA (SP-030477) due to introducing a change to a reference with no change to the specification.

**Action Point: AP03\_13** Bernhard will write a new CR to add a section to the Scope to 33.106 as **S3LI03\_123**

## 9. Reports

### 9.1 SA WG3

**tdoc S3LI03\_114** presented by Berthold Wilhelm of RegTP who reported that SA3 had asked that the LI group check that the SA3 changes to LI CRs are acceptable and may be presented at the next SA meeting. See section 8.2 above where the reason for the amendments was to make the text entirely clear.

Berthold Wilhelm noted from section 5.3 of the SA21 report from Frankfurt where SA3-LI had been criticised for incomplete CR compilation. The Chair will review the CRs and ensure that CRs are correct in future by consulting the drafting rules in TR 21.801. SA3 also commented that the SA3-LI meeting timing was inconsistent with SA and SA3 meetings. The Chair confirmed that the timetable for next year had been arranged to clear all the other meetings.

There was a liaison from SA3 where SA3-LI has been asked to investigate the impacts of the tunnelling solution for WLAN interworking as a result of a question from SA2 to SA3.

#### 9.1.1 Evaluation of alternatives for secure set-up of UE initiated tunnels

**tdoc S3LI03\_116** SA3 – S3-030550 was presented by Bernhard Spalt of Siemens who said that the problem was about the secure tunnel and whereabouts the interception would be available if the communication was encrypted. The discussion should be related to the factors outlined in the document. It was suggested that interception should always be done in the home network. It was clarified that in scenario 3 the location of the packet data gateway is not defined. However this may change. It seems that SA3-LI has an opportunity to propose a solution. Koen Jaspers suggested that there should be a scenario that would allow law enforcement to be able to decrypt in both the home and visited system. Giorgi Gulbani said that problem lay where the transit network passed through other countries. Koen Jaspers suggested an LS that clearly stated law

enforcement's requirement for decrypted text or keys to decrypt the text and to identify the best scenario.

It was proposed to compile an LS in response. See section 15.

### **9.1.2 UE-initiated Tunnelling with IKEv2**

**tdoc S3LI03 115** SA3 – S3-30557 Presented by Giorgi Gulbani of Nokia who said that SA#21 did not approve WLAN-IW stage 2 [1] due to concerns raised about end-to-end tunneling selected for scenario 3. However, the end-to-end tunneling was taken as a working assumption but to validate it, some concerns need to be addressed by SA2.

## **9.2 SA report**

There was no formal report.

## **9.3 ETSI TC LI report**

**tdoc S3LI03 117r2** The report from the Moscow meeting was tabled for information and clarified by Giorgi Gulbani. Peter van der Arend stated that TC LI is in the process of organising a Global Workshop. He said that he had asked for some guidance at OCG on location and scope. They indicated that 3GPP-LI should also participate and also AT CableCom and TISPAN. The OCG confirmed that it should not be organised at ETSI. There are still unresolved questions of scope, timing, location and attendance. It was noted that SA3 is meeting in Korea 4-7 May and there will be a GSC meeting 9-13 May 2004. One proposal was the Global Workshop meeting could be in Seoul 6-7 May. The Chair of TC LI invited 3GPP-LI to participate and it was agreed that 3GPP-LI would participate.

Maurizio proposed a CR to align 33.108 from Giorgi's report. This will be **tdoc S3LI03 125**.

## **9.4 T1P1.5 report**

Ron Ryan of Nortel Networks tabled **tdoc S3LI03 121** and reported T1P1 continues its work with TIA TR45.LAES on J-STD-025-B. T1 has balloted J-STD-025-B as part of the joint T1-TIA project on J-STD-025 with two NO votes being received (FBI-CIU, Telcordia). Ballot comments have been addressed and the draft standard has been sent out for a default ballot. J-STD-025-B addresses LI for packet data and has a reference to the 3GPP TS 33.108 specification identifying the TS 33.108 specification as the standard for GPRS and UMTS LI support including LI support for VoP services via the IMS domain.

