

3GPP TSG-T (Terminals) Meeting #24
Seoul, Korea
2 - 4 June, 2004

TP-040101

Agenda Item: 5.3.3
Source: T3
Title: CRs to TS 31.102
Document for: approval

This document contains the following change requests that are approved by 3GPP TSG T3 and forwarded to 3GPP TSG T#24 for approval:

Doc-2nd-Level	Spec	CR	Rev	Phase	Subject	Cat	Version-Current	Version-New	WI
T3-040288	31.102	222		Rel-4	Correction of coding example for MMS Issuer/User Connectivity Parameters	F	4.12.0	4.13.0	TEI
T3-040289	31.102	223		Rel-5	Correction of coding example for MMS Issuer/User Connectivity Parameters	A	5.8.0	5.9.0	TEI
T3-040290	31.102	224		Rel-6	Correction of coding example for MMS Issuer/User Connectivity Parameters	A	6.5.0	6.6.0	TEI
T3-040321	31.102	231		Rel-6	Addition of WLAN files	B	6.5.0	6.6.0	I-WLAN
T3-040327	31.102	226		Rel-6	VGCS security	B	6.5.0	6.6.0	TEI
T3-040328	31.102	227		R99	Correction of presence indication for NIA, VGCS/VBS files	F	3.16.0	3.17.0	TEI
T3-040348	31.102	228		Rel-4	Correction of presence indication for NIA, VGCS/VBS files	A	4.12.0	4.13.0	TEI
T3-040349	31.102	229		Rel-5	Correction of presence indication for NIA, VGCS/VBS files	A	5.8.0	5.9.0	TEI
T3-040350	31.102	230		Rel-6	Correction of presence indication for NIA, VGCS/VBS files	A	6.5.0	6.6.0	TEI
T3-040341	31.102	225		R99	Clarification on Emergency Call Numbers.Alignment with TS 22.101	F	3.16.0	3.17.0	TEI
T3-040352	31.102	232		Rel-6	Correction of Phonebook example	A	6.5.0	6.6.0	TEI

3GPP TSG-T3#31
 Berlin, Germany, 27- 30 April 2004

T3-040288

CR-Form-v7
CHANGE REQUEST
⌘ 31.102 CR 222 ⌘ rev - ⌘ Current version: 4.12.0 ⌘

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:	⌘ Correction of coding example for MMS Issuer/User Connectivity Parameters		
Source:	⌘ T3		
Work item code:	⌘ TEI	Date:	⌘ 30/04/2004
Category:	⌘ F	Release:	⌘ REL-4
	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:	⌘ Incorrect length and coding of the MMS connectivity parameters		
Summary of change:	⌘ Correction of the length coding of the MMS connectivity parameter tag		
Consequences if not approved:	⌘ Misinterpretation of the coding example for MMS Issuer/User Connectivity Parameters and therefore there is a high risk of wrong implementation in the Mobiles and/or UICCs		

Clauses affected:	⌘ Annex J.2										
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	⌘ TS 51.011	
Y	N										
X											
	X										
	X										
Other comments:	⌘										

How to create CRs using this form:

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- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
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- 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.

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Annex J (informative): Example of MMS coding

This annex gives an example for the coding of MMS User Preferences, while the MMS User Information Preference parameters are coded according to the WAP implementation of MMS.

J.1 Coding example for MMS User Preferences

0x80 MMS Implementation Tag

0x01 (Length = "1")

0x01 (MMS implementation information = "WAP")

0x81 MMS User Preference Profile Name Tag

0x0E (Length = "14")

43 68 72 69 73 74 6D 61 73 20 43 61 72 64

(profile name = "Christmas Card"; 14 characters, 14 Bytes)

0x82 MMS User Preference Information Tag

0x19 (Length = "25")

0x14 0x80 (visibility = "hide"; 2 Bytes)

0x06 0x80 (delivery report = "yes"; 2 Bytes)

0x10 0x80 (read-reply = "yes"; 2 Bytes)

0x0F 0x81 (priority = "normal"; 2 Bytes)

0x07 0x07 0x80 0x05 0x11 0x22 0x33 0x44 0x55

(Delivery-Time-Tag, Value-Length, Absolute-Token-Tag, Date-Value-Length, Date-Value; 9 Bytes)

0x08 0x06 0x81 0x04 0x55 0x22 0x33 0x44

(Expiry Tag, Value-Length, Relative-Token-Tag, Delta-Second-Value-Length, Delta-Second-Value; 8 Bytes)

J.2 Coding Example for MMS Issuer/User Connectivity Parameters

0xAB MMS Connectivity Parameters Tag

[0x81](#) ~~0x889F~~ (Length = "~~159~~136") ([Length bytes greater than 127 are coded onto 2 bytes according to ISO/IEC 8825 \[35\]](#))

0x80 MMS Implementation Tag

0x01 (Length = "1")

0x01 (MMS implementation information = "WAP"; 1 Byte)

0x81 MMS Relay/Server Tag

0x17 (Length = "23")

0x68 0x74 0x74 0x70 0x3A 0x2F 0x2F 0x6D 0x6D 0x73 0x2D 0x6F 0x70 0x65 0x72 0x61 0x74
0x6F 0x72 0x2E 0x63 0x6F 0x6D(MMS Relay/Server information = "http://mms-operator.com"; 23 characters; 23 Bytes)

0x82 Interface to Core Network and Bearer Tag

0x32 (Length = "50")

0x10 0xAA (bearer = "GSM-CSD"; 2 Bytes)**0x08** 0x2B 0x34 0x39 0x35 0x33 0x34 0x31 0x39 0x30 0x36 0x00
(address = "+495341906", 12 Bytes)**0x09** 0x87 (type of address = "E164"; 2 Bytes)**0x25** 0xC5 (speed = "autobauding"; 2 Bytes)**0x0A** 0x90 (call type = "ANALOG_MODEM"; 2 Bytes)**0x0C** 0x9A (authentication type = "PAP"; 2 Bytes)**0x0D** 0x64 0x75 0x6D 0x6D 0x79 0x5F 0x6E 0x61 0x6D 0x65 0x00
(authentication id = "dummy_name"; 12 Bytes)**0x0E** 0x64 0x75 0x6D 0x6D 0x79 0x5F 0x70 0x61 0x73 0x73 0x77 0x6F 0x72 0x64 0x00
(authentication pw = "dummy_password"; 16 Bytes)

0x83 Gateway Tag

0x36 (Length = "54")

0x20 0x31 0x37 0x30 0x2E 0x31 0x38 0x37 0x2E 0x35 0x31 0x2E 0x33 0x00
(address = "170.187.51.3"; 14 Bytes)**0x21** 0x85 (type of address = "IPv4"; 2 Bytes)**0x23** 0x39 0x32 0x30 0x33 0x00 (port = "9203"; 6 Bytes)**0x24** 0xCB (service = "CO-WSP"; 2 Bytes)**0x19** 0x9C (authentication type = "HTTP BASIC"; 2 Bytes)**0x1A** 0x64 0x75 0x6D 0x6D 0x79 0x5F 0x6E 0x61 0x6D 0x65 0x00
(authentication id = "dummy_name"; 12 Bytes)**0x1B** 0x64 0x75 0x6D 0x6D 0x79 0x5F 0x70 0x61 0x73 0x73 0x77 0x6F 0x72 0x64 0x00
(authentication pw = "dummy_password"; 16 Bytes)

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3GPP TSG-T3#31
 Berlin, Germany, 27th – 30th April 2004

T3-040289

CR-Form-v7	
CHANGE REQUEST	
⌘ 31.102 CR 223 ⌘ rev - ⌘	Current version: 5.8.0 ⌘

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:	⌘ Correction of coding example for MMS Issuer/User Connectivity Parameters		
Source:	⌘ T3		
Work item code:	⌘ TEI	Date:	⌘ 30/04/2004
Category:	⌘ A	Release:	⌘ REL-5
	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:	⌘ Incorrect length and coding of the MMS connectivity parameters		
Summary of change:	⌘ Correction of the length coding of the MMS connectivity parameter tag		
Consequences if not approved:	⌘ Misinterpretation of the coding example for MMS Issuer/User Connectivity Parameters and therefore there is a high risk of wrong implementation in the Mobiles and/or UICCs		

Clauses affected:	⌘ Annex J.2										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;">Y</td> <td style="width: 20px;">N</td> </tr> <tr> <td>X</td> <td></td> </tr> <tr> <td></td> <td>X</td> </tr> <tr> <td></td> <td>X</td> </tr> </table> Other core specifications Test specifications O&M Specifications	Y	N	X			X		X	⌘	TS 51.011
Y	N										
X											
	X										
	X										
Other comments:	⌘										

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Annex J (informative): Example of MMS coding

This annex gives an example for the coding of MMS User Preferences, while the MMS User Information Preference parameters are coded according to the WAP implementation of MMS.

J.1 Coding example for MMS User Preferences

0x80 MMS Implementation Tag

0x01 (Length = "1")

0x01 (MMS implementation information = "(WAP)")

0x81 MMS User Preference Profile Name Tag

0x0E (Length = "14")

43 68 72 69 73 74 6D 61 73 20 43 61 72 64

(profile name = "Christmas Card"; 14 characters, 14 Bytes)

0x82 MMS User Information Preference Information Tag

0x19 (Length = "25")

0x14 0x80 (visibility: = "hide"; 2 Bytes)

0x06 0x80 (delivery report: = "yes"; 2 Bytes)

0x10 0x80 (read-reply: = "yes"; 2 Bytes)

0x0F 0x81 (priority: = "normal"; 2 Bytes)

0x07 0x07 0x80 0x05 0x11 0x22 0x33 0x44 0x55

(Delivery-Time-Tag, Value-Length, Absolute-Token-Tag, Date-Value-Length, Date-Value; 9 Bytes)

0x08 0x06 0x81 0x04 0x55 0x22 0x33 0x44

(Expiry Tag, Value-Length, Relative-Token-Tag, Delta-Second-Value-Length, Delta-Second-Value; 8 Bytes)

J.2 Coding Example for MMS Issuer/User Connectivity Parameters

0xAB MMS Connectivity Parameters Tag

[0x81](#) ~~0x889F~~ (Length = "~~159136~~") ([Length bytes greater than 127 are coded onto 2 bytes according to ISO/IEC 8825 \[35\]](#))

0x80 MMS Implementation Tag

0x01 (Length = "1")

0x01 (MMS implementation information = "WAP"; 1 Byte)

0x81 MMS Relay/Server Tag

0x17 (Length = "23")

0x68 0x74 0x74 0x70 0x3A 0x2F 0x2F 0x6D 0x6D 0x73 0x2D 0x6F 0x70 0x65 0x72 0x61 0x74
0x6F 0x72 0x2E 0x63 0x6F 0x6D

(MMS Relay/Server information = "http://mms-operator.com"; 23 characters; 23 Bytes)

0x82 Interface to Core Network and Bearer Tag

0x32 (Length = "50")

0x10 0xAA (bearer = "GSM-CSD"; 2 Bytes)

0x08 0x2B 0x34 0x39 0x35 0x33 0x34 0x31 0x39 0x30 0x36 0x00
(address = "+495341906", 12 Bytes)

0x09 0x87 (type of address = "E164"; 2 Bytes)

0x25 0xC5 (speed = "autobauding"; 2 Bytes)

0x0A 0x90 (call type = "ANALOG_MODEM"; 2 Bytes)

0x0C 0x9A (authentication type = "PAP"; 2 Bytes)

0x0D 0x64 0x75 0x6D 0x6D 0x79 0x5F 0x6E 0x61 0x6D 0x65 0x00
(authentication id = "dummy_name"; 12 Bytes)

0x0E 0x64 0x75 0x6D 0x6D 0x79 0x5F 0x70 0x61 0x73 0x73 0x77 0x6F 0x72 0x64 0x00
(authentication pw = "dummy_password"; 16 Bytes)

0x83 Gateway Tag

0x36 (Length = "54")

0x20 0x31 0x37 0x30 0x2E 0x31 0x38 0x37 0x2E 0x35 0x31 0x2E 0x33 0x00
(address = "170.187.51.3"; 14 Bytes)

0x21 0x85 (type of address = "IPv4"; 2 Bytes)

0x23 0x39 0x32 0x30 0x33 0x00 (port = "9203"; 6 Bytes)

0x24 0xCB (service = "CO-WSP"; 2 Bytes)

0x19 0x9C (authentication type = "HTTP BASIC"; 2 Bytes)

0x1A 0x64 0x75 0x6D 0x6D 0x79 0x5F 0x6E 0x61 0x6D 0x65 0x00
(authentication id = "dummy_name"; 12 Bytes)

0x1B 0x64 0x75 0x6D 0x6D 0x79 0x5F 0x70 0x61 0x73 0x73 0x77 0x6F 0x72 0x64 0x00
(authentication pw = "dummy_password"; 16 Bytes)

...

