

3GPP TSG SA WG3 Security — S3#32
09 - 13 February 2004
Edinburgh, Scotland, UK

S3-040002

3GPP TSG SA WG3 (Security) meeting #31
18-21 November 2003, Munich, Germany

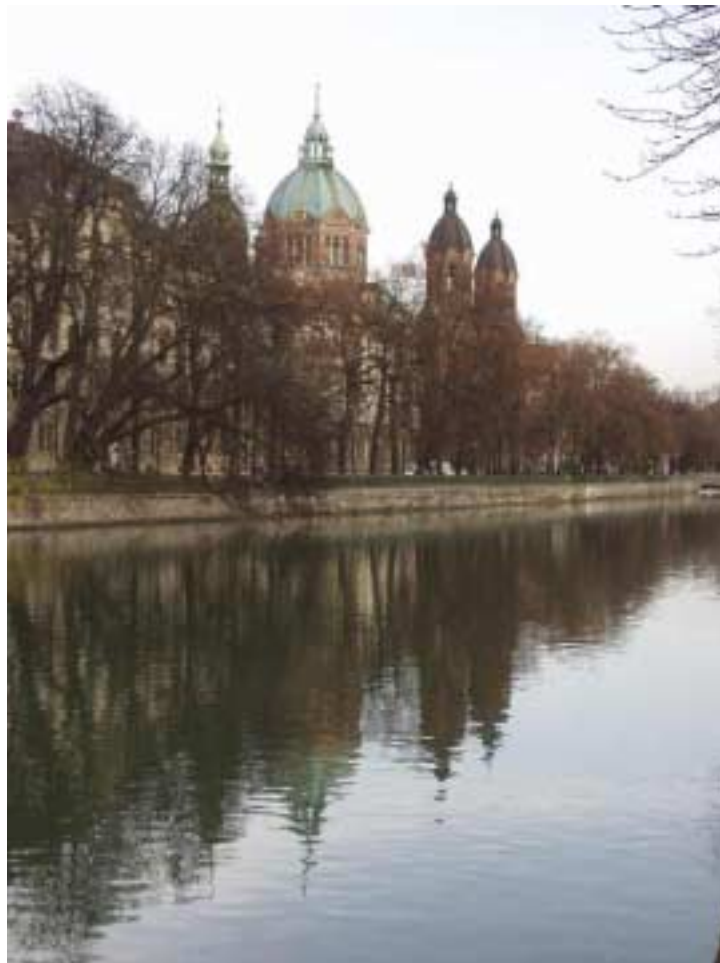
Draft Report

Source: Secretary of SA WG3 (M. Pope, MCC)

Title: Draft report of SA WG3 meeting #31

Status: Version 0.0.6 (with revision marks)

For: Approval



River Isar from Volksbad, Munich, Germany

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1 Opening of the meeting

The SA WG3 Chairman, Mr. V. Niemi, opened the meeting and Welcomed delegates to Munich on behalf of the European Friends of 3GPP (EF3). The meeting was hosted in the Siemens Conference Centre. G. Horn, Siemens welcomed delegates to the Conference Centre and informed them of the domestic arrangements for the meeting.

2 Agreement of the agenda and meeting objectives

[TD TD S3-030655](#): Draft agenda for SA WG3 meeting #31. Draft Agenda for SA WG3 meeting #31. This was introduced by the SA WG3 Chairman.

Objectives:

Technical items in Agenda Item 6 will be taken in reverse order, i.e. starting with 6.22, 6.21, 6.20, etc. It was also agreed that GAA should be taken before Presence for practical reasons (i.e. 6.9 followed by 6.18). The priority for the meeting was to get all draft TSs and TRs in form ready for presentation to TSG SA for information in the December TSG Plenary.

The agenda was then **approved**.

2.1 3GPP IPR Declaration

The Chairman made the following call for IPRs, and asked ETSI members to check the latest version of ETSI's policy available on the web server:

The attention of the members of this Technical Specification Group is 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 members take note that they are hereby invited:

- to investigate in their company whether their company does own IPRs which are, or are likely to become Essential in respect of the work of the Technical Specification Group.
- to notify the Director-General, or the Chairman of their **respective** Organizational Partners, of all potential IPRs that their company may own, by means of the IPR Statement and the Licensing declaration forms (e.g. see the ETSI IPR forms <http://webapp.etsi.org/lpr/>).

3 Assignment of input documents

The available documents were allocated to their relevant agenda items.

4 Meeting reports

4.1 Approval of the report of SA3#30, Povia de Varzim, 6-10 October, 2003

[TD S3-030656](#): Draft Report of SA WG3 meeting #30. The draft report was reviewed on-line and comments provided.

Actions from the meeting:

AP 30/01: Eric Gauthier (Orange, Switzerland) to lead an e-mail discussion on GPRS over-billing. Discussion started. Proposal that GPRS over-billing issues can be overcome when GPRS contexts are initiated by the network (pushed). SA WG2 are considering this proposal. Another Proposal to look at the problem in a general way and other scenarios were requested from Members and the possible (maybe partial) standardisation of the Firewall interfaces is being considered. For Firewall companies, their advice is being asked and they can either become 3GPP Members or Eric will act as a proxy between their views and bringing them to SA WG3 for consideration. **Information on this will be sent to the SA WG3 e-mail list.** SA WG2 work results need to be considered before deciding on the final way forward. It was agreed to hold an evening session on this issue lead by E. Gauthier. This was then **completed**.

AP 31/01: B. Sahlin to send IETF firewall-standardisation information to the e-mail list.

AP 30/02: M. Blommaert to check with authors of TD S3-030499 whether the quote on SIM is their understanding or an editorial error in the LS. It was reported that this was an editorial error in Release 1999 which had already been corrected in Rel-5. **Completed**.

AP 30/03: M. Pauliac to run an e-mail discussion on the SSC Informative Annex on Key Pair Storage. 2 weeks for comments, 1 further week to check the implementation in the draft TS to be used for any Pseudo-CRs at the next meeting. **Completed**. Document provided to this meeting.

AP 30/04: B. Wilhelm to ask LI group to investigate the LI impacts of the tunnelling solution for WLAN interworking. **Ongoing**. e-mail discussion initiated. Discussion expected in the parallel LI meeting in London.

AP 31/02: B. Owen to contact SA WG3 LI group for results of LI impact of tunnelling solution for WLAN during the meeting.

AP 30/05: B Owen to respond to LSs on GUP from meeting #29, informing the senders that there are still open issues in SA WG3. **Completed**. e-mail sent to contact persons.

AP 30/06: J. Abellan to draft an LS reply to TD S3-030511 for e-mail approval. Drafting by 14 October, Comments by 20 October and Approval 23 October 2003. **Completed**.

AP 30/07: Rapporteurs of SA WG3 Work Items to provide the SA WG3 Secretary with updates to the Work Plan by 24 October 2003. **Completed**. Rapporteurs were asked to make more effort to provide updates to the Work Plan.

The updated report was then **approved** and will be placed on the FTP server as version 1.0.0.

Secretary's note: The Attendees list and Voting list will be updated and verified before placing version 1.0.0 on the FTP server.

TD S3-030657: Draft Report of Joint SA WG3 / CN WG1 session 7 October 2003. The draft report was reviewed on-line and was **endorsed** without change.

5 Reports and Liaisons from other groups

5.1 3GPP working groups

TD S3-030671: LS on security of the Diameter protocol for the Gq interface. This was introduced by France Telecom and asked SA WG3 to give guidance on the following security issues with the Diameter protocol:

- *requirement of end-to-end security if the third party AF is located within an un-trusted domain;*
- *use of the Diameter CMS Security Application draft for end-to-end security and availability of the RFC in the Release 6 timeframe.*

A related LS had been sent to SA WG2 in S3-030444 and it was agreed to provide a new LS to CN WG3, copied to SA WG2 attaching the LS and adding the clarification that if NDS/IP is used, then there cannot be any un-trusted proxies in the link in order to preserve security. It was also noted that the IETF document is not in the Rel-6 dependency list. This LS was drafted in [TD S3-030765](#) and reviewed. It was modified slightly in [TD S3-030810](#) and **approved**.

TD S3-030680: LS (from SA WG1) on Privacy and Security Requirements within GSM/UMTS Devices. This was introduced by Vodafone and asked SA WG3 to investigate how unauthorised access shall be prevented to user and network operator confidential information in GSM and UMTS devices and that SA WG1 would also welcome SA WG3's recommendations for any new Stage 1 requirements that are identified during the investigation. SA WG3 considered that the solutions should be done in other bodies than 3GPP (e.g. JAVA community), whereas the need to provide some high-level requirements should be investigated and decided by SA WG1. An LS response was drafted in [TD S3-030766](#) which was modified slightly in [TD S3-030809](#) and **approved**.

TD S3-030687: CR to 33.108: CS Section for 33.108 – User data packet transfer (Rel-6). This was for discussion and finalisation in the parallel LI Group meeting and will be provided to SA WG3 for e-mail approval when agreed by the LI Group. The CR was **noted** at this time.

TD S3-030688: CR to 33.108: CS Section for 33.108 – LI Management Operation (Rel-6). This was for discussion and finalisation in the parallel LI Group meeting and will be provided to SA WG3 for e-mail approval when agreed by the LI Group. The CR was **noted** at this time.

5.2 IETF

There were no specific contributions under this agenda item.

5.3 ETSI SAGE

Per Christoffersson reported on issues raised within SAGE:

SAGE had an action on the suitability of reducing the Randomness of RAND from 128 to 80 bits in order to use the special-RAND was discussed and investigated by SAGE and it was concluded that this was acceptable. It was further reported that the conclusions allowed a reduction down to 64 bits as a minimum for RAND.

A5/3 - CC, EDGE and GEA3 variations. Difference is bit-pattern. Shall stay with same inputs for A5/4 or produce 3 new inputs? - SAGE require more time to investigate and SAGE therefore asked for a delay of another meeting before submission to SA WG3.

5.4 GSMA SG

~~A verbal report was provided by E. Gaultier : IMEI Integrity – Has become a priority WI for the GSM SG and a document defining the sets of Sec Requirements is being developed, which will be sent out to manufactures soon.~~

GSMA SG report and LS:

TD S3-030682: LS (from GSMA SG) on solutions to solve the A5/2 issue. This LS was introduced by Louis Finkelstein, [Motorola](#) (on behalf of Charles Brookson) and requested operators and manufacturers to comment on the impact of the various solutions to solve the A5/2 issue. The solutions include removing A5/2 from the handsets, offering A5/1 (and maybe A5/3) to a wider group of operators, increase the number of authentications, allowing the users to select which algorithm their handset support, the special RAND solution, solutions that require changes to both the mobile and visited and home networks. [The GSMA SG invited comments from Operators, GSMA and Manufacturers on the following:](#)

- [Removal of A5/2 from the handset;](#)
- [Wider availability of A5/1;](#)
- [Increase in the number of authentications;](#)
- [User configurability of the handset;](#)
- [Infrastructure impact;](#)
- [Updates to BTSs, BSCs and MSCs;](#)
- [Network timing.](#)

[It was reported that the GSMA had already started a survey amongst Operators and will collate the results.](#)

Delegates were asked to take this LS back to their companies for internal discussion and comment, and to respond to the GSMA SG via David Maxwell dmaxwell@gsm.org. The LS was noted by SA WG3.

Eric Gauthier then gave a report of the GSMA SG activities. On the IMEI he indicated that IMEI integrity is now a priority work item for the GSMA board. GSMA SG is finalising a document that defines handset security requirement with the input from TWG and EICTA. GSMA will then send this document to manufacturers. In addition, a RFI was sent out to various organisations to request information on a service called Wireless Response Emergency Service. This service is similar to the CERT service but specialised from mobile operators and equipment manufacturers. Regarding the LS "Effects of Service 27/38 on 2G/3G Interworking and Emergency Call" that GSMA SG received from SA WG3: GSMA SG gave guidance based on SA WG3 views that there might be security risks. GSMA SG realizes that there may be other considerations (legal, licence, etc.) so GSMA SG passed the LS on to other GSMA Groups (e.g. SERG).

Tuesday evening session on GPRS Over-billing:

During the Tuesday evening session on GPRS Over-billing (GOB) chaired by Eric Gauthier, the participants brainstormed on different similar attack scenarios. No other scenarios were identified although the GOB scenario could be used for different purposes (such as scanning the customer terminal). There are two current solutions to GOB: one based on a GTP-aware firewall and the other based on synchronisation between the GGSN and the Gi firewall. It was agreed that the first solution could not be standardised by 3GPP. However the second one should be considered. An example of synchronisation protocol between the GGSN and the Gi firewall is RADIUS. Although, 5 out of 6 of the manufacturers present said their GGSN supported the RADIUS protocol, other alternatives should also be considered such as other IETF standards (e.g. a recent Midcom proposal) and protocols standardised by SA WG2 (e.g. recent proposal to synchronise the GGSN and the application server). Furthermore, the GOB scenario should also be considered in a WLAN interworking environment. Finally it was agreed that standardisation and/or guidelines to operators should be considered to solve this issue.

~~TD S3-030682: LS (from GSMA SG) on request for information on impact on equipment of solutions. This was introduced by Motorola on behalf of C. Brookson (GSMA SG Chairman), who could not attend the meeting. The GSMA SG invited comments from Operators, GSMA and Manufacturers on the following:~~

- ~~— Removal of A5/2 from the handset;~~
- ~~— Wider availability of A5/1;~~
- ~~— Increase in the number of authentications;~~
- ~~— User configurability of the handset;~~
- ~~— Infrastructure impact;~~
- ~~— Updates to BTSs, BSCs and MSCs;~~
- ~~— Network timing.~~

~~It was reported that the GSMA had already started a survey amongst Operators and will collate the results. **MOVED ABOVE.**~~

~~It was considered likely that a separate letter to Manufacturers should have been sent by the GSMA.~~

TD S3-030694: MMS Security Considerations Version 1.0.0. This was introduced by the MMS Representative (A. Bergmann). The purpose of the task was to study the security related issues of MMS and to produce input to SA WG3, the GSMA SG and OMA, in order to motivate work on countermeasures. It was also a part of the task to suggest countermeasures and security requirements, where applicable. The document therefore analysed threats and countermeasures. Mr. Bergmann was thanked for the presentation of the document and delegates were asked to consider the content in their companies and work. Companies were asked to look into possibility of the provision of human resources for the work on MMS and to try to organise a MMS Workshop in January/February 2004 on the organisation and content of the standardisation work across the different involved bodies.

The document was then **noted**. It was decided to run an e-mail discussion to plan the work for standardisation across the different involved bodies and what will be standardised. A. Bergmann agreed to chair this discussion and potentially arrange the MMS Workshop in January/February 2004.

AP 31/03: A. Bergmann to run an e-mail discussion on the MMS standardisation work and to organise a Workshop in January/February 2004 across the involved bodies if necessary.

5.5 3GPP2

There were no specific contributions under this agenda item.

5.6 OMA

There were no specific contributions under this agenda item.

5.7 Other groups

TD S3-030718: Presentation Slides: Liberty Alliance Project - Setting the Standard for Federated Network Identity. An updated version in **TD S3-030764** was presented by Nokia and provided an overview of the Liberty Alliance Project. The presentation was provided for information and was **noted**.

TD S3-030719: Presentation Slides: Potential synergies between Liberty and 3GPP. This was presented by Nokia and provided potential synergies between Liberty and 3GPP. The presentation was provided for information and was **noted**.

Delegates were encouraged to contact the presenter off-line for more information or specific questions.

TD S3-030757: T1P1.5 Lawful Intercept. This was provided by T1P1.5 and detailed the comments to a Ballot on an LI document. It was considered that the LI Group should check this document and in particular the adverse comments that are made about TS 33.108. SA WG3 LI Group were asked to report back to SA WG3 any issues raised by this document and comments. The document was **noted** at this time.

6 Work areas

NOTE: TSs and TRs agreed here for presentation to TSG SA #224: Any comments need to be sent to the editors by 30 November 2003. The editors are to send them to M. Pope for editorial clean-up and presentation to TSG SA by 5 December 2003.

6.1 IP multimedia subsystem (IMS)

TD S3-030712: Proposed CR to 33.203: Ensuring the correct RAND is used in synchronization failures (Rel-5). This was introduced by **3** on behalf of **3**, Nokia, Vodafone and Ericsson. The CR was updated to clarify the text in **TD S3-030768** and was **approved**.

TD S3-030713: Proposed CR to 33.203: Ensuring the correct RAND is used in synchronization failures (Rel-6). The CR was updated to clarify the text in **TD S3-030769** and was **approved**.

TD S3-030726: Proposed CR to 33.203: Network behaviour of accepting initial requests (Rel-5). This was introduced by Nokia. There was some reservation over the scope of the proposal, as some appeared to be in the domain of CN WG1. It was agreed to work on this off-line to create a new version. This was provided in **TD S3-030770** with a Rel-6 "mirror" CR provided in **TD S3-030771** which were both **approved**.

TD S3-030670: LS (from CN WG1) on Introducing the Privacy Mechanism in Stage 2. This was introduced by Lucent Technologies and was produced in response to the LS from SA WG3 in **TD S3-030649**. CN WG1 asked SA WG3 to revise the CR to make the appropriate references to RFCs. A CR approved at the previous meeting (**TD S3-030648**) was considered for modification in line with this LS and the one from SA WG1 in **TD S3-030675** (see below).

TD S3-030675: Response (from SA WG2) for Introducing the Privacy Mechanism in Stage 2. This was introduced by Ericsson and asked SA WG3 to include a reference to TS 23.228 in section 5.3. It was agreed to do this and provide an updated version of the CR in **TD S3-030648** from the previous meeting in **TD S3-030772** which was **approved**.

TD S3-030798: This was introduced by **3** and proposed corrections to already approved CRs where a reference had been missed in the original CRs in **TD S3-030601** and **TD S3-030602**. The updated CRs were provided in **TD S3-030799** and **TD S3-030800**. This proposal was **agreed** and the CRs in **TD S3-030799** and **TD S3-030800** were **approved** to replace the CRs in **TD S3-030601** and **TD S3-030602**.

TD S3-030725: Proposed CR to 33.203: Removing anti-replay requirement from Confidentiality clause (Rel-6). It was noted that the cover sheet showed the changes to be for Rel-5, although the editorial change was really for Rel-6. This CR was corrected for presentation to TSG SA in **TD S3-030812** which was **approved**.