T1 via T1P1 has balloted TS 33.108 R5 as an ANSI standard. Three NO votes were received (FBI-CIU, Telcordia, SBC). Ballot comments have been addressed and the specification has been re-formatted from a 3GPP specification into an ANSI draft

standard. In addition a number of changes were made as a result of the ballot comments and the draft standard has gone out for a default ballot. A number of CRs are expected against TS 33.108 R6 to achieve alignment with the ANSI standard “UMTS Handover Interface for Lawful Intercept” after the default ballot comments are addressed in January 2004.

T1P1 is considering entering into a joint project with TIA on standard maintenance following J-STD-025-B implementation and possibly CALEA capabilities resulting from an analysis of Law Enforcement’s requirements expressed in various forms and information related to additional Packet Mode technologies.– a proposed Revision C of J-STD-025. However, the proposed Rev. C will not overlap or provide a competing LI solution for UMTS. The 3GPP specifications (TS 33.108) will continue to be the basis for LI support for UMTS in North America.

## 9.5 TR-45 LAES

The Chair had tabled [tdoc S3LI03\\_122](#) as a report and said there were two meetings since the last 3GG-LI meeting, both concerning the resolution of ballots for J-STD-025-B. J-STD-025-B is now out for a default ballot with the ballot from T1 closing December 4 and the ballot from TIA closing Dec. 6. Work is progressing on the new project to contain the messaging for support of additional LAES capabilities. This standard is not being developed to meet the requirements of CALEA, and CALEA references are outside the scope.

## 9.6 TISPAN (TIPHON)

There was no report.

## 9.7 AT CableCom

Peter van der Arend said that the work has started on LI in MMS and an STF has been formed to write the specification. For various reasons there were only two candidates and a third candidate is still sought. The implications are that TC LI would wish to view the AT CableCom solution.

# 10. Liaisons

## 10.1 TR45 LAES

There were none.

## 10.2 ETSI TC LI

There were none.

10.3 SA WG3 see 9.1

**tdoc S3LI03\_126** was introduced by Giorgi Gulbani of Nokia and is a LS from SA3/CN2 reference S3-030501/N2-030437 and concerns CAMEL and the interception of SCP (Service Control Point) initiated calls. A number of problems were highlighted and he proposed a number of questions. After some discussion it was decided to write an LS to ask CN2 to be present at the next meeting.

**Action Point: AP03\_16** Chair to write to CN2 to ask for their attendance at the next SA3LI meeting to discuss the interception at the SCP. This will be **tdoc S3LI03\_127**.

10.4 T1 T1P1.5

There were none.

## 11. TS 33.106 Rel. 5 and Rel. 6

11.1 Updates to Release 5 33.106 v.5.1.0

There were no contributions.

11.2 Contributions towards Release 6 33.106v.6.0.0

**tdoc S3LI03\_123** was presented by Bernard Spalt of Siemens and is a CR on 33.106 which was initiated at Vienna. It corrects the references and extends the scope. After several further amendments was reissued as **tdoc S3LI03\_123r1**

## 12. TS 33.107 Rel. 5 and Rel. 6

12.1 Updates to Release 5 33.107 v.5.5.0

There were no contributions.

12.2 Contributions towards Release 6 33.107v.6.0.0

12.2.1 Change Request - Reporting SIP URL and TEL URL

**tdoc S3LI03\_119** presented by Giorgi Gulbani of Nokia who said that in some cases the LEA may not have SIP URL but only TEL URL. This is a correction to 33.107 v6 section 7A.3 on multi-media events to insert the missing parameter. This was agreed after minor editorial amendments. This will be reissued as **tdocS3LI03\_119r1**.

## 13. TS 33.108 Rel. 5 and Rel. 6

## 13.1 Updates to Release 5

33108-v.5.4.0

There were no contributions.

## 13.2 Contributions towards Release 6

33108-v.6.3.0

### 13.2.1 Change Request – CS section – User data packet transfer

**tdoc S3LI03\_112** was presented by Marcus Lutz of Alcatel who had revised **tdoc S3LI03\_096** from Jackson Hole. The changes are listed in tdoc 112. Bernhard Spalt of Siemens pointed out that under A.1.2.1 sending part the SMS reference should be clarified “for backward compatibility only”. The CR will be revised to become **tdoc S3LI03\_112r1**. The reasons for change section will also be amended.