CHANGE REQUEST

⌘ **31.102 CR 224** ⌘ rev **-** ⌘ Current version: **6.5.0** ⌘

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:	⌘ Correction of coding example for MMS Issuer/User Connectivity Parameters		
Source:	⌘ T3		
Work item code:	⌘ TEI	Date:	⌘ 30/04/2004
Category:	⌘ A	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:	⌘ Incorrect length and coding of the MMS connectivity parameters		
Summary of change:	⌘ Correction of the length coding of the MMS connectivity parameter tag		
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Y	N										
X											
	X										
	X										
Other comments:	⌘										

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0x01 (Length = "1")

0x01 (MMS implementation information = "(WAP)")

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43 68 72 69 73 74 6D 61 73 20 43 61 72 64

(profile name = "Christmas Card"; 14 characters, 14 Bytes)

0x82 MMS User Information Preference Information Tag

0x19 (Length = "25")

0x14 0x80 (visibility: = "hide"; 2 Bytes)

0x06 0x80 (delivery report: = "yes"; 2 Bytes)

0x10 0x80 (read-reply: = "yes"; 2 Bytes)

0x0F 0x81 (priority: = "normal"; 2 Bytes)

0x07 0x07 0x80 0x05 0x11 0x22 0x33 0x44 0x55

(Delivery-Time-Tag, Value-Length, Absolute-Token-Tag, Date-Value-Length, Date-Value; 9 Bytes)

0x08 0x06 0x81 0x04 0x55 0x22 0x33 0x44

(Expiry Tag, Value-Length, Relative-Token-Tag, Delta-Second-Value-Length, Delta-Second-Value; 8 Bytes)

J.2 Coding Example for MMS Issuer/User Connectivity Parameters

0xAB MMS Connectivity Parameters Tag

[0x81](#) ~~0x889F~~ (Length = "~~159~~136") ([Length bytes greater than 127 are coded onto 2 bytes according to ISO/IEC 8825](#)

[\[35\]](#))

0x80 MMS Implementation Tag

0x01 (Length = "1")

0x01 (MMS implementation information = "WAP"; 1 Byte)

0x81 MMS Relay/Server Tag

0x17 (Length = "23")

0x68 0x74 0x74 0x70 0x3A 0x2F 0x2F 0x6D 0x6D 0x73 0x2D 0x6F 0x70 0x65 0x72 0x61 0x74
 0x6F 0x72 0x2E 0x63 0x6F 0x6D
 (MMS Relay/Server information = "http://mms-operator.com"; 23 characters; 23 Bytes)

0x82 Interface to Core Network and Bearer Tag

0x32 (Length = "50")

0x10 0xAA (bearer = "GSM-CSD"; 2 Bytes)

0x08 0x2B 0x34 0x39 0x35 0x33 0x34 0x31 0x39 0x30 0x36 0x00
 (address = "+495341906", 12 Bytes)

0x09 0x87 (type of address = "E164"; 2 Bytes)

0x25 0xC5 (speed = "autobauding"; 2 Bytes)

0x0A 0x90 (call type = "ANALOG_MODEM"; 2 Bytes)

0x9A (authentication type = "PAP"; 2 Bytes)

0x0D 0x64 0x75 0x6D 0x6D 0x79 0x5F 0x6E 0x61 0x6D 0x65 0x00
 (authentication id = "dummy_name"; 12 Bytes)

0x0E 0x64 0x75 0x6D 0x6D 0x79 0x5F 0x70 0x61 0x73 0x73 0x77 0x6F 0x72 0x64 0x00
 (authentication pw = "dummy_password"; 16 Bytes)

0x83 Gateway Tag

0x36 (Length = "54")

0x20 0x31 0x37 0x30 0x2E 0x31 0x38 0x37 0x2E 0x35 0x31 0x2E 0x33 0x00
 (address = "170.187.51.3"; 14 Bytes)

0x21 0x85 (type of address = "IPv4"; 2 Bytes)

0x23 0x39 0x32 0x30 0x33 0x00 (port = "9203"; 6 Bytes)

0x24 0xCB (service = "CO-WSP"; 2 Bytes)

0x19 0x9C (authentication type = "HTTP BASIC"; 2 Bytes)

0x1A 0x64 0x75 0x6D 0x6D 0x79 0x5F 0x6E 0x61 0x6D 0x65 0x00
 (authentication id = "dummy_name"; 12 Bytes)

0x1B 0x64 0x75 0x6D 0x6D 0x79 0x5F 0x70 0x61 0x73 0x73 0x77 0x6F 0x72 0x64 0x00
 (authentication pw = "dummy_password"; 16 Bytes)

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CHANGE REQUEST

⌘ **31.102 CR 231** ⌘ rev **-** ⌘ Current version: **6.5.0** ⌘

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:	⌘ Addition of WLAN files		
Source:	⌘ T3		
Work item code:	⌘ I-WLAN	Date:	⌘ 29/04/2004
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:	⌘ As requested from CN1 (LS N1-040162, T3-040075) a list of features is needed in the USIM to support for WLAN		
Summary of change:	⌘ The following changes are included: -Addition of relevant WLAN services in UST -Addition of DF _{WLAN} at the ADF USIM level -Addition of the following files at the DF _{WLAN} level : EF _{Pseudo} (Pseudonym) EF _{UPLMNWLAN} (User controlled PLMN selector for WLAN Access) EF _{OPLMNWLAN} (Operator controlled PLMN selector for WLAN Access) EF _{USSIDL} (User controlled SSID list) EF _{OSSIDL} (Operator controlled SSID list) -WLAN procedures in line with those described in other WLAN specifications		
Consequences if not approved:	⌘		

Clauses affected:	⌘ 2, 4.2.8, 4.3, 4.4.x(new), 4.4.x.1, 4.4.x.2, 4.4.x.3, 4.4.x.4, 4.4.x.5, 4.7, 5.x (new), 5.x.1, 5.x.2, 5.x.3, Annex A, Annex E, Annex H										
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:	⌘ Alignment with TS 24.234 and 33.234										

2 References

[\[...\]](#)

[38] 3GPP TS 23.140: "Multimedia Messaging Service (MMS); Functional description; stage 2".

[39] ETSI TS 102 222 "Administrative commands for telecommunications applications "

[\[x\] 3GPP TS 24.234: "3GPP System to WLAN Interworking; UE to Network protocols;Stage 3"](#)

[\[y\] 3GPP TS 33.234: "3G Security; Wireless Local Area Network \(WLAN\) interworking security"](#)

4.2.8 EF_{UST} (USIM Service Table)

This EF indicates which services are available. If a service is not indicated as available in the USIM, the ME shall not select this service.

Identifier: '6F38'		Structure: transparent		Mandatory	
SFI: '04'					
File size: X bytes, X >= 1			Update activity: low		
Access Conditions:					
READ		PIN			
UPDATE		ADM			
DEACTIVATE		ADM			
ACTIVATE		ADM			
Bytes	Description	M/O	Length		
1	Services n°1 to n°8	M	1 byte		
2	Services n°9 to n°16	O	1 byte		
3	Services n°17 to n°24	O	1 byte		
4	Services n°25 to n°32	O	1 byte		
etc.					
X	Services n°(8X-7) to n°(8X)	O	1 byte		

-Services

Contents:	Service n°1:	Local Phone Book
	Service n°2:	Fixed Dialling Numbers (FDN)
	Service n°3:	Extension 2
	Service n°4:	Service Dialling Numbers (SDN)
	Service n°5:	Extension3
	Service n°6:	Barred Dialling Numbers (BDN)
	Service n°7:	Extension4
	Service n°8:	Outgoing Call Information (OCI and OCT)
	Service n°9:	Incoming Call Information (ICI and ICT)
	Service n°10:	Short Message Storage (SMS)
	Service n°11:	Short Message Status Reports (SMSR)
	Service n°12:	Short Message Service Parameters (SMSP)
	Service n°13:	Advice of Charge (AoC)
	Service n°14:	Capability Configuration Parameters (CCP)
	Service n°15:	Cell Broadcast Message Identifier
	Service n°16:	Cell Broadcast Message Identifier Ranges
	Service n°17:	Group Identifier Level 1
	Service n°18:	Group Identifier Level 2
	Service n°19:	Service Provider Name
	Service n°20:	User controlled PLMN selector with Access Technology
	Service n°21:	MSISDN
	Service n°22:	Image (IMG)
	Service n°23:	Support of Localised Service Areas (SoLSA)
	Service n°24:	Enhanced Multi-Level Precedence and Pre-emption Service
	Service n°25:	Automatic Answer for eMLPP
	Service n°26:	RFU
	Service n°27:	GSM Access
	Service n°28:	Data download via SMS-PP
	Service n°29:	Data download via SMS-CB
	Service n°30:	Call Control by USIM
	Service n°31:	MO-SMS Control by USIM
	Service n°32:	RUN AT COMMAND command
	Service n°33:	shall be set to '1'
	Service n°34:	Enabled Services Table
	Service n°35:	APN Control List (ACL)
	Service n°36:	Depersonalisation Control Keys
	Service n°37:	Co-operative Network List
	Service n°38:	GSM security context
	Service n°39:	CPBCCCH Information
	Service n°40:	Investigation Scan
	Service n°41:	MexE
	Service n°42:	Operator controlled PLMN selector with Access Technology
	Service n°43:	HPLMN selector with Access Technology
	Service n°44:	Extension 5
	Service n°45:	PLMN Network Name
	Service n°46:	Operator PLMN List
	Service n°47:	Mailbox Dialling Numbers
	Service n°48:	Message Waiting Indication Status
	Service n°49:	Call Forwarding Indication Status
	Service n°50:	Reserved and shall be ignored
	Service n°51:	Service Provider Display Information
	Service n°52:	Multimedia Messaging Service (MMS)
	Service n°53:	Extension 8
	Service n°54:	Call control on GPRS by USIM
	Service n°55:	MMS User Connectivity Parameters
	Service n°56:	Network's indication of alerting in the MS (NIA)
	Service n°57:	VGCS Group Identifier List (EF _{VGCS} and EF _{VGCS})
	Service n°58:	VBS Group Identifier List (EF _{VBS} and EF _{VBS})
	Service n°y1	Pseudonym
	Service n°y2	User Controlled PLMN selector for WLAN access
	Service n°y3	Operator Controlled PLMN selector for WLAN access
	Service n°y4	User controlled SSID list
	Service n°y5	Operator controlled SSID list

4.3 DFs at the USIM ADF (Application DF) Level

DFs may be present as child directories of USIM ADF. The following DFs are defined:

- DF_{PHONEBOOK} '5F3A'.
- DF_{GSM} '5F3B'.
- DF_{MExE} '5F3C'.
- DF_{WLAN} '5Fx0'

(DF for application specific phonebook. This DF has the same structure as the DF_{PHONEBOOK} under DF_{TELECOM}).

'5F70' is reserved for DF_{SoLSA}.

[...]

4.4 Contents of DFs at the USIM ADF (Application DF) level

[...]

4.4.x Contents of files at the DF WLAN level

This clause describes the additional files that are used for WLAN purposes.

DF_{WLAN} shall be present at the ADF_{USIM} level if either of the services y1, y2, y3, y4 or y5 are allocated in the corresponding EF_{UST} (USIM Service Table).

4.4.x.1 EF_{Pseudo} (Pseudonym)

This EF contains a temporary user identifier (pseudonym) for subscriber identification. Pseudonyms may be provided as part of a previous authentication sequence. Pseudonyms are used as defined in [x]. This file shall be present if service y1 is allocated in EF_{UST}.

<u>Identifier: '4Fx1'</u>		<u>Structure: Transparent</u>		<u>Optional</u>	
<u>SFI: 'x1'</u>					
<u>File size: Y bytes (Y≥n+2)</u>			<u>Update activity: high</u>		
<u>Access Conditions:</u>					
<u>READ</u>		<u>PIN</u>			
<u>UPDATE</u>		<u>PIN</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 2</u>		<u>Pseudonym Length</u>		<u>M</u>	<u>2 bytes</u>
<u>3 to n+2</u>		<u>Pseudonym</u>		<u>M</u>	<u>n bytes</u>

-Pseudonym Length

Contents:

- this byte gives the number of bytes of the following data item containing the Pseudonym value.

Coding:

- unsigned length coded on 2 bytes

- Pseudonym.

Contents:

-Pseudonym to be used as the username part of the NAI

Coding:

- As described for the user portion of the NAI in [y]. Unused bytes shall be set to ‘FF’ and shall not be considered as a part of the value.

