

**Agenda Item:** IMS  
**Source:** Ericsson  
**Title:** Co-operation between TISPAN WG7 and 3GPP SA3 on IMS security extensions  
**Document for:** Discussion/decision

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## 1. Introduction

This discussion paper reports Ericsson understanding on TISPAN WG7 status, and proposes closer co-operation between 3GPP SA3 and TISPAN WG7 on IMS security extensions.

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## 2. Status of work

According to the current TISPAN WG7 documentation plan, NGN/IMS access security requirements and the solution, will be documented in [07012-x]. It seems to be unclear to TISPAN WG7 if 3GPP SA3 will solve the problems related to IMS access security with broadband access. Current working assumption seems to be that TISPAN WG7 must specify the solution, and consequently [07012-x] will be a “delta specification” of 33.203, and related protocol specifications.

It is very good that WG7 is working on IMS access security requirements and solutions; however, it is unfortunate if TISPAN and 3GPP ends-up having two parallel access security specifications that must be maintained separately. Assuming that 3GPP and TISPAN are able to use the same solution, more co-operation and information sharing is required between SA3 and WG7. So far, there has not been any official discussion relationship between these working groups.

There has been one Workshop between 3GPP and TISPAN on IMS related issues already in June 2004 [3GPP-TISPAN-WS-June-2004]. NAT traversal issue was discussed. Meeting minutes specifically mention SA3 as 3GPP contact point on security issues. So far, WG7 has not contacted SA3 on any security related issues.

Next 3GPP-TISPAN Workshop will take place end of March, 2005 [3GPP-TISPAN-WS-March-2005]. It is expected that access security will be an important topic in that meeting.

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## 3. Proposal

Ericsson proposes that SA3 sends a LS to TISPAN WG7. This LS should summarize the status of IMS security extensions work in SA3 – if any. TISPAN WG7 will meet in Sophia Antipolis in TISPAN#5bis meeting 28 February – 4 March 2005, i.e. next week following SA3#37.

This contribution includes a draft LS as an attachment. It is proposed that the LS is updated according to decisions made in SA3#37, and then sent to TISPAN#5bis.

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## 4. References

[3GPP-TISPAN-WS-June-2004] 3GPP and ETSI TISPAN Workshop on NGN-IMS, Sophia Antipolis, 22-23 June 2004, [http://www.3gpp.org/ftp/workshop/Archive/2004-06-22\\_NGN-IMS\\_Sophia-Antipolis/Report%20WS%20NGN-IMS\\_TISPAN-3GPP\\_v01.doc](http://www.3gpp.org/ftp/workshop/Archive/2004-06-22_NGN-IMS_Sophia-Antipolis/Report%20WS%20NGN-IMS_TISPAN-3GPP_v01.doc)

[3GPP-TISPAN-WS-March-2005] 3GPP and ETSI TISPAN Workshop on IMS over fixed broadband access, March 30-31, 2005, Herndon, VA, USA, [http://www.3gpp.org/ftp/workshop/2005-03-30\\_3GPP\\_TISPAN\\_Washington/](http://www.3gpp.org/ftp/workshop/2005-03-30_3GPP_TISPAN_Washington/).

[07012-x] TISPAN NGN Security – Subpart 1: Security Framework and Requirements, Subpart 2: Threat and Risk Analysis, Subpart 3: Security Architecture, Release 1, available in [http://portal.etsi.org/docbox/tispan/TISPAN/50-20050117-Sophia\\_P5/05TD164r1\\_Updated\\_NGN\\_Security\\_drafts.zip](http://portal.etsi.org/docbox/tispan/TISPAN/50-20050117-Sophia_P5/05TD164r1_Updated_NGN_Security_drafts.zip), (requires ETSI username and password).

[ToR-STF280] Terms of Reference for Specialist Task Force STF 280 (PD2) (TISPAN WG2/3 Architecture/Protocols) on "Preparation for endorsement of relevant 3GPP IMS Technical specifications for TISPAN\_NGN Release 1".

**Title:** [DRAFT] LS on IMS security extensions  
**Response to:**  
**Release:** 3GPP Release 7, TISPAN NGN Release 1  
**Work Item:** IMS security extensions

**Source:** 3GPP SA3  
**To:** TISPAN WG7  
**Cc:** 3GPP SA2, TISPAN WG1

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**Attachments:** (potential attachment: accepted WID on IMS security extensions)

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### 1. Overall Description:

TSG SA3 would like to establish closer co-operation with TISPAN WG7 on IMS security when used over fixed/broadband access. SA3 is aware that the current signalling protection solution does not work in networks that include NAT devices.

TSG SA3 Meeting #37 has decided to initiate new work item on IMS security extensions in 3GPP Release 7. The work item is attached to this LS, and it includes the following two parts:

- Extend IMS access security in the way that it is able to pass NAT devices. The goal is to specify an access security solution that could be applied when IMS is used over fixed/broadband access.
- Feasibility study on media protection.

### 2. Actions:

#### To TISPAN WG7.

**ACTION:** TSG SA3 asks TISPAN WG7 to take this new SA3 activity into account when developing NGN/IMS security solution for R1. Contributions to TSG SA3 are typically done directly by member companies; however, TISPAN WG7 is also welcomed to propose new security requirements and solutions to SA3 on working group level.

### 3. Date of Next TSG-SA3 Meetings:

TSG-SA3 Meeting #38 25 - 29 April 2005 Switzerland (TBC)

TSG-SA3 Meeting #39 28 June - 1 July 2005 USA