

3GPP TSG-SA WG3-LI Meeting #35
Scottsdale, AZ,USA 03-05 Nov. 2009

SA3LI09_081r1

3GPP TSG-SA WG3-LI Meeting #34
Berlin, Germany, 14-16 July, 2009

SA3LI09_074

Meeting Report of 3GPP SA3 LI#34

Berlin

14-16 July 2009

Management Team:

Chairman:

Bernhard Spalt

Siemens

Vice Chairman:

Alex Leadbeater

BT

Meeting Secretary:

Ian Cooper

NTAC

List of participants:

see annex A

List of action points:

see annex B

1 Welcome

The Chairman welcomed delegates to Berlin and thanked Gerd Steinrucke for the meeting arrangements.

He noted there were a number of open topics and a Work Item for Release 9 to agree.

2 Apologies

Apologies were received from Walter Marxt.

3 Approval of Agenda

SA3LI09_050r2

This was accepted.

The Chairman noted that topics may not be handled according to the sequence within the Agenda for the following reasons:

:

- CR's on one topic for several specifications
- Give delegates the change to update / draft Tdoc's for the next day
- Availability of necessary/interested delegates

3.1 Code of Conduct:

When attending a 3GPP SA3 LI meeting it is expected that each delegate will give the utmost respect to other delegate's personal and company possessions. A delegate must not attempt to invade other delegate's computers or read their papers without explicit permission.

Anyone found violating this trust will be asked to remove himself or herself from the meeting. The offending person will not be welcomed at future meetings and SA3 LI will request the company send another delegate.

For your information, a method of protecting your computer from piracy may be found at:

<http://www.Brookson.com/gsm/howto.htm>

3.2 IPR Call Reminder

The Chairman **reminded** delegates of their company's obligations under their SDO's IPR policies:

The attention of the delegates to the meeting of this Technical Specification Group was drawn to the fact that 3GPP Individual Members have the obligation under the IPR Policies of their respective Organizational Partners to inform their respective Organizational Partners of Essential IPRs they become aware of.

The delegates were asked to take note that they were thereby invited:

- to investigate whether their organization or any other organization owns IPRs which were, or were likely to become Essential in respect of the work of 3GPP.
- to notify their respective Organizational Partners of all potential IPRs, e.g., for ETSI, by means of the IPR Statement and the Licensing declaration forms (<http://webapp.etsi.org/lpr/>).

There were no IPR calls from meeting delegates.

4 Approval of last meeting report San Francisco SA3LI09_053r1

This was agreed.

4.1 Review Action Points

Nu	Name	Action Item	Status
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AP 07- 07	Bernhard, Jean T and Alex	Investigate VCC correlation using call id and p-charging vectors	Ongoing- proposal is to use this method but detail needed – to be included in WI for Rel-9
AP 08- 02	All	Monitor the CAT progress for LI impact (TR 23.872)	Ongoing (CAT deferred to Rel-9) – see 11.2 and AP09- 03
AP 08- 05	All	Propose solutions for call forwarding	Ongoing
AP 09- 01	Alex Leadbeater and George Babut	Draft Femtocell issues paper	Ongoing (note: LS <u>SA3LI09_03</u> <u>6</u> on Home(e)N ode B is relevant)
AP 09- 02	All	Review TR/TS 33.828	Ongoing (BT's Tdoc SA3LI09_06 9 later refers)

5 Reports of other bodies which are relevant to SA3-LI

5.1 SA

At the SA#44 plenary all CRs from the last meeting in San Francisco were approved resulting in the following latest versions of the stage 2 and stage 3 documents:

SA3LI09_062 LI WID for Rel 9

Chairman

The Chairman presented a draft WID for Rel 9 and asked the meeting for additional suggestions. Gabor Ungvari proposed the inclusion of LCLS. George Babut said that Rel 9 has added a more effective means of delivering services and content and suggested the WID should embrace this eg how to deal with eMBMS with guidance for operators. There was a discussion about including Dynamic Triggering as a possible solution to some of the problems and it was agreed that this should be investigated.