4.4.x.2 EF_{UPLMNWLAN} (User controlled PLMN selector for WLAN Access)

This EF contains the coding for preferred PLMNs to be used for WLAN PLMN Selection. This information is determined by the user and defines the preferred PLMNs of the user in priority order. The first record indicates the highest priority and the nth record indicates the lowest. This file shall be present if service y2 is allocated in EF_{UST}.

<u>Identifier: '4Fx2'</u>		<u>Structure: transparent</u>		<u>Optional</u>
<u>SFI: 'x2'</u>				
<u>File size: 3n (where n ≥8)</u>			<u>Update activity: low</u>	
<u>Access Conditions:</u>				
<u>READ</u>		<u>PIN</u>		
<u>UPDATE</u>		<u>PIN</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 3</u>	<u>1st PLMN (highest priority)</u>	<u>M</u>	<u>3 bytes</u>	
<u>4 to 6</u>	<u>2nd PLMN</u>	<u>M</u>	<u>3 bytes</u>	
<u>⋮</u>	<u>⋮</u>			
<u>22 to 24</u>	<u>8th PLMN</u>	<u>M</u>	<u>3 bytes</u>	
<u>25 to 27</u>	<u>9th PLMN</u>	<u>O</u>	<u>3 bytes</u>	
<u>⋮</u>	<u>⋮</u>			
<u>(3n-2) to 3n</u>	<u>Nth PLMN (lowest priority)</u>	<u>O</u>	<u>3 bytes</u>	

- PLMN

Contents:

- Mobile Country Code (MCC) followed by the Mobile Network Code (MNC).

Coding:

- according to TS 24.008 [9].

4.4.x.3 EF_{OPLMNWLAN} (Operator controlled PLMN selector for WLAN Access)

This EF contains the coding for operator preferred PLMNs to be used for WLAN PLMN Selection. This information is determined by the operator and defines the operator preferred PLMNs in priority order. The first record indicates the highest priority and the nth record indicates the lowest. This file shall be present if service y3 is allocated in EF_{UST}.

<u>Identifier: '4Fx3'</u>		<u>Structure: transparent</u>		<u>Optional</u>
<u>SFI: 'x3'</u>				
<u>File size: 3n (where n ≥ 8)</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 3</u>	<u>1st PLMN (highest priority)</u>	<u>M</u>	<u>3 bytes</u>	
<u>4 to 6</u>	<u>2nd PLMN</u>	<u>M</u>	<u>3 bytes</u>	
<u>⋮</u>	<u>⋮</u>			
<u>22 to 24</u>	<u>8th PLMN</u>	<u>M</u>	<u>3 bytes</u>	
<u>25 to 27</u>	<u>9th PLMN</u>	<u>O</u>	<u>3 bytes</u>	
<u>⋮</u>	<u>⋮</u>			
<u>(3n-2) to 3n</u>	<u>Nth PLMN (lowest priority)</u>	<u>O</u>	<u>3 bytes</u>	

- PLMN

Contents:

- Mobile Country Code (MCC) followed by the Mobile Network Code (MNC).

Coding:

- according to TS 24.008 [9].

4.4.x.4 EF_{USSIDL} (User controlled SSID list)

This file contains the user preferred list of SSID for WLAN selection on IEEE 802.11 WLANs in priority order. This file is used for manual and automatic WLAN selection as described in [x]. This file shall be present if service y4 is allocated in EF_{UST}.

<u>Identifier: '4Fx4'</u>		<u>Structure: linear fixed</u>		<u>Optional</u>
<u>SFI: 'x4'</u>				
<u>Record size: 33 bytes</u>			<u>Update activity: low</u>	
<u>Access Conditions:</u>				
<u>READ</u>		<u>PIN</u>		
<u>UPDATE</u>		<u>PIN</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</u>	<u>Length</u>	<u>M</u>	<u>1 bytes</u>	
<u>2 to 33</u>	<u>SSID value</u>	<u>M</u>	<u>32 bytes</u>	

-Length

Contents:

- this byte gives the number of bytes of the following data item containing the SSID value.

Coding:

- unsigned length coded on one byte

-SSID Value

Contents:

- service set identifier (SSID).

Coding:

- binary. Unused bytes shall be set to 'FF' and not used either as a part of the value or for length calculation.

4.4.x.5 EF_{OSSIDL} (Operator controlled SSID list)

This file contains the operator preferred list of SSID for WLAN selection on IEEE 802.11 WLANs in priority order. This file is used for manual and automatic WLAN selection as described in [x]. This file shall be present if service y5 is allocated in EF_{UST}.

<u>Identifier: '4Fx5'</u>		<u>Structure: linear fixed</u>		<u>Optional</u>
<u>SFI: 'x5'</u>				
<u>Record size: 33 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</u>	<u>Length</u>		<u>M</u>	<u>1 bytes</u>
<u>2 to 33</u>	<u>SSID value</u>		<u>M</u>	<u>32 bytes</u>

-Length

Contents:

- this byte gives the number of bytes of the following data item containing the SSID value.

Coding:

- unsigned length coded on one byte

-SSID Value

Contents:

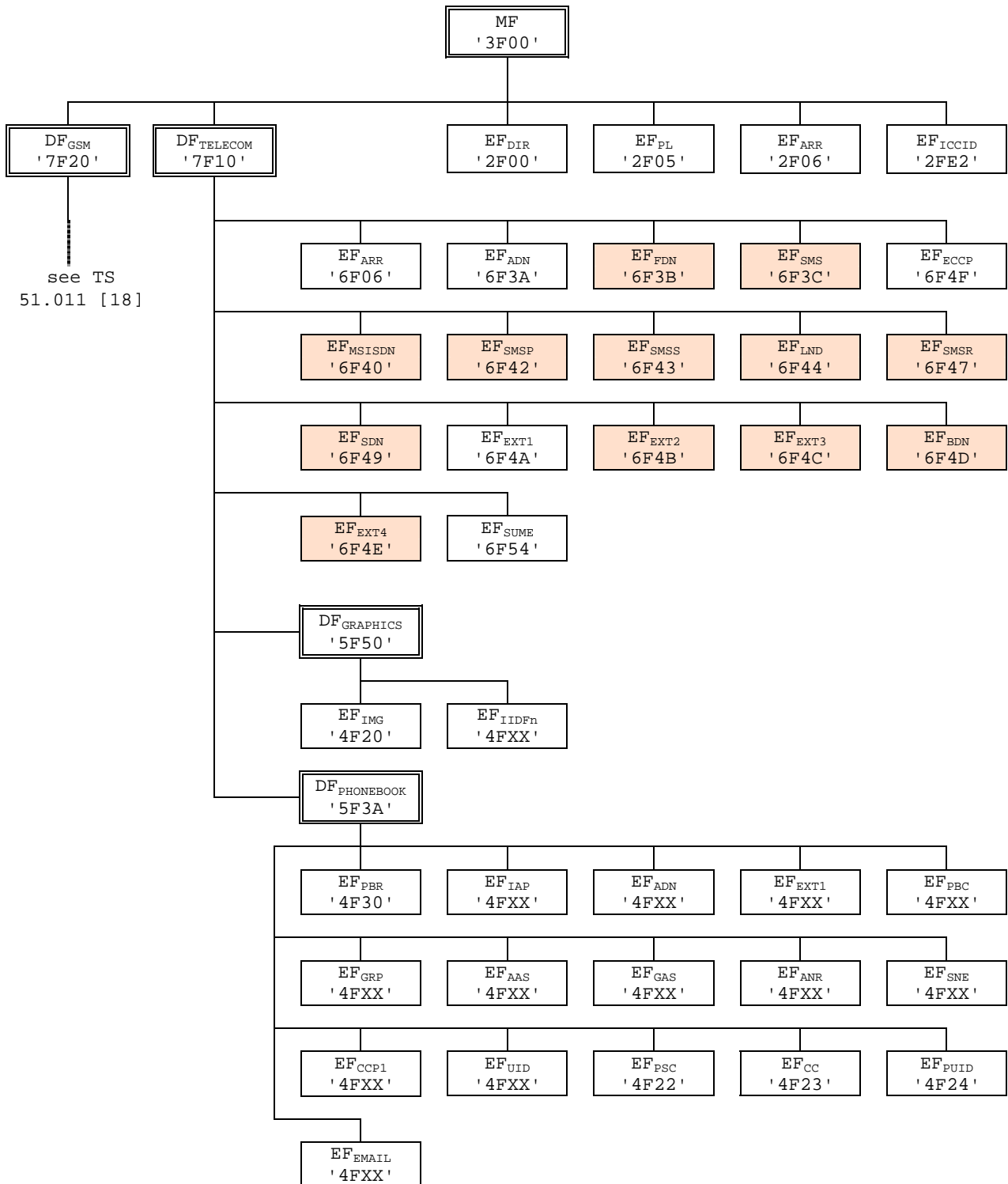
- service set identifier (SSID).

Coding:

- binary. Unused bytes shall be set to 'FF' and not used either as a part of the value or for length calculation.

4.7 Files of USIM

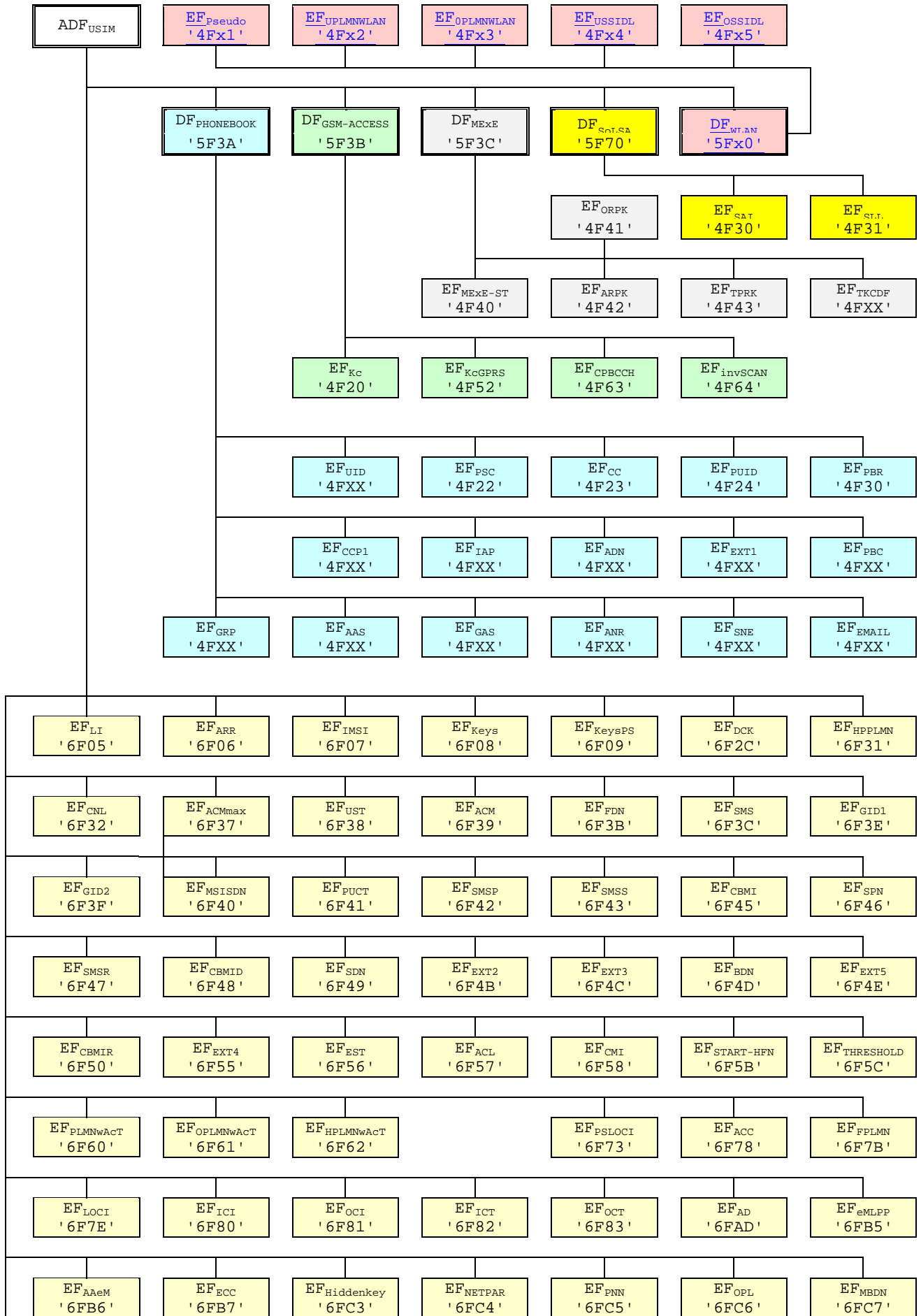
This clause contains two figures depicting the file structure of the UICC and the ADF_{USIM}. ADF_{USIM} shall be selected using the AID and information in EF_{DIR}.



