Technical Specification Group Services and System Aspects ***TSGS#10(00)0631***
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Source: **Rapporteur S3 WI "Network Domain Security"**

Title: **Information about WI "Network Domain Security" and TS 33.200**

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Agenda Item: **7.3**

The specifications for MAP application layer security were scheduled to be presented to SA#10 *for information* in TS 33.200, Network Domain Security, v1.0.0. Unfortunately S3 have been unable to present these specifications to SA#10 because they are not yet considered to be sufficiently stable.

The work on network domain security in S3 has been divided into three separate work items:

- MAP application layer security (R4)
- Network domain security (including IP layer security) (R5)
- Key management for network domain security (R5)

The original intention behind this division was to produce a stable specification for MAP security (MAPsec) as early as possible and to include it in TS 33.102, Security Architecture. The original project plan scheduled MAPsec to be introduced into TS 33.102 at SA#9. However, at S3#15 in September it became apparent to S3 that MAPsec and the corresponding key management architecture would have to be tightly integrated and that it made little sense to complete one without the other. S3 also wanted to use the same mechanisms for key management for IPsec and MAPsec.

S3#15 therefore made the following decisions:

- MAPsec should not be included in TS 33.102
- A new TS for Network Domain Security should be created (TS 33.200) which should contain all specifications regarding WI "MAP application layer security", WI "Network Domain Security" and WI "Key management for network domain security"

After the S3#15 meeting in September a lot of effort has gone into trying to developing a scalable key management architecture which would be common to both MAP-over-SS7 secured at the application layer and native IP-based protocols secured with IPsec. As part of this initiative an extra ad hoc meeting was scheduled in Munich in early November to progress this work.

At S3#16 in late November it became clear that the working assumption for an architecture to secure native IP-based protocols using IPsec would probably be too complex and expensive to implement and operate. After some discussion at S3#16 it was agreed to adopt a less complex architecture for securing native IP-based protocols. Although the specifications for MAP security are reasonably stable, it was not possible to produce a new draft version of TS 33.200 for approval by S3 and consequently it has not been possible to present this TS to SA#10.

A new draft version of TS 33.200 is scheduled for distribution in S3 during January and as soon as S3 has approved the new version, it will be distributed to the SA mailing list *for information*. If it is acceptable to SA, it is planned to present TS 33.200 *for approval* to SA#11 in March as originally planned.

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