The WID was agreed as **SA3LI09_062r2**.

5.2 SA WG3

Berthold Wilhelm reported that there had been two meetings in Shanghai and Seattle. Alex Leadbeater had taken an action to provide input to SA3LI regarding IMS media plane security and this is his Tdoc 069 taken at agenda point 11.1 of this meeting. It addresses TR 33.828. Stage 2 for Rel 9 has been frozen as will Stage 3 at the end of the calendar year.

Berthold noted that he will be retiring soon. His last SA3 LI meeting will be in November, after which Alex Leadbeater will take over as liaison officer for SA3.

5.3 ETSI TC LI

SA3LI09_052 Liaison report from TC LI to SA3 LI

LO ETSI TC LI

Peter van der Arend gave his report concentrating on items of particular interest to SA3 LI. He described the progress on Dynamic Triggering which is taken fully at agenda item 12.1

In the past TS 101 671 has been updated in line with 3GPP LI specifications and the question was raised whether this should be done for Rel 8. The suggestion from Maurizio Iovieno was that full details for EPS should not be included but that references be made to TS 33 108. Peter van der Arend agreed to make a suitable CR for the ETSI TC LI meeting in Trouville.

5.4 TISPAN WG 7

There was no formal report but the Chairman noted that TISPAN has agreed an LI specification for Rel 2 which includes an annex with SA3 LI material. He added that TISPAN LI work may move to ETSI TC LI.

5.5 WTSC-LI

Peter Musgrove said there had only been one conference call on the topic of PoC which is making slow progress. There was a meeting of the group next week and he will report progress at the next SA3 LI gathering.

5.6 ATIS PTSC LAES

Ron Ryan provided this report:

The subcommittee progressed work on the following projects:

- a. Technical Report on LAES for Next Generation Networks. The project continues to move slowly due to higher priority projects. The target completion date has been moved to the end of 2009.
- b. Technical Report on LAES for Advanced Conferencing Services. The report has matured and expectations are it will go to ballot in August 2009.
- c. Technical Report – A User Guide for ATIS-100013.2007 LAES for Internet Access and Services (IAS). The report has matured and expectations are it will go to ballot in August 2009.
- d. Supplement B to ATIS-1000678.2006 LAES for VoIP. The supplement has matured and expectations are it will go to ballot in August 2009.

5.7 TIA TR-45.8 LIG

Ron Ryan reported that the focus group progressed work on the following projects:

a. Study of DoJ's J-STD-025-B LAES for cdma2000 Packet Data deficiency petition. The report was completed and sent to TIA TR-45. TR-45 subsequently sent the report to ATIS.

b. Femtocell LAES Reporting. At the request of TR-45.8, the LIG is studying Femtocells with cdma2000 to determine if a project is needed for Femtocell LAES reporting.

5.8 Other bodies

The Chairman invited Government representatives for a summary of developments in their respective countries.

Koen Jaspers said that in The Netherlands the Data Retention period has been agreed as one year for both circuit switched and internet services.

Ian Cooper said that a Home Office public consultation in the UK concerning the retention of data in a changing communications environment is coming to an end. Responses will be evaluated which may lead to a change in the law.

In Germany, Gerd Steinrücke said there is a new directive for Retained Data which is out for review.

In Austria the Chairman noted that there is some movement in introducing national law to underpin the EU DRD.

Pierre Courbon mentioned that there were no change in the regulation or law regarding to LI and DR in France."

Peter van der Arend said that the 14th GSC (Global Standards Collaboration) was being held this week in Geneva.

6 Incoming liaisons

This was the reply to an outgoing LS to GERAN2 from SA3 LI stating the need for core network LI in any proposed changes. In the reply, GERAN2 proposed two possible solutions and asked for feedback. To assist the meeting in its deliberation, Gabor Ungvari tabled the following document:

SA3LI09_060 LCLS Discussion Paper

NSN

In this Gabor analyses the two possible solutions. The first would involve an additional delay for a target under interception which could be hundreds of milliseconds with certain topologies. This would rule the option out as a general solution unless a particular country accepted it. The second solution requires new BSS functionality and would appear to be the best choice although George Babut pointed out that operators would not be keen to update all their BSS's. Maurizio Iovieno said that further changes to the core network could impact the solution and we should ask to be informed of developments in the reply LS.

