

3GPP TSG-T (Terminals) Meeting #23
Phoenix, USA
10 - 12 March, 2004

TP-040015

3GPP TSG-T3 Meeting #30
Sophia-Antipolis, France, 9-13 February 2004

Tdoc T3-040091

Title: LS on the harmonization of ISIM for 3GPP2
Response to:
Release:
Work Item:

Source: 3GPP-TSG-T-WG3 (T3)
To: 3GPP2-TSG-C, 3GPP-TSG-T
Cc:

Contact Person:
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Attachments: Tdoc T3-040090, Tdoc T3-040022

1. Overall Description:

T3 would like to inform 3GPP2-TSG-C that T3 has agreed the attached CR on harmonization of the ISIM for 3GPP2. See Tdoc T3-040090 attached. This CR is derived from the original proposal from 3GPP2-TSG-C.

T3 would like to inform 3GPP2 that it is felt by 3GPP that a P-CSCF file within the ISIM is not felt necessary when accessing IMS through a 3GPP network. See Tdoc T3-040022 attached.

This CR needs now to be approved by 3GPP-TSG-T (next meeting: T#23, 10-12 of March 2004, Phoenix, USA).

T3 would welcome any further harmonization request from 3GPP2-TSG-C.

2. Actions

to 3GPP2-TSG-C:

- 1) Inform 3GPP-TSG-T if they have any remark about the proposed CR
- 2) Inform 3GPP-TSG-T3 about all future modifications to the ISIM that would be needed for 3GPP2 needs

to 3GPP-TSG-T:

- 1) Approve the CR agreed by T3
- 2) Inform 3GPP2-TSG-C about their decision

3. Date of Next TSG-T3 Meetings:

Meeting	Date	Location
3GPP-T3#31	27-30 April 2004	Berlin, Germany
3GPP-T3#32	10-13 August 2004	New York, USA

Title: Reply LS on the harmonization of ISIM for 3GPP2
Response to: [Tdoc number of SA2#37: S2-040021] /T3-030932 LS on the harmonization of ISIM for 3GPP2
Release: Rel 6
Work Item: IMS2

Source: SA2
To: T3
Cc: 3GPP2 TSG-C, CN1

Contact Person:
Name: Peter Hedman
E-mail Address: peter.hedman@ericsson.com

Attachments: None

SA2 would like to thank T3 for the liaison statement on the harmonization of ISIM for 3GPP2.

SA2 discussed the proposal to store the P-CSCF address on the ISIM and the following points were raised during the discussions:

- The current 3GPP procedures for P-CSCF discovery provide a flexible way for the UE to discover the P-CSCF address(es). Procedures include both GPRS PDP context based solution and a generic DHCP based approach that can be used for other access technologies. Hence, there are no plans in 3GPP to introduce or use any additional P-CSCF discovery mechanism
- The general feeling was that storing IP addresses on the ISIM is not considered to be practical, e.g. it would give more configuration overhead if IP address renumbering is to be performed
- 3GPP IMS is IPv6 only

Consequently, SA2 has concluded that there is no requirement from a 3GPP perspective for a 3GPP ME to support an P-CSCF address EF parameter on the ISIM.

2. Actions:

To T3:

SA2 kindly asks T3 to consider the comments given above when addressing the 3GPP2 ISIM requirements. If T3 decides to implement the 3GPP2 requirement into the 3GPP ISIM TS, then SA2 recommends to clearly state that the requirement does not apply for 3GPP.

3. Dates of Next SA2 Meetings:

SA2 #38 16 – 20 Feb 2004, Atlanta, USA
SA2 #39 19 – 23 Apr 2004, China

CR-Form-v7

CHANGE REQUEST

TS 31 103 CR 013 # rev **-** # Current version: **6.2.0**

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:	# New EF for P-CSCF Addresses in ISIM		
Source:	# T3		
Work item code:	# ISIM	Date:	# 13/02/2004
Category:	# B	Release:	# Rel-6
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)		2 (GSM Phase 2)
	A (corresponds to a correction in an earlier release)		R96 (Release 1996)
	B (addition of feature),		R97 (Release 1997)
	C (functional modification of feature)		R98 (Release 1998)
	D (editorial modification)		R99 (Release 1999)
	Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