NOTE 1: Files under DF_{TELECOM} with shaded background are defined in TS 51.011 [18].

NOTE 2: The value '6F65' under ADF_{USIM} was used in earlier versions of this specification, and should not be re-assigned in future versions.

Figure 4.1: File identifiers and directory structures of UICC



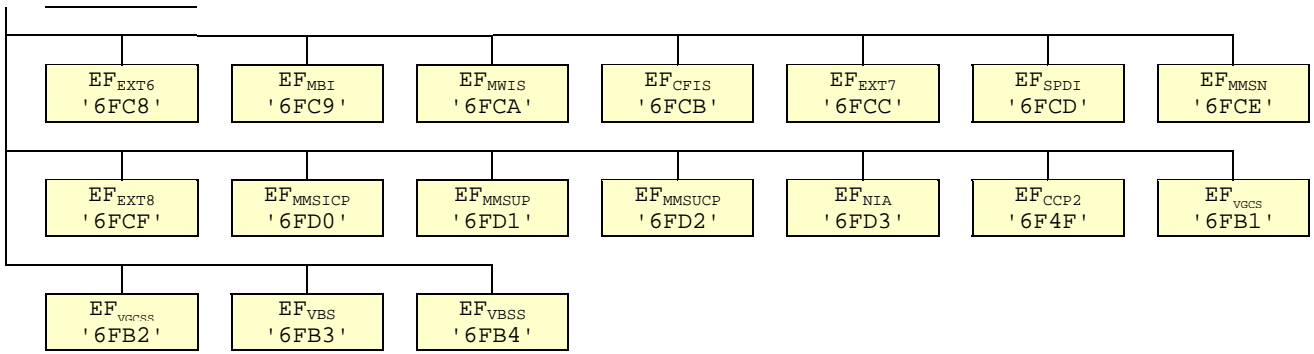


Figure 4.2: File identifiers and directory structures of USIM

5.x WLAN related procedures

5.x.1 WLAN SSID Selection related Procedures

Prerequisite: service n°y4 or y5 “available”

The ME shall read the User and Operator controlled SSIDs from the corresponding list files (i.e. EF_{USSIDL} and EF_{OSSIDL} to perform manual or automatic IEEE 802.11 WLAN selection procedures as described in [x].

The user may change the User controlled SSIDs.

5.x.2 WLAN PLMN Selection related procedures

Prerequisite: service n°y2 or y3 “available”

The ME shall read the User controlled PLMN selector and/or Operator controlled PLMN selector in EF_{PLMNWLAN} and EF_{OPLMNWLAN} respectively for WLAN PLMN Selection procedures as described in [x].

The user may change the User controlled PLMN selector for WLAN.

5.x.3 WLAN access authentication related procedures

Prerequisite: service n°y1 “available”

When the ME tries a full authentication, it shall inspect if a valid Pseudonym is available in EF_{pseudo} and use it as the user name portion of the NAI for WLAN access authentication following the procedures described in [x].

The ME shall manage pseudonyms as defined in [x].

[...]

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

This annex defines if changing the content of an EF by the network (e.g. by sending an SMS), or by a USAT Application, is advisable. Updating of certain EFs "over the air" such as EF_{ACC} could result in unpredictable behaviour 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
'2F00'	Application directory	Caution
'2F05'	Preferred languages	Yes
'2F06'	Access rule reference	Caution
'2FE2'	ICC identification	No
'4F20'	Image data	Yes
'4F20'	GSM Cipherring key Kc	No
'4FXX'	Image Instance data Files	Yes
'4FXX'	Unique identifier	Yes
'4F22'	Phone book synchronisation counter	Yes
'4F23'	Change counter	Yes
'4F24'	Previous unique identifier	Yes
'4F30'	Phone book reference file	Yes
'4FXX'	Capability configuration parameters 1	Yes
'4F30'	SoLSA Access Indicator	Caution
'4F31'	SoLSA LSA List	Caution
'4FXX'	LSA Descriptor files	Caution
'4F52'	GPRS Cipherring key KcGPRS	No
'4F63'	CPBCCCH Information	No
'4F64'	Investigation Scan	Caution
'4FXX'	Additional number alpha string	Yes
'4FXX'	Additional number	Yes
'4FXX'	Second name entry	Yes
'4FXX'	Grouping information alpha string	Yes
'4FXX'	Phone book control	Yes
'4FXX'	E-mail addresses	Yes
'4FXX'	Index administration phone book	Yes
'4FXX'	Extension 1	Yes
'4FXX'	Abbreviated dialling numbers	Yes
'4FXX'	Grouping file	Yes
'4Fx1'	Pseudonym	Caution
'4Fx2'	User controlled PLMN selector for WLAN	No
'4Fx3'	Operator controlled PLMN selector for WLAN	Caution
'4Fx4'	User controlled SSID List	No
'4Fx5'	Operator controlled SSID List	Caution
'6F05'	Language indication	Yes
'6F06'	Access rule reference (under ADF _{USIM} and DF _{TELECOM})	Caution
'6F07'	IMSI	Caution (Note 1)
'6F08'	Cipherring and integrity keys	No
'6F09'	Cipherring and integrity keys for packet switched domain	No
'6F2C'	De-personalization Control Keys	Caution
'6F31'	Higher Priority PLMN search period	Caution
'6F32'	Co-operative network list	Caution
'6F37'	ACM maximum value	Yes
'6F38'	USIM service table	Caution
'6F39'	Accumulated call meter	Yes
'6F3B'	Fixed dialling numbers	Yes
'6F3C'	Short messages	Yes
'6F3E'	Group identifier level 1	Yes
'6F3F'	Group identifier level 2	Yes
	Continued....	

File identification	Description	Change advised
'6F40'	MSISDN storage	Yes
'6F41'	PUCT	Yes
'6F42'	SMS parameters	Yes
'6F43'	SMS status	Yes
'6F45'	CBMI	Caution
'6F46'	Service provider name	Yes
'6F47'	Short message status reports	Yes
'6F48'	CBMID	Yes
'6F49'	Service Dialling Numbers	Yes
'6F4B'	Extension 2	Yes
'6F4C'	Extension 3	Yes
'6F4D'	Barred dialling numbers	Yes
'6F4E'	Extension 5	Yes
'6F4F'	Capability configuration parameters 2	Yes
'6F50'	CBMIR	Yes
'6F54'	SetUp Menu Elements	Yes
'6F55'	Extension 4	Yes
'6F56'	Enabled services table	Caution
'6F57'	Access point name control list	Yes
'6F58'	Comparison method information	Yes
'6F5B'	Initialisation value for Hyperframe number	Caution
'6F5C'	Maximum value of START	Yes
'6F60'	User controlled PLMN selector with Access Technology	No
'6F61'	Operator controlled PLMN selector with Access Technology	Caution
'6F62'	HPLMN selector with Access Technology	Caution
'6F73'	Packet switched location information	Caution
'6F78'	Access control class	Caution
'6F7B'	Forbidden PLMNs	Caution
'6F7E'	Location information	No (Note 1)
'6F80'	Incoming call information	Yes
'6F81'	Outgoing call information	Yes
'6F82'	Incoming call timer	Yes
'6F83'	Outgoing call timer	Yes
'6FAD'	Administrative data	Caution
'6FB1'	Voice Group Call Service	Yes
'6FB2'	Voice Group Call Service Status	Yes
'6FB3'	Voice Broadcast Service	Yes
'6FB4'	Voice Broadcast Service Status	Yes
'6FB5'	Enhanced Multi Level Pre-emption and Priority	Yes
'6FB6'	Automatic Answer for eMLPP Service	Yes
'6FB7'	Emergency Call Codes	Caution
'6FC3'	Key for hidden phone book entries	No
'6FC4'	Network Parameters	No
'6FC5'	PLMN Network Name	Yes
'6FC6'	Operator Network List	Yes
'6FC7'	Mailbox Dialling Numbers	Yes
'6FC8'	Extension 6	Yes
'6FC9'	Mailbox Identifier	Caution
'6FCA'	Message Waiting Indication Status	Caution
'6FCB'	Call Forwarding Indication Status	Caution
'6FCC'	Extension 7	Yes
'6FCD'	Service Provider Display Information	Yes
'6FCE'	MMS Notification	Yes
'6FCF'	Extension 8	Yes
'6FD0'	MMS Issuer Connectivity Parameters	Yes
'6FD1'	MMS User Preferences	Yes
'6FD2'	MMS User Connectivity Parameters	Yes
'6FD3'	Network's indication of alerting (NIA)	Caution

NOTE1: If EF_{MSI} is changed, the UICC should issue REFRESH as defined in TS 31.111 and update EF_{LOC1} accordingly.

Annex E (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
'2F00'	Application directory	Card issuer/operator dependant
'2F05'	Preferred languages	'FF...FF'
'2F06'	Access rule reference	Card issuer/operator dependant
'2FE2'	ICC identification	operator dependant
'4F20'	Image data	'00FF...FF'
'4F20'	GSM Ciphering key Kc	'FF...FF07'
'4FXX'	Image instance data files	'FF...FF'
'4FXX'	Unique identifier	'0000'
'4F22'	Phone book synchronisation counter	'00000000'
'4F23'	Change counter	'0000'
'4F24'	Previous unique identifier	'0000'
'4F30'	Phone book reference file	Operator dependant
'4F30'	SoLSA Access Indicator	'00FF...FF'
'4F31'	SoLSA LSA List	'FF...FF'
'4FXX'	LSA Descriptor files	'FF...FF'
'4FXX'	Capability configuration parameters 1	'FF...FF'
'4F52'	GPRS Ciphering key KcGPRS	'FF...FF07'
'4F63'	CPBCCCH Information	'FF...FF'
'4F64'	Investigation PLMN scan	'00'
'4FXX'	E-mail addresses	'FF...FF'
'4FXX'	Additional number alpha string	'FF...FF'
'4FXX'	Second name entry	'FF...FF'
'4FXX'	Abbreviated dialling numbers	'FF...FF'
'4FXX'	Grouping file	'00...00'
'4FXX'	Grouping information alpha string	'FF...FF'
'4FXX'	Phone book control	'0000'
'4FXX'	Index administration phone book	'FF...FF'
'4FXX'	Additional number	'FF...FF'
'4FXX'	Extension 1	'00FF...FF'
'4Fx1'	Pseudonym	'00FF...FF'
'4Fx2'	User Controlled PLMN selector for WLAN	'FF...FF'
'4Fx3'	Operator Controlled PLMN selector for WLAN	Operator dependant
'4Fx4'	User Controlled SSID list	'00FF...FF'
'4Fx5'	Operator controlled SSID list	Operator dependant
'6F05'	Language indication	'FF...FF'
'6F06'	Access rule reference (under ADF _{USIM} and DF _{TELECOM})	Card issuer/operator dependant
'6F07'	IMSI	Operator dependant
'6F08'	Ciphering and integrity keys	'07FF...FF'
'6F09'	Ciphering and integrity keys for packet switched domain	'07FF...FF'
'6F2C'	De-personalization control keys	'FF...FF'
'6F31'	Higher Priority PLMN search period	'FF'
'6F32'	Co-operative network list	'FF...FF'
'6F37'	ACM maximum value	'000000' (see note 1)
'6F38'	USIM service table	Operator dependant
'6F39'	Accumulated call meter	'000000'
'6F3B'	Fixed dialling numbers	'FF...FF'
'6F3C'	Short messages	'00FF...FF'
'6F3E'	Group identifier level 1	Operator dependant
'6F3F'	Group identifier level 2	Operator dependant
'6F40'	MSISDN storage	'FF...FF'
'6F41'	PUCT	'FFFFFF0000'
'6F42'	SMS parameters	'FF...FF'
'6F43'	SMS status	'FF...FF'
'6F45'	CBMI	'FF...FF'
'6F46'	Service provider name	Operator dependant
'6F47'	Short message status reports	'00FF...FF'
'6F48'	CBMID	'FF...FF'
'6F49'	Service Dialling Numbers	'FF...FF'
'6F4B'	Extension 2	'00FF...FF'
'6F4C'	Extension 3	'00FF...FF'

Continued....