TD S3-030727: NDS and Openness of IMS. This was introduced by Nokia and proposed that SA WG3 endorse the following conclusions:

1. SA WG3 should decide the levels of security listed in section 3 of the contribution, and the security requirements associated with them, for Rel-6..
2. The NDS/IP TS 33.210 is proposed to cover the first level security in the informative annex.
3. TLS is proposed to resolve the second level of security for interworking scenario with non-IMS as the baseline for further development.

It was decided that these proposals should be discussed over e-mail for contribution and decision at the next meeting. T. Haukka agreed to run the e-mail discussion on this.

AP 31/04: T Haukka to run an e-mail discussion on TD S3-030727. Comments by 23 December 2003, conclusions to e-mail list 15 January 2004.

6.2 Network domain security: MAP layer (NDS/MAP)

There were no specific contributions under this agenda item.

6.3 Network domain security: IP layer (NDS/IP)

There were no specific contributions under this agenda item.

6.4 Network domain security: Authentication Framework (NDS/AF)

TD S3-030661: TS 33.310 V0.6.0: Network Domain Security; Authentication Framework (Rel-6). The updated draft TS was **noted**.

TD S3-030705: Pseudo-CR to 33.310: Removing outdated editor's notes. This editorial Pseudo-CR was **agreed** for inclusion by the editor in the draft TS.

TD S3-030677: Pseudo-CR to 33.310: Clarification of SEG certificate profiling. This was introduced by Siemens on behalf of Nokia, Siemens, T-Mobile and Vodafone. This Pseudo-CR was **agreed** for inclusion by the editor in the draft TS.

[TD S3-030691](#): Pseudo-CR to 33.310: Removal of unnecessary restriction on serial number. This was introduced by Siemens on behalf of Siemens, Nokia, SSH and T-mobile. This Pseudo-CR was **agreed** for inclusion by the editor in the draft TS.

[TD S3-030706](#): Pseudo-CR to 33.310: Recommendation to SEG certificate and IKE profiling. This was introduced by Nokia on behalf of Nokia, Siemens and Vodafone. This Pseudo-CR was **agreed** for inclusion by the editor in the draft TS.

[TD S3-030707](#): Pseudo-CR to 33.310: Local repository access clarification. This was introduced by Nokia on behalf of Nokia, Siemens, T-Mobile and Vodafone. This Pseudo-CR was **agreed** for inclusion by the editor in the draft TS.

[The Rapporteur was asked to update draft TS 33.310 with the agreed changes and distribute it to M. Pope for presentation to TSG SA #22 for information.](#)

6.5 UTRAN network access security

[TD S3-030754](#): Enhancements to GSM/UMTS AKA. This was introduced by Ericsson and proposed a key separation mechanism for use as a stronger mechanism to guard against A5/2 attacks. It was clarified that this was a more long-term solution for consideration post-Rel-6. Contributions were invited on this over the e-mail list.

[TD S3-030753](#): CR's on "Handling of key sets at inter-system change". This was introduced by Ericsson and proposed to withdraw documents [TD S3-030625](#) and [TD S3-030626](#) (CRs to 33.102: Handling of key sets at inter-system change, originally proposed by Ericsson and approved by SA WG3) and that these documents are not forwarded to the next TSG SA plenary in December 2003 because other WGs have not agreed equivalent changes and a complete package of CRs should be approved at the same time. It was decided to wait until the outcome of the stage 3 work is known and then re-develop alignment CRs for the stage 2. **These CRs were therefore postponed and will not be presented to TSG SA for approval.**

[TD S3-030672](#): LS to SA3 on Clarification on use of Re-attempt Information element in Authentication Failure Report service. This was introduced by the SA WG3 Chairman. CN WG4 asked SA WG3:

Question 1: What is the purpose of the 'Re-attempt' parameter to be included in Authentication Failure Report Service? Particularly, how the HLR utilize this information.

Question 2: What is a situation where 'Re-attempt' parameter is set in VLR and SGSN.

It was agreed to have an e-mail discussion on this lead by C. Blanchard.

AP 31/05: C. Blanchard to lead an e-mail discussion on the questions from CN WG4 in [TD S3-030672](#). Discussion and comment deadline 17 December 2003. Draft response created by 24 December 2003. Approved response by 5 January 2004.

6.6 GERAN network access security

[TD S3-030668](#): Reply LS (from CN WG1) on Special-RAND mechanism. A proposed response to this LS from France telecom was provided in [TD S3-030693](#), section 4, which was considered. The proposed replies were agreed and included in a response LS in [TD S3-030802](#) which was **approved**.

[TD S3-030669](#): LS on Special-RAND mechanism. This was introduced by Siemens. This was provided by CN WG4 for information and was in-line with SA WG3 activities. The LS was **noted**.

[TD S3-030693](#): More elements on the Special RAND mechanism. Section 4 of this contribution was used as a response to [TD S3-030668](#). This was introduced by Orange and suggested that SA WG3 endorse the principle of limiting the standardisation work for special RAND to special RAND format and UE behaviour, as the HLR/AuC internal procedure is out of the scope of 3GPP. **SA WG3 agreed as a principle that the main focus of the SA WG3 special RAND work was for the special RAND format and the UE behaviour. The internal HLR/AuC behaviour will not be standardised by SA WG3.** It was recognised that this decision may need to be reviewed in the light of any issues that come to the attention of SA WG3 in the future. It was also **noted** that the Emergency call issues need to be studied for any possible impact of the special RAND work.

Orange also proposed that additional information over the use of the mechanism is included into some GSMA document as recommendation to operators. This was considered to be the responsibility of the GSMA and Orange were invited to contact the GSMA on this matter.

TD S3-030698: Proposed CR to 43.020: Introducing the special RAND mechanism (Rel-6). This was introduced by Orange on behalf of Orange and Vodafone and proposes the changes needed to introduce the special RAND mechanism into TS 43.020. It was recognised that there were other changes needed to the affected sections and it was considered bad practice to approve these changes now and then further change the specification in the near future (including a statement about the bit-ordering assumptions in the document). As this was a Rel-6 change, the CR was endorsed as a basis for further elaboration for final approval at the next meeting. **S. Fouquet agreed to co-ordinate inputs to these sections and provide an updated CR for the next meeting.**

TD S3-030761: Proposed CR to 33.102: Introducing the special RAND mechanism (Rel-6). This was introduced by Vodafone on behalf of Orange and Vodafone and proposed the introduction of equivalent mechanism as for **TD S3-030698** into 33.102. It was agreed that this could await approval until when the CR to 43.020 is finalised and updated if necessary for the next meeting.

6.7 Immediate service termination (IST)

There were no specific contributions under this agenda item.

6.8 Fraud information gathering system (FIGS)

There were no specific contributions under this agenda item.

6.9 GAA and support for subscriber certificates

TD S3-030662: TS 33.220 V0.1.1: Generic Authentication Architecture (GAA); Generic Bootstrapping Architecture (Rel-6). This was introduced by the Rapporteur and included changes agreed by SA WG3. The document was noted and used for updates with Pseudo CRs below. Completeness estimate: 45%

TD S3-030728: Pseudo-CR to 33.220: Bootstrapping procedure: merging of last two messages. This was introduced by Nokia. This Pseudo-CR was **approved** for inclusion by the editor in the draft TS.

TD S3-030743: Key separation in a Generic Bootstrapping Architecture. This was introduced by Siemens and proposes some changes to the draft TS and a Pseudo-CR was attached to implement the proposed changes. A parameter *n* is proposed for use to generate keys based upon parts of the DNS name of the NAF, allowing differentiation from the full DNS name to up to the rightmost 7 parts of the DNS name. It was clarified that AKA is always run once to derive *K_c* and then once again to provide the differentiable Key and that only one key is distributed to an individual NAF. The change in section 4.2.2.1 was changed to read: "[The BSF can restrict the applicability of the key material to a defined set of NAFs by using a suitable key derivation procedure.](#)" The use of "*NAF_Id*" was agreed to be changed to "*NAF_Id_n*". The Pseudo-CR was updated with agreed changes and updated in **TD S3-030793** which was **agreed** for inclusion in the draft TS. **P. Christoffersson agreed to ask SAGE to advise SA WG3 on suitable algorithm(s) for this mechanism, taking into account the AKA-EAP and AKA-SIM key derivation functions.**

TD S3-030704: Pseudo-CR to 33.220: Transaction Identifier independence for different NAFs or NAF groups. This was introduced by Huawei Technologies Co., Ltd. After some discussion it was thought that other issues on synchronisation and lifetime need to be finalised and then this issue can be correctly dealt with. The Pseudo-CR was therefore **rejected** at this time and the issue should be revisited when the other issues are stabilised. New contributions were invited on this.

TD S3-030729: UE triggered unsolicited push from BSF to NAFs. This was introduced by Nokia and discussed and proposed a possibility for UE to trigger BSF to do an unsolicited push of transaction identifier (TID), NAF specific shared secret (*K_{s_naf}*), and optional subscriber profile information (TID, *K_{s_naf}*, and the profile are later referred as "bootstrapping information") to one or more NAFs in order to simplify procedures during shared secret usage over *U_a* interface. Overhead issues were raised and it was considered that some evaluation of this was needed. The attached Pseudo-CR was therefore **rejected** at this time and the issue should be revisited when the overhead issue is stabilised. New contributions were invited on this.

TD S3-030742: Application specific user profiles in GBA. This was introduced by Nortel Networks and proposed that the requirements with respect to transferring application-specific user/subscriber profiles from HSS to BSF (and BSF to NAF) be removed from the GBA. A Pseudo-CR implementing this was attached to the contribution. The Pseudo-CR was modified to re-insert the requirements on the Z-interfaces and to add editors notes and was updated in **TD S3-030794** which was **agreed** for inclusion by the editor in the draft TS.

TD S3-030663: TS 33.221 V0.1.1: Generic Authentication Architecture (GAA); Support for Subscriber Certificates (Rel-6). This was introduced by the Rapporteur and contained the changes agreed by SA WG3. The draft TS was **noted** and used for further Pseudo-CRs.

TD S3-030667: "Updated Annex C to 33.109: Key pair storage". This was introduced by the Rapporteur and proposed to add a new informative annex to the draft TS. This was **agreed**.

TD S3-030683: Pseudo-CR to 33.221: Results of risk analysis in the "Key Pair Storage" informative annex. This was introduced by Gemplus on behalf of Gemplus, Giesecke & Devrient, Oberthur, Schlumberger. It was commented that the informative annex should not mandate functionality and that the operator should be allowed the choice of storage of the Private keys. The Pseudo-CR was revised in line with comments in **TD S3-030795** which was **agreed** for inclusion by the editor in the draft TS.

TD S3-030686: Pseudo-CR to 33.221: on clarifications on Certificate enrolment using pre-certified keys. This was introduced by Schlumberger on behalf of Schlumberger, OCS and Gemplus. The proposal for "4.1 (really 4.3) was removed and a better position will be sought for the text. The CR was updated off-line to include comments received and re-presented in **TD S3-030796** and the Pseudo-CR was **agreed** for inclusion by the editor in the draft TS.

TD S3-030684: Pseudo-CR to 33.221: on enrolment of keys in a UICC application. This was introduced by Schlumberger on behalf of Schlumberger, OCS and Gemplus. It was agreed that the occurrences of UICC should be replaced with WIM where appropriate and a note added stating that other applications may act like the WIM and be done in the same way. The CR was updated off-line to include comments received and re-presented in **TD S3-030797** and the Pseudo-CR was **agreed** for inclusion by the editor in the draft TS.

TD S3-030685: Pseudo-CR to 33.221: on on-board key generation in a UICC. This was introduced by Schlumberger on behalf of Schlumberger, OCS and Gemplus. This Pseudo-CR was **agreed** for inclusion by the editor in the draft TS.

TD S3-030730: Subscriber Certificate Enrolment Protocol. This was introduced by Nokia and discussed Subscriber Certificate Enrolment Protocol solutions. Nokia concluded that the enrolment of subscriber certificates as specified in the contribution has several synergies with the OMA based enrolment:

- 3GPP specifications are in line with OMA specifications.
- The OMA PKI portal may be also used in subscriber certificate enrolment provided that PKI portal is able to do GBA base authentication, i.e. it assumes the role of a NAF.
- Code from OMA based enrolment may be reused on the UE for doing the subscriber certificate enrolment.

Nokia proposed that SA WG3 endorse the subscriber certificate enrolment procedures described in the contribution (section 2.3) as the working assumption for TS SSC. A Pseudo-CR implementing the proposals was attached to the contribution. This Pseudo-CR was **agreed** for inclusion by the editor in the draft TS.

TD S3-030664: TR 33.919 V0.1.0: Generic Authentication Architecture; System Description (Rel-6). This was introduced by the Rapporteur and was **noted**. The TR will be used for further Pseudo-CRs to update it.

TD S3-030716: Pseudo CR to GAA TR 33.919. This was introduced by Alcatel. This Pseudo-CR was **agreed** for inclusion by the editor in the draft TS.

The updated draft TRS will be forwarded to TSG SA #224 for information.

TD S3-030722: User authentication process decision. This was introduced by Ericsson and suggested a general approach to be considered by applications regarding the user authentication in order to make the application decision flexible. After some discussion on the proposal, it was agreed to add an editors note and incorporate it into the updated draft TS. This Pseudo-CR was then **agreed** for inclusion by the editor in the draft TS.

[TD S3-030665](#): 3GPP TS 33.222 V0.1.1: Generic Authentication Architecture (GAA); Access to Network Application Functions using HTTPS (Rel-6). This was introduced by the Rapporteur and included agreed changes and was [noted](#). The draft TS was used for Pseudo-CRs.

[TD S3-030717](#): Organization of Presence TS and HTTPS TS. This was introduced by Ericsson on behalf of Ericsson and Nokia and asked SA WG3 to endorse the following proposals:

1. The Presence Technical Specification shall be completed for release 6. It shall describe on stage 2 level how the Presence Service can be accessed securely using HTTP over TLS.
2. In release 6, the HTTPS TS shall describe secure access using HTTP over TLS for other services than Presence. Potential services to describe are conferencing, messaging, push, etc.. To avoid duplicate work in release 6, the HTTPS TS shall reference the Presence TS when appropriate.
3. For future releases, the two Technical Specifications could be restructured when needed.

These proposals were endorsed by SA WG3 for Release 6 and onwards.

[TD S3-030721](#) and [TD S3-030732](#) were on the same issue and were presented in turn and considered together:

[TD S3-030721](#): Challenges in using shared-secret TLS with NAFs. This was introduced by Ericsson and proposed that SA WG3 adopts the following working assumptions related to the potential use of shared-secret TLS with NAFs:

- Shared-secret TLS is seen as an optimisation for TLS. Both the client and the NAF must also have full TLS implementation in addition to shared-secret TLS.
- The minimum implementation should include the normal TLS. Shared-secret TLS can only be optional for implementations.
- The solution should include a capability for negotiating between different TLS models. In particular, the NAF should be able to inform UE that it is able to use shared-secret TLS.
- Negotiation of TLS related security parameters needs to be further specified.

[TD S3-030732](#): Using shared key TLS with NAFs. This was introduced by Nokia and described a way of using shared-key TLS between UE and NAF. The contribution proposed a way to use GBA based shared secret within GAA. Nokia proposed to make a decision to give a priority for the GBA supported shared-key TLS over the other possible solution and if the shared-key TLS is endorsed as the working assumption, then Nokia further proposed to add this work into dependency list of IETF as done for Rel-5 work.

In summary, Nokia proposed giving priority to shared-key TLS, whereas Ericsson proposed that this should be considered as an optional-for-implementation ad-on until there is more maturity in the IETF drafts.

It was agreed that this issue should be left open until IETF status progress can be assessed and try to make a decision at the next SA WG3 meeting. **Delegates were asked to study this issue and contribute to the next meeting.**

TD S3-030720 TD S3-030731 and TD S3-030744 were on the same issue and were presented in turn and considered together:

TD S3-030720: Comparison of authentication proxy solutions. This was provided by Ericsson and recommended that SA WG3 would keep the working assumption that the Presence Ut interface would benefit for having an authentication proxy. The working assumption should be that this proxy is of type "reverse proxy". Ericsson recommended clarification of forwarding proxy issues listed in the contribution.

TD S3-030731: Proxy and various HTTP services. This was introduced by Nokia and proposed to endorse the TD S3-030555 (Using shared key TLS with GAA NAFs) solution as working assumption.

TD S3-030744: Role of Authentication Proxy (AP-NAF) – Discussion and Pseudo-CRs to TSs on GAA/HTTPS and Presence Security. This was introduced by Siemens and proposed to include the following requirement in section 5.1 (Use of authentication proxy / requirements and principles) of TS 33.222 v011 (GAA/HTTPS) and in section 5.4.1 of TS 33.141 v020 (Presence Security):

"The use of an authentication proxy should be such that there is no need to manage the authentication proxy configuration in the UE.

Note: This requirement implies that the authentication proxy should be a reverse proxy in the following sense: A reverse proxy is a web server system that is capable of serving web pages sourced from other web servers - in addition to web pages on disk or generated dynamically by CGI - making these pages look like they originated at the reverse proxy."

In summary the Ericsson and Siemens proposals were in line and the Nokia proposal could accept it if the shared-key TLS is chosen rather than the reverse-proxy solution. It was clarified that there would still be a need for configuration with shared-key TLS as for the reverse-proxy solution. It was agreed that the text proposed by Siemens would be acceptable, and an editors note would be added as follows:

Editors' note: The above requirements may be revisited after the following issues are fully studied:

- *feasibility of shared-key TLS;*
- *terminal configurability*

Nokia proposed in addition in TD S3-030731 to consider the "special cookie" discussion where the UE inserts its own ID into the HTTP message and the proxy checks that the user is authorised. G. Horn and K. Boman agreed to consider this and comment to T. Haukka before 20 December 2003.

AP 31/06: G. Horn and K. Boman to consider section 3 of TD S3-030731 and comment to T. Haukka before 20 December 2003.

