

21-24 May, 2001

Phoenix, USA

Work Item Description**Title****Security Aspects of Requirement for Network Configuration Independence****1 3GPP Work Area**

| | |
|----------|--------------|
| | Radio Access |
| X | Core Network |
| | Services |

2 Linked work items*Text***3 Justification**

SA2 has determined an architectural requirement to allow operators not to reveal the details of their network configuration. Reasons for this requirement for instance include network management and security related arguments (see TS 23.228 Annex C for more detail). One security aspect that SA2 identified was in the scalability issues associated with having security relationships between all CSCFs in all networks in absence of such a network configuration independence.

4 Objective

The objective of this work item is for SA3 to consider the security aspects of the requirement for Network Configuration Independence, as formulated by SA2 in TS 23.228, section 4.4 and annex C.

SA2 has determined this requirement and has considered some potential architectural solutions. SA3 is asked to study the security requirements of different solutions. The expected outcome of this work is one or more CR's to TS 23.228, describing the solution preferred by SA3 for meeting the network independence requirement.

5 Service Aspects*None***6 MMI-Aspects***None***7 Charging Aspects***None***8 Security Aspects**

Security aspects, as identified by SA2, may include

- establishment of security associations between CSCF's
- improved handling of denial of service attacks by not revealing CSCF addresses outside of the operator network

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 |
| | | | | | | |
| | | | | | | |
| Affected existing specifications | | | | | | |
| Spec No. | CR | Subject | | Approved at plenary# | Comments | |
| 23.228 | | IP Multimedia (IM) Subsystem | | | | |
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| Meeting | Date | Activity |
|---------|-----------------|---|
| S3#19 | July, 2001 | Presentation and discussion of CR's to 23.228 which reflect the SA3 recommendation on the appropriate security mechanism for network configuration hiding requirement. Results to be sent to SA2 via LS with SA3 recommended attached CRs |
| S3#19 | August, 2001 | Review and adopt the SA3 recommendation for the mechanism for network configuration hiding requirement as indicated in the CRs provided in the LS from SA3. |
| SA#13 | September, 2001 | Approve the CRs to 23.228 for the specification of the mechanism for the network configuration hiding requirement. |

11 Work item rapporteurs

Hugh Shieh
 AT&T Wireless Services
 +1 425 580 6898
hugh.shieh@attws.com

12 Work item leadership

SA3

13 Supporting Companies

AT&T Wireless, Nokia, Lucent, Nortel

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Classification of the WI (if known)

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

14b The WI is a Building Block: parent Feature

“Provisioning of IP-based multimedia services”