File Identification	Description	Value
'6F4D'	Barred Dialling Numbers	'FF...FF'
'6F4E'	Extension 5	'00FF...FF'
'6F4F'	Capability configuration parameters 2	'FF...FF'
'6F50'	CBMIR	'FF...FF'
'6F54'	SetUp Menu Elements	Operator dependant
'6F55'	Extension 4	'00FF...FF'
'6F56'	Enabled services table	Operator dependant
'6F57'	Access point name control list	'00FF...FF'
'6F58'	Comparison method information	'FF...FF'
'6F5B'	Initialisation value for Hyperframe number	'F0 00 00 F0 00 00'
'6F5C'	Maximum value of START	Operator dependant
'6F60'	User controlled PLMN selector with Access Technology	'FFFFFF0000..FFFFFF0000'
'6F61'	Operator controlled PLMN selector with Access Technology	'FFFFFF0000..FFFFFF0000'
'6F62'	HPLMN selector with Access Technology	'FFFFFF0000..FFFFFF0000'
'6F73'	Packet switched location information	'FFFFFFFF FFFFFFFF xxxxxx 0000 FF 01' (see note 2)
'6F78'	Access control class	Operator dependant
'6F7B'	Forbidden PLMNs	'FF...FF'
'6F7E'	Location information	'FFFFFFFF xxxxxx 0000 FF 01' (see note 2)
'6F80'	Incoming call information	'FF...FF 000000 00 01FFFF'
'6F81'	Outgoing call information	'FF...FF 000000 01FFFF'
'6F82'	Incoming call timer	'000000'
'6F83'	Outgoing call timer	'000000'
'6FAD'	Administrative data	Operator dependant
'6FB1'	Voice Group Call Service	Operator dependant
'6FB2'	Voice Group Call Service Status	Operator dependant
'6FB3'	Voice Broadcast Service	Operator dependant
'6FB4'	Voice Broadcast Service Status	Operator dependant
'6FB5'	EMLPP	Operator dependant
'6FB6'	AaeM	'00'
'6FB7'	Emergency call codes	Operator dependant
'6FC3'	Key for hidden phone book entries	'FF...FF'
'6FC4'	Network Parameters	'FF...FF'
'6FC5'	PLMN Network Name	Operator dependant
'6FC6'	Operator Network List	Operator dependant
'6FC7'	Mailbox Dialling Numbers	Operator dependant
'6FC8'	Extension 6	'00 FF...FF'
'6FC9'	Mailbox Identifier	Operator dependant
'6FCA'	Message Waiting Indication Status	'00 00 00 00 00'
'6FCB'	Call Forwarding Indication Status	'xx 00 FF...FF'
'6FCC'	Extension 7	'00 FF...FF'
'6FCD'	Service Provider Display Information	
'6FCE'	MMS Notification	'00 00 00 FF...FF'
'6FCF'	Extension 8	'00FF...FF'
'6FD0'	MMS Issuer Connectivity Parameters	'FF...FF'
'6FD1'	MMS User Preferences	'FF...FF'
'6FD2'	MMS User Connectivity Parameters	'FF...FF'
'6FD3'	Network's Indication of Alerting (NIA)	'FF...FF'

NOTE 1: The value '000000' means that ACMmax is not valid, i.e. there is no restriction on the ACM. When assigning a value to ACMmax, care should be taken not to use values too close to the maximum possible value 'FFFFFF', because the INCREASE command does not update EF_{ACM} if the units to be added would exceed 'FFFFFF'. This could affect the call termination procedure of the Advice of Charge function.

NOTE 2: xxxxxx stands for any valid MCC and MNC, coded according to TS 24.008 [9].

Annex H (normative): List of SFI Values

This annex lists SFI values assigned in the present document.

H.1 List of SFI Values at the USIM ADF Level

File Identification	SFI	Description
'6FB7'	'01'	Emergency call codes
'6F05'	'02'	Language indication
'6FAD'	'03'	Administrative data
'6F38'	'04'	USIM service table
'6F56'	'05'	Enabled services table
'6F78'	'06'	Access control class
'6F07'	'07'	IMSI
'6F08'	'08'	Ciphering and integrity keys
'6F09'	'09'	Ciphering and integrity keys for packet switched domain
'6F60'	'0A'	User PLMN selector
'6F7E'	'0B'	Location information
'6F73'	'0C'	Packet switched location information
'6F7B'	'0D'	Forbidden PLMNs
'6F48'	'0E'	CBMID
'6F5B'	'0F'	Hyperframe number
'6F5C'	'10'	Maximum value of hyperframe number
'6F61'	'11'	Operator PLMN selector
'6F31'	'12'	Higher Priority PLMN search period
'6F62'	'13'	Preferred HPLMN access technology
'6F80'	'14'	Incoming call information
'6F81'	'15'	Outgoing call information
'6F4F'	'16'	Capability configuration parameters 2
'6F06'	'17'	Access Rule Reference
'6FC5'	'19'	PLMN Network Name
'6FC6'	'1A'	Operator Network List
'6FCD'	'1B'	Service Provider Display Information
'6F39'	'1C'	Accumulated Call Meter (see note)

NOTE: When used the value '1C' shall be used as SFI for EF_{ACM}, for compatibility reasons the terminal shall accept other values.

All other SFI values are reserved for future use.

H.2 List of SFI Values at the DF GSM-ACCESS Level

File Identification	SFI	Description
'4F20'	'01'	GSM Ciphering Key Kc
'4F52'	'02'	GPRS Ciphering Key KcGPRS

All other SFI values are reserved for future use.

H.3 List of SFI Values at the DF WLAN Level

<u>File Identification</u>	<u>SFI</u>	<u>Description</u>
<u>'4Fx1'</u>	<u>'x1'</u>	<u>Pseudonym</u>
<u>'4Fx2'</u>	<u>'x2'</u>	<u>User controlled PLMN for WLAN</u>
<u>'4Fx3'</u>	<u>'x3'</u>	<u>Operator controlled PLMN for WLAN</u>
<u>'4Fx4'</u>	<u>'x4'</u>	<u>User controlled SSID list</u>
<u>'4Fx5'</u>	<u>'x5'</u>	<u>Operator controlled SSID list</u>

All other SFI values are reserved for future use.

3GPP TSG-T3#31
 Berlin, Germany, 27-30 April 2004,

T3-040327

CR-Form-v7
CHANGE REQUEST
⌘ 31.102 CR 226 ⌘ rev - ⌘ Current version: 6.5.0 ⌘

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:	⌘ VGCS security		
Source:	⌘ T3		
Work item code:	⌘ TEI	Date:	⌘ 29/04/2004
Category:	⌘ B	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:	⌘ Voice Groups Call Services requires the support of VGCS key derivation in the USIM. Indeed, in Rel-6 new requirements are present (storage of ciphering algorithm identifiers, key derivation, and secure key storage) (S3-040181/180)
Summary of change:	⌘ The following changes are included: - Including EF _{VGCSA} (Voice Group Call Service Ciphering Algorithm) to store algorithm identifiers. -Introduction of a new security context (VGCS) in AUTHENTICATE command -Introduction of VGCS key Generation
Consequences if not approved:	⌘

Clauses affected:	⌘ 4.2.8, 4.2.x (new), 4.7, 7.1.1, 7.1.1.x (new), 7.1.2, 7.3.1, Annex A, Annex E						
Other specs Affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Y</td> <td style="padding: 2px;">N</td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> </table> Other core specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘	
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> </table> Test specifications	<input type="checkbox"/>	<input checked="" type="checkbox"/>				
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> </table> O&M Specifications	<input type="checkbox"/>	<input checked="" type="checkbox"/>				
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
Other comments:	⌘						

4.2.8 EF_{UST} (USIM Service Table)

This EF indicates which services are available. If a service is not indicated as available in the USIM, the ME shall not select this service.

Identifier: '6F38'		Structure: transparent		Mandatory	
SFI: '04'					
File size: X bytes, X >= 1			Update activity: low		
Access Conditions:					
READ		PIN			
UPDATE		ADM			
DEACTIVATE		ADM			
ACTIVATE		ADM			
Bytes	Description	M/O	Length		
1	Services n°1 to n°8	M	1 byte		
2	Services n°9 to n°16	O	1 byte		
3	Services n°17 to n°24	O	1 byte		
4	Services n°25 to n°32	O	1 byte		
etc.					
X	Services n°(8X-7) to n°(8X)	O	1 byte		

-Services

Contents:	Service n°1:	Local Phone Book
	Service n°2:	Fixed Dialling Numbers (FDN)
	Service n°3:	Extension 2
	Service n°4:	Service Dialling Numbers (SDN)
	Service n°5:	Extension3
	Service n°6:	Barred Dialling Numbers (BDN)
	Service n°7:	Extension4
	Service n°8:	Outgoing Call Information (OCI and OCT)
	Service n°9:	Incoming Call Information (ICI and ICT)
	Service n°10:	Short Message Storage (SMS)
	Service n°11:	Short Message Status Reports (SMSR)
	Service n°12:	Short Message Service Parameters (SMSP)
	Service n°13:	Advice of Charge (AoC)
	Service n°14:	Capability Configuration Parameters (CCP)
	Service n°15:	Cell Broadcast Message Identifier
	Service n°16:	Cell Broadcast Message Identifier Ranges
	Service n°17:	Group Identifier Level 1
	Service n°18:	Group Identifier Level 2
	Service n°19:	Service Provider Name
	Service n°20:	User controlled PLMN selector with Access Technology
	Service n°21:	MSISDN
	Service n°22:	Image (IMG)
	Service n°23:	Support of Localised Service Areas (SoLSA)
	Service n°24:	Enhanced Multi-Level Precedence and Pre-emption Service
	Service n°25:	Automatic Answer for eMLPP
	Service n°26:	RFU
	Service n°27:	GSM Access
	Service n°28:	Data download via SMS-PP
	Service n°29:	Data download via SMS-CB
	Service n°30:	Call Control by USIM
	Service n°31:	MO-SMS Control by USIM
	Service n°32:	RUN AT COMMAND command
	Service n°33:	shall be set to '1'
	Service n°34:	Enabled Services Table
	Service n°35:	APN Control List (ACL)
	Service n°36:	Depersonalisation Control Keys
	Service n°37:	Co-operative Network List
	Service n°38:	GSM security context
	Service n°39:	CPBCCCH Information
	Service n°40:	Investigation Scan
	Service n°41:	MexE
	Service n°42:	Operator controlled PLMN selector with Access Technology
	Service n°43:	HPLMN selector with Access Technology
	Service n°44:	Extension 5
	Service n°45:	PLMN Network Name
	Service n°46:	Operator PLMN List
	Service n°47:	Mailbox Dialling Numbers
	Service n°48:	Message Waiting Indication Status
	Service n°49:	Call Forwarding Indication Status
	Service n°50:	Reserved and shall be ignored
	Service n°51:	Service Provider Display Information
	Service n°52:	Multimedia Messaging Service (MMS)
	Service n°53:	Extension 8
	Service n°54:	Call control on GPRS by USIM
	Service n°55:	MMS User Connectivity Parameters
	Service n°56:	Network's indication of alerting in the MS (NIA)
	Service n°57:	VGCS Group Identifier List (EF _{VGCS} and EF _{VGCS})
	Service n°58:	VBS Group Identifier List (EF _{VBS} and EF _{VBS})
	Service n°yy	VGCS security

4.2.x EF_{VGCSA} (Voice Group Call Service Ciphering Algorithm)

This EF contains the ciphering algorithm identifiers for each of the VGCS groups that the user has subscribed to (defined in EF_{VGCS}). This EF shall always be allocated if EF_{VGCS} is allocated.