TD S3-030745: Technical solutions for access to application servers via Authentication Proxy and HTTPS - Pseudo-CRs to TSs on GAA/HTTPS and Presence Security. This was introduced by Siemens and proposed to include an informative annex in both the HTTPS and Presence draft TSs, as it is currently unclear whether both TSs will be completed within the Release 6 timeframe. If both TSs are completed in time, SA WG3 may decide later that all material on authentication proxies is to be contained in TS 33.222, and that TS 33.141 only is to make reference to TS 33.222. It was **decided** that this could be used as a starting point for further update in the future and so the changes were **accepted** to be included in the draft TSs. An editors' note was added as follows:

Editors' note: The text in this informative annex may need to be revisited if changes in the main body of the text are made.

TD S3-030746: Transfer of an asserted User Identity and Location of Access Control – Discussion and Pseudo-CRs to TSs on GAA/HTTPS and Presence Security. This was introduced by Siemens and proposed to include the following requirements in TS 33.222, section 5.1, and in TS 33.141, section 5.1.4:

- *Implementation of check of **asserted** user identity in the AS is optional.*
- *Activation of transfer of asserted user identity shall be configurable in the AP on a per AS base.*

It was agreed to add "asserted" as shown above.

Section 2 of the contribution was left for off-line discussion.

AP 31/07: T. Haukka and K. Boman to provide any comments on section 2 of TD S3-030746 to G. Horn.

TD S3-030749: Pseudo-CR to GAA/HTTPS doc: Initial text for the TS. This was introduced by Siemens. It was **agreed** that editors' notes should be added about the initiation of the bootstrapping procedure being described in the GBA TS in section 4.2 and Annex Z. It was also **agreed** to add an editors note to Annex Z on the issue of co-location of BSF and NAF having an impact on implementation being **ffs**. This Pseudo-CR was then **agreed** for inclusion by the editor in the draft TS.

This Draft TS [33.441222](#) was not considered complete enough at this time for forwarding to TSG SA #224 for information.

The Rapporteurs were asked to update draft TS 33.220 and draft TS 33.221 with the agreed changes and distribute it to M. Pope for presentation to TSG SA #22 for information.

6.10 WLAN interworking

TD S3-030689: Draft TS 33.234 V0.7.0 Wireless Local Area Network (WLAN) Interworking Security. This was introduced by the Rapporteur and included the changes agreed at the previous meeting. The draft TS was **noted**.

TD S3-030715: Pseudo-CR to 33.234: Clarification to re-authentication procedures. This was introduced by Nokia. This Pseudo-CR was **approved** for inclusion by the editor in the draft TS.

TD S3-030734: Pseudo-CR to 33.234: Re-authentication identities generation. This was introduced by Ericsson. This Pseudo-CR was **approved** for inclusion by the editor in the draft TS. Note: This implied the removal of the editors' note in section 7.15.

TD S3-030735: Pseudo-CR to 33.234: Editorial changes and informative annex in TS 33.234. This was introduced by Ericsson. This Pseudo-CR was **approved** for inclusion by the editor in the draft TS.

TD S3-030740: Pseudo-CR to 33.234: Only one active USIM application. This was introduced by Ericsson. There was some concerns over the correctness of this requirement and the author agreed to check and return with information. After checking it was found that the changes were no longer valid and the Pseudo-CR was **withdrawn**.

TD S3-030737: Split WLAN-UE: SIM Access Profile protocol in Bluetooth forum. This was introduced by Ericsson and proposed that SA3 discuss each proposal presented in this paper and takes a decision in order to progress the work in Bluetooth forum and also proposed that SA WG3 send an LS with the requirements in this paper to the Bluetooth Architecture Review Board (BARB) and the CAR groups, asking them to develop a new version of the SIM Access Profile for a split WLAN UE in work item WLAN Inter-working in 3GPP. It was **agreed** to send a LS to Bluetooth with the requirements identified and agreed after discussion of other contributions. An LS to Bluetooth groups was provided in [TD S3-030780](#) and was reviewed and **approved**.

TD S3-030738: Split WLAN UE: Termination of EAP-AKA/SIM protocol. This was introduced by Ericsson and analysed different scenarios of Bluetooth security and the SIM Access Profile. The main issue from this analysis seemed to be the case when EAP-SIM protocol terminates in the Laptop and the threat exists that an attacker in the Laptop can get hold of the RAND and Kc, and distribute these publicly. Ericsson suggested that SA WG3 should consider whether this is seen as a major threat. Ericsson proposed that SA WG3 should take a decision on whether EAP-AKA and EAP-SIM shall terminate in the Laptop or the 3GPP UE. It was agreed to attach this contribution to the LS in [TD S3-030780](#).

TD S3-030747: Pseudo-CR to TS 33.234 on Requirements on UE split. This was introduced by Siemens and proposed to include a related requirement into TS 33.234. A threat scenario was given to motivate the proposal. Revision-marked text to implement the proposal was included in the contribution. It was clarified that the threat described applied to offering service using the USIM keys and not a separate key set for a WLAN application. The proposed changes were discussed and **agreed** to be included with a change to make the note into an editors note, including the text "at least the Master Keys are computed". The editor was asked to make this change in the implementation.

TD S3-030739: Split WLAN-UE: Integrity protection on local interface. This was introduced by Ericsson and proposed that SA WG3 decide whether integrity protection will be required on the local interface between a Laptop and a UE. Ericsson did not see the need to add integrity protection on the local interface between the Laptop and the 3GPP UE and proposed to delete the requirement on integrity protection in TS 33.234. If SA WG3 kept the requirement, then Ericsson proposed that Bluetooth are informed of the requirement. It was agreed that ~~the integrity checking on the Bluetooth interface is implicitly covered by the underlying EAP protocol running on the link and~~ modification of EAP parameters will cause EAP to fail. It was therefore agreed to remove this requirement from the draft TS.

AP 31/08: C. Blanchard was asked to check the changes made to the figures in TS 33.234 are reflected in the SA WG2 specification where they were originally copied from.

TD S3-030733: Implications of the A5/2 Attack for 3GPP WLAN Access. This was introduced by Ericsson on behalf of Ericsson and TeliaSonera and propose to insert their analysis and recommendations on the A5/2 attack scenarios for WLAN access in an Informative Annex C.3 of TS 33.234. The threat was clarified that is the A5/2 GSM keys can be recovered, then the EAP/SIM can be exploited for WLAN terminal impersonation towards the 3GPP network. There was a comment that the issue of recovering the keys by attacking the WLAN system and exploiting the GSM network should be examined and the scope of the analysis should be increased. Contributions were invited on this. It was agreed to include an informative annex to provide this attack scenario and countermeasures.

TD S3-030676: LS (from SA WG2) on Tunnel Establishment and Security Association. This was introduced by France Telecom. SA WG2 requested SA WG3 to evaluate the SA WG2 assumption that it is possible to separate the tunnel establishment and tunnel data handling into separate nodes, noting that these nodes are both in 3G networks, and not linked over the public internet. SA WG3 were requested to provide feedback to SA WG2. **TD S3-030741** was related to this and was also considered for the reply LS.

TD S3-030741: End-to-end tunnelling: Security Considerations on resolution gateways. This was introduced by Nortel Networks on behalf of Nortel Networks, Siemens AG and Nokia and proposed that SA WG3 should communicate the conclusions of the contribution to SA WG2. A comment to this contribution was provided in **TD S3-030763** which was considered.

TD S3-030763: Comments on S3-030741: Security Considerations on resolution gateways. This was introduced by Huawei Technologies Co., Ltd. and provided comments on the proposals in **TD S3-030741**. There was some discussion and some comments were not fully supported. Others were agreed.

It was agreed that a response LS to SA WG2 should be developed taking into account the two contributions and discussions in the meeting on them. The LS was provided in **TD S3-030789** which was reviewed and updated in **TD S3-030808** and approved.

TD S3-030748: Security procedures for the set up of UE-initiated tunnels in scenario 3. This was introduced by Siemens and proposed that SA WG3 endorse the accompanying CR which implements three types of changes:

- Changes to headlines of existing sections and introduction of new subsections to make room for the specification of the security for scenario 3 in TS 33.234. These affect sections 4, 5, and 6.1.1 through 6.1.4 of TS 33.234.
- Changes agreed at SA3#30 regarding the use of IPsec ESP for data protection in the tunnel. These affect sections 6.2, 6.3, and 6.6 (new) of TS 33.234.
- The working assumption on tunnel set up procedures proposed in section 2 of this contribution. These affect sections 6.1.5 (new), 6.5 (new) and Annex X (new) of TS 33.234.

The attached Pseudo-CR to 33.234 was then considered and some additions made to the editors notes in section 6.1.5. The updated Pseudo-CR was provided in **TD S3-030790** which was agreed for inclusion by the editor in the draft TS.

AP 31/09: D. Mariblanca to lead an e-mail discussion on the editors note about the use of public key signatures to authenticate the PDG s in section 6.1.5 of the Pseudo-CR in **TD S3-030790**.

[TD S3-030736](#): Security of EAP or SSID based network advertisements. This was introduced by Ericsson and concludes that neither EAP or link-layer mechanisms support the cryptographic protection of network-selection related advertisements today. Only a limited support for the protection of the chosen network is available. Ericsson suggested that this vulnerability is recognised as a current limitation and that means outside the protocols are used to mitigate its effects. Ericsson proposed sending a LS to SA WG2 informing them of this. It was reported that there is no requirement currently to cipher or protect this. An LS to SA WG2 was provided in [TD S3-030791](#) which was updated in [TD S3-030807](#) and was **approved**.

[TD S3-030783](#): LS (from LI Group) on 3GPP WLAN interworking Lawful Interception Requirements. The SA WG3 LI Group asked SA WG3 to take the SA WG3 LI Groups' comments on WLAN interworking interception requirements of receiving unencrypted traffic in the roaming case into account when progressing work on 3GPP WLAN interworking security. There was a problem identified by SA WG3 LI Group in the roaming case as there may be an end-to-end tunnel from the roaming UE to the home network. It was commented that the Visited Network Operator is not involved in the set-up of the security tunnel. It was also commented that the Visited Network is involved in the set-up of Scenario 3, which may have an impact. The SA WG3 LI Group were asked to consider this. Delegates were asked to talk to SA WG3 LI Delegates in their companies to clarify the SA WG3 work and to clarify any issues.

[TD S3-030762](#): Security Analysis on the SA WG2 resolution architecture. Huawei Technologies Co., Ltd. also provided a version containing revision marks from the originally submitted contribution, for easier appreciation of the changes made in [TD S3-030788](#), however, as the original and revised documents were received after the document submission deadline, it was postponed due to lack of time. Huawei Technologies Co., Ltd. were invited to re-submit the contribution to the next meeting, if still relevant.

[The Rapporteur was asked to update draft TS 33.234 with the agreed changes and distribute it to M. Pope for presentation to TSG SA #22 for information.](#)

6.11 Visibility and configurability of security

There were no specific contributions under this agenda item.

6.12 Push

There were no specific contributions under this agenda item.

6.13 Priority

There were no specific contributions under this agenda item.

6.14 Location services (LCS)

There were no specific contributions under this agenda item.

6.15 Feasibility Study on (U)SIM Security Reuse by Peripheral Devices

[TD S3-030666](#): Technical Report on (U)SIM Security Reuse by Peripheral Devices on Local Interfaces (Release 6). This was introduced by the Rapporteur on behalf of Toshiba, Intel, T-Mobile, Telcordia, Thomson, Fujitsu, HP, RIM, SmartTrust, BT Group PLC, Alcatel and Gemplus and included changes agreed at the last meeting and during telephone conference calls and e-mail discussions. The TR was presented to SA WG3 for approval for presentation to TSG SA Plenary for information.

It was **agreed** that this was a feasibility study and therefore the title of section 6 should be "Potential requirements". It was also **agreed** that the title should be changed to "Feasibility Study on (U)SIM security reuse by peripheral devices on local interfaces". Comments on the requirements of section 6.1.1 were also made as the intension and expected scenarios for the potential requirements was unclear. It was clarified that the scenarios were as discussed over the conference calls and the TR outlined what would be needed for re-use of some UICC functions for Bluetooth access.

It was **agreed** that the scope should state that the FS would be used as a basis to future CRs to 33.234 as and when any of the proposals were developed by SA WG3. It was stated that it is not currently intended to develop this FS further into a 3GPP TS.

The rapporteur updated the document with the comments and provided the document again in [TD S3-030779](#). The new version was reviewed and some minor changes made and the final version (without revision marks) was provided in [TD S3-030792](#) which was **approved for presentation to TSG SA #224 for information**.

6.16 Open service architecture (OSA)

There were no specific contributions under this agenda item.

6.17 Generic user profile (GUP)

[TD S3-030759](#): LS (from SA WG1) on clarified requirements on synchronization for GUP. This was introduced by Ericsson and informed T WG1 about the synchronisation requirements in GUP. this was provided to SA WG3 for information and was **noted**. It was reported that Nokia had a proposal in line with this at the previous meeting in [TD S3-030581](#) and delegates were asked to consider this for comments at the next meeting.

6.18 Presence

[TD S3-030695](#): Draft TS 33.141 V0.2.0 Presence Service; Security. This was introduced by the Rapporteur and was reported as needing much more text and was about 10-15% complete. The draft TS was **noted**.

[TD S3-030673](#): The requirement and feasibility of IMS watcher authentication. This was introduced by Nokia. CN WG1 asked SA WG3 to take their analysis of IMS watcher authentication requirements. The LS was **noted**.

[TD S3-030674](#): Reply LS on "The requirement and feasibility of IMS watcher authentication". This was introduced by Nokia. SA WG2 informed SA WG3 that they did not have an opinion on the need for IMS watcher authentication as they considered this to be in SA WG3 competence. The LS was **noted**.

[TD S3-030681](#): Reply (from SA WG1) on the requirement and feasibility of IMS watcher authentication. This was introduced by Nokia. SA WG1 informed SA WG3 that they did not any detailed requirement on the need for IMS watcher authentication as they considered that SA WG3 could find a suitable solution with the support of CN WG1 and SA WG2. SA WG1 requested a similar level of security for both IMS and non-IMS watchers. It was considered that the non-IMS watcher security should be made as good as the IMS watcher security. It was **agreed** that the "optionality" of password based authentication means optional for implementation. The LS was **noted**.

6.19 User equipment management (UEM)

There were no specific contributions under this agenda item.

6.20 Multimedia broadcast/multicast service (MBMS)

[TD S3-030660](#): LS Response on potential USIM impact of the MBMS security framework. This LS had been approved over e-mail after SA3#30 and transmitted. The LS was **noted**.

[TD S3-030678](#): Reply (from SA WG1) to LS on potential USIM impact of the MBMS security framework S1-031104; T3-030697). This was introduced by 3 and encouraged T WG3 to continue this work and informed them that SA WG1 will notify T WG3 with any further requirements as they are developed. The LS was **noted**.

[TD S3-030756](#): Liaison (from Download+DRM group OMA) to 3GPP SA WG4 and SA WG3 on issues on DRM for PSS and MBMS streams. This was introduced by Ericsson. OMA DLDRM suggested that SA WG3 and SA WG4 consider the attached OMA DCF specification for the development of their specifications, specifically for the specification of the streaming mechanism for protected 3GPP PSS media. The related LS in [TD S3-030758](#) was considered with this LS.

[TD S3-030758](#): Liaison (from Download+DRM group OMA) to 3GPP SA WG4 and SA WG3 on issues on DRM for PSS and MBMS streams. This was introduced by Ericsson and informed SA WG4 and SA WG3 about:

- a recommendation for the choice of a stream cipher for continuous PSS media;
- Considerations on stream integrity protection for continuous PSS media;
- the DRM information to be conveyed to a terminal;
- a request from OMA DLDRM to provide a version of TS 26.244 that can be normatively referenced, by January 2004;
- a request to SA4 to include signalling of DRM support for PSS clients into the 3GPP PSS UAPProf vocabulary;
- a request to SA3 for information on the requirements and solutions for protection of MBMS streams.

OMA DLDRM requested SA WG3 to note the information contained in the LS, and to reply in case there are questions or comments. OMA DLDRM would welcome a reply from SA WG3 on the requirements and solutions for protection of MBMS streams.

Following discussions and LS was produced to OMA in [TD S3-030805](#) (see below).

[TD S3-030750](#): Considerations on selective encryption and integrity protection for DRM protected PSS media streams. This was introduced by Ericsson, using presentation slides in [TD S3-030776](#). Ericsson proposed:

- not to use selective encryption;
- to use integrity protection for DRM protected streams;
- that SRTP could be used for protection of PSS and MBMS streams.

More background was provided in section 2 of [TD S3-030750](#). Details of the file format and input streaming was provided in the attachments.

It was commented that OMA DRM had not received a public review, and the proposed transform of SRTP had also not been reviewed by the IETF security experts.

It was **agreed** that as a principle, the 3GPP solution and OMA DRM solutions should be as closely aligned as possible.

There is an optional integrity protection in the requirements for MBMS, as there may be groups / receivers which can be fully trusted. It was **noted** that this was not covered by the OMA work.

The discussions resulted in the LS provided in [TD S3-030777](#) (see below).

[TD S3-030752](#): DRM usage for MBMS security. This was introduced by Nokia and presented principles by which Nokia proposed that the SA WG3 work on MBMS security can be aligned with the ongoing co-operation between OMA DRM group and SA WG4 group for PSS.

It was concluded after some discussion that the encryption proposals should be studied by ETSI SAGE in order to verify its suitability. A LS to OMA should be provided informing them that AS counter mode is acceptable and selective encryption is being further studied by SA WG3. The LS was drafted in [TD S3-030777](#) which was reviewed and updated in [TD S3-030805](#) which was **approved**.

[TD S3-030714](#): Draft TS 33.246 V0.2.2: Security of Multimedia Broadcast/Multicast Service. This was introduced by the Rapporteur and included changes agreed in discussions. The draft TS was **noted**.

Docs from S3#30

TD S3-030522: Differentiation of MBMS traffic protection mechanisms. This was introduced by Samsung Electronics and proposed changes to the section 5.3 *Protection of the transmitted traffic* of the draft TS to include the protection method details in the service announcement. It was considered that SA WG2 should be consulted on this proposal. An LS was provided in **TD S3-030778** (see below).

TD S3-030523: MBMS service activation and Initial TEK distribution. This was introduced by Samsung Electronics and proposed changes to the section 5.2 *Key management and distribution* of the draft TS such that the network shall indicate the "Joining Availability Time" in the service announcement. It was considered that SA WG4 should also be consulted on this proposal. This was added to the LS in **TD S3-030778**, which was also sent to SA WG4 and copied to SA WG1 for information (see below).

