

3GPP TSG-SA WG2 meeting #31
Seoul, Korea, 7th – 11th April 2003

Tdoc S2-031593

Title: LS on enhancements of the Mt reference point
Response to:
Release: Release 6
Work Item: IMS2

Source: SA2
To: SA3
Cc:

Contact Person:

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Attachments: S2-031437

1. Overall Description:

SA2 are currently developing the architecture to support the Mt reference point between the UE and Application Servers.

The attached (in S2-031437) CR was discussed at the SA2 meeting #31. The CR proposes that a UE shall be able to communicate via a proxy/gateway, on the Mt reference point. The proxy/gateway would enable the possibility to optimise the communication towards the potentially multiple Application Servers that the UE will communicate with on the Mt reference point. For instance the proxy/gateway may provide the possibility to use Wireless optimisation of TCP (RFC3481) or provide DNS client functionality for the UE. The proxy/gateway could also potentially avoid some scalability problems on the Mt reference point for both the UE and the Application Servers. It is expected that the explicit functionalities to be provided by a proxy/gateway will be further discussed at the next SA2 meeting, i.e. SA2#32.

However, some concerns were raised that the proposal could have negative impact on the security solutions for the Mt reference point currently under discussion in SA3.

Note: the assumption is that HTTP will be used between the UE and the AS on the Mt reference point.

2. Actions:

SA2 kindly ask SA3 to provide feedback to SA2 on whether using a proxy/gateway on the Mt reference point would cause any major negative impact in providing security mechanisms for the communication on the Mt reference point.

3. Date of Next TSG-SA WG2 Meetings:

SA2#32	12 th – 16 th May 2003	San Diego, USA
SA2#33	7 th – 11 th July 2003	Sophia-Antipolis, France

CR-Form-v7
CHANGE REQUEST
⌘ 23.002r CR 125 ⌘ rev - ⌘ Current version: 6.0.0 ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: UICC apps ⌘ ME Radio Access Network Core Network

Title:	⌘ Enhancements of the Mt reference point		
Source:	⌘ Ericsson		
Work item code:	⌘ IMS2	Date:	⌘ 02/04/2003
Category:	⌘ C	Release:	⌘ Rel-6
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

Reason for change:	⌘ The current description of the Mt reference point between the UE and the AS imply that there is always a direct communication between the entities. It is a requirement that the Mt shall support HTTP. HTTP allows the possibility to use HTTP proxies and that possibility has also been chosen by OMA when specifying the WAP architecture. In WAP it is possible to use a WAP gateway to enable wireless optimisations (e.g. W-TCP or DNS lookups from the Gateway) of the HTTP communication. It is suggested to add the possibility to use a gateway when communicating between the UE and the AS on the Mt reference point.
Summary of change:	⌘ The possibility to use a gateway between the UE and the AS is added.
Consequences if not approved:	⌘ Optimisation of the communication between the UE and the AS may not be possible.

Clauses affected:	⌘ 6a.7.18										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="text-align: center;">Y</td> <td style="text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;"></td> </tr> <tr> <td style="text-align: center;"></td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;"></td> <td style="text-align: center;">X</td> </tr> </table> Other core specifications Test specifications O&M Specifications	Y	N	X			X		X	⌘ Security TS 3x.yzw?	
Y	N										
X											
	X										
	X										
Other comments:	⌘ The appropriate security TS need to consider the usage of a gateway between the UE and the AS.										

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ¶ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

6a.7.18 Reference Point UE – AS (Mt Reference Point)

The Mt interface resides between the UE and the Application Server (i.e. the SIP Application Server, OSA-SCS, IM-SSF).

The Mt interface enables the user to manage information related to his services. Such as creation and assignment of Public Service Identities, management of authorization policies that are used e.g. by Presence service, conference policy management, etc.

[To enable optimisation of the communication between the UE and the AS, the UE shall be able to communicate via a proxy/gateway.](#)

The AS may need to exhibit security related functions for the Mt interface, the details of these security functions are described in 3G TS 3x.yzw [??].

For the protocol at the Mt reference point HTTP shall be supported.