

Source: CN4
Title: Protocol definition for automatic distribution of MAP security keys
Agenda item: 9.1
Document for: APPROVAL

Work Item Description

Title

Protocol definition for automatic distribution of MAP security keys

1 3GPP Work Area

	Radio Access
X	Core Network
	Services

2 Linked work items

Related WIs are:

1. *Security enhancements (1571-SA3)*

3 Justification

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 CN4 for the stage 3 work on Ze interface for automatic key distribution for MAP security.

4 Objective

The MAP protocol is used for signaling in and between core networks. It is the objective of this work item to define the protocol used in Ze interface between KAC and MAP-NE for automatic key distribution to allow updating of keys and security policies more frequently and with less possibility for error than with manual updating.

5 Service Aspects

None

6 MMI-Aspects

None

7 Charging Aspects

None

8 Security Aspects

The work item is a security item.

9 Impacts

Affects:	USIM	ME	AN	CN	Others
Yes				X	
No	X	X	X		X
Don't know					

10 Expected Output and Time scale (to be updated at each plenary)

New specifications						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
29.200	Signalling System No. 7; Mobile Application Part (MAP); Security signalling flows for the Ze interface	CN4		CN#20	CN#21	
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary#	Comments	
Affected existing and new IETF specifications						

11 Work item rapporteurs

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12 Work item leadership

CN4

13 Supporting Companies

Nokia, Vodafone, Nortel, Sonera, Orange

14 Classification of the WI (if known)

	Feature (go to 14a)
	Building Block (go to 14b)
X	Work Task (go to 14c)

14c The WI is a Work Task: parent Building Block

Rel-6 MAP application layer security (33003-SA3)