

CHANGE REQUEST

⌘ **TS 33.220** CR **CRNum** ⌘ rev **-** ⌘ Current version: **1.0.0** ⌘

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

Title:	⌘ Service discovery for bootstrapping procedure		
Source:	⌘ Nokia		
Work item code:	⌘ GBA and Support for subscriber certificates	Date:	⌘ 23/1/2004
Category:	⌘ C	Release:	⌘ Rel-6
	<i>Use <u>one</u> of the following categories:</i> 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 .		<i>Use <u>one</u> of the following releases:</i> 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 discovery of BSF service location		
Summary of change:	⌘ Reference to specifications where the procedures that already specified. Several methods are listed in the section 4.3.4.		
Consequences if not approved:	⌘ Service will not possible to be deployed to end users.		

Clauses affected:	⌘ 2, 4.3.4										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; 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	⌘ 24.cde	
Y	N										
X											
	X										
	X										
Other comments:	⌘										

--- Change starts ---

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

- [1] 3GPP TS 31.102: "3rd Generation Partnership Project; Technical Specification Group Terminals; Characteristics of the USIM application".
- [2] 3GPP TS 33.102: "3rd Generation Partnership Project; Technical Specification Group Services and System Aspects; 3G Security; Security architecture".
- [3] Franks J., et al.; "HTTP Authentication: Basic and Digest Access Authentication", RFC 2617, June 1999.
- [4] A. Niemi, et al.; "Hypertext Transfer Protocol (HTTP) Digest Authentication Using Authentication and Key Agreement (AKA)", RFC3310, September 2002.
- [5] 3GPP TS 33.221: "3rd Generation Partnership Project; Technical Specification Group Services and System Aspects; Generic Authentication Architecture (GAA); Support for Subscriber Certificates".
- [6] T. Dierks, et al.; "The TLS Protocol Version 1.0", RFC 2246, January 1999.
- [7] [OMA: "Provisioning Content Version 1.1", Version 13-Aug-2003. Open Mobile Alliance.](#)
- [8] [3GPP TS 23.228: "3rd Generation Partnership Project; Technical Specification Group Services and System Aspects; IP Multimedia Subsystem \(IMS\); Stage 2 \(Release 6\)".](#)

--- Next change---

4.3.4 Procedure related to service discovery

To enable the bootstrapping procedure, a service discovery procedure needs to be described on how to discover the location of BSF. It shall be possible to enable the terminal to be configured either manually or automatically via one of the following approaches:

- The address information shall be published via another reliable channel. Subscribers shall store all the parameters as part of the establishment of connectivity towards the IP-Connectivity Access Network, if the IP-Connectivity Access Network provides such means. The addresses need to be input only once.
- The address information shall be pushed automatically to the UE over the air interface when the subscription to bootstrapping service is accepted. All the parameters shall be saved in the terminal and used the same manner as above. The procedure is specified in [7].
- The location information shall be discovered automatically based on DHCP, after the IP connectivity has been established. The DHCP server shall provide the UE with the domain name of a BSF and the address of a Domain Name Server (DNS) that is capable of resolving the Fully Qualified Domain Name (FQDN) of the BSF. The procedure is specified in [8].

Note: The location of DHCP server may be pushed to terminal through the procedure specified in [7].

Note: The case when BSF located in the visited network is ffs in later phase of this work item.

--- Change completes---