<u>Identifier: '6FD4'</u>		<u>Structure: transparent</u>		<u>Optional</u>	
<u>File size: n bytes (n <= 50)</u>			<u>Update activity: low</u>		
<u>Access Conditions:</u>					
<u>READ</u>		<u>PIN</u>			
<u>UPDATE</u>		<u>ADM</u>			
<u>INVALIDATE</u>		<u>ADM</u>			
<u>REHABILITATE</u>		<u>ADM</u>			
<u>Bytes</u>	<u>Description</u>	<u>M/O</u>	<u>Length</u>		
<u>1</u>	<u>VGCS Group ciphering algorithm identifier for Group 1</u>	<u>M</u>	<u>1 byte</u>		
<u>2</u>	<u>VGCS Group ciphering algorithm identifier for Group 2</u>	<u>O</u>	<u>1 byte</u>		
<u>⋮</u>	<u>⋮</u>	<u>⋮</u>	<u>⋮</u>		
<u>n</u>	<u>VGCS Group ciphering algorithm identifier for Group n</u>	<u>O</u>	<u>1 byte</u>		

- Ciphering Algorithm Identifier:

Contents: Ciphering Algorithm identifier for the specified Group

Coding:

Value

'00' no ciphering

'01' ciphering with algorithm GSM A5/1

'02' ciphering with algorithm GSM A5/2

'03' ciphering with algorithm GSM A5/3

'04' ciphering with algorithm GSM A5/4

'05' ciphering with algorithm GSM A5/5

'06' ciphering with algorithm GSM A5/6

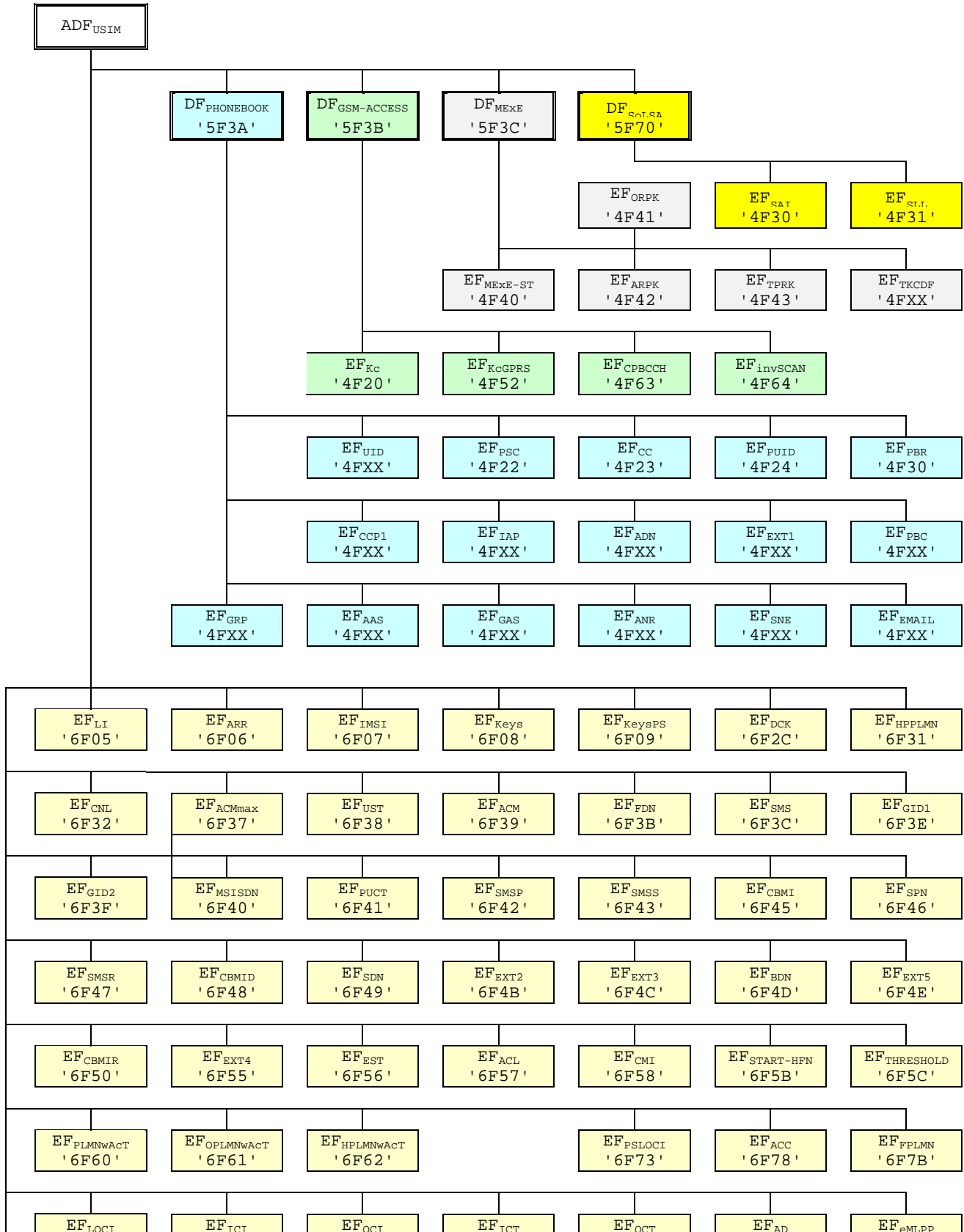
'07' ciphering with algorithm GSM A5/7

'08' to 'FF' RFU

4.7 Files of USIM

This clause contains two figures depicting the file structure of the UICC and the ADF_{USIM}. ADF_{USIM} shall be selected using the AID and information in EF_{DIR}.

[...]



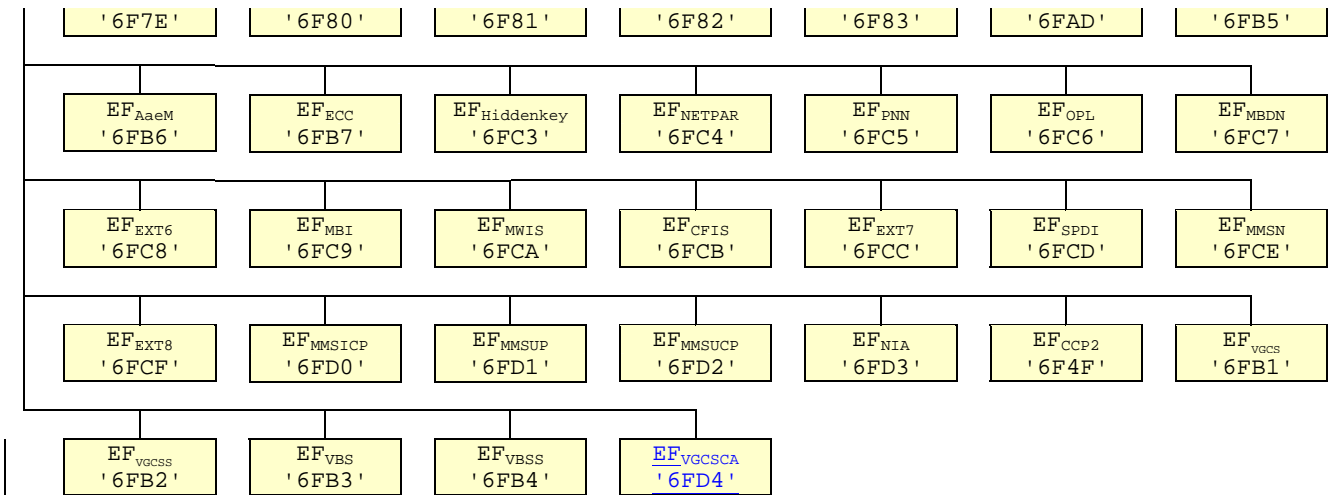


Figure 4.2: File identifiers and directory structures of USIM

7.1 AUTHENTICATE

7.1.1 Command description

The function can be used in several different contexts:

- a 3G security context, when 3G authentication vectors (RAND, XRES, CK, IK, AUTN) are available (i.e. the UE is located in the UTRAN, or in a GSM radio access network which is connected to a 3G or 3G capable VLR/SGSN), or
- a GSM security context, when GSM authentication data are available only (i.e. the UE is located in the GSM radio access network which is connected to a non-3G capable VLR/SGSN).
- an VGCS security context, when VGCS authentication data is available

The function is used in GSM or 3G security context during the procedure for authenticating the USIM to its HE and vice versa. In addition, a cipher key and an integrity key are calculated. For the execution of the command the USIM uses the subscriber authentication key K, which is stored in the USIM.

The function is used in VGCS security context during the procedure for retrieving the VGCS Short Term Key (VSTK) used by the terminal to in establishing VGCS calls.

The function is related to a particular USIM and shall not be executable unless the USIM application has been selected and activated, and the current directory is the USIM ADF or any subdirectory under this ADF and a successful PIN verification procedure has been performed (see clause 5).

~~The function can be used in two different contexts:~~

- ~~— a 3G security context, when 3G authentication vectors (RAND, XRES, CK, IK, AUTN) are available (i.e. the UE is located in the UTRAN, or in a GSM radio access network which is connected to a 3G or 3G capable VLR/SGSN), or~~
- ~~— a GSM security context, when GSM authentication data are available only (i.e. the UE is located in the GSM radio access network which is connected to a non-3G capable VLR/SGSN).~~

7.1.1.1 3G security context

The USIM first computes the anonymity key $AK = f_{5K}(RAND)$ and retrieves the sequence number $SQN = (SQN \oplus AK) \oplus AK$.

Then the USIM computes $XMAC = f_{1K}(SQN \parallel RAND \parallel AMF)$ and compares this with the MAC which is included in AUTN. If they are different, the USIM abandons the function.

Next the USIM verifies that the received sequence number SQN is previously unused. If it is unused and its value is lower than SQN_{MS} , it shall still be accepted if it is among the last 32 sequence numbers generated. A possible verification method is described in TS 33.102 [13].

NOTE: This implies that the USIM has to keep a list of the last used sequence numbers and the length of the list is at least 32 entries.

If the USIM detects the sequence numbers to be invalid, this is considered as a synchronisation failure and the USIM abandons the function. In this case the command response is AUTS, where:

$AUTS = Conc(SQN_{MS}) \parallel MACS;$

$Conc(SQN_{MS}) = SQN_{MS} \oplus f_{5^*K}(RAND)$ is the concealed value of the counter SQN_{MS} in the USIM; and,

$MACS = f_{1^*K}(SQN_{MS} \parallel RAND \parallel AMF)$ where:

$RAND$ is the random value received in the current user authentication request;

the AMF assumes a dummy value of all zeroes so that it does not need to be transmitted in clear in the resynchronisation message.

If the sequence number is considered in the correct range, the USIM computes $RES = f2_K(RAND)$, the cipher key $CK = f3_K(RAND)$ and the integrity key $IK = f4_K(RAND)$ and includes these in the command response. Note that if this is more efficient, RES, CK and IK could also be computed earlier at any time after receiving RAND.

The use of AMF is HE specific and while processing the command, the content of the AMF has to be interpreted in the appropriate manner. The AMF may e.g. be used for support of multiple algorithms or keys or for changing the size of lists, see TS 33.102 [13].

If Service n°27 is "available", the USIM calculates the GSM response parameter K_C , using the conversion function defined in TS 33.102 [13].

Input:

- RAND, AUTN (AUTN:= SQN \oplus AK || AMF || MAC).

Output:

- RES, CK, IK if Service n°27 is "not available".

or

- RES, CK, IK, K_C if Service n°27 is "available".

or

- AUTS.

7.1.1.2 GSM security context

USIM operation in an GSM security context is supported if Service n°38 is "available".

The USIM computes $RES = f2_K(RAND)$, the cipher key $CK = f3_K(RAND)$ and the integrity key $IK = f4_K(RAND)$. Next the USIM calculates the GSM response parameters SRES and K_C , using the conversion functions defined in TS 33.102 [13].

Input:

- RAND.

Output:

- SRES; K_C .

7.1.1.x VGCS security context

USIM operation in a VGCS security context is supported if Service n°yy is "available".

The USIM computes the VGCS Short Term Key (VSTK) associated with a particular VGCS group Identifier. For this computation, the USIM uses the VGCS Key (VK) identified by the VK_ID.

The USIM shall first search if the VGCS Group Identifier (VGCS_ID) corresponds to a stored VGCS Identifier in EF_{vgcs}.

Then, the USIM shall search in the corresponding EF_{VGCSA} for the VGCS Key Identifier (VK_ID) and retrieve the VK value to be used.

Then the USIM computes and returns VSTK.

Input:

- VGCS_ID, VK_ID, VSTK_RAND

[Output:](#)

[- VSTK.](#)

7.1.2 Command parameters and data

Code	Value
CLA	As specified in TS 31.101
INS	'88'
P1	'00'
P2	See table below
Lc	See below
Data	See below
Le	'00', or maximum length of data expected in response

Parameter P2 specifies the authentication context as follows:

Coding of the reference control P2

Coding b8-b1	Meaning
'1-----'	Specific reference data (e.g. DF specific/application dependant key)
'-xxxxxx-'	'000000'
'-----x'	Authentication context: 0 GSM context 1 3G context
'-xxxxx--'	'00000'
'-----XX'	Authentication context: 00 GSM context 01 3G context 10 VGCS context

All other codings are RFU.

Command parameters/data:

[7.1.2.1 GSM/3G security context](#)

Byte(s)	Description	Length
1	Length of RAND (L1)	1
2 to (L1+1)	RAND	L1
(L1+2)	Length of AUTN (L2) (see note)	1
(L1+3) to (L1+L2+2)	AUTN (see note)	L2

Note: Parameter present if and only if in 3G security context.

The coding of AUTN is described in TS 33.102 [13]. The most significant bit of RAND is coded on bit 8 of byte 2. The most significant bit of AUTN is coded on bit 8 of byte (L1+3).

