| | |
|---|---|
| **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 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.xxx | MAP Security Signalling Flows for Ze Interface | CN4 | | CN#19 | CN#20 | |
| | | | | | | |
| **Affected existing specifications** | | | | | | |
| Spec No. | CR | Subject | | | Approved at plenary# | Comments |
| | | | | | | |
| **Affected existing and new IETF specifications** | | | | | | |
| | | | | | | |
| | | | | | | |

**11          Work item raporteurs**

Jari Jansson [jari.jansson@nokia.com]

**12          Work item leadership**

CN4

**13          Supporting Companies**

Nokia, Vodafone, Nortel

**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)*