TD S3-030778 LS to SA WG2, SA WG4, copied to SA WG1 on protection method indication in service announcement and Joining Availability Time. This LS was provided in response to contributions **TD S3-030522** and **TD S3-030523** (which were postponed from SA WG3 meeting #30). The LS was reviewed and updated in **TD S3-030806** which was **approved**.

TD S3-030700: MBMS (re-)keying models. This was introduced by Siemens and proposed to adopt following working assumptions:

- *If only a UE-based solution will be developed then the point-to-point (re-)keying solution shall be as efficient as possible in viewpoint of consumed radio resources'. For a UE-based solution the adoption of DRM methods should be considered as they are specifically designed to run in a UE-based environment. In particular the OMA DRMDL solution should be considered for MBMS download, while for MBMS streaming more study is needed.*
This working assumption was endorsed by SA WG3. It was noted that the point-to-multipoint also needs to be as efficient as possible and that the solution should be **ME-based**, rather than **UE-based**.
- *If a UICC-based solution will be developed then the design of a UICC-based solution shall take care that the security is as high as possible but the solution shall at the same time be cost-efficient. In particular there has to be a way to recover from the situation where secrets from within one single UICC are revealed by an attacker.*
This working assumption was endorsed by SA WG3. It was noted that the cost-efficiency requirement holds for all potential solutions. It was commented that the impact on the breaking of a single UICC needs to be analysed to determine the recovery actions required.

Following requirement for a UICC-based solution (to be incorporated in TS 33.246) was proposed:

- *The point-to-point key delivery procedures for the 'generate KEK'-step shall give assurance to the BM-SC where the KEK has been stored. The UE shall not be able to simulate or replay any assurance indication during that procedure.*
The requirement that the BM-SC should know where the KEK has been stored was agreed in principle by SA WG3. Note that the definition of "generate KEK" needs review and clarification before inclusion in the draft TS.

TD S3-030690: 3GPP Over the Air (OTA) procedures applied to BAK Distribution and MBMS Subscription management. This was introduced by Schlumberger on behalf of Schlumberger, Qualcomm, Gemplus and OCS. The contribution concludes that OTA mechanisms are the existing 3GPP standard way for point-to-point communication between the UICC and the network and provide all the functionality required for efficient, secure MBMS key management and proposed to reuse these existing 3GPP mechanisms for BAK distribution and MBMS management operations instead of reinventing new ones.

It was clarified that OTA is an interface between the home network and the OTA Gateway and that keys would be distributed from the BN-SC. It was noted that new interfaces would be needed for this.

TD S3-030699: MBMS UICC open issues. This was introduced by Siemens and concluded that without significant progress on the open issues highlighted in the contribution, a decision in this meeting in favour of a UICC-based solution within Rel-6 should not be made. Also the requirements on UICC-based solutions should be verified on completeness and stability before going further in that direction. Siemens clarified that many of the open issues included could be removed by the contributions present at the meeting. Comments were taken on the issues highlighted:

- 1-1. The requirement for acceptable on-time deliveries of UICC-keys to late MBMS-entrants are unknown. Stringent time settings could be a problem for OTA.** It was commented that this should not be a problem in Rel-6 under normal operating conditions. Requirements were lacking on this issue.
- 1-2. No solutions (i.e. selected protocols) are yet available for connection OTA-servers to MBMS-server that reside in the VN.** This was considered a general issue even for non-UICC solutions.
- 1-3. The use of OTA needs to be supplemented by a terminal mechanism that requests key updates.** This was considered a general issue even for non-UICC solutions.
- 1-4. No estimations of the moderate free memory amount of existing pre Rel-6 UICC in the field is available.** It was recognised that this needs further clarification ("probably" is not a sufficient definition of free-memory requirements). It was commented that the majority of current pre-Rel-6 UICCs do not have this available memory space (1 kbyte).
- 2-1. No solution for key deletion to the UICC is provided.** The deletion of BAK to prevent access by stolen terminals was considered necessary and was considered an open issue.
- 2-2. No solution to bootstrap the MIKEY-run (the KEK-generation) is provided.** This issue needs further consideration.
- 2-3. No detailed estimation of the complexity of terminating MIKEY at the UICC is available.** This issue needs further consideration.

TD S3-030767: Impacts on the 3GPP network with a UICC based and a non-UICC based solution in MBMS. This was introduced by Ericsson and proposed that SA WG3 send a LS to SA WG2 and OMA asking whether a new interface between the BM-SC and OTA provisioning server can be standardized. Ericsson also proposed that SA WG3 should send a LS to various groups, such as SA WG2, OMA and T WG3, to comment on the issues mentioned in section 3 of the contribution and the architecture with a UICC based solution. It was commented that a proprietary OTA could be used to provide MBMS service on pre-Rel-6 UICCs (Java enabled).

TD S3-030697: MBMS Usage and Quality of Service based on BAK Distribution. This was introduced by Qualcomm on behalf of Gemplus, Oberthur, QUALCOMM Europe and SchlumbergerSema. The content of this contribution was based on SA WG1 requirements, some of which were no longer valid. It was noted that the application would need to be relied upon in this system. The document was then [noted](#).

TD S3-030701: MBMS: Replaying of RAND values. This was introduced by Siemens and proposed to add the following requirement to the MBMS specification:

R5f: A UICC, realizing the function of providing session keys for decrypting the streaming data at the UE, shall only give session keys back to the UE if the input values used for obtaining the session keys were fresh (have not been replayed) and came from a trusted source.

Solutions for this requirement may be elaborated and its feasibility be decided at SA WG3 meeting #32 (Siemens withdrew the second proposal as it was obsolete due to previous agreements).

SA WG3 agreed that this requirement was needed if the UICC-based solution is chosen.

Contributions [TD S3-030703](#) , [TD S3-030751](#) , [TD S3-030709](#) and [TD S3-030723](#) were each introduced by their authors and then a general discussion was held.

[TD S3-030703](#): Evaluation of re-keying methods. This was introduced by Huawei Technologies Co., Ltd. and proposed accepting the improved combined re-keying method or the simple PTP re-keying method:

1. If the combined re-keying method is accepted, it was proposed to adopt the improvement described in [TD S3-030520](#) from SA WG3 meeting #30.
2. If the simple PTP re-keying method is accepted, it was proposed to add the figure and bullets proposed in [TD S3-030521](#) from SA WG3 meeting #30 to the draft TS.

[TD S3-030751](#): Further updates on Combined model for MBMS security. This was introduced by Nokia and proposed that the following are adopted as working assumptions in SA WG3:

- 1) Combined model adopted as a compromise between Simple and Two-tiered model;
- 2) ME based solution chosen as a solution for Rel-6;
- 3) GBA usage considered as a basis for authentication between UE and BM-SC;
- 4) In later releases, BM-SC shall be able to distinguish between different solutions used by the UE.

[TD S3-030709](#): Composite MBMS Key Distribution. This was introduced by Samsung Electronics and proposed that SA WG3 adopt this composite method for MBMS key distribution, and especially, to select the proposed solution 2 for MBMS key distribution.

[TD S3-030723](#): Migration of MIKEY in MBMS key management. This was introduced by Ericsson and proposed that before making a decision on key management solution SA WG3 should take a standpoint on the trust model that is applied in MBMS. That is, whether ME is trusted or not. Ericsson also proposed to adopt MIKEY as key management protocol for MBMS. MIKEY can support both ME and UICC based methods. Ericsson believed that MIKEY also provides smooth migration path to UICC based method.

Discussion of contributions [TD S3-030703](#) , [TD S3-030751](#) , [TD S3-030709](#) and [TD S3-030723](#):

Ericsson reiterated that they believed SA WG3 should make a decision taking into account the availability of a whole solution and the key management and traffic protection are linked together.

SA WG3 also needs to decide whether an ME or UICC based solution will be used.

It was proposed to try to have a combined solution taking ideas from the contributions.

It was also proposed that a migration would be needed and UICC based solution should be included for Rel-6 as it is easier to determine the UICC technology in the field than the variety of ME capabilities that will be available. Support of the UICC solution in Rel-6 would facilitate a migration path.

Ericsson commented that the cost against security strength of any mechanism also needs to be kept in mind and suggested that the MIKEY solution could be used for early deployment of a ME based solution which would include a migration path to UICC based solution if additional security was considered necessary by operators at a future time.

3 suggested a compromise to standardise both then ME and UICC based solutions for Rel-6 and allow the Market to decide on the choice. It was clarified that the UICC based solution would need to be mandated for implementation in Rel-6 networks. Ericsson suggested that the flows in figure 3 of their contribution could satisfy such a compromise solution.

Decisions: After some discussion SA WG3 agreed on the following:

It will be possible to run the whole MBMS security with ME only, but will also be possible to run key management using the UICC. A migratory path between the two solutions is needed and the solutions will be developed to allow this. Deviations between the two solutions would only be made for the benefit of the whole system (this implies the use of a 2-tiered system). The difference between the two solutions for delivering the low-level keys would be visible only inside the UE and secondly, the BMSC would know which solution is implemented in the UE side. A Rel-6 compliant UE will support both UICC based and ME based solutions and the Operator will have control over the choice of method used for MBMS services.

Telecom Italia expressed strong reservations to this compromise.

For the ME part, GBA and MIKEY (with possible 3GPP-specific enhancements, e.g. for the support of encrypted keys) will be used as a basis for the standardised solution. This does not rule out DRM based solutions, e.g. DOWNLOAD.

TD S3-030696: Adding Integrity to Counting Idle Mode terminals in MBMS. This was introduced by Qualcomm Europe and describes a concern is that a malicious UE may force a network operator to broadcast MBMS content when there are insufficient MBMS subscribers to warrant the broadcast. Therefore an attack on network resources may be launched. Qualcomm Europe proposed to add integrity to the registration procedure to prevent this attack on network resources. There was some discussion on the methods considered in RAN for counting / deciding which delivery method to use. It was reported that RAN WGs were considering connect and starting with point-to-point, then point-to-multipoint before opening up to full broadcast depending on the number of connects active. It was also reported that GERAN WGs had not yet decided on a method. It was decided that this issue should be studied by SA WG3 and contributions were invited on this subject if Members think this should be developed.

TD S3-030708: MBMS Traffic Encryption Key gradually Changing and Updating for streaming service. This was introduced by Samsung Electronics and proposed to adopt the described TEK gradually changing and updating for MBMS key management. A text proposal was provided in the contribution to implement the proposal. The idea was considered interesting, but puts an additional requirement upon the algorithm, which has already been decided upon. The cryptographic strength of this proposal would also need to be investigated. Further contribution was invited based on analysis of the issues around this.

TD S3-030710: Differentiation of MBMS traffic protection mechanisms. This was provided by Samsung Electronics at meeting #30 and had already been handled.

TD S3-030711: MBMS service activation and Initial TEK distribution. This was provided by Samsung Electronics at meeting #30 and had already been handled.

TD S3-030755: Some MBMS data flows. This was introduced by 3 and proposed some data flows to help complete the draft TS. 3 pointed out that some of the proposed changes may be controversial and delegates should study the impact of the proposals. There was some concern on the number of keys used and it was clarified that the proposal was for 2 keys for each multicast service. The Pseudo-CR was reviewed and updated in **TD S3-030801** which was **agreed** for inclusion by the editor in the draft TS.

The Rapporteur was asked to update draft TS 33.246 with the agreed changes and distribute it to M. Pope for presentation to TSG SA #22 for information.

6.21 Key Management of group keys for Voice Group Call Services

TD S3-030658: SMG10 meeting report (extract on ASCII). This was introduced by BT Group and described the Voice Group Call Service concepts as provided in SMG 10 meeting in October 1998. The document was provided for information and was **noted**.

TD S3-030659: Use of the same algorithms for encryption of VGCS-calls as for normal GSM-speech calls (i.e. A5/0-A5/7). This was introduced by BT Group and makes some recommendations based on discussions previously held about Group Call Keys:

- 1) SA WG3 reconsider the use of a two key hierarchy;
- 2) SA WG3 should consider the use of additional inputs to the ciphering algorithm e.g. TETRA combines the cipher key with the Carrier Number (CN) and Base station Colour Code (CC) and Location Area identifier (LA) to prevent attacks on the encryption process by replaying cipher text to eliminate the key stream;
- 3) A distinguishing direction id may need to be added as an input to the ciphering algorithm.

It was clarified that the choice of ciphering algorithm was the subject of other contributions. It was commented that to obtain plaintext by the XOR technique was not a trivial task.

These recommendations had been captured in [TD S3-030692](#) and therefore the contribution was **noted**.

TD S3-030692: Securing VGCS calls. This was introduced by Siemens on behalf of Siemens and Vodafone and proposed a different concept to secure GSM Voice Group Calls which has some similarities to TETRA. Some discussion on the scenarios and proposals ensued. BT Group reported that there were many services other than simple voice calls envisaged for this service and the security requirements for some are higher than simple telephone conversation protection (e.g. emergency Rail telemetry monitoring service) and key stream repeat could be a serious threat to the system.

The contribution proposed changes to the working assumptions:

- C) [On call set-up the GCR selects one group key and sends it to the BSS and the group key number to the UE which fetches the corresponding key from the USIM.](#)
Comment: Changes required as the Group Key will not leave the UICC and GCR.
Proposed new text: On call set-up the GCR selects one group key, [generates a temporary key with a RAND](#) and sends [the temporary key](#) to the BSS and the group key number [and RAND](#) to the UE. [The UE then asks the UICC to generate a temporary key based on the group key number and broadcasted information \(RAND\)](#) ~~which fetches the corresponding key from the USIM.~~
- D) Principle D was **deleted** as proposed. It was **noted** that Group Key Management would need further study.
- E) Proposed to delete the note and to add following text: [Any requirement for modification of the input parameters to A5 shall be achieved using a separate Key Modification Function \(KMF\). How this function is realized is currently under study.](#)
- F) [Principle F was deleted as proposed.](#)
- G) [Principle G was deleted as proposed.](#)
- H) [Proposed to make the use of OTA for updating VGCS group keys to the UICC optional for the operator. This proposal was approved.](#)
- F-I) Principles ~~F-I were~~ [was](#) proposed for further study.

The paper concluded with the following proposals:

- 1) To agree that REQ-1 and REQ-2 need to be realized. **AGREED**. Depends on GERAN WG2 reply.
- 2) To discuss and decide if SA WG3 wants a solution for realizing REQ-3 and REQ-4 as this enhances VGCS call channel security above dedicated channel security. **Pending: Contribution invited**.
- 3) To wait for agreeing a solution for realizing REQ-3 and REQ-4 as inputs from GERAN 2 are needed to evaluate complexity and feasibility. **AGREED**.
- 4) To adopt the two-step approach and rationales from section 3 as a working assumption. **AGREED**.
- 5) To inform ETSI EP RT (GSM-R) on the progress of the discussions. **AGREED**. An LS was provided in [TD S3-030773](#) which was revised in [TD S3-030803](#)⁴ and **approved**.
- 6) To ask T WG3 to realize the needed functions on the USIM. **AGREED**. An LS was provided in [TD S3-030774](#) which was revised in [TD S3-030804](#)⁵ and **approved**.
- 7) To ask SAGE to select suitable key derivation/modification functions for both ME and UICC after deciding the input and output parameters. Minimal length of RAND should be requested.
P. Christoffersson to take early warning message to SAGE .
- 8) To decide whether all VGCS network interfaces and key derivation/modification functions shall already be able to support 128-bit cipher keys although no A5 cipher algorithm are yet in the field that support 128-bit keys. At least the key modification/derivation functions should be able to handle 128-bit keys for the input and output parameters. **AGREED**.
- 9) To inform GERAN WG2 about the above decisions (bullet point 2 and 8) and ask them for commenting a) if potential problems with CGI at handover can be expected and b) to select the right mechanism for broadcasting a RAND, GLOBAL_COUNT to generate the short term key from.
AGREED (also to check correctness of text changes in C) for channel use. See the LS in [TD S3-030774](#).

[TD S3-030760](#): Response LS (from SA WG1) on support of GSM SIM files (and services) on the USIM, and USIM changes for key management of Voice Group Call Services. This was introduced by Motorola and asked SA WG3 to continue work developing key management for ASCII / VGCS. It was noted that work is ongoing on this in SA WG3 and the LS was **noted**.

6.22 Guide to 3G security (TR 33.900)

There were no specific contributions under this agenda item.

7 Review and update of work programme

Due to lack of time to deal with this during the meeting, Rapporteurs and editors were given the action to provide the secretary with updates to the Work Plan for their respective Work Items. The Secretary, M. Pope undertook to send the current status in the work plan of SA WG3 Work Items on 24 November for update and return by 27 November 2003. **This was considered an important task, as TSG SA are expected to use the Work Plan status for determining the Rel-6 freeze date at TSG SA meeting #22 in December 2003.**

AP 31/010: M. Pope to send SA WG3 Work Plan status details to the mailing list on 24 November 2003. Rapporteurs and Editors to provide feedback to M. Pope by 27 November 2003 in order to have an accurate SA WG3 status in the work plan presented to TSG SA #22.

8 Future meeting dates and venues

There had been a discussion on the e-mail list following Qualcomms' announcement that they could only host the February 2004 meeting the week after planned at SA WG3 meeting #30.

More discussion was held over the meeting dates and venues. the 2-6 February overlapped with OMA meeting, 9-13 February with 3GPP2 and 16-20 February with a SA WG2 meeting. The results are shown in the table below.