Response parameters/data, case 1, 3G security context, command successful:

Byte(s)	Description	Length
1	"Successful 3G authentication" tag = 'DB'	1
2	Length of RES (L3)	1
3 to (L3+2)	RES	L3
(L3+3)	Length of CK (L4)	1
(L3+4) to (L3+L4+3)	CK	L4
(L3+L4+4)	Length of IK (L5)	1
(L3+L4+5) to (L3+L4+L5+4)	IK	L5
(L3+L4+L5+5)	Length of K _c (= 8) (see note)	1
(L3+L4+L5+6 to (L3+L4+L5+13)	K _c (see note)	8
Note: Parameter present if and only if Service n°27 is "available".		

The most significant bit of RES is coded on bit 8 of byte 3. The most significant bit of CK is coded on bit 8 of byte (L3+4). The most significant bit of IK is coded on bit 8 of byte (L3+L4+5).

Response parameters/data, case 2, 3G security context, synchronisation failure:

Byte(s)	Description	Length
1	"Synchronisation failure" tag = 'DC'	1
2	Length of AUTS (L1)	1
3 to (L1+2)	AUTS	L1

The coding of AUTS is described in TS 33.102 [13]. The most significant bit of AUTS is coded on bit 8 of byte 3.

Response parameters/data, case 3, GSM security context, command successful:

Byte(s)	Description	Length
1	Length of SRES (= 4)	1
2 to 5	SRES	4
6	Length of K _c (= 8)	1
7 to 14	K _c	8

The most significant bit of SRES is coded on bit 8 of byte 2. The most significant bit of K_c is coded on bit 8 of byte 7.

[7.1.2.2 VGCS security context](#)

Byte(s)	Description	Length
1	Length of VGCS_ID (L1)	1
2 to (L1+1)	VGCS_ID	L1
(L1+2)	Length of VK_ID (L2)	1
(L1+3) to (L1+L2+2)	VK_ID	L2
(L1+L2+3)	Length of VSTK_RAND	1
(L1+L2+4) to (L1+L2+7)	VSTK_RAND	4

[Response parameters/data, VGCS security context, command successful:](#)

<u>Byte(s)</u>	<u>Description</u>	<u>Length</u>
<u>1</u>	"Successful VGCS operation" tag = 'DB'	<u>1</u>
<u>2</u>	Length of VSTK (16)	<u>1</u>
<u>3 to 18</u>	VSTK	<u>16</u>

7.2 Void

7.3 Status Conditions Returned by the USIM

Status of the card after processing of the command is coded in the status bytes SW1 and SW2. This clause specifies the coding of the status bytes in the following tables, in addition to the ones defined in TS 31.101 [11].

7.3.1 Security management

SW1	SW2	Error description
'98'	'62'	- Authentication error, incorrect MAC
'98'	'64'	- Authentication error, GSM -security context not supported

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

This annex defines if changing the content of an EF by the network (e.g. by sending an SMS), or by a USAT Application, is advisable. Updating of certain EFs "over the air" such as EF_{ACC} could result in unpredictable behaviour 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
'2F00'	Application directory	Caution
'2F05'	Preferred languages	Yes
'2F06'	Access rule reference	Caution
'2FE2'	ICC identification	No
'4F20'	Image data	Yes
'4F20'	GSM Cipherring key Kc	No
'4FXX'	Image Instance data Files	Yes
'4FXX'	Unique identifier	Yes
'4F22'	Phone book synchronisation counter	Yes
'4F23'	Change counter	Yes
'4F24'	Previous unique identifier	Yes
'4F30'	Phone book reference file	Yes
'4FXX'	Capability configuration parameters 1	Yes
'4F30'	SoLSA Access Indicator	Caution
'4F31'	SoLSA LSA List	Caution
'4FXX'	LSA Descriptor files	Caution
'4F52'	GPRS Cipherring key KcGPRS	No
'4F63'	CPBCCH Information	No
'4F64'	Investigation Scan	Caution
'4FXX'	Additional number alpha string	Yes
'4FXX'	Additional number	Yes
'4FXX'	Second name entry	Yes
'4FXX'	Grouping information alpha string	Yes
'4FXX'	Phone book control	Yes
'4FXX'	E-mail addresses	Yes
'4FXX'	Index administration phone book	Yes
'4FXX'	Extension 1	Yes
'4FXX'	Abbreviated dialling numbers	Yes
'4FXX'	Grouping file	Yes
'6F05'	Language indication	Yes
'6F06'	Access rule reference (under ADF _{USIM} and DF _{TELECOM})	Caution
'6F07'	IMSI	Caution (Note 1)
'6F08'	Cipherring and integrity keys	No
'6F09'	Cipherring and integrity keys for packet switched domain	No
'6F2C'	De-personalization Control Keys	Caution
'6F31'	Higher Priority PLMN search period	Caution
'6F32'	Co-operative network list	Caution
'6F37'	ACM maximum value	Yes
'6F38'	USIM service table	Caution
'6F39'	Accumulated call meter	Yes
'6F3B'	Fixed dialling numbers	Yes
'6F3C'	Short messages	Yes
'6F3E'	Group identifier level 1	Yes
'6F3F'	Group identifier level 2	Yes

Continued....

File identification	Description	Change advised
'6F40'	MSISDN storage	Yes
'6F41'	PUCT	Yes
'6F42'	SMS parameters	Yes
'6F43'	SMS status	Yes
'6F45'	CBMI	Caution
'6F46'	Service provider name	Yes
'6F47'	Short message status reports	Yes
'6F48'	CBMID	Yes
'6F49'	Service Dialling Numbers	Yes
'6F4B'	Extension 2	Yes
'6F4C'	Extension 3	Yes
'6F4D'	Barred dialling numbers	Yes
'6F4E'	Extension 5	Yes
'6F4F'	Capability configuration parameters 2	Yes
'6F50'	CBMIR	Yes
'6F54'	SetUp Menu Elements	Yes
'6F55'	Extension 4	Yes
'6F56'	Enabled services table	Caution
'6F57'	Access point name control list	Yes
'6F58'	Comparison method information	Yes
'6F5B'	Initialisation value for Hyperframe number	Caution
'6F5C'	Maximum value of START	Yes
'6F60'	User controlled PLMN selector with Access Technology	No
'6F61'	Operator controlled PLMN selector with Access Technology	Caution
'6F62'	HPLMN selector with Access Technology	Caution
'6F73'	Packet switched location information	Caution
'6F78'	Access control class	Caution
'6F7B'	Forbidden PLMNs	Caution
'6F7E'	Location information	No (Note 1)
'6F80'	Incoming call information	Yes
'6F81'	Outgoing call information	Yes
'6F82'	Incoming call timer	Yes
'6F83'	Outgoing call timer	Yes
'6FAD'	Administrative data	Caution
'6FB1'	Voice Group Call Service	Yes
'6FB2'	Voice Group Call Service Status	Yes
'6FB3'	Voice Broadcast Service	Yes
'6FB4'	Voice Broadcast Service Status	Yes
'6FB5'	Enhanced Multi Level Pre-emption and Priority	Yes
'6FB6'	Automatic Answer for eMLPP Service	Yes
'6FB7'	Emergency Call Codes	Caution
'6FC3'	Key for hidden phone book entries	No
'6FC4'	Network Parameters	No
'6FC5'	PLMN Network Name	Yes
'6FC6'	Operator Network List	Yes
'6FC7'	Mailbox Dialling Numbers	Yes
'6FC8'	Extension 6	Yes
'6FC9'	Mailbox Identifier	Caution
'6FCA'	Message Waiting Indication Status	Caution
'6FCB'	Call Forwarding Indication Status	Caution
'6FCC'	Extension 7	Yes
'6FCD'	Service Provider Display Information	Yes
'6FCE'	MMS Notification	Yes
'6FCF'	Extension 8	Yes
'6FD0'	MMS Issuer Connectivity Parameters	Yes
'6FD1'	MMS User Preferences	Yes
'6FD2'	MMS User Connectivity Parameters	Yes
'6FD3'	Network's indication of alerting (NIA)	Caution
'6FD4'	Voice Group Call Service Ciphering Algorithm	Yes

NOTE 1: If EF_{IMSI} is changed, the UICC should issue REFRESH as defined in TS 31.111 and update EF_{LOC1} accordingly.

Annex E (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
'2F00'	Application directory	Card issuer/operator dependant
'2F05'	Preferred languages	'FF...FF'
'2F06'	Access rule reference	Card issuer/operator dependant
'2FE2'	ICC identification	operator dependant
'4F20'	Image data	'00FF...FF'
'4F20'	GSM Ciphering key Kc	'FF...FF07'
'4FXX'	Image instance data files	'FF...FF'
'4FXX'	Unique identifier	'0000'
'4F22'	Phone book synchronisation counter	'00000000'
'4F23'	Change counter	'0000'
'4F24'	Previous unique identifier	'0000'
'4F30'	Phone book reference file	Operator dependant
'4FXX'	Capability configuration parameters 1	'FF...FF'
'4F52'	GPRS Ciphering key KcGPRS	'FF...FF07'
'4F63'	CPBCCCH Information	'FF...FF'
'4F64'	Investigation PLMN scan	'00'
'4FXX'	E-mail addresses	'FF...FF'
'4FXX'	Additional number alpha string	'FF...FF'
'4FXX'	Second name entry	'FF...FF'
'4FXX'	Abbreviated dialling numbers	'FF...FF'
'4FXX'	Grouping file	'00...00'
'4FXX'	Grouping information alpha string	'FF...FF'
'4FXX'	Phone book control	'0000'
'4FXX'	Index administration phone book	'FF...FF'
'4FXX'	Additional number	'FF...FF'
'4FXX'	Extension 1	'00FF...FF'
'6F05'	Language indication	'FF...FF'
'6F06'	Access rule reference (under ADF _{USIM} and DF _{TELECOM})	Card issuer/operator dependant
'6F07'	IMSI	Operator dependant
'6F08'	Ciphering and integrity keys	'07FF...FF'
'6F09'	Ciphering and integrity keys for packet switched domain	'07FF...FF'
'6F2C'	De-personalization control keys	'FF...FF'
'6F31'	HPLMN search period	'FF'
'6F32'	Co-operative network list	'FF...FF'
'6F37'	ACM maximum value	'000000' (see note 1)
'6F38'	USIM service table	Operator dependant
'6F39'	Accumulated call meter	'000000'
'6F3B'	Fixed dialling numbers	'FF...FF'
'6F3C'	Short messages	'00FF...FF'
'6F3E'	Group identifier level 1	Operator dependant
'6F3F'	Group identifier level 2	Operator dependant
'6F40'	MSISDN storage	'FF...FF'
'6F41'	PUCT	'FFFFFF0000'
'6F42'	SMS parameters	'FF...FF'
'6F43'	SMS status	'FF...FF'
'6F45'	CBMI	'FF...FF'
'6F46'	Service provider name	Operator dependant
'6F47'	Short message status reports	'00FF...FF'
'6F48'	CBMID	'FF...FF'
'6F49'	Service Dialling Numbers	'FF...FF'
'6F4B'	Extension 2	'00FF...FF'
'6F4C'	Extension 3	'00FF...FF'

Continued....