Reason for change:	# New parameter "P-CSCF Addresses" is needed for the following considerations: <ul style="list-style-type: none"> - 3GPP2 does not provide any mechanism other than DHCP for a mobile to obtain a P-CSCF address from the network. (3GPP uses a GPRS procedure for this purpose.) - A roaming 3GPP2 mobile cannot use DHCP to obtain the address of a P-CSCF in its home network for the cases of Simple IP or Mobile IP without reverse tunnelling. - IMS/MMD may need to inter-work with other types of access networks (e.g. WLAN) with similar constraints as above. <p style="text-align: center;">Allowing a mobile to obtain P-CSCF addresses from its ISIM is a simple solution to the above problems.</p>
Summary of change:	# New EF for P-CSCF Addresses is added.
Consequences if not approved:	#

Clauses affected:	# 4.2.X (New Section), 4.3, 5.1.1.2, 5.2.X, Annex A, Annex B, Annex C										
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;">#</td> <td style="text-align: center;">X</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>	Y	N	#	X	#	X	#	X	Other core specifications	#
Y	N										
#	X										
#	X										
#	X										
		Test specifications	#								
		O&M Specifications	#								
Other comments:	# A new service needs to be created in the ISIM service table										

4.2.X EF_{P-CSCF} (P-CSCF Address)

This EF does not apply for 3GPP and shall not be used by a terminal using a 3GPP access network.

NOTE: The current 3GPP procedures for P-CSCF discovery provide a flexible way for the UE to discover the P-CSCF address(es). Procedures include both GPRS PDP context based solution and a generic DHCP based approach that can be used for other access technologies.

This EF contains one or more Proxy Call Session Control Function addresses. The first record in the EF shall be considered to be of the highest priority. The last record in the EF shall be considered to be the lowest priority.

<u>Identifier: '6Fxx'</u>		<u>Structure: linear fixed</u>		<u>Optional</u>	
<u>Record length: X bytes</u>		<u>Update activity: low</u>			
<u>Access Conditions:</u>					
<u>READ</u>		<u>PIN</u>			
<u>UPDATE</u>		<u>ADM</u>			
<u>DEACTIVATE</u>		<u>ADM</u>			
<u>ACTIVATE</u>		<u>ADM</u>			
<u>Bytes</u>	<u>Description</u>			<u>M/O</u>	<u>Length</u>
<u>1 to X</u>	<u>P-CSCF Address TLV data object</u>			<u>M</u>	<u>X bytes</u>

- P-CSCF

Contents:

- Address of Proxy Call Session Control Function, in the format of a FQDN, an IPv4 address, or an IPv6 address.

Coding:

- The tag value of this P-CSCF address TLV data object shall be 'xx'. The format of the data object is as follows:

<u>Field</u>	<u>Length (bytes)</u>
<u>Tag</u>	<u>1</u>
<u>Length</u>	<u>1</u>

<u>Address Type</u>	<u>1</u>
<u>P-CSCF Address</u>	<u>Address Length</u>

Address Type: Type of the P-CSCF address.

This field shall be set to the type of the P-CSCF address according to the following:

<u>Value</u>	<u>Name</u>
<u>0x00</u>	<u>FQDN</u>
<u>0x01</u>	<u>IPv4</u>
<u>0x02</u>	<u>IPv6</u>
<u>All other values are reserved</u>	

P-CSCF Address: Address of the Proxy Call Session Control Function

This field shall be set to the address of the Proxy Call Session Control Function.

Unused bytes shall be set to 'FF'.

[Note to MCC: A service n°y called "P-CSCF address" must be added to the ISIM service table which would be created by another CR in a section 4.2.z]

4.3 ISIM file structure

This subclause contains a figure depicting the file structure of the ADF_{ISIM} . ADF_{ISIM} shall be selected using the AID and information in EF_{DIR} .