The planned meetings were as follows:

| Meeting | Date | Location | Host |
|---------|----------------------------|-------------------------|----------------------------|
| S3#32 | 09-13 February 2004 | Edinburgh, UK | EF3 |
| S3#33 | 11-14 May 2004 | Beijing, China | Samsung |
| S3#34 | 06-09 July 2004 (TBC) | USA (TBC) | "NA Friends of 3GPP" (TBC) |
| S3#35 | 5-8 October 2004 | Host required (Sophia?) | Host required (ETSI/EF3?) |
| S3#36 | 23-26 November 2004- (TBC) | Shenzhen, China | HuaWei Technologies |
| S3#37 | February 2005 | Australia (TBC) | Qualcomm (TBC) |

LI meetings planned

| Meeting | Date | Location | Host |
|------------|--------------------|---|-----------|
| SA3 LI-#12 | 27-29 January 2004 | USA (TBA) | FBI (TBA) |
| SA3 LI-#13 | 14-16 April 2004 | Europe (TBA) | TBA |
| SA3 LI-#14 | 20-22 July 2004 | Combined with ETSI TC LI (Location TBA) | TBA |
| SA3 LI-#15 | 12-14 October 2004 | USA (TBA) | TBA |

TSGs RAN/CN/T and SA Plenary meeting schedule

| Meeting | 2003 | Location | Primary Host |
|------------------|-----------------------------|---------------|--------------------|
| TSG RAN/CN/T #22 | 9-12 December 2003 | Hawaii, USA | NA Friends of 3GPP |
| TSG SA #22 | 15-18 December 2003 | Hawaii, USA | NA Friends of 3GPP |
| Meeting | 2004 DRAFT TBD | Location | Primary Host |
| TSGs#23 | March 9-12 & 15-18 2004 | Phoenix, USA | |
| TSGs#24 | June 1-4 & 7-10 2004 | Korea | |
| TSGs#25 | 7-10 & 13-16 September 2004 | USA | |
| TSGs#26 | 7-10 & 13-16 December 2004 | To Be Decided | |

9 Any other business

The following CRs from the LI group were received to avoid the need for e-mail approval:

[TD S3-030787](#): Proposed CR to 33.108: Alignment of Lawful Interception identifiers length to ETSI TS 101 671 (Rel-6). This CR was **approved**.

[TD S3-030786](#): Proposed CR to 33.106: References (Rel-6). There was a problem with the change to section 6 as it appeared to be incomplete. Also the base version number used was questioned. The CR was **not approved** and **the LI Group were asked to repair this over e-mail in time for TSG SA approval if possible**. The updated CR was provided in [TD S3-030811](#).

[TD S3-030785](#): Proposed CR to 33.108: Reporting TEL URL (Rel-6). This CR was **approved**. M. Pope **agreed** to ensure the final change section is indicated in the CR for TSG SA.

[TD S3-030784](#): Proposed CR to 33.107: Reporting TEL URL (Rel-6). This CR was **approved**.

TD S3-030782: Proposed CR to 33.108: CS Section for 33.108 – LI Management Operation (Rel-6). This CR was **approved**. It was **noted** that only the content of figure B.1 has changed, not the title and M. Pope **agreed** to correct this before presentation to TSG SA for approval.

Secretary's note: There were significant modifications necessary, so this CR was updated in TD S3-030813 for presentation to TSG SA.

TD S3-030781: Proposed CR to 33.108: CS Section for 33.108 – User data packet transfer (Rel-6). This CR was **approved**. It was **noted** that only the presentation of changes in sections B.2 was not clear and M. Pope **agreed** to correct this before presentation to TSG SA for approval.

Secretary's note: There were significant modifications necessary, so this CR was updated in TD S3-030814 for presentation to TSG SA.

Close of meeting

The Chairman, V. Niemi, thanked delegates for their hard work during the meeting and the Hosts EF3 for the facilities at Siemens Conference Centre, Munich. He then closed the meeting.

It was **agreed** that the SA WG3 Chairman would produce a work plan for the handling of agenda items and time limits for the presentation of documents before the next meeting depending on the available contributions after the **document deadline which will be 2 February 2004 16.00 CET**.

It was **agreed** that contributions in direct response to input documents received could be accepted until a **second deadline of 4 February 2004, 16.00 CET**.

Annex A: List of attendees at the SA WG3#30 meeting and Voting List

A.1 List of attendees

| Name | Company | e-mail | Mobile Phone | Phone | Fax | 3GPP ORG | |
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| Name | Company | e-mail | Mobile Phone | Phone | Fax | 3GPP ORG | |
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[46 Attendees](#)

A.2 SA WG3 Voting list

Based on the attendees lists for meetings #29, #30 and #31, the following companies are eligible to vote at SA WG3 meeting #32:

| Company | Country | Status | Partner Org |
|-------------------------------|---------|------------|-------------|
| 3 | GB | 3GPPMEMBER | ETSI |
| ALCATEL S.A. | FR | 3GPPMEMBER | ETSI |
| AT&T Wireless Services, Inc. | US | 3GPPMEMBER | T1 |
| BMWi | DE | 3GPPMEMBER | ETSI |
| BT Group Plc | GB | 3GPPMEMBER | ETSI |
| China Mobile Com. Corporation | CN | 3GPPMEMBER | CCSA |
| DTI | GB | 3GPPMEMBER | ETSI |
| ERICSSON LM | SE | 3GPPMEMBER | ETSI |
| GEMPLUS S.A. | FR | 3GPPMEMBER | ETSI |
| GIESECKE & DEVRIENT GmbH | DE | 3GPPMEMBER | ETSI |
| HEWLETT-PACKARD France | FR | 3GPPMEMBER | ETSI |
| HUAWEI TECHNOLOGIES Co. Ltd. | CN | 3GPPMEMBER | ETSI |
| HuaWei Technologies Co., Ltd | CN | 3GPPMEMBER | CCSA |
| Intel Corporation S.A. | BE | 3GPPMEMBER | ETSI |
| Lucent Technologies | US | 3GPPMEMBER | T1 |
| Lucent Technologies N. S. UK | GB | 3GPPMEMBER | ETSI |
| Mitsubishi Electric Co. | JP | 3GPPMEMBER | ARIB |
| mmO2 plc | GB | 3GPPMEMBER | ETSI |
| MOTOROLA JAPAN LTD | JP | 3GPPMEMBER | ARIB |
| MOTOROLA Ltd | GB | 3GPPMEMBER | ETSI |
| NEC EUROPE LTD | GB | 3GPPMEMBER | ETSI |
| NOKIA Corporation | FI | 3GPPMEMBER | ETSI |
| Nokia Korea | KR | 3GPPMEMBER | TTA |
| Nokia Telecommunications Inc. | US | 3GPPMEMBER | T1 |
| NORTEL NETWORKS (EUROPE) | GB | 3GPPMEMBER | ETSI |
| NTT DoCoMo | JP | 3GPPMEMBER | ETSI |
| NTT DoCoMo Inc. | JP | 3GPPMEMBER | ARIB |
| OBERTHUR CARD SYSTEMS S.A. | FR | 3GPPMEMBER | ETSI |
| ORANGE SA | FR | 3GPPMEMBER | ETSI |
| QUALCOMM EUROPE S.A.R.L. | FR | 3GPPMEMBER | ETSI |
| RIM | CA | 3GPPMEMBER | ETSI |
| SAMSUNG Electronics | GB | 3GPPMEMBER | ETSI |
| Samsung Electronics Co., Ltd | KR | 3GPPMEMBER | TTA |
| SchlumbergerSema | FR | 3GPPMEMBER | ETSI |
| SIEMENS AG | DE | 3GPPMEMBER | ETSI |
| Siemens nv/sa | BE | 3GPPMEMBER | ETSI |
| T-MOBILE DEUTSCHLAND | DE | 3GPPMEMBER | ETSI |
| TELECOM ITALIA S.p.A. | IT | 3GPPMEMBER | ETSI |
| TELENOR AS | NO | 3GPPMEMBER | ETSI |
| TeliaSonera AB | SE | 3GPPMEMBER | ETSI |
| Toshiba Corporation | JP | 3GPPMEMBER | ARIB |
| Vodafone D2 GmbH | DE | 3GPPMEMBER | ETSI |
| VODAFONE Group Plc | GB | 3GPPMEMBER | ETSI |

43 Voting Members

Annex B: List of documents

| TD number | Title | Source | Agenda | Document for | Replaced by | Status / Comment |
|-----------|---|--|--------|-----------------------|-------------|--|
| S3-030655 | Draft agenda for SA WG3 meeting #31 | SA WG3 Chairman | 2 | Approval | | Approved |
| S3-030656 | Draft Report of SA WG3 meeting #30 | SA WG3 Secretary | 4.1 | Approval | | Modified and approved. To be put on FTP server as v1.0.0 |
| S3-030657 | Draft Report of Joint SA WG3 / CN WG1 session 7 October 2003 | SA WG3 Secretary | 4.1 | Approval | | Approved. To be put on FTP server as v1.0.0 |
| S3-030658 | SMG10 meeting report (extract on ASCII) | BT Group | 6.21 | Information | | Noted |
| S3-030659 | Use of the same algorithms for encryption of VGCS-calls as for normal GSM-speech calls (i.e. A5/0-A5/7) | BT Group | 6.21 | Discussion / Decision | | Recommendations captured in S3-030692. Noted |
| S3-030660 | LS Response on potential USIM impact of the MBMS security framework | SA WG3 | 6.20 | Information | | Approved over e-mail after SA3#30. Noted at this meeting |
| S3-030661 | TS 33.310 V0.6.0: Network Domain Security; Authentication Framework (Rel-6) | Rapporteur | 6.4 | Information | | Noted and used for updates. |
| S3-030662 | TS 33.220 V0.1.1: Generic Authentication Architecture (GAA); Generic Bootstrapping Architecture (Rel-6) | Rapporteur | 6.9 | Information | | Noted and used for updates. |
| S3-030663 | TS 33.221 V0.1.1: Generic Authentication Architecture (GAA); Support for Subscriber Certificates (Rel-6) | Rapporteur | 6.9 | Information | | Noted and used for updates. |
| S3-030664 | TR 33.919 V0.1.0: Generic Authentication Architecture; System Description (Rel-6) | Rapporteur | 6.9 | Information | | Noted and used for updates. |
| S3-030665 | 3GPP TS 33.222 V0.1.1: Generic Authentication Architecture (GAA); Access to Network Application Functions using HTTPS (Rel-6) | Rapporteur | 6.9 | Information | | Allocated as TS 33.222. Noted |
| S3-030666 | Technical Report on (U)SIM Security Reuse by Peripheral Devices on Local Interfaces (Release 6) | Toshiba, Intel, T-Mobile, Telcordia, Thomson, Fujitsu, HP, RIM, SmartTrust, BT Group PLC, Alcatel, Gemplus | 6.15 | Approval | S3-030779 | Updated with comments in S3-030779 |
| S3-030667 | Updated Annex C to 33.109: Key pair storage | Rapporteur | 6.9 | Information | | Updated after e-mail discussion on S3-030561. Agreed to add new Annex C |
| S3-030668 | Reply LS (from CN WG1) on Special-RAND mechanism | CN WG1 | 6.6 | Action | | Response LS in S3-030802 |
| S3-030669 | LS (from CN WG4) on Special-RAND mechanism | CN WG4 | 6.6 | Information | | Noted |
| S3-030670 | LS (from CN WG1) on Introducing the Privacy Mechanism in Stage 2 | CN WG1 | 6.1 | Action | | CR updated in line with this LS in S3-030772 |
| S3-030671 | LS (from CN WG3) on security of the Diameter protocol for the Gq interface | CN WG3 | 5.1 | Action | | Response LS in S3-030765 |
| S3-030672 | LS to SA3 on Clarification on use of Re-attempt Information element in Authentication Failure Report service | CN WG4 | 6.5 | Action | | C Blanchard to lead e-mail discussion and provide response by 5 Jan 2004 |
| S3-030673 | The requirement and feasibility of IMS watcher authentication | CN WG1 | 6.18 | Action | | Noted |
| S3-030674 | Reply LS (from SA WG2) on "The requirement and feasibility of IMS watcher authentication" | SA WG2 | 6.18 | Information | | Noted |
| S3-030675 | Response (from SA WG2) for Introducing the Privacy Mechanism in Stage 2 | SA WG2 | 6.1 | Action | | CR updated in line with this LS in S3-030772 |
| S3-030676 | LS (from SA WG2) on Tunnel Establishment and Security Association | SA WG2 | 6.10 | Action | | Reply LS to SA2 in S3-030789 |
| S3-030677 | Pseudo-CR to 33.310: Clarification of SEG certificate profiling | Nokia, Siemens, T-Mobile, Vodafone | 6.4 | Approval | | agreed for inclusion in draft TS |
| S3-030678 | Reply (from SA WG1) to LS on potential USIM impact of the MBMS security framework S1-031104; T3-030697) | SA WG1 | 6.20 | Information | | Noted |
| S3-030679 | LS (from SA WG1) on clarified requirements on synchronization for GUP | SA WG1 | 6.17 | Information | S3-030759 | Wrong CR attached - replaced by S3-030759 |

| TD number | Title | Source | Agenda | Document for | Replaced by | Status / Comment |
|-----------|---|--|--------|-----------------------|-------------|---|
| S3-030680 | LS (from SA WG1) on Privacy and Security Requirements within GSM/UMTS Devices | SA WG1 | 5.1 | Action | | Response LS in S3-030766 |
| S3-030681 | Reply (from SA WG1) on the requirement and feasibility of IMS watcher authentication | SA WG1 | 6.18 | Information | | Noted |
| S3-030682 | LS (from GSMA SG) on request for information on impact on equipment of solutions | GSMA Security Group working Party | 5.4 | Action | | Delegates asked to discuss questions in companies and comment to GSMA. Noted. |
| S3-030683 | Pseudo-CR to 33.221: Results of risk analysis in the "Key Pair Storage" informative annex | Gemplus, Giesecke&Devrient, Oberthur, Schlumberger | 6.9 | Approval | S3-030795 | Revised in S3-030795 |
| S3-030684 | Pseudo-CR to 33.221: on enrollment of keys in a UICC application | Schlumberger, OCS, Gemplus | 6.9 | Approval | S3-030797 | Revised in S3-030797 |
| S3-030685 | Pseudo-CR to 33.221: on on-board key generation in a UICC. | Schlumberger, OCS, Gemplus | 6.9 | Approval | | Agreed for inclusion in the draft TS |
| S3-030686 | Pseudo-CR to 33.221: on clarifications on Certificate enrollement using pre-certified keys | Schlumberger, OCS, Gemplus | 6.9 | Approval | S3-030796 | Revised in S3-030796 |
| S3-030687 | CR to 33.108: CS Section for 33.108 – User data packet transfer (Rel-6) | SA WG3 LI Group | 5.1 | Approval | | Under discussion in LI group. Will be provided for e-mail if agreed. Noted |
| S3-030688 | CR to 33.108: CS Section for 33.108 – LI Management Operation (Rel-6) | SA WG3 LI Group | 5.1 | Approval | | Under discussion in LI group. Will be provided for e-mail if agreed. Noted |
| S3-030689 | Draft TS 33.234 V0.7.0 Wireless Local Area Network (WLAN) Interworking Security | Rapporteur | 6.10 | Information | | Noted. Used for further updates from Pseudo-CRs |
| S3-030690 | 3GPP Over the Air (OTA) procedures applied to BAK Distribution and MBMS Subscription management | Schlumberger, QUALCOMM, GEMPLUS, OCS | 6.20 | Discussion / Decision | | Noted. Issues need to be clarified |
| S3-030691 | Pseudo-CR to 33.310: Removal of unnecessary restriction on serial number | Siemens, Nokia, SSH, T-mobile | 6.4 | Approval | | agreed for inclusion in draft TS |
| S3-030692 | Securing VGCS calls | Siemens, Vodafone | 6.21 | Discussion / Decision | | Principles discussed and some agreed. Resulting LSs in S3-030773 and S3-030774 |
| S3-030693 | More elements on the Special RAND mechanism | Orange | 6.6 | Discussion / Decision | | Section 4 used for LS in S3-030802. Special RAND proposal endorsed. Orange may contact GSMA about their issue |
| S3-030694 | MMS Security Considerations Version 1.0.0 | MMS Representative (A Bergmann) | 5.4 | | | Noted. A Bergmann to arrange workshop if enough resources provided |
| S3-030695 | Draft TS 33.141 V0.2.0 Presence Service; Security | Rapporteur | 6.18 | Information | | Noted. Estimated 10-15% complete |
| S3-030696 | Adding Integrity to Counting Idle Mode terminals in MBMS | Qualcomm Europe | 6.20 | Discussion / Decision | | Contribution invited if need seen for protection against this |
| S3-030697 | MBMS Usage and Quality of Service based on BAK Distribution | Gemplus, Oberthur, QUALCOMM Europe, SchlumbergerSema | 6.20 | Discussion | | Noted |
| S3-030698 | Proposed CR to 43.020: Introducing the special RAND mechanism (Rel-6) | Orange, Vodafone | 6.6 | Approval | | Related CR in S3-030761. Additional changes to be sent to S Fouquet for input to next meeting |
| S3-030699 | MBMS UICC open issues | Siemens | 6.20 | Discussion / Decision | | Comments recorded on each issue |
| S3-030700 | MBMS (re-)keying models | Siemens | 6.20 | Discussion / Decision | | Working assumptions and requirement agreed in principle |

