

**Technical Specification Group Services and System Aspects TSGS#11(01)0191  
Meeting #11, Palm Springs, CA, USA, 19-22 March 2001**

**Source:** SA WG3 Chairman  
**Title:** Request for delayed inclusion of Network Domain Security specification in Release 4  
**Document for:** Approval  
**Agenda Item:** 7.3.3

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**Rel-4 Submission form**

<b>Work Area / Item:</b>		Network Domain Security			
<b>Affects:</b>	<b>UE/MS:</b>	<b>CN: X</b>	<b>UTRAN:</b>	<b>Compatibility Issues:</b>	<b>Yes: No:</b>
<b>Expected Completion Date:</b>		E-mail for information to TSG SA May 2001 (after NDS ad-hoc meeting). TSG SA#12 approval June 2001			
<b>Services impacted:</b>					
<b>Specifications affected:</b>		29.002 (Rel-4)			
<b>Tasks within work which are not complete:</b>			See attached list (TS33200_v032_outstanding_issues.doc). These are to be completed at NDS ad-hoc meeting April 2001.		
<b>Consequences if not included in Rel-4:</b>			Changes already implemented in TS 29.002 will have to be undone		
<b>Accepted by TSG#</b>		11		<b>for late inclusion in Rel-4:</b>	

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**Abstract of document:**

Extract from WI Description sheet:

An identified security weakness in 2G systems is the absence of security in SS7 networks. This was formerly perceived not to be a problem, since this network was the province of a small number of large institutions. This is no longer the case, and so there is now a need for security precautions.

This work item describes ongoing work in S3, which had been originally tasked by SA to S3 under the name of "MAP Security", an early version of which had originally been included in Release 1999 (and then removed again when the WI was moved to Rel-4).

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**Contentious Issues:**

27 February - 02 March, 2001

Gothenburg, Sweden

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**From:** Telenor**Title:** Outstanding issues (TS33200 v032)

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### Outstanding issues (TS33200 v032)

The following is a list of some of the identified outstanding issues with TS33200 v032. Input on these issues is needed for SA3#17.

- **The question of Rel4 vs Rel5**  
A lot of what's now in TS33200 is really Rel5 material. This has a lot to do with the history of MAPsec and our decisions on how to separate the WIs to go into NDS. Personally, I prefer to look at today's contents of TS33200 as Rel4 all of it.
- **Iu/Iur-interface: We need to decide how to deal with the Iu/Iur interfaces.**
- **Gs-interface:**  
This is an SS7 based interface in the core network. The protocol is an adapted BSSAP (defined in TS29.016 and TS29.018). We need to decide how to deal with the Gs-interface.
- **The need for MAPsec towards EIR and SMS nodes.**  
Table-2 currently covers all MAP interfaces. One certainly can regulate the need to support MAPsec on these interfaces with the security profiles, so there need not be any harm in allowing these interfaces to be covered in table-2. I'd prefer it from a completeness point of view and since there indeed may be a need for secure SMS transport and for integrity protected IMEI inquiries.
- **Description of KAC:**  
The description of KAC is incomplete. It really cannot be completed until we have completed MAPsec in chapter 7.
- **Section 5.1 (Security Associations)**  
Section 5.1 is largely tutorial in nature. As such it could perhaps be entirely deleted or moved to an informative annex. Or we may choose to keep it as is.
- **Figure-2 in section 5.4 ought to be updated**
- **Chapter 7 on MAPsec must be completed**  
Both Siemens and Ericsson had major issues with chapter 7. The chapter is clearly not complete. I did not do any updates on chapter 7 in v032 except to remove HTTP references. I still kept the PUSH/PULL procedures that I introduced in v031, although as have been noted that while this is valuable discussion material it has not been agreed by S3.  
**INPUT URGENTLY NEEDED.**