

27 - 30 November, 2001**Sophia Antipolis, France**

3GPP TSG-SA WG2 meeting #20**S2-013079****Kobe, Japan, 29th October – 2nd November 2001**

Title: Response to the LS S2-012896 from SA3 on Security Aspects related to the IMS Authentication.

Source: SA2

To: SA3

Cc: CN1, CN4

Response to: S2-012896

Contact Person: Peter Kim
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E-Mail: Peter.Kim@icn.siemens.de

Attachments: S2-012896 (Response to LS S2-012456 from SA2 on Security aspects for IMS related to Authentication).

1. Introduction

SA2 thanks SA3 for the response to SA2's LS S2-012456. In LS S2-012456, SA2 informed SA3 about SA2's working assumption in respect to the relationship of the Private User Identifier, the Public User Identifier and the S-CSCF in the IMS. In particular SA2 remarked that different service profiles may be assigned to different S-CSCF's even when these service profiles have the same Private User Identifier (see section 2.1 in S2-012456). In the response LS S2-0112896, SA3 informed SA2 that the current available results indicate that SA2's work assumption may significantly increase the complexity of the security procedures in comparison to a scenario in which all service profiles are assigned to the same S-CSCF. SA3 further indicates that the additional work may indeed have a negative impact on the ability of SA3 to complete the IMS security issues on time for Rel5.

2. Actions

SA2 would like to inform SA3 that the assignment of a single S-CSCF for all service profiles belonging to the same Private User Identifier was not viewed as a significant loss of functionality for Rel. 5. The SA2 plenary agreed that for Rel. 5, it is sufficient that all service profiles that belong to the same Private User Identifier become assigned to the same S-CSCF.

All the decisions that are made by SA3, however, should not preclude an assignment of multiple S-CSCF's in future releases of the IMS. SA3 must therefore take the compatibility of multi-release network entities into account. The security mechanisms standardised for a Rel. 5 P-CSCF or for a Rel. 5 UE, for example, shall support multiple S-CSCFs in future architecture solutions.

3. Date of Next SA2 Meetings:

SA2#21

26th – 30th November 2001

Cancun, Mexico

Source: TSG-SA WG3

To: TSG-SA SA2

Cc: TSG-CN WG1, TSG-CN WG4

Title: Response to LS S2-012456 from SA2 on Security aspects for IMS related to Authentication

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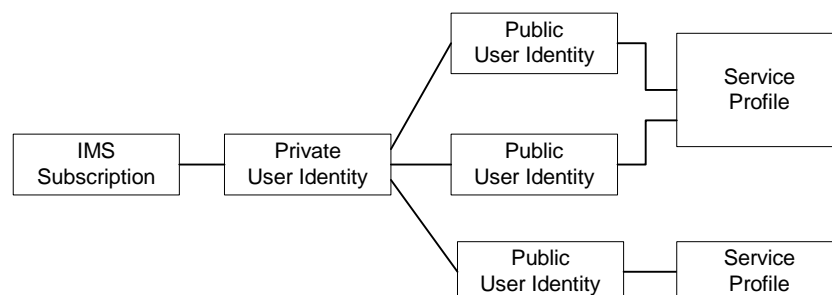
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1. Overview:

This LS is a response from SA3 to the LS S2-012456 = S3-010435 from SA2.

SA3 thanks SA2 for the detailed response to SA3's questions. This LS intends to answer a request by SA2 to SA3 in action item 1 of S2-012456.

In S2-012456 SA2 presents the scenario for the relation of public and private user identities and associated service profiles that should be supported by the IMS in Release 5.



Based on this scenario SA2 further describes the principles for the assignment of S-CSCFs. One of these principles is that different service profiles may be assigned to different S-CSCFs, even when the service profile belongs to the same private user identity. SA2 asks SA3 in action item 1 of S2-012456 "to respond if this work assumption significantly increases the SA3 work load such that the Release 5 IMS security standardisation can not be completed on time".

SA3 has started work in this direction and has come to the following conclusions:

- SA3 believes that, in principle, the security architecture for IMS can be designed in such a way that the use of different S-CSCFs for one Private ID can be supported.
- SA3 would, however, like to point out that the currently available results indicate that this working assumption may significantly increase the complexity of security procedures and/or

the load on various entities in the IMS in comparison to a scenario in which all service profiles are assigned to the same S-CSCF at a given time.

- Given the high workload of SA3 and the significant amount of IMS security work which still has to be done to complete Rel'5 there is indeed a possibility that the additional specification work required by SA2's working assumption may negatively affect SA3's ability to complete IMS security in time.

2. Actions:

SA3 kindly asks SA2 to inform SA3 asap by email to the above contact or to the SA3 mailing list about their position regarding the following alternatives:

- If the working assumption is considered indispensable by SA2 for IMS Rel'5 then SA3 will endeavour to provide the corresponding security procedures.
- If the working assumption is considered not essential by SA2 and SA2 feels that the assignment of only one S-CSCF for all service profiles at a given time would not constitute a significant loss of functionality then SA3 would appreciate if the working assumption could be dropped and their future security work could be based on the simpler case of just one S-CSCF per user at a time.
- If the working assumption is considered important by SA2 and would be reconsidered only after more information has been received on the complexity of the related security procedures then SA2 is invited to clarify this issue in an email discussion with SA3. This email discussion should come to conclusions in time before the meetings of SA2 and SA3 in the last week of November. If an email discussion is to be conducted then SA2 is asked to name a contact with whom the procedures for this discussion can be agreed.

3. Next meetings

SA2#20	29 th October – 2 nd November 2001	Japan
SA2#21	26 th – 30 th November 2001	Cancun, Mexico
SA3#21	27 th – 30 th November 2001	Sophia Antipolis