The Chairman asked Gabor Ungvari to prepare an outgoing LS in response. After discussion this was agreed as **SA3LI09_072r1**.

SA3LI09_071 LS from SA and draft WID for Local IP Access and Internet Offload (LIPA) (SA2 lead)

The Chairman said that this LS and draft WID gave a hint to SA3 LI for the consideration of LI requirements for LIPA which is a proposed Rel 10 feature. This will be addressed when Rel 10 LI work is undertaken.

7 GSM LI documents

The Chairman said that the following historic GSM documents are still under the control of SA3 LI:

7.1 3GPP TR 41.033 V8.0.0 (2008-12) old 01.33

3rd Generation Partnership Project;
Technical Specification Group Services and System Aspects;
Digital cellular telecommunications system (Phase 2+);
Lawful Interception requirements for GSM
(Release 8)

7.2 3GPP TS 42.033 V8.0.0 (2008-12) old 02.33

3rd Generation Partnership Project;
Technical Specification Group Services and System Aspects;
Digital cellular telecommunications system (Phase 2+);
Lawful Interception - stage 1
(Release 8)

7.3 3GPP TS 43.033 V8.0.0 (2008-12) old 03.33

3rd Generation Partnership Project;
Technical Specification Group Services and System Aspects;
3G Security;
Lawful Interception;
Stage 2
(Release 8)

8 TS 33.106 Rel. 7 and Rel. 8

8.1 Release 7 33.106v7.0.1

No input

8.2 Release 8 33.106v8.1.0

No input

9 TS 33.107 Rel. 7 and Rel. 8

9.1. Release 7 33.107v7.7.0

No input

9.2. Release 8 33.107v8.8.0

**SA3LI09_054 Correction on identities and parameters for LI in case of E-UTRAN
access and PMIP based S5/S8 Ericsson**

This was presented by Maurizio Iovieno and after a minor comment was agreed as
SA3LI09_054r1.

SA3LI09_055 Correction on Serving Evolved Packet System event Ericsson

This was agreed as **SA3LI09_055r1** after a small change to the text.

10 TS 33.108 Rel. 7 and Rel. 8

10.1 Release 7 33.108v7.9.0

No input

10.2 Release 8 33.108v8.7.0

SA3LI09_056 Correction on identities and parameters for LI in case of E-UTRAN access and PMIP based S5/S8 Ericsson

This is the companion to Tdoc54 for Stage 3 and was agreed with no change.

SA3LI09_057 Correction on Serving Evolved Packet System event Ericsson

Peter van der Arend questioned the removal of tag 40 in the ASN.1, possibly causing confusion for implementers. Maurizio reinstated the tag with the comment that it was only for backward compatibility. The CR was then agreed as **SA3LI09_057r1**.

SA3LI09_058 Correction on the use of initiator in ASN.1 Ericsson

Agreed.

SA3LI09_059 Missing parameters for MME interception in the ASN.1 module Ericsson

Agreed.

SA3LI09_061 CR 33 108 Rel 9 FTP table details Siemens, BMWi

After a minor editorial, this was agreed as **SA3LI09_061r1**. It had been agreed previously at ETSI TC LI #21.

11 Relevant standards for consideration

11.1 IMS media plane security

SA3LI09_064r1 TR 33.828 v1.4.1 IMS media plane security SA3

This Tdoc is the latest version of SA3's TR on media plane security.

SA3LI09_069 IMS media security BT

In this document, Alex Leadbeater led SA3 LI through the essential aspects of TR 33.828 as far as LI implications are concerned. Five candidate solutions for providing media security were presented and the meeting discussed these at length.

George Babut said that SA3 had done a lot of work in writing the TR and SA3 LI should indicate its preference to certain approaches. A fundamental premise is that underlying IMS security mechanisms should not be weakened by LI requirements.