| TD number | Title | Source | Agenda | Document for | Replaced by | Status / Comment |
|-----------|---|------------------------------------|------------|-----------------------|-------------|---|
| S3-030701 | MBMS: Replaying of RAND values | Siemens | 6.20 | Discussion / Decision | | Req needed if UICC-based solution chosen |
| S3-030702 | Security Analysis on the SA2 resolution architecture | Huawei Technologies Co., Ltd. | 6.10 | Discussion | S3-030762 | Revised in S3-030762 |
| S3-030703 | Evaluation of re-keying methods | Huawei Technologies Co., Ltd. | 6.20 | Discussion / Decision | | Discussed with S3-030751, S3-030709 and S3-030723. Common decisions reached |
| S3-030704 | Pseudo-CR to 33.220: Transaction Identifier independence for different NAFs or NAF groups | Huawei Technologies Co., Ltd. | 6.9 | Approval | | rejected as synchronisation issues need solving before this can be agreed |
| S3-030705 | Pseudo-CR to 33.310: Removing outdated editor's notes | Nokia, Siemens, T-Mobile, Vodafone | 6.4 | Approval | | agreed for inclusion in draft TS |
| S3-030706 | Pseudo-CR to 33.310: Recommendation to SEG certificate and IKE profiling | Nokia, Siemens, Vodafone | 6.4 | Approval | | agreed for inclusion in draft TS |
| S3-030707 | Pseudo-CR to 33.310: Local repository access clarification | Nokia, Siemens, T-Mobile, Vodafone | 6.4 | Approval | | agreed for inclusion in draft TS |
| S3-030708 | MBMS Traffic Encryption Key gradually Changing and Updating for streaming service | Samsung Electronics | 6.20 | Discussion / Decision | | Further analysis of impacts needed |
| S3-030709 | Composite MBMS Key Distribution | Samsung Electronics | 6.20 | Discussion / Decision | | Discussed with S3-030703, S3-030751 and S3-030723. Common decisions reached |
| S3-030710 | Differentiation of MBMS traffic protection mechanisms | Samsung Electronics | 6.20 | Discussion / Decision | | Handled at meeting #30 |
| S3-030711 | MBMS service activation and Initial TEK distribution | Samsung Electronics | 6.20 | Discussion / Decision | | Handled at meeting #30 |
| S3-030712 | Proposed CR to 33.203: Ensuring the correct RAND is used in synchronization failures (Rel-5) | 3, Nokia, Vodafone, Ericsson | 6.1 | Approval | S3-030768 | Revised in S3-030768 |
| S3-030713 | Proposed CR to 33.203: Ensuring the correct RAND is used in synchronization failures (Rel-6) | 3, Nokia, Vodafone, Ericsson | 6.1 | Approval | S3-030769 | Revised in S3-030769 |
| S3-030714 | Draft TS 33.246 V0.2.2: Security of Multimedia Broadcast/Multicast Service | Rapporteur | 6.20 | Information | | noted |
| S3-030715 | Pseudo-CR to 33.234: Clarification to reauthentication procedures | Nokia | 6.10 | Approval | | Agreed for inclusion in the draft TS |
| S3-030716 | Pseudo CR to GAA TR 33.919 | Alcatel | 6.9 | Discussion / Decision | | Agreed for inclusion in the draft TS |
| S3-030717 | Organization of Presence TS and HTTPS TS | Ericsson, Nokia | 6.9 / 6.18 | Discussion / Decision | | Proposals endorsed |
| S3-030718 | Presentation Slides: Liberty Alliance Project - Setting the Standard for Federated Network Identity | Nokia | 5.7 | Information | S3-030764 | revised version in S3-030764 |
| S3-030719 | Presentation Slides: Potential synergies between Liberty and 3GPP | Nokia | 5.7 | Information | | Noted |
| S3-030720 | Comparison of authentication proxy solutions | Ericsson | 6.9 / 6.18 | Discussion / Decision | | Text from S3-030744 with editors note agreed |
| S3-030721 | Challenges in using shared-secret TLS with NAFs | Ericsson | 6.9 / 6.18 | Discussion / Decision | | No decision - delegates asked to study and contribute |
| S3-030722 | User authentication process decision | Ericsson | 6.9 | Discussion / Decision | | Agreed to add to draft TS. Additional editors note to be included in draft TS |
| S3-030723 | Migration of MIKEY in MBMS key management | Ericsson | 6.20 | Discussion / Decision | | Discussed with S3-030703, S3-030751 and S3-030709. Common decisions reached |
| S3-030724 | Impacts on the 3GPP network with a UICC based and a non-UICC based solution in MBMS | Ericsson | 6.20 | Discussion / Decision | S3-030767 | Revised in S3-030767 |
| S3-030725 | Proposed CR to 33.203: Removing anti-replay requirement from Confidentiality clause (Rel-6) | Ericsson | 6.1 | Approval | S3-030812 | Corrected to Rel-6 CR in S3-030812 |

| TD number | Title | Source | Agenda | Document for | Replaced by | Status / Comment |
|-----------|---|------------------------------------|------------|-----------------------|-------------|---|
| S3-030726 | Proposed CR to 33.203: Network behaviour of accepting initial requests (Rel-5) | Nokia | 6.1 | Approval | | Revised in S3-030770, mirror CR in S3-030771 |
| S3-030727 | NDS and Openness of IMS | Nokia | 6.1 | Discussion | | To be discussed over e-mail - results by 15 Jan 2004 |
| S3-030728 | Pseudo-CR to 33.220: Bootstrapping procedure: merging of last two messages | Nokia | 6.9 | Approval | | agreed for inclusion in draft TS |
| S3-030729 | UE triggered unsolicited push from BSF to NAFs | Nokia | 6.9 | Discussion / Decision | | Not agreed. Overhead issues to be investigated |
| S3-030730 | Subscriber Certificate Enrollment Protocol | Nokia | 6.9 | Discussion / Decision | | Agreed for inclusion in the draft TS |
| S3-030731 | Proxy and various HTTP services | Nokia | 6.9 | Discussion / Decision | | Text from S3-030744 with editors note agreed |
| S3-030732 | Using shared key TLS with NAFs | Nokia | 6.9 | Discussion / Decision | | No decision - delegates asked to study and contribute |
| S3-030733 | Implications of the A5/2 Attack for 3GPP WLAN Access | Ericsson, TeliaSonera | 6.10 | Discussion / Decision | | Agreed to add informative annex. Contributions on further scope of this invited |
| S3-030734 | Pseudo-CR to 33.234: Re-authentication identities generation | Ericsson | 6.10 | Approval | | Agreed for inclusion in draft TS |
| S3-030735 | Pseudo-CR to 33.234: Editorial changes and informative annex in TS 33.234 | Ericsson | 6.10 | Approval | | Agreed for inclusion in draft TS |
| S3-030736 | Security of EAP or SSID based network advertisements | Ericsson | 6.10 | Discussion | | LS to SA2 in S3-030791 |
| S3-030737 | Split WLAN-UE: SIM Access Profile protocol in Bluetooth forum | Ericsson | 6.10 | Discussion / Decision | | LS to be created |
| S3-030738 | Split WLAN UE: Termination of EAP-AKA/SIM protocol | Ericsson | 6.10 | Discussion / Decision | | Attached to LS in S3-030780 |
| S3-030739 | Split WLAN-UE: Integrity protection on local interface | Ericsson | 6.10 | Discussion / Decision | | Agreed to remove requirement |
| S3-030740 | Pseudo-CR to 33.234: Only one active USIM application | Ericsson | 6.10 | Approval | | Withdrawn as redundant |
| S3-030741 | End-to-end tunneling: Security Considerations on resolution gateways | Nortel Networks, Siemens AG, Nokia | 6.10 | Discussion / Decision | | Comments against this in S3-030763. Discussed with other contributions and reply LS to SA2 in S3-030789 |
| S3-030742 | Application specific user profiles in GBA | Nortel Networks | 6.9 | Discussion / Decision | | Pseudo CR updated in S3-030794 |
| S3-030743 | Key separation in a Generic Bootstrapping Architecture | Siemens | 6.9 | Discussion / Decision | | Pseudo CR updated in S3-030793 |
| S3-030744 | Role of Authentication Proxy (AP-NAF) – Discussion and Pseudo-CRs to TSs on GAA/HTTPS and Presence Security | Siemens | 6.9 / 6.18 | Discussion / Decision | | Text from S3-030744 with editors note agreed |
| S3-030745 | Technical solutions for access to application servers via Authentication Proxy and HTTPS - Pseudo-CRs to TSs on GAA/HTTPS and Presence Security | Siemens | 6.9 / 6.18 | Discussion / Decision | | Agreed to add to TSs with editors note added |
| S3-030746 | Transfer of an asserted User Identity and Location of Access Control – Discussion and Pseudo-CRs to TSs on GAA/HTTPS and Presence Security | Siemens | 6.9 / 6.18 | Discussion / Decision | | Agreed with "asserted" added. |
| S3-030747 | Pseudo-CR to TS 33.234 on Requirements on UE split | Siemens | 6.10 | Discussion / Decision | | Agreed changes, editors note to be updated |
| S3-030748 | Security procedures for the set up of UE-initiated tunnels in scenario 3 | Siemens | 6.10 | Discussion / Decision | | Agreed to add updated Pseudo-CR in S3-030790 |
| S3-030749 | Pseudo-CR to GAA/HTTPS doc: Initial text for the TS | Siemens | 6.9 | Discussion / Decision | | Agreed and 2 editors notes added |
| S3-030750 | Considerations on selective encryption and integrity protection for DRM protected PSS media streams | Ericsson | 6.20 | Discussion | | Presentation slides provided in S3-030776. LS in S3-030777 |

| TD number | Title | Source | Agenda | Document for | Replaced by | Status / Comment |
|-----------|--|-------------------------------|-----------|-----------------------|-------------|---|
| S3-030751 | Further updates on Combined model for MBMS security | Nokia | 6.20 | Discussion / Decision | | Discussed with S3-030703, S3-030709 and S3-030723. Common decisions reached |
| S3-030752 | DRM usage for MBMS security | Nokia | 6.20 | Discussion / Decision | | LS in S3-030777 |
| S3-030753 | CR's on "Handling of key sets at inter-system change" | Ericsson | 6.5 / 6.6 | Discussion / Decision | | CRs in S3-030625 and S3-030626 were postponed |
| S3-030754 | Enhancements to GSM/UMTS AKA | Ericsson | 6.5 / 6.6 | Discussion | | long-term solution. Comments over e-mail requested |
| S3-030755 | Some MBMS data flows | 3 | 6.20 | Discussion / Approval | | attached P-CR updated in S3-030801 |
| S3-030756 | Liaison (from Download+DRM group OMA) to 3GPP SA WG4 and SA WG3 on issues on DRM for PSS and MBMS streams | Download+DRM group OMA | 6.20 | Discussion | | LATE_DOC . Related LS in S3-030758 also considered. |
| S3-030757 | T1P1.5 Lawful Intercept | T1P1.5 Chair | 5.7 | Information | | LATE_DOC . LI Group to handle. Noted. |
| S3-030758 | Liaison (from Download+DRM group OMA) to 3GPP SA WG4 and SA WG3 on issues on DRM for PSS and MBMS streams | Download+DRM group OMA | 6.20 | Action | | LATE_DOC . Related LS in S3-030756 also considered. |
| S3-030759 | LS (from SA WG1) on clarified requirements on synchronization for GUP | SA WG1 | 6.17 | Information | | LATE_DOC Noted |
| S3-030760 | Response LS (from SA WG1) on support of GSM SIM files (and services) on the USIM, and USIM changes for key management of Voice Group Call Services | SA WG1 | 6.21 | Action | | LATE_DOC . Work ongoing in S3. Noted |
| S3-030761 | Proposed CR to 33.102: Introducing the special RAND mechanism (Rel-6) | Orange, Vodafone | 6.6 | Approval | | LATE_DOC . Related CR in S3-030698. Update if needed after 43.020 is updated at next meeting |
| S3-030762 | Security Analysis on the SA2 resolution architecture | Huawei Technologies Co., Ltd. | 6.10 | | S3-030788 | LATE_DOC New version with rev marks in S3-030788 |
| S3-030763 | Comments on S3-030741: Security Considerations on resolution gateways | Huawei Technologies Co., Ltd. | 6.10 | Discussion / Decision | S3-030789 | LATE_DOC Discussed with other contributions and reply LS to SA2 in S3-030789 |
| S3-030764 | Presentation Slides: Liberty Alliance Project - Setting the Standard for Federated Network Identity | Nokia | 5.7 | Information | | Noted |
| S3-030765 | Response LS to S3-030671 on security of the Diameter protocol for the Gq interface | SA WG3 | 5.1 | Approval | S3-030810 | Revised in S3-030810 |
| S3-030766 | Response LS to S3-030680: Reply LS on privacy and security requirements in GSM/UMTS devices | SA WG3 | 5.1 | Approval | S3-030809 | Revised in S3-030809 |
| S3-030767 | Impacts on the 3GPP network with a UICC based and a non-UICC based solution in MBMS | Ericsson | 6.20 | Discussion / Decision | | Discussed and noted |
| S3-030768 | Proposed CR to 33.203: Ensuring the correct RAND is used in synchronization failures (Rel-5) | 3, Nokia, Vodafone, Ericsson | 6.1 | Approval | | Approved |
| S3-030769 | Proposed CR to 33.203: Ensuring the correct RAND is used in synchronization failures (Rel-6) | 3, Nokia, Vodafone, Ericsson | 6.1 | Approval | | Approved |
| S3-030770 | Proposed CR to 33.203: Network behaviour of accepting initial requests (Rel-5) | Nokia | 6.1 | Approval | | Approved |
| S3-030771 | Proposed CR to 33.203: Network behaviour of accepting initial requests (Rel-6) | Nokia | 6.1 | Approval | | Approved |
| S3-030772 | Proposed CR to 33.203: Introducing the SIP Privacy mechanism in Stage 2 specifications (Rel-5) | Krister | 7.1 | Approval | | Includes comments from CN1 and SA2. Approved |
| S3-030773 | LS to T3 cc GSM-R on Status of VGCS work in SA3 | SA WG3 | 6.21 | Approval | S3-030803 | Revised in S3-030803 |
| S3-030774 | LS to GERAN 2 on 'Cipherring for Voice Group Call Services' | SA WG3 | 6.21 | Approval | S3-030804 | Revised in S3-030804 |

| TD number | Title | Source | Agenda | Document for | Replaced by | Status / Comment |
|-----------|--|--|--------|--------------|-------------|--|
| S3-030775 | Proposed order of handling MBMS documents | 3 | 6.20 | Information | | Noted |
| S3-030776 | Considerations on selective encryption and integrity protection for DRM protected PSS and MBMS media streams | Ericsson | 6.20 | Information | | Presentation used for S3-030750. Discussed & Noted |
| S3-030777 | LS on Protection of MBMS and DRM Streaming Services | SA WG3 | 6.20 | Approval | S3-030805 | Revised in S3-030805 |
| S3-030778 | LS to SA2 and SA4 (CC SA1) on service announcement and UE joining procedure | SA WG3 | 6.20 | Approval | S3-030806 | Revised in S3-030806 |
| S3-030779 | TR 33.8xy: Feasibility Study on (U)SIM Security Reuse by Peripheral Devices on Local Interfaces (Release 6) | Toshiba, Intel, T-Mobile, Telcordia, Thomson, Fujitsu, HP, RIM, SmartTrust, BT Group PLC, Alcatel, Gemplus | 6.15 | Approval | S3-030792 | Minor changes made and revisions removed. Revised in S3-030792 |
| S3-030780 | LS to Bluetooth groups: SIM Access Profile in split WLAN-UE | SA WG3 | 6.10 | Approval | | Approved |
| S3-030781 | Proposed CR to 33.108: CS Section for 33.108 – User data packet transfer (Rel-6) | SA WG3 LI Group | | Approval | S3-030814 | Approved and later updated in S3-030814 by MCC |
| S3-030782 | Proposed CR to 33.108: CS Section for 33.108 – LI Management Operation (Rel-6) | SA WG3 LI Group | | Approval | S3-030813 | Approved and later updated in S3-030813 by MCC |
| S3-030783 | LS (from LI Group) on 3GPP WLAN interworking Lawful Interception Requirements | SA WG3 LI Group | 6.10 | Action | | Delegates to talk to LI colleagues to clarify issues |
| S3-030784 | Proposed CR to 33.107: Reporting TEL URL (Rel-6) | SA WG3 LI Group | | Approval | | Approved |
| S3-030785 | Proposed CR to 33.108: Reporting TEL URL (Rel-6) | SA WG3 LI Group | | Approval | | Approved |
| S3-030786 | Proposed CR to 33.106: References (Rel-6) | SA WG3 LI Group | | Approval | S3-030811 | Change in section 6 is corrupted. LI to repair over e-mail. New version in S3-030811 |
| S3-030787 | Proposed CR to 33.108: Alignment of Lawful Interception identifiers length to ETSI TS 101 671 (Rel-6) | SA WG3 LI Group | | Approval | | Approved |
| S3-030788 | Security Analysis on the SA2 resolution architecture (with and without revision marks) | Huawei Technologies Co., Ltd. | 6.10 | Discussion | | LATE_DOC Not dealt with. Author can submit to next meeting if still relevant |
| S3-030789 | Reply LS to SA WG2 on Tunnel Establishment and Security Association | SA WG3 | 6.10 | Approval | S3-030808 | Revised in S3-030808 |
| S3-030790 | Pseudo-CR to 33.234: Security procedures for UE-initiated tunneling | Ericsson | 6.10 | Approval | | Agreed for inclusion in draft TS |
| S3-030791 | LS to SA WG2 on Security of EAP or SSID based network advertisements | SA WG3 | 6.10 | Approval | S3-030807 | Revised in S3-030807 |
| S3-030792 | TR 33.8xy: Feasibility Study on (U)SIM Security Reuse by Peripheral Devices on Local Interfaces (Release 6) | Toshiba, Intel, T-Mobile, Telcordia, Thomson, Fujitsu, HP, RIM, SmartTrust, BT Group PLC, Alcatel, Gemplus | 6.15 | Approval | | Approved for presentation to TSG SA for information |
| S3-030793 | Pseudo-CR to 33.220: Key separation | Siemens | 6.9 | Approval | | Approved. P Christofferson to ask SAGE to advise on Algs |
| S3-030794 | Pseudo-CR to 33.220: Removal of application specific user profile requirements from GBA | Nortel Networks | 6.9 | Approval | | Approved for inclusion in the draft TS |
| S3-030795 | Pseudo-CR to 33.221: Results of risk analysis in the "Key Pair Storage" informative annex | Gemplus, Giesecke&Devrient, Oberthur, Schlumberger | 6.9 | Approval | | Approved for inclusion in the draft TS |
| S3-030796 | Pseudo-CR to 33.221: on clarifications on Certificate enrollement using pre-certified keys | Schlumberger, OCS, Gemplus | 6.9 | Approval | | Agreed for inclusion in the draft TS |
| S3-030797 | Pseudo-CR to 33.221: on enrollment of keys in a UICC application | Schlumberger, OCS, Gemplus | 6.9 | Approval | | Agreed for inclusion in the draft TS |
| S3-030798 | Proposed correction to IMS CRs | 3 | 6.1 | Approval | | LATE_DOC. Agreed |

| TD number | Title | Source | Agenda | Document for | Replaced by | Status / Comment |
|-----------|--|-----------------|--------|--------------|-------------|----------------------------------|
| S3-030799 | Proposed CR to 33.203: Correcting the text on sending an authentication response (Rel-5) Replacing S3-030601 | 3 | 6.1 | Approval | | LATE_DOC. Approved |
| S3-030800 | Proposed CR to 33.203: Correcting the text on sending an authentication response (Rel-6) Replacing S3-030602 | 3 | 6.1 | Approval | | LATE_DOC. Approved |
| S3-030801 | Pseudo-CR to MBMS draft TS: Key management | SA WG3 | 6.20 | Approval | | Agreed for inclusion in draft TS |
| S3-030802 | Reply LS to CN1 on special-RAND | SA WG3 | 6.6 | Approval | | Approved |
| S3-030803 | LS to T3 cc GSM-R on Status of VGCS work in SA3 | SA WG3 | 6.21 | Approval | | Approved |
| S3-030804 | LS to GERAN 2 on 'Ciphering for Voice Group Call Services' | SA WG3 | 6.21 | Approval | | Approved |
| S3-030805 | LS on Protection of MBMS and DRM Streaming Services | SA WG3 | 6.20 | Approval | | Approved |
| S3-030806 | LS to SA2 and SA4 (CC SA1) on service announcement and UE joining procedure | SA WG3 | 6.20 | Approval | | Approved |
| S3-030807 | LS to SA WG2 on Security of EAP or SSID based network advertisements | SA WG3 | 6.10 | Approval | | Approved |
| S3-030808 | Reply LS to SA WG2 on Tunnel Establishment and Security Association | SA WG3 | 6.10 | Approval | | Approved |
| S3-030809 | Response LS to S3-030680: Reply LS on privacy and security requirements in GSM/UMTS devices | SA WG3 | 5.1 | Approval | | Approved |
| S3-030810 | Response LS to S3-030671 on security of the Diameter protocol for the Gq interface | SA WG3 | 5.1 | Approval | | Approved |
| S3-030811 | Proposed CR to 33.106: References (Rel-6) | SA WG3 LI Group | | Approval | | e-mail check ongoing |
| S3-030812 | Proposed CR to 33.203: Removing anti-replay requirement from Confidentiality clause (Rel-6) | Ericsson | 6.1 | Approval | | Approved |
| S3-030813 | Proposed CR to 33.108: CS Section for 33.108 – User data packet transfer (Rel-6) | SA WG3 LI Group | | Approval | | Approved |
| S3-030814 | Proposed CR to 33.108: CS Section for 33.108 – LI Management Operation (Rel-6) | SA WG3 LI Group | | Approval | | Approved |

* Documents in blue font were created after the close of the meeting.