The proposed changes in A 1.2.2. and the 3GPP Object Tree were accepted. For Section B5 it was decided to import the whole operation from 201 671 into the imports operation. The reference to EN 300 356 at the end was amended from 5 to 30.

**tdoc S3LI03\_112r1** was later reviewed and accepted as further modified and will be reissued as **tdoc S3LI03\_112r2**.

### 13.2.2 Change Request – CS section – LI Management Operation

**tdoc S3LI03\_113** was presented by Marcus Lutz of Alcatel this was an update of **tdoc S3LI03\_98** from the Jackson Hole meeting. The concept was accepted and it was investigated on whether the section can also be imported from 201 671. The document will be reissued as **tdoc S3LI03\_113r1**.

**tdoc S3LI03\_113r1** was later reviewed and accepted as further modified and will be reissued as **tdoc S3LI03\_113r2**

### 13.2.3 Change Request –Reporting SIP URL and TEL URL

**tdoc S3LI03\_120r1** was introduced by Giorgi Gulbani of Nokia and is a CR for 33.108 section 7.2 and is a similar amendment as at 12.2.1 with additional amendments to annex B3 This was agreed after some editorial changes and will be reissued as **tdoc S3LI03\_120r2**.

**tdoc S3LI03\_125** was introduced by Maurizio Iovieno and is a CR on 33.108 to align the LI identifiers length following the revision of ETSI TS 101 671. After further amendments this was reissued as **tdoc S3LI03\_125r1**.

Discussion on PTT ( press-to-talk – one2one or one2many ), MBMS (multi broadcast multimedia services), Transcoder Free (end to end 64 kbs encoded voice) and WLAN intercept. Are they applications on top of what we already have in 33.108?

For Transcoder Free, basic principles should be modified to say that LE may request offline from the operator a list of codecs supported by the network for transcoder free operation. There will be further discussion on where this wording is appropriate in the suite of our documents (e.g., 33.106).



PTT is an application with the IRI and CC available at the SGSN/GGSN IAPs.

For MBMS Bernhard reported that nothing has been done for LI so far for broadcast services and they may be deferred to r7. Real time will be for r7 and downloading for r6. Bernhard Spalt will provide the SA1 service spec as background for discussion at the next meeting

**Action Point: AP03\_15** Bernhard Spalt to find the MBMS document from SA1 for the next meeting

## 14. Continued Discussion and New Business

### 14.1.1 Work Item

**tdoc S3LI03\_118** was introduced by Koen Jaspers of PIDS and refers to **tdoc S3LI03\_025** which is the work item list for release 6. He suggested that the scope be extended but the general thinking was to address only the 3GPP network elements rather than the applications. It was felt that this should also be viewed in association with MBMS, WLAN, etc. and that the proposal should be brought back to the next meeting.

## 15. Review meeting output

**tdoc S3LI03\_124** was introduced by Alex Leadbeater of BT and is an LS to SA3 and SA2 in response to the scenarios outlined in their WLAN papers S3-030557 and S3-030550. During this discussion document TS 23.234 v2.0.0 on WLAN interworking was produced for illustration. This was discussed in the context of encryption where the WLAN and PDG are in different countries. It was agreed that the concern of the LI group should be conveyed to SA3/SA2. After modification this was reissued as **tdoc S3LI03\_124r1**.

## 16. Discuss January meeting agenda, work plan

The Chair proposed the following work –

- that the Group should review 33.107 and 33.108 to validate them before release 6 closes.
- review the New Items file. Bernhard Spalt will send a reading list for MBMS and WLAN.
- it is hoped that the Application Notes will be forwarded before the meeting for discussion.

## 17. Review Action Points

See Annex B for new Action Points

## **18. Other business**

### **18.1 Meeting dates and venues for 2004.**

It was noted that the January meeting will be the week after the next T1P1 meeting which will also meet in Florida.

27-29 Jan in Miami hosted by FBI.

