

**3GPP TSG SA3/CN2 Joint Meeting of Experts  
Darmstadt, Germany  
10 - 11 January 2000**

**3GPP S3-00060**

**Source: SA3 Meeting of Experts with CN2 experts invited**

**From: TSG SA WG3  
To: TSG SA WG2  
CC: TSG CN WG2**

**LS on Functions of Key Distribution and Key Administration for MAP security**

A meeting of experts took place 10 – 11 January 2000 in Darmstadt, Germany on the issue of MAP security. During this meeting the architectural requirements for MAP security (network domain security mechanisms) as defined in 3G TS 33.102 section 7 were reviewed.

3G TS 33.102 defines three layers for the handling of MAP security, Key Administration (Layer I), Key Distribution (Layer II) and Message Encryption (Layer III). It was obvious to the meeting that the procedures for the encryption of MAP signalling (Layer III) are the responsibility of TSG CN WG2. TSG CN WG2 and TSG SA WG3 were asked by the TSG SA #6 to work on a solution for MAP security in Release 99 (SP-99622).

However it was recognised that the procedures for Key Administration and Key Distribution have impact on the System Architecture of the 3G system. 3G TS 33.102 introduces the concept of the Key Administration Centre (KAC). In order to establish Keys (Key Administration) the KAC shall have an interface to KACs of other PLMNs and to distribute Keys (Key Distribution) the KAC shall have interfaces with network nodes within its own PLMN.

TSG SA WG2 is asked to clarify the architectural issues of those functions of the network domain security mechanisms, including the protocols to be used for the inter and intra PLMN transfer of security keys.

Attached: 3G TS 33.102, version3.3.1. [http://ftp.3gpp.org/Specs/December\\_99/33-series/33102-331.zip](http://ftp.3gpp.org/Specs/December_99/33-series/33102-331.zip)

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