Annex C: Status of specifications under SA WG3 responsibility

| Type | Number | Title | Ver at TSG#18 | Rel | TSG/WG | Editor | Comment |
|---|--------|---|---------------|-------|--------|------------------------|---|
| Release 1999 GSM Specifications and Reports | | | | | | | |
| TR | 01.31 | Fraud Information Gathering System (FIGS); Service requirements; Stage 0 | 8.0.0 | R99 | S3 | WRIGHT, Tim | |
| TR | 01.33 | Lawful Interception requirements for GSM | 8.0.0 | R99 | S3 | MCKIBBEN, Bernie | |
| TS | 01.61 | General Packet Radio Service (GPRS); GPRS ciphering algorithm requirements | 8.0.0 | R99 | S3 | WALKER, Michael | |
| TS | 02.09 | Security aspects | 8.0.1 | R99 | S3 | CHRISTOFFERSSON, Per | |
| TS | 02.33 | Lawful Interception (LI); Stage 1 | 8.0.1 | R99 | S3 | MCKIBBEN, Bernie | |
| TS | 03.20 | Security-related Network Functions | 8.1.0 | R99 | S3 | NGUYEN NGOC, Sebastien | |
| TS | 03.33 | Lawful Interception; Stage 2 | 8.1.0 | R99 | S3 | MCKIBBEN, Bernie | |
| Release 1999 3GPP Specifications and Reports | | | | | | | |
| TS | 21.133 | 3G security; Security threats and requirements | 3.2.0 | R99 | S3 | CHRISTOFFERSSON, Per | |
| TS | 22.022 | Personalisation of Mobile Equipment (ME); Mobile functionality specification | 3.2.1 | R99 | S3 | NGUYEN NGOC, Sebastien | Transfer>TSG#4 |
| TS | 22.031 | Fraud Information Gathering System (FIGS); Service description; Stage 1 | 3.0.0 | R99 | S3 | WRIGHT, Tim | SP-18: decided FIGS is joint GERAN/UTRAN so 02.31 R99 and 42.031 Rel-4 & Rel-5 -> 22.031. |
| TS | 22.032 | Immediate Service Termination (IST); Service description; Stage 1 | 3.0.0 | R99 | S3 | WRIGHT, Tim | SP-16: created to take over from 02.32 (R99) and 42.032 (Rel-4 onwards). |
| TS | 23.031 | Fraud Information Gathering System (FIGS); Service description; Stage 2 | 3.0.0 | R99 | S3 | WRIGHT, Tim | SP-18: decided FIGS is joint GERAN/UTRAN so 03.31 R99 and 43.031 Rel-4 & Rel-5 -> 23.031. |
| TS | 23.035 | Immediate Service Termination (IST); Stage 2 | 3.1.0 | R99 | S3 | WRIGHT, Tim | SP-16: created to take over from 03.35 (R99) and 43.035 (Rel-4 onwards). |
| TS | 33.102 | 3G security; Security architecture | 3.13.0 | R99 | S3 | BLOMMAERT, Marc | |
| TS | 33.103 | 3G security; Integration guidelines | 3.7.0 | R99 | S3 | BLANCHARD, Colin | |
| TS | 33.105 | Cryptographic Algorithm requirements | 3.8.0 | R99 | S3 | CHIKAZAWA, Takeshi | |
| TS | 33.106 | Lawful interception requirements | 3.1.0 | R99 | S3 | WILHELM, Berthold | |
| TS | 33.107 | 3G security; Lawful interception architecture and functions | 3.5.0 | R99 | S3 | WILHELM, Berthold | |
| TS | 33.120 | Security Objectives and Principles | 3.0.0 | R99 | S3 | WRIGHT, Tim | |
| TR | 33.901 | Criteria for cryptographic Algorithm design process | 3.0.0 | R99 | S3 | BLOM, Rolf | |
| TR | 33.902 | Formal Analysis of the 3G Authentication Protocol | 3.1.0 | R99 | S3 | HORN, Guenther | |
| TR | 33.908 | 3G Security; General report on the design, specification and evaluation of 3GPP standard confidentiality and integrity algorithms | 3.0.0 | R99 | S3 | WALKER, Michael | TSG#7: S3-000105=NP-000049 |
| TS | 35.201 | Specification of the 3GPP confidentiality and integrity algorithms; Document 1: f8 and f9 specifications | 3.2.0 | R99 | S3 | WALKER, Michael | ex SAGE; supplied by ETSI under licence |
| TS | 35.202 | Specification of the 3GPP confidentiality and integrity algorithms; Document 2: Kasumi algorithm specification | 3.1.2 | R99 | S3 | WALKER, Michael | ex SAGE; supplied by ETSI under licence |
| TS | 35.203 | Specification of the 3GPP confidentiality and integrity algorithms; Document 3: Implementors' test data | 3.1.2 | R99 | S3 | WALKER, Michael | ex SAGE; supplied by ETSI under licence |
| TS | 35.204 | Specification of the 3GPP confidentiality and integrity algorithms; Document 4: Design conformance test data | 3.1.2 | R99 | S3 | WALKER, Michael | ex SAGE; supplied by ETSI under licence |
| Release 4 3GPP Specifications and Reports | | | | | | | |
| TS | 21.133 | 3G security; Security threats and requirements | 4.1.0 | Rel-4 | S3 | CHRISTOFFERSSON, Per | |

| Type | Number | Title | Ver at TSG#18 | Rel | TSG/WG | Editor | Comment |
|------|--------|--|---------------|-------|--------|------------------------|---|
| TS | 22.022 | Personalisation of Mobile Equipment (ME); Mobile functionality specification | 4.1.0 | Rel-4 | S3 | NGUYEN NGOC, Sebastien | Transfer>TSG#4 |
| TS | 22.031 | Fraud Information Gathering System (FIGS); Service description; Stage 1 | 4.0.0 | Rel-4 | S3 | WRIGHT, Tim | SP-18: decided FIGS is joint GERAN/UTRAN so 02.31 R99 and 42.031 Rel-4 & Rel-5 -> 22.031. |
| TS | 22.032 | Immediate Service Termination (IST); Service description; Stage 1 | 4.0.0 | Rel-4 | S3 | WRIGHT, Tim | SP-16: created to take over from 02.32 (R99) and 42.032 (Rel-4 onwards). |
| TS | 23.031 | Fraud Information Gathering System (FIGS); Service description; Stage 2 | 4.0.0 | Rel-4 | S3 | WRIGHT, Tim | SP-18: decided FIGS is joint GERAN/UTRAN so 03.31 R99 and 43.031 Rel-4 & Rel-5 -> 23.031. |
| TS | 23.035 | Immediate Service Termination (IST); Stage 2 | 4.1.0 | Rel-4 | S3 | WRIGHT, Tim | SP-16: created to take over from 03.35 (R99) and 43.035 (Rel-4 onwards). |
| TS | 33.102 | 3G security; Security architecture | 4.5.0 | Rel-4 | S3 | BLOMMAERT, Marc | |
| TS | 33.103 | 3G security; Integration guidelines | 4.2.0 | Rel-4 | S3 | BLANCHARD, Colin | |
| TS | 33.105 | Cryptographic Algorithm requirements | 4.1.0 | Rel-4 | S3 | CHIKAZAWA, Takeshi | |
| TS | 33.106 | Lawful interception requirements | 4.0.0 | Rel-4 | S3 | WILHELM, Berthold | |
| TS | 33.107 | 3G security; Lawful interception architecture and functions | 4.3.0 | Rel-4 | S3 | WILHELM, Berthold | |
| TS | 33.120 | Security Objectives and Principles | 4.0.0 | Rel-4 | S3 | WRIGHT, Tim | |
| TS | 33.200 | 3G Security; Network Domain Security (NDS); Mobile Application Part (MAP) application layer security | 4.3.0 | Rel-4 | S3 | ESCOTT, Adrian | 2001-05-24: title grows MAP; see 33.210 for IP equivalent. |
| TR | 33.901 | Criteria for cryptographic Algorithm design process | 4.0.0 | Rel-4 | S3 | BLOM, Rolf | |
| TR | 33.902 | Formal Analysis of the 3G Authentication Protocol | 4.0.0 | Rel-4 | S3 | HORN, Guenther | |
| TR | 33.903 | Access Security for IP based services | none | Rel-4 | S3 | VACANT, | |
| TR | 33.908 | 3G Security; General report on the design, specification and evaluation of 3GPP standard confidentiality and integrity algorithms | 4.0.0 | Rel-4 | S3 | WALKER, Michael | TSG#7: S3-000105=NP-000049 |
| TR | 33.909 | 3G Security; Report on the design and evaluation of the MILENAGE algorithm set; Deliverable 5: An example algorithm for the 3GPP authentication and key generation functions | 4.0.1 | Rel-4 | S3 | WALKER, Michael | TSG#7: Is a reference in 33.908. Was withdrawn, but reinstated at TSG#10. |
| TS | 35.201 | Specification of the 3GPP confidentiality and integrity algorithms; Document 1: f8 and f9 specifications | 4.1.0 | Rel-4 | S3 | WALKER, Michael | ex SAGE; supplied by ETSI under licence |
| TS | 35.202 | Specification of the 3GPP confidentiality and integrity algorithms; Document 2: Kasumi algorithm specification | 4.0.0 | Rel-4 | S3 | WALKER, Michael | ex SAGE; supplied by ETSI under licence |
| TS | 35.203 | Specification of the 3GPP confidentiality and integrity algorithms; Document 3: Implementors' test data | 4.0.0 | Rel-4 | S3 | WALKER, Michael | ex SAGE; supplied by ETSI under licence |
| TS | 35.204 | Specification of the 3GPP confidentiality and integrity algorithms; Document 4: Design conformance test data | 4.0.0 | Rel-4 | S3 | WALKER, Michael | ex SAGE; supplied by ETSI under licence |
| TS | 35.205 | 3G Security; Specification of the MILENAGE Algorithm Set: An example algorithm set for the 3GPP authentication and key generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 1: General | 4.0.0 | Rel-4 | S3 | WALKER, Michael | ex SAGE. 2002-06: clarified that deliverable is TS not TR. |
| TS | 35.206 | 3G Security; Specification of the MILENAGE algorithm set: An example algorithm Set for the 3GPP Authentication and Key Generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 2: Algorithm specification | 4.0.0 | Rel-4 | S3 | WALKER, Michael | ex SAGE |
| TS | 35.207 | 3G Security; Specification of the MILENAGE algorithm set: An example algorithm Set for the 3GPP Authentication and Key Generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 3: Implementors' test data | 4.0.0 | Rel-4 | S3 | WALKER, Michael | ex SAGE |

| Type | Number | Title | Ver at TSG#18 | Rel | TSG/WG | Editor | Comment |
|--|--------|--|---------------|-------|--------|------------------------|---|
| TS | 35.208 | 3G Security; Specification of the MILENAGE algorithm set: An example algorithm Set for the 3GPP Authentication and Key Generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 4: Design conformance test data | 4.0.0 | Rel-4 | S3 | WALKER, Michael | ex SAGE |
| TR | 35.909 | 3G Security; Specification of the MILENAGE algorithm set: an example algorithm set for the 3GPP authentication and key generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 5: Summary and results of design and evaluation | 4.0.0 | Rel-4 | S3 | WALKER, Michael | ex SAGE |
| TR | 41.031 | Fraud Information Gathering System (FIGS); Service requirements; Stage 0 | 4.0.1 | Rel-4 | S3 | WRIGHT, Tim | |
| TR | 41.033 | Lawful Interception requirements for GSM | 4.0.1 | Rel-4 | S3 | MCKIBBEN, Bernie | |
| TS | 41.061 | General Packet Radio Service (GPRS); GPRS ciphering algorithm requirements | 4.0.0 | Rel-4 | S3 | WALKER, Michael | |
| TS | 42.009 | Security Aspects | 4.0.0 | Rel-4 | S3 | CHRISTOFFERSSON, Per | |
| TS | 42.033 | Lawful Interception; Stage 1 | 4.0.0 | Rel-4 | S3 | MCKIBBEN, Bernie | |
| TS | 43.020 | Security-related network functions | 4.0.0 | Rel-4 | S3 | GILBERT, Henri | |
| TS | 43.033 | Lawful Interception; Stage 2 | 4.0.0 | Rel-4 | S3 | MCKIBBEN, Bernie | |
| Release 5 3GPP Specifications and Reports | | | | | | | |
| TS | 22.022 | Personalisation of Mobile Equipment (ME); Mobile functionality specification | 5.0.0 | Rel-5 | S3 | NGUYEN NGOC, Sebastien | Transfer>TSG#4 |
| TS | 22.031 | Fraud Information Gathering System (FIGS); Service description; Stage 1 | 5.0.0 | Rel-5 | S3 | WRIGHT, Tim | SP-18: decided FIGS is joint GERAN/UTRAN so 02.31 R99 and 42.031 Rel-4 & Rel-5 -> 22.031. |
| TS | 22.032 | Immediate Service Termination (IST); Service description; Stage 1 | 5.0.0 | Rel-5 | S3 | WRIGHT, Tim | SP-16: created to take over from 02.32 (R99) and 42.032 (Rel-4 onwards). |
| TS | 23.031 | Fraud Information Gathering System (FIGS); Service description; Stage 2 | 5.0.0 | Rel-5 | S3 | WRIGHT, Tim | SP-18: decided FIGS is joint GERAN/UTRAN so 03.31 R99 and 43.031 Rel-4 & Rel-5 -> 23.031. |
| TS | 23.035 | Immediate Service Termination (IST); Stage 2 | 5.1.0 | Rel-5 | S3 | WRIGHT, Tim | SP-16: created to take over from 03.35 (R99) and 43.035 (Rel-4 onwards). |
| TS | 33.102 | 3G security; Security architecture | 5.3.0 | Rel-5 | S3 | BLOMMAERT, Marc | |
| TS | 33.106 | Lawful interception requirements | 5.1.0 | Rel-5 | S3 | WILHELM, Berthold | |
| TS | 33.107 | 3G security; Lawful interception architecture and functions | 5.6.0 | Rel-5 | S3 | WILHELM, Berthold | |
| TS | 33.108 | 3G security; Handover interface for Lawful Interception (LI) | 5.5.0 | Rel-5 | S3 | WILHELM, Berthold | 2001-12-04 Title changed from "Lawful Interception; Interface between core network and law agency equipment" (Berthold.Wilhelm@RegTP.de). |
| TS | 33.200 | 3G Security; Network Domain Security (NDS); Mobile Application Part (MAP) application layer security | 5.1.0 | Rel-5 | S3 | ESCOTT, Adrian | 2001-05-24: title grows MAP; see 33.210 for IP equivalent. |
| TS | 33.201 | Access domain security | none | Rel-5 | S3 | POPE, Maurice | |
| TS | 33.203 | 3G security; Access security for IP-based services | 5.7.0 | Rel-5 | S3 | BOMAN, Krister | |
| TS | 33.210 | 3G security; Network Domain Security (NDS); IP network layer security | 5.5.0 | Rel-5 | S3 | KOIEN, Geir | 2001-05-24: 33.200 split into MAP (33.200) and IP (33.210). |
| TR | 33.900 | Guide to 3G security | 0.4.1 | Rel-5 | S3 | BROOKSON, Charles | |
| TR | 33.903 | Access Security for IP based services | none | Rel-5 | S3 | VACANT, | |
| TS | 35.201 | Specification of the 3GPP confidentiality and integrity algorithms; Document 1: f8 and f9 specifications | 5.0.0 | Rel-5 | S3 | WALKER, Michael | ex SAGE; supplied by ETSI under licence |
| TS | 35.202 | Specification of the 3GPP confidentiality and integrity algorithms; Document 2: Kasumi algorithm specification | 5.0.0 | Rel-5 | S3 | WALKER, Michael | ex SAGE; supplied by ETSI under licence |