14-16 April in Italy hosted by European friends of 3GPP (to be confirmed)

19-20 July joint meeting with ETSI TC LI venue tba hosted by EF3

12-14 October in USA hosted by US friends of 3GPP.

### **18.2 Joint location with TIA LAES and T1 T1P1.5**

There was a discussion on the proposed joint meetings with T1 T1P1.5 and TIA TR45 LAES. The FBI said that they do not oppose joint meetings with T1 T1P1.5 and ETSI LI but they oppose joint meetings with TR45 LAES as they do not see any work overlap between TIA TR45 LAES and 3GPP SA3-LI – nor do they see any impact on the international work. They believe that there is sufficient interaction already between the two groups. The other view was that it would be beneficial for industry and law enforcement to harmonize on the lawful intercept work similar to the harmonization work being done between 3GPP and 3GPP2. After some discussion it was decided not to progress the idea of joint meetings with TIA TR45 LAES at this time.

### **18.3 Election for LI Chair at next meeting**

Election for 3GPP LI chair. Election will be in January 2004 with candidatures submitted by 19 January. Brye Bonner said that Motorola will support her for a second term and that she will stand for election.

## **19. Close of meeting**

The Chair, Brye Bonner, thanked the delegates for their work and thanked Charles Brookson, on behalf of the UK DTI for making the meeting possible.

### **Working procedures**

Contributors are encouraged to perform the following when issuing contributions for an upcoming meeting.

1. Request TDOC number.
2. Distribute contribution via email to LI group members.
3. Send contribution to Maurice to upload.

It is requested that all contributions be upload no later than Tuesday before the meeting. Contributions brought into the meeting or distributed/uploaded later than Tuesday will be discussed at the end of the meeting if time is available. The meeting schedule will not be changed to accommodate late contributions.

For the next meeting the cut off date for contributions to be distributed and uploaded is January 20.

## Annex A: List of attendees

Name			Company	e-mail
Mr	Peter	Arend vd	KPN	<a href="mailto:p.c.j.vanderarend@kpn.com">p.c.j.vanderarend@kpn.com</a>
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Ms	Brye	Bonner	Motorola	<a href="mailto:brye.bonner@motorola.com">brye.bonner@motorola.com</a>
Mr	Stefan	Bjornson	By invitation of the chair	<a href="mailto:stefan.bjornson@telia.com">stefan.bjornson@telia.com</a>
Mr	Charles	Brookson	DTI	<a href="mailto:cbrookson@iee.org">cbrookson@iee.org</a>
Mr	Ken	Coon	Tridea Works/CIU	<a href="mailto:kcoon@askcalea.net">kcoon@askcalea.net</a>
Mr	Erwin	Foerster	Deutsche Telecom AG	<a href="mailto:erwin.foerster@t-systems.com">erwin.foerster@t-systems.com</a>
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Mr	Michael	Schepers	Vodafone D2 GmbH	<a href="mailto:michael.schepers@vodafone.com">michael.schepers@vodafone.com</a>
Mr	Mark	Shepherd	Home Office, UK	<a href="mailto:mark.shepherd@homeoffice.gsi">mark.shepherd@homeoffice.gsi</a>
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Mr	Rupert	Thorogood	Home Office	<a href="mailto:rupert.thorogood@homeoffice.gsi.gov.uk">rupert.thorogood@homeoffice.gsi.gov.uk</a>
Mr	Berthold	Wilhelm	BMW	<a href="mailto:berthold.wilhelm@regtp.de">berthold.wilhelm@regtp.de</a>