The Chairman brought up the issue of delivery of encrypted media along with keys. Government representatives said that the first choice would always be for delivery of decrypted media but that if this was not possible the handing over of all the information eg keys required for decryption would be acceptable. The Chairman noted that this may not be permitted in some countries. Maurizio Iovieno said it

would not be possible to decrypt in the core network but it may be possible to do so in the LI domain.

After consideration of the five possible solutions, TBS and SDES appeared the most satisfactory from an LI point of view. The Chairman asked Alex Leadbeater to feedback to SA3 the meeting's views in a Liaison Statement **SA3LI09_073r1**. This noted that the topic is still under discussion in SA3 LI and further guidance is expected for SA3 before SA3#57 in November. The Chairman said he may organise a conference call or start an email discussion in order to provide more feedback for SA3.

11.2 Customised Alerting Tones (CAT)

SA3LI09_065 TR 23.872 v8.0.0 Customised Alerting Tones (CAT) SA2

The Chairman said he would like to have a discussion -at the next meeting on this topic and asked Koen Jaspers and Jean Trakinat to prepare a requirements document for this service

AP09-03	Prepare LEA requirements for CAT service	Koen Jaspers and Jean Trakinat
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11.3 Femtocell / Home NodeB

SA3LI09_066 TS 22.220 V9.1.1 Service requirements for Home NodeBs and Home eNodeBs SA1

SA3LI09_066 TR 23.830 V0.5.0 Architecture aspects off Home NodeB and Home eNodeB SA2

The Chairman asked for views on the way forward for this topic. Ron Ryan said that his TIA group had asked for a statement of the base architecture and a set of use cases and requirements. The CIU in the US is preparing this.

The Chairman wished to keep it as an agenda topic to be reopened when the appropriate information is presented although he feels the main thrust is LIPA (see LS in 6)

11.4 IMS Services in local breakout and optimal routing of media

SA3LI09_068 TR 23.894 V1.1.1 System enhancements for the use of IMS services in local breakout and optimal routing of media (Rel 9) SA2

The Chairman brought this TR from SA2 to the meeting's attention. He said it was similar to LCLS in that currently when roaming all media streams are routed to the home network but this may be avoided if the work comes to fruition. He noted that it is still a study with no date for the TS as yet. As such it is lower priority to SA3 LI than home NodeB.

12 Continued Discussion and New Business

12.1 Common IMS

In order to structure a discussion on dynamic triggering, with requirements and legal considerations, the Chairman posed the following set of scenarios:

1. LI could be activated within one domain within one country (standard)
2. LI could be activated within one domain (don't care about national borders)
3. LI could be activated within one country, domain / operator borders don't matter
4. LI could be activated at 'any' access server - no domain or border restriction

SA3LI09_063 DTS 102 677 V0.1.0 Dynamic Triggering CC Interception TC LI#21

Alex Leadbeater presented the latest draft of his Dynamic Triggering work from the recent ETSI TC LI#21. He noted that the document is technology agnostic and may be adapted by other groups such as SA3 LI. The architecture shows logical functions with no physical significance and points of interception are not specified.

There was discussion regarding the role of the TTP function in figure 4.3. George Babut expressed the view that it should not be operated by a broker "for profit" but he would be happy with a government organisation. Peter Musgrove was not sure if that could be enforced in a standard but it could be a national option. Alex Leadbeater said it would be possible to add some text as a note explaining TTP options.

George Babut had some concern about identities as local **IPip** breakout is not addressed by Dynamic Triggering. He offered to bring a contribution to the next meeting.

So that IMS security is not compromised, Alex Leadbeater said he would look to SA3 for advice. The basic premise is that IMS does not trust underlying networks.

SA3LI09_051 External Dynamic Triggering Capability

Nortel Networks

In this discussion paper, Ron Ryan presented an alternative approach to Dynamic Triggering. In this the REG function does correlation, isolating the two networks involves as far as knowledge of interception goes. The HI1 interface is used by external operators to effect triggering. Alex Leadbeater asked if he would propose a standardized HI1 interface with the necessary security and carrying all the information needed. He would.