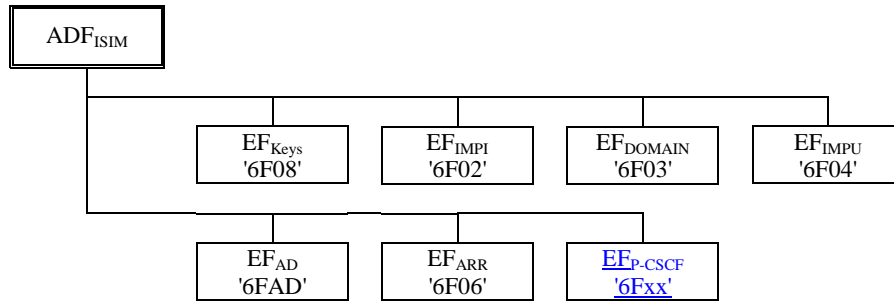


Figure 1: File identifiers and directory structures of ISIM

5.1.1.2 ISIM initialisation

The ISIM shall not indicate any language preference. It shall use the language indicated by any other application currently active on the UICC or by default, choose a language from EF_{PL} at the MF level according the procedure defined in 3GPP TS 31.101[3].

If the terminal does not support the languages of EF_{PL}, then the terminal shall use its own internal default selection.

The Terminal then runs the user verification procedure. If the procedure is not performed successfully, the ISIM initialisation stops.

Then the Terminal performs the administrative information request.

If all these procedures have been performed successfully then the ISIM session shall start. In all other cases the ISIM session shall not start.

After the previous procedures have been completed successfully, the Terminal runs the following procedures:

- IMPI request.
- IMPU request.
- SIP Domain request.
- Cipher key and integrity key request.
- [P-CSCF address request](#)

After the ISIM initialisation has been completed successfully, the Terminal is ready for an ISIM session and shall indicate this to the ISIM by sending a particular STATUS command.

5.2.x P-CSCF address request

Requirement: USIM Service n°y "available".

Request: The ME performs the reading procedure with EF_{P-CSCF}.

Annex A (informative): EF changes via Data Download or CAT applications

This annex defines if changing the content of an EF by the network (e.g. by sending an SMS), or by a CAT Application [22], is advisable. Updating of certain EFs "over the air" could result in unpredictable behavior of the UE; these are marked "Caution" in the table below. Certain EFs are marked "No"; under no circumstances should "over the air" changes of these EFs be considered.

File identification	Description	Change advised
'6F08'	Ciphering and Integrity Keys for IMS	No
'6F02'	IMS private user identity	Caution (note)
'6F03'	Home Network Domain Name	Caution (note)
'6F04'	IMS public user identity	Caution (note)
'6FAD'	Administrative Data	Caution
'6F06'	Access Rule Reference	Caution
'6Fxx'	P-CSCF address	Caution (note)
NOTE: If EF _{IMPI} , EF _{IMPU} , or EF _{DOMAIN} or P-CSCF are changed, the UICC should issue a CAT REFRESH command [22].		

Annex B (informative): Tags defined in 31.103

Tag	Name of Data Element	Usage
'80'	URI TLV data object	IMPI, IMPU, DOMAIN
'DB'	Successful IMS authentication	Response to AUTHENTICATE
'DC'	Synchronisation failure	Response to AUTHENTICATE
'xx'	P-CSCF TLV data object	P-CSCF

NOTE: the value 'FF' is an invalid tag value. For ASN.1 tag assignment rules see ISO/IEC 8825 [20]

Annex C (informative): Suggested contents of the EFs at pre-personalization

If EFs have an unassigned value, it may not be clear from the main text what this value should be. This annex suggests values in these cases.

File Identification	Description	Value
'6F08'	Ciphering and Integrity Keys for IMS	'07FF...FF'
'6F02'	IMS private user identity	'8000FF...FF'
'6F03'	Home Network Domain Name	'8000FF...FF'
'6F04'	IMS public user identity	'8000FF...FF'
'6FAD'	Administrative Data	Operator dependant
'6F06'	Access Rule Reference	Card issuer/operator dependant
'6Fxx'	P-CSCF address	Operator dependant