| Type | Number | Title | Ver at TSG#18 | Rel | TSG/WG | Editor | Comment |
|--|--------|---|---------------|-------|--------|-------------------|---|
| TS | 35.203 | Specification of the 3GPP confidentiality and integrity algorithms; Document 3: Implementors' test data | 5.0.0 | Rel-5 | S3 | WALKER, Michael | ex SAGE; supplied by ETSI under licence |
| TS | 35.204 | Specification of the 3GPP confidentiality and integrity algorithms; Document 4: Design conformance test data | 5.0.0 | Rel-5 | S3 | WALKER, Michael | ex SAGE; supplied by ETSI under licence |
| TS | 35.205 | 3G Security; Specification of the MILENAGE Algorithm Set: An example algorithm set for the 3GPP authentication and key generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 1: General | 5.0.0 | Rel-5 | S3 | WALKER, Michael | ex SAGE. 2002-06: clarified that deliverable is TS not TR. |
| TS | 35.206 | 3G Security; Specification of the MILENAGE algorithm set: An example algorithm Set for the 3GPP Authentication and Key Generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 2: Algorithm specification | 5.1.0 | Rel-5 | S3 | WALKER, Michael | ex SAGE |
| TS | 35.207 | 3G Security; Specification of the MILENAGE algorithm set: An example algorithm Set for the 3GPP Authentication and Key Generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 3: Implementors' test data | 5.0.0 | Rel-5 | S3 | WALKER, Michael | ex SAGE |
| TS | 35.208 | 3G Security; Specification of the MILENAGE algorithm set: An example algorithm Set for the 3GPP Authentication and Key Generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 4: Design conformance test data | 5.0.0 | Rel-5 | S3 | WALKER, Michael | ex SAGE |
| TR | 35.909 | 3G Security; Specification of the MILENAGE algorithm set: an example algorithm set for the 3GPP authentication and key generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 5: Summary and results of design and evaluation | 5.0.0 | Rel-5 | S3 | WALKER, Michael | ex SAGE |
| TR | 41.031 | Fraud Information Gathering System (FIGS); Service requirements; Stage 0 | 5.0.0 | Rel-5 | S3 | WRIGHT, Tim | |
| TR | 41.033 | Lawful Interception requirements for GSM | 5.0.0 | Rel-5 | S3 | MCKIBBEN, Bernie | |
| TS | 42.033 | Lawful Interception; Stage 1 | 5.0.0 | Rel-5 | S3 | MCKIBBEN, Bernie | |
| TS | 43.020 | Security-related network functions | 5.0.0 | Rel-5 | S3 | GILBERT, Henri | |
| TS | 43.033 | Lawful Interception; Stage 2 | 5.0.0 | Rel-5 | S3 | MCKIBBEN, Bernie | |
| Release 6 3GPP Specifications and Reports | | | | | | | |
| TS | 33.102 | 3G security; Security architecture | 6.0.0 | Rel-6 | S3 | BLOMMAERT, Marc | Created by CRs @TSG SA#21 |
| TS | 33.107 | 3G security; Lawful interception architecture and functions | 6.0.0 | Rel-6 | S3 | WILHELM, Berthold | Created by CRs @TSG SA#21 |
| TS | 33.108 | 3G security; Handover interface for Lawful Interception (LI) | 6.3.0 | Rel-6 | S3 | WILHELM, Berthold | 2001-12-04 Title changed from "Lawful Interception; Interface between core network and law agency equipment" (Berthold.Wilhelm@RegTP.de). |
| TS | 33.203 | 3G security; Access security for IP-based services | 6.0.0 | Rel-6 | S3 | BOMAN, Krister | Created by CRs @TSG SA#21 |
| TS | 33.210 | 3G security; Network Domain Security (NDS); IP network layer security | 6.3.0 | Rel-6 | S3 | KOIEN, Geir | 2001-05-24: 33.200 split into MAP (33.200) and IP (33.210). |
| TR | 33.810 | 3G Security; Network Domain Security / Authentication Framework (NDS/AF); Feasibility Study to support NDS/IP evolution | 6.0.0 | Rel-6 | S3 | N, A | 2002-07-22: was formerly 33.910. |
| TS | 55.205 | Specification of the GSM-MILENAGE algorithms: An example algorithm set for the GSM Authentication and Key Generation Functions A3 and A8 | 6.0.0 | Rel-6 | S3 | WALKER, Michael | Not subject to export control. |
| TS | 55.216 | Specification of the A5/3 encryption algorithms for GSM and EDGE, and the GEA3 encryption algorithm for GPRS; Document 1: A5/3 and GEA3 specification | 6.2.0 | Rel-6 | S3 | N, A | |

| Type | Number | Title | Ver at TSG#18 | Rel | TSG/WG | Editor | Comment |
|------|--------|---|---------------|-------|--------|--------|---------|
| TS | 55.217 | Specification of the A5/3 encryption algorithms for GSM and EDGE, and the GEA3 encryption algorithm for GPRS; Document 2: Implementors' test data | 6.1.0 | Rel-6 | S3 | N, A | |
| TS | 55.218 | Specification of the A5/3 encryption algorithms for GSM and EDGE, and the GEA3 encryption algorithm for GPRS; Document 3: Design and conformance test data | 6.1.0 | Rel-6 | S3 | N, A | |
| TR | 55.919 | Specification of the A5/3 encryption algorithms for GSM and EDGE, and the GEA3 encryption algorithm for GPRS; Document 4: Design and evaluation report | 6.1.0 | Rel-6 | S3 | N, A | |

Annex D: List of CRs to specifications under SA WG3 responsibility agreed at this meeting

| Spec | CR | Rev | Phase | Subject | Cat | Cur Vers | WG meeting | WG TD | WI |
|--------|-----|-----|-------|--|-----|----------|------------|-----------|----------|
| 33.106 | 006 | - | Rel-6 | Correction to lawful interception references (currently on e-mail approval) | F | 5.1.0 | S3-31 | S3-030811 | SEC1-LI |
| 33.107 | 035 | - | Rel-6 | Reporting TEL URL | F | 6.0.0 | S3-31 | S3-030784 | SEC1-LI |
| 33.108 | 030 | - | Rel-6 | CS Section for 33.108 – LI Management Operation (editorially corrected by MCC) | F | 6.3.0 | S3-31 | S3-030813 | SEC1-LI |
| 33.108 | 031 | - | Rel-6 | CS Section for 33.108 – User data packet transfer (editorially corrected by MCC) | F | 6.3.0 | S3-31 | S3-030814 | SEC1-LI |
| 33.108 | 032 | - | Rel-6 | Reporting TEL URL | B | 6.3.0 | S3-31 | S3-030785 | SEC1-LI |
| 33.108 | 033 | - | Rel-6 | Alignment of Lawful Interception identifiers length to ETSI TS 101 671 | F | 6.3.0 | S3-31 | S3-030787 | SEC1-LI |
| 33.203 | 047 | 1 | Rel-5 | Correcting the text on sending an authentication response | F | 5.7.0 | S3-31 | S3-030799 | IMS-ASEC |
| 33.203 | 048 | 1 | Rel-6 | Correcting the text on sending an authentication response | A | 6.0.0 | S3-31 | S3-030800 | IMS-ASEC |
| 33.203 | 058 | 1 | Rel-5 | Introducing the SIP Privacy mechanism in Stage 2 specifications | F | 5.7.0 | S3-31 | S3-030772 | IMS-ASEC |
| 33.203 | 059 | - | Rel-6 | Removing anti-replay requirement from Confidentiality clause (corrected to Rel-6 by MCC) | D | 6.0.0 | S3-31 | S3-030812 | IMS-ASEC |
| 33.203 | 060 | - | Rel-5 | Ensuring the correct RAND is used in synchronization failures | F | 5.7.0 | S3-31 | S3-030768 | IMS-ASEC |
| 33.203 | 061 | - | Rel-6 | Ensuring the correct RAND is used in synchronization failures | A | 6.0.0 | S3-31 | S3-030769 | IMS-ASEC |
| 33.203 | 062 | - | Rel-5 | Network behaviour when a new REGISTER is challenged during an on going authentication | F | 5.7.0 | S3-31 | S3-030770 | IMS-ASEC |
| 33.203 | 063 | - | Rel-6 | Network behaviour when a new REGISTER is challenged during an on going authentication | A | 6.0.0 | S3-31 | S3-030771 | IMS-ASEC |

D.1 List of CRs to specifications under SA WG3 responsibility agreed at meeting #30

Some CRs agreed at meeting #30 were modified or postponed at meeting #31. The following list shows the new status of CRs from meeting #30.

| Spec | CR | Rev | Phase | Subject | Cat | Cur Vers | WG meeting | WG TD | WI |
|--------|-----|-----|-------|--|-----|----------|------------|-----------|-----------------------|
| 33.102 | 183 | - | Rel-5 | Handling of key sets at inter-system change (Postponed at meeting #31 - Not for TSG SA#22) | F | 5.3.0 | S3-30 | S3-030625 | SEC1-NDS, IMS-ASEC |
| 33.102 | 184 | - | Rel-6 | Handling of key sets at inter-system change (Postponed at meeting #31 - Not for TSG SA#22) | A | 6.0.0 | S3-30 | S3-030626 | SEC1-NDS, IMS-ASEC |
| 33.107 | 034 | - | Rel-6 | MSISDN/IMEI clarification for GPRS interception | F | 6.0.0 | S3-30 | S3-030607 | SEC1-LI |
| 33.108 | 027 | - | Rel-5 | Correction to Annex G on TCP based transport | F | 5.5.0 | S3-30 | S3-030532 | SEC1-LI |
| 33.108 | 028 | - | Rel-6 | Correction to Annex G on TCP based transport | A | 6.3.0 | S3-30 | S3-030608 | SEC1-LI |
| 33.108 | 029 | - | Rel-6 | LI Reporting of Dialed Digits | B | 6.3.0 | S3-30 | S3-030606 | SEC1-LI |
| 33.203 | 047 | - | Rel-5 | Correcting the text on sending an authentication response (Revised at meeting #31) | F | 5.7.0 | S3-30 | S3-030601 | IMS-ASEC |
| 33.203 | 048 | - | Rel-6 | Correcting the text on sending an authentication response (Revised at meeting #31) | A | 6.0.0 | S3-30 | S3-030602 | IMS-ASEC |
| 33.203 | 049 | - | Rel-5 | SA procedures | F | 5.7.0 | S3-30 | S3-030609 | IMS-ASEC |
| 33.203 | 050 | - | Rel-6 | SA procedures | A | 6.0.0 | S3-30 | S3-030611 | IMS-ASEC |
| 33.203 | 051 | - | Rel-5 | SA parameters and management | F | 5.7.0 | S3-30 | S3-030610 | IMS-ASEC |
| 33.203 | 052 | - | Rel-6 | SA parameters and management | A | 6.0.0 | S3-30 | S3-030612 | IMS-ASEC |
| 33.203 | 053 | - | Rel-5 | Reject or discard of messages | F | 5.7.0 | S3-30 | S3-030614 | IMS-ASEC |
| 33.203 | 054 | - | Rel-6 | Reject or discard of messages | A | 6.0.0 | S3-30 | S3-030615 | IMS-ASEC |
| 33.203 | 055 | - | Rel-5 | Correcting the SA handling procedures | F | 5.7.0 | S3-30 | S3-030619 | IMS-ASEC |
| 33.203 | 056 | - | Rel-6 | Correcting the SA handling procedures | A | 6.0.0 | S3-30 | S3-030620 | IMS-ASEC |
| 33.203 | 057 | - | Rel-6 | Terminology alignment | F | 6.0.0 | S3-30 | S3-030613 | IMS-ASEC |
| 33.203 | 058 | - | Rel-5 | Introducing the SIP Privacy mechanism in Stage 2 specifications (Revised at meeting #31) | F | 5.7.0 | S3-30 | S3-030648 | IMS-ASEC |
| 55.205 | 001 | - | Rel-6 | Correction of reference | D | 6.0.0 | S3-30 | S3-030489 | SEC1- CSALGO1 |

Annex E: List of Liaisons

E.1 Liaisons to the meeting

| TD number | Title | Source TD | Comment/Status |
|-----------|--|---------------------------|---|
| S3-030668 | Reply LS (from CN WG1) on Special-RAND mechanism | N1-031612 | Response LS in S3-030802 |
| S3-030669 | LS (from CN WG4) on Special-RAND mechanism | N4-031289 | Noted |
| S3-030670 | LS (from CN WG1) on Introducing the Privacy Mechanism in Stage 2 | N1-031728 | CR updated in line with this LS in S3-030772 |
| S3-030671 | LS (from CN WG3) on security of the Diameter protocol for the Gq interface | N3-030830 | Response LS in S3-030765 |
| S3-030672 | LS to SA3 on Clarification on use of Re-attempt Information element in Authentication Failure Report service | N4-031152 | C Blanchard to lead e-mail discussion and provide response by 5 Jan 2004 |
| S3-030673 | The requirement and feasibility of IMS watcher authentication | N1-031724 | Noted |
| S3-030674 | Reply LS (from SA WG2) on "The requirement and feasibility of IMS watcher authentication" | S2-033803 | Noted |
| S3-030675 | Response (from SA WG2) for Introducing the Privacy Mechanism in Stage 2 | S2-033804 | CR updated in line with this LS in S3-030772 |
| S3-030676 | LS (from SA WG2) on Tunnel Establishment and Security Association | S2-033813 | Reply LS to SA2 in S3-030789 |
| S3-030678 | Reply (from SA WG1) to LS on potential USIM impact of the MBMS security framework S1-031104; T3-030697) | S1-031334 | Noted |
| S3-030680 | LS (from SA WG1) on Privacy and Security Requirements within GSM/UMTS Devices | S1-031312 | Response LS in S3-030766 |
| S3-030681 | Reply (from SA WG1) on the requirement and feasibility of IMS watcher authentication | S1-031210 | Noted |
| S3-030682 | LS (from GSMA SG) on request for information on impact on equipment of solutions | - | Delegates asked to discuss questions in companies and comment to GSMA. Noted. |
| S3-030756 | Liaison (from Download+DRM group OMA) to 3GPP SA WG4 and SA WG3 on issues on DRM for PSS and MBMS streams | OMA-BAC-DLDRM-2003-0264 | LATE_DOC . Related LS in S3-030758 also considered. |
| S3-030757 | T1P1.5 Lawful Intercept | - | LATE_DOC . LI Group to handle. Noted. |
| S3-030758 | Liaison (from Download+DRM group OMA) to 3GPP SA WG4 and SA WG3 on issues on DRM for PSS and MBMS streams | OMA-BAC-DLDRM-2003-0221R3 | LATE_DOC . Related LS in S3-030756 also considered. |
| S3-030759 | LS (from SA WG1) on clarified requirements on synchronization for GUP | S1-031278 | LATE_DOC Noted |
| S3-030760 | Response LS (from SA WG1) on support of GSM SIM files (and services) on the USIM, and USIM changes for key management of Voice Group Call Services | S1-031208 | LATE_DOC . Work ongoing in S3. Noted |
| S3-030783 | LS (from LI Group) on 3GPP WLAN interworking Lawful Interception Requirements | S3LI03_124r1 | Delegates to talk to LI colleagues to clarify issues |

E.2 Liaisons from the meeting

| TD number | Title | Comment/Status | TO | CC |
|---------------------------|---|--------------------------|--|------------------------------------|
| S3-030780 | LS to Bluetooth groups: SIM Access Profile in split WLAN-UE | Approved | Bluetooth Architecture Review Board (BARB), Bluetooth CAR group, Bluetooth Security Expert Group | |
| S3-030802 | Reply LS to CN1 on special-RAND | Approved | CN WG1 | GERAN WG2 |
| S3-030803 | LS to T3 cc GSM-R on Status of VGCS work in SA3 | Approved | T WG3 | ETSI EP RT, GERAN WG2, ETSI EP SCP |
| S3-030804 | LS to GERAN 2 on 'Ciphering for Voice Group Call Services' | Approved | GERAN WG2 | ETSI EP RT, T WG3 |
| S3-030805 | LS on Protection of MBMS and DRM Streaming Services | Approved | SA WG4, OMA DLDRM, ETSI SAGE | SA WG1 |
| S3-030806 | LS to SA2 and SA4 (CC SA1) on service announcement and UE joining procedure | Approved | SA WG1, SA WG2, SA WG4 | - |
| S3-030807 | LS to SA WG2 on Security of EAP or SSID based network advertisements | Approved | SA WG2 | - |
| S3-030808 | Reply LS to SA WG2 on Tunnel Establishment and Security Association | Approved | SA WG2 | - |
| S3-030809 | Response LS to S3-030680: Reply LS on privacy and security requirements in GSM/UMTS devices | Approved | SA WG1 | GSMA SeRG |
| S3-030810 | Response LS to S3-030671 on security of the Diameter protocol for the Gq interface | Approved | CN WG3 | SA WG2 |

Annex F: Actions from the meeting

- AP 31/01:** B. Sahlin to send IETF firewall-standardisation information to the e-mail list.
- AP 31/02:** B. Owen to contact SA WG3 LI group for results of LI impact of tunnelling solution for WLAN during the meeting.
- AP 31/03:** A. Bergmann to run an e-mail discussion on the MMS standardisation work and to organise a Workshop in January/February 2004 across the involved bodies if necessary.
- AP 31/04:** T Haukka to run an e-mail discussion on [TD S3-030727](#). Comments by 23 December 2003, conclusions to e-mail list 15 January 2004.
- AP 31/05:** C. Blanchard to lead an e-mail discussion on the questions from CN WG4 in [TD S3-030672](#). Discussion and comment deadline 17 December 2003. Draft response created by 24 December 2003. Approved response by 5 January 2004.
- AP 31/06:** G. Horn and K. Boman to consider section 3 of [TD S3-030731](#) and comment to T. Haukka before 20 December 2003.
- AP 31/07:** T. Haukka and K. Boman to provide any comments on section 2 of [TD S3-030746](#) to G. Horn.
- AP 31/08:** C. Blanchard was asked to check the changes made to the figures in TS 33.234 are reflected in the SA WG2 specification where they were originally copied from.
- AP 31/09:** D. Mariblanca to lead an e-mail discussion on the editors notes in section 6.1.5 of the Pseudo-CR in [TD S3-030790](#).
- AP 31/010:** M. Pope to send SA WG3 Work Plan status details to the mailing list on 24 November 2003. Rapporteurs and Editors to provide feedback to M. Pope by 27 November 2003 in order to have an accurate SA WG3 status in the work plan presented to TSG SA #22.