The Chairman summed up by saying that for some scenarios this approach converged with that of Alex Leadbeater. He asked Ron to continue making contributions to further the development of Dynamic Triggering.

13 Review meeting output / agreed

The following documents were agreed as CRs:

SA3LI09_054r1
SA3LI09_055r1
SA3LI09_056
SA3LI09_057r1
SA3LI09_058
SA3LI09_059
SA3LI09_061r1

WID:

SA3LI09_062r2

14 Outgoing Liaisons

SA3LI09_072r1

SA3LI09_073r1

15 Meeting dates and venue for next meeting

Organization	Date	Venue	Host	Notes
PTSC LAES	Aug 17-21	Cambridge, MA		
SA#45	21-24 Sep '09	Seville, Spain		
TR-45.8 and LIG	September 21-25	Hollywood, CA		
TC LI#22	22-24 Sep 2009	Trouville (FR)	Min de l'Interieur	
WTSC LI	Oct 5-9			
SA 3 LI#35	3. – 5. Nov.'09	Scottsdale, AZ		
SA3 #57	16-20 Nov '09			
PTSC LAES	Nov 30-Dec 4			
SA#46	07-10 Dec '09			
TR-45.8 and LIG	Dec 7-11	Maui, HI		

Organization	Date	Venue	Host	Notes
SA 3 LI # 36	26. – 28. Jan '10	Sophia		
SA3 #58	1 – 5 Feb '10			
TC LI#23	Feb. '10	Rome		
SA#47	22-25 Mar '10	Vienna		
SA3 #59	26-30 April '10	EU		
SA 3 LI #37	4. – 6. May '10	USA ?		
SA#48	07-10 Jun '10			
TC LI#24	June '10	Germany		
SA3 #60	28 Jun-02 Jul '10			
SA 3 LI#38	7.- 9. Sep. '10	Tallinn		fixed
TC LI#25	Sep. '10			
SA#49	20-23 Sep '10			

Annex A List of participants

Name	Role	Organization
Aslan, Niyazi	Attendee	BMW
Babut, George	Attendee	Rogers Wireless Inc.
Cooper, Ian	SECRETARY	National Technical Assistance
Courbon, Pierre	Attendee	MEIE-France
Iovieno, Maurizio	Attendee	Telefon AB LM Ericsson
Jacobson, Terry	Attendee	Alcatel-Lucent
Jaspers, Koen	Attendee	PIDS
Kässens, Martin	Attendee	T-MOBILE DEUTSCHLAND
Knab, Klaus	Attendee	BMW
Leadbeater, Alex	Attendee	BT Group Plc
Musgrove, Peter	Attendee	AT&T
Ryan, Ronald D. (Ron)	Attendee	Nortel Networks (USA)
Spalt, Bernhard	Chairman	Siemens AG
Steinrücke, Gerd	Attendee	BfV
Trakinat, Jean	Attendee	TPS
Ungvári, Gábor	Attendee	Nokia Siemens Networks
van der Arend, Peter	Liaison Off	VODAFONE Group Plc
Wilhelm, Berthold	Attendee	BMW

Annex B List of actions

Number	Name	Action Item	Status
AP 07- 07	Bernhard, Jean T and Alex	Investigate VCC correlation using call id and p-charging vectors	Ongoing- proposal is to use this method but detail needed. Included in WID for Rel 9
AP 08- 02	All	Monitor the CAT progress for LI impact (TR 23.872)	Ongoing (CAT deferred to Rel-9) see

			11.2 and AP09-03
AP 08-05	All	Propose solutions for call forwarding	Ongoing
AP 09-01	Alex Leadbeater and George Babut	Draft Femtocell issues paper	Ongoing (note: LS SA3LI09_03_6 on Home(e)Node B is relevant)
AP 09-02	All	Review TR/TS 33.828	Ongoing (BT's Tdoc SA3LI09_06_9 later refers)
AP 09-03	Koen Jaspers Jean Trakinat	Prepare LEA requirements for CAT service	New