## Annex B: List of Action Items

<u>AP03_01</u>	Koen Jaspers	Contribution on alarm and information messages	Closed
<u>AP03_02</u>	Ron Ryan	To amend abbreviations for NOs ANs and APs in R6.	Closed
<u>AP03_03</u>	Giorgi Gulbani	To write a LS to TC LI in response to tdoc 058 as tdoc 073	Closed
<u>AP03_04</u>	Chair	To write to TC LI regarding joint meeting	Closed
<u>AP03_05</u>	Chair	To amend Release 6 in accordance with S3LI03_049	
<u>AP03_06</u>	Maurice Pope	To amend Release 6 in accordance with tdoc S3LI03_049	Closed
<u>AP03_07</u>	Chair	Advise SA3 on the use of the term ANP in SA3LI	Closed
<u>AP03_08</u>	Chair	To work on code of conduct for meeting and circulate by e-mail	Closed
<u>AP03_09</u>	Maurizio Ioviono	To consider a paragraph for 33.106 for the use of target identities in the PS domain.	Closed
<u>AP03_10</u>	Chair	To open and maintain a file for ideas for regular review	Closed
<u>AP03_11</u>	Wilhelm Berthold	To amend the incorrect reference to TS101 331 in 33.107 release 6	
<u>AP03_12</u>	Chair	To send new acronym ANP to Maurice Pope	
<u>AP03_13</u>	Alex Leadbeater	To inform SA3 of LI's approving items 8.2.1 and 8.2.2	
<u>AP03_14</u>	Bernhard Spalt	To create a new CE to add a section to the scope to 33.106 as <b>S3LI03_123</b>	
<u>AP03_15</u>	Bernhard Spalt	To find the MBMS document from SA1 for next meeting	

## Annex C: List of Documents

TD # S3LI03	Title	Source	Meeting	Doc for	Comments	Status
111r1	Draft Meeting report from Jackson Hole	Secretariat	2003-11	approval	r2	approved
110	Draft Agenda	Chair	2003-11	approval		approved
112	Change Request – CS section – User data packet transfer	Alcatel	2003-11	approval	r2	approved
113	Change Request – CS section – LI Management Operation	Alcatel	2003-11	approval	r2	approved
114	SA WG3 Report	Rapporteur	2003-11	information		noted
115	UE-initiated Tunneling with IKEv2	SA3	2003-11	discussion		noted
116	Evaluation of alternatives for secure set-up of UE initiated tunnels	SA3	2003-11	discussion		noted
117	ETSI TC LI	Rapporteur	2003-11	information		noted
118	Work Item	PIDS	2003-11	information		discussed
119	Change Request – Reporting SIP URL	Nokia	2003-11	approval	r1	approved

TD # S3LI03	Title	Source	Meeting	Doc for	Comments	Status
120r1	Change Request – Reporting SIP URL and TEL URL	Nokia	2003-11	approval	r2	approved
121	T1P1.5 documents	Rapporteur	2003-11	information		noted
122	TIA LAES report	Rapporteur	2003-11	information		noted
123	CR 33.106 references	Siemens	2003-11	approval		approved
124	LS WLAN LI Requirements	BT Group	2003-11	approval	r1	approved
125	CR 33.108 - Aligment of Lawful Interception identifiers length to ETSI TS 101 671	Ericsson	2003-11	approval	r1	approved
126	LS from CN2 - on Legal Interception of SCP initiated calls	SA3/CN2	2003-11	discussion		discussed
127	Liaison – invitation to CN2 to attend our SA3 LI meeting.	Chair	2002-11	discussion	Email approval	
	Meeting Report from London	Secretariat	2002-11	approve		

## Annex D List of Change Requests

112r2	CR for 33.108 CS section – User data packet transfer
113r2	CR for 33.108 CS section – LI Management Operation
119r1	CR for 33.107 Reporting SIP URL
120r2	CR for 33.108 Reporting SIP URL and TEL URL
123r1	CR for 33.106 References and Scope
125r1	CR for 33.108 Aligment of Lawful Interception identifiers length to ETSI TS 101 671

## Annex E List of Liaison Statements

124r1	LS to SA3 LS WLAN LI Requirements.doc
127	LS to CN2 on invitation to SA3-LI meeting

## Annex F: List of related GSM specifications

### GSM specifications:

GSM 01.33: Lawful Interception requirements for GSM version 8.0.0	<u>rapporteur</u> Brye Bonner (Motorola)
GSM 02.33: Lawful Interception - stage 1 version 8.0.0	Brye Bonner (Motorola)
GSM 03.33: Lawful Interception - stage 2 version 8.0.0	Brye Bonner (Motorola)