File Identification	Description	Value
'6F4D'	Barred Dialling Numbers	'FF...FF'
'6F4E'	Extension 5	'00FF...FF'
'6F4F'	Capability configuration parameters 2	'FF...FF'
'6F50'	CBMIR	'FF...FF'
'6F54'	SetUp Menu Elements	Operator dependant
'6F55'	Extension 4	'FF...FF'
'6F56'	Enabled services table	Operator dependant
'6F57'	Access point name control list	'00FF...FF'
'6F58'	Comparison method information	'FF...FF'
'6F5B'	Initialisation value for Hyperframe number	'F0 00 00 F0 00 00'
'6F5C'	Maximum value of START	Operator dependant
'6F60'	User controlled PLMN selector with Access Technology	'FFFFFF0000..FFFFFF0000'
'6F61'	Operator controlled PLMN selector with Access Technology	'FFFFFF0000..FFFFFF0000'
'6F62'	HPLMN selector with Access Technology	'FFFFFF0000..FFFFFF0000'
'6F73'	Packet switched location information	'FFFFFFFF FFFFFFFF xxxxxx 0000 FF 01' (see note 2)
'6F78'	Access control class	Operator dependant
'6F7B'	Forbidden PLMNs	'FF...FF'
'6F7E'	Location information	'FFFFFFFF xxxxxx 0000 FF 01' (see note 2)
'6F80'	Incoming call information	'FF...FF 000000 00 01FFFF'
'6F81'	Outgoing call information	'FF...FF 000000 01FFFF'
'6F82'	Incoming call timer	'000000'
'6F83'	Outgoing call timer	'000000'
'6FAD'	Administrative data	Operator dependant
'6FB5'	EMLPP	Operator dependant
'6FB6'	AaeM	'00'
'6FB7'	Emergency call codes	Operator dependant
'6FC3'	Key for hidden phone book entries	'FF...FF'
'6FC4'	Network Parameters	'FF...FF'
'6FC5'	PLMN Network Name	Operator dependant
'6FC6'	Operator Network List	Operator dependant
'6FC7'	Mailbox Dialling Numbers	Operator dependant
'6FC8'	Extension 6	'00 FF...FF'
'6FC9'	Mailbox Identifier	Operator dependant
'6FCA'	Message Waiting Indication Status	'00 00 00 00 00'
'6FCB'	Call Forwarding Indication Status	'xx 00 FF...FF'
'6FCC'	Extension 7	'00 FF...FF'
'6FCD'	Service Provider Display Information	
'6FCE'	MMS Notification	'00 00 00 FF...FF'
'6FCF'	Extension 8	'FF...FF'
'6FD0'	MMS Issuer Connectivity Parameters	'FF...FF'
'6FD1'	MMS User Preferences	'FF...FF'
'6FD2'	MMS User Connectivity Parameters	'FF...FF'
'6FD4'	Voice Group Call Service Cipherring Algorithm	'00...00'

NOTE 1: The value '000000' means that ACMmax is not valid, i.e. there is no restriction on the ACM. When assigning a value to ACMmax, care should be taken not to use values too close to the maximum possible value 'FFFFFF', because the INCREASE command does not update EF_{ACM} if the units to be added would exceed 'FFFFFF'. This could affect the call termination procedure of the Advice of Charge function.

NOTE 2: xxxxxx stands for any valid MCC and MNC, coded according to TS 24.008 [9].

CHANGE REQUEST

⌘ **31.102 CR 227** ⌘ rev **-** ⌘ Current version: **3.16.0** ⌘

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:	⌘ Correction of presence indication for NIA, VGCS/VBS files		
Source:	⌘ T3		
Work item code:	⌘ TEI	Date:	⌘ 30/04/2004
Category:	⌘ F	Release:	⌘ Rel-99
	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:	⌘ When introducing the NIA and VGCS/VBS files recently, it was forgotten to specify the presence indication of the related files. Therefore it's not clear how the terminal can know if the files are present.
Summary of change:	⌘ Added references to the respective service indication in EF _{UST} .
Consequences if not approved:	⌘ Unpredictable behaviour of the ME.

Clauses affected:	⌘ 4.2.58, 4.2.59, 4.2.60, 4.2.61, 4.2.62										
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:	⌘ Equivalent CRs needed for further releases										

4.2.58 EF_{NIA} (Network's Indication of Alerting)

[If service n°56 is "available", this file shall be present.](#)

This EF contains categories and associated text related to the Network's indication of alerting in the MS service defined in TS 22.101 [24].

Identifier: '6FD3'		Structure: linear fixed		Optional
Record length : X+1 bytes		Update activity: low		
Access Conditions:				
READ		PIN		
UPDATE		ADM		
INVALIDATE		ADM		
REHABILITATE		ADM		
Bytes	Description	M/O	Length	
1	Alerting category	M	1 byte	
2 to X+1	Informative text	M	X bytes	

- Alerting category

Contents:

category of alerting for terminating traffic.

Coding:

according to TS 24.008 [9]. Value 'FF' means that no information on alerting category is available.

- Informative text

Contents:

text describing the type of terminating traffic associated with the category.

Coding:

see the coding of the Alpha Identifier item of the EF_{ADN}. The maximum number of characters for this informative text is indicated in TS 22.101 [24].

4.2.59 EF_{VGCS} (Voice Group Call Service)

[If service n°57 is "available", this file shall be present.](#)

This EF contains a list of those VGCS group identifiers the user has subscribed to. The elementary file is used by the ME for group call establishment and group call reception.

Identifier: '6FB1'		Structure: transparent		Optional
File size: 4n bytes (n <= 50)		Update activity: low		
Access Conditions:				
READ		PIN		
UPDATE		ADM		
INVALIDATE		ADM		
REHABILITATE		ADM		
Bytes	Description	M/O	Length	
1 to 4	Group ID 1	M	4 bytes	
5 to 8	Group ID 2	O	4 bytes	
:	:	:	:	
(4n-3) to 4n	Group ID n	O	4 bytes	

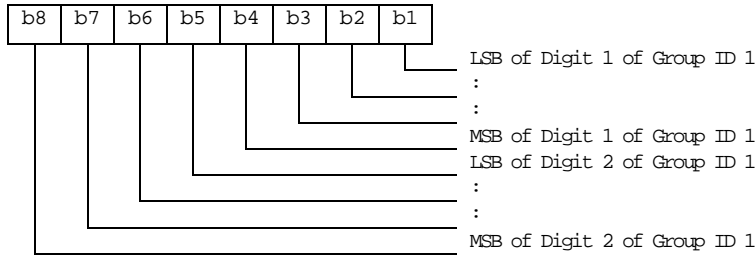
- Group ID

Contents: VGCS Group ID, according to TS 23.003 [25]

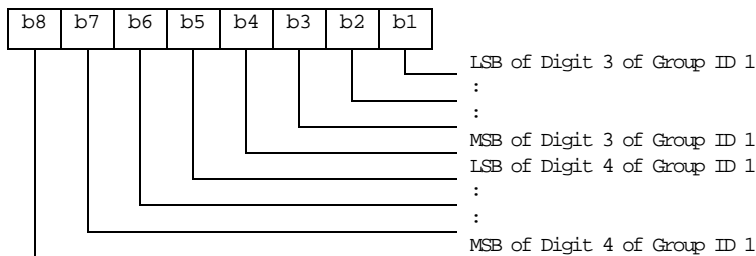
Coding:

The VGCS Group ID is of a variable length with a maximum length of 8 digits. Each VGCS Group ID is coded on four bytes, with each digit within the code being coded on four bits corresponding to BCD code. If a VGCS Group ID of less than 8 digits is chosen, then the unused nibbles shall be set to 'F'. VGCS Group ID Digit 1 is the most significant digit of the Group ID.

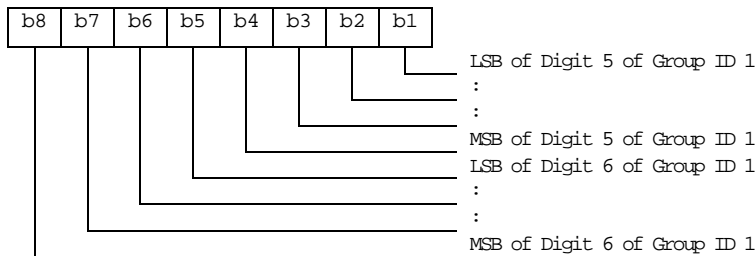
Byte 1:



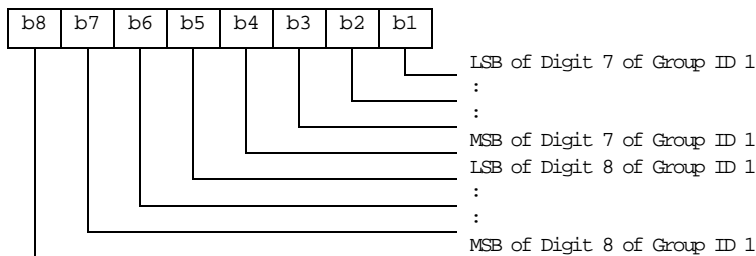
Byte 2:



Byte 3:

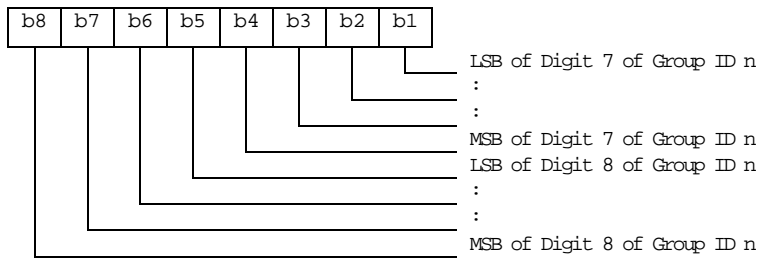


Byte 4:



:
: etc.....

Byte (4n-3) to 4n:



If storage for fewer than the maximum possible number n of VGCS Group IDs, is required, the excess bytes shall be set to 'FF'.

4.2.60 EF_{VGCS} (Voice Group Call Service Status)

If service n°57 is "available", this file shall be present.

This EF contains the status of activation for the VGCS group identifiers. The elementary file is directly related to the EF_{VGCS}. This EF shall always be allocated if EF_{VGCS} is allocated.

Identifier: '6FB2'		Structure: transparent		Optional
File size: 7 bytes			Update activity: low	
Access Conditions:				
READ		PIN		
UPDATE		ADM		
INVALIDATE		ADM		
REHABILITATE		ADM		
Bytes	Description	M/O	Length	
1 to 7	Activation/Deactivation Flags	M	7 bytes	

- Activation/Deactivation Flags

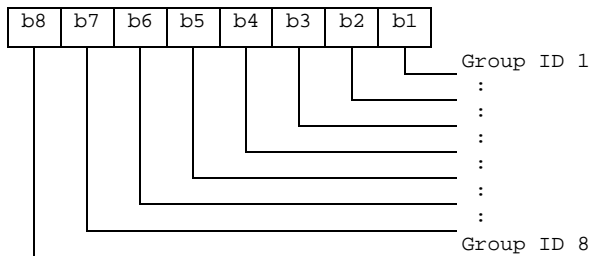
Contents: Activation/Deactivation Flags of the appropriate Group IDs

Coding:

bit = 0 means - Group ID deactivated

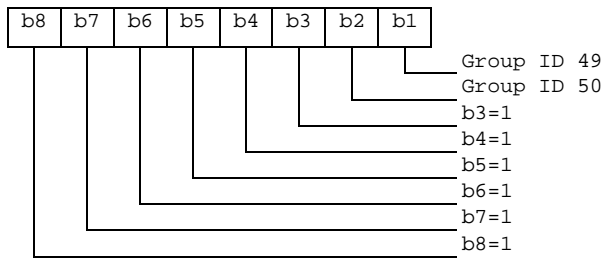
bit = 1 means - Group ID activated

Byte 1:



etc : : : : : : : :

Byte 7:



4.2.61 EF_{VBS} (Voice Broadcast Service)

[If service n°58 is "available", this file shall be present.](#)

This EF contains a list of those VBS group identifiers the user has subscribed to. The elementary file is used by the ME for broadcast call establishment and broadcast call reception.

Identifier: '6FB3'		Structure: transparent		Optional	
File size: 4n bytes (n <= 50)			Update activity: low		
Access Conditions:					
READ		PIN			
UPDATE		ADM			
INVALIDATE		ADM			
REHABILITATE		ADM			
Bytes	Description			M/O	Length
1 to 4	Group ID 1			M	4 bytes
5 to 2	Group ID 2			O	4 bytes
:	:			:	:
(4n-3) to 4n	Group ID n			O	4 bytes

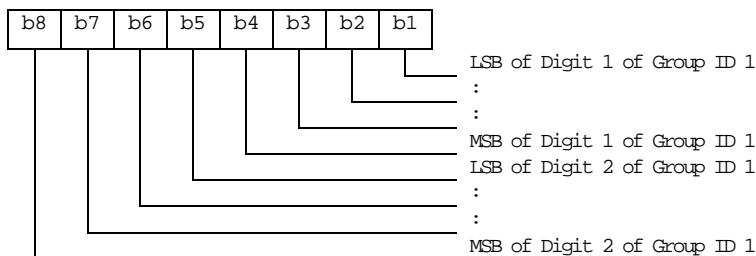
- Group ID

Contents: VBS Group ID, according to TS 23.003 [25]

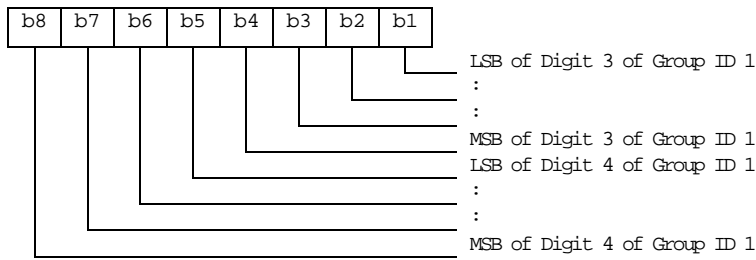
Coding:

The VBS Group ID is of a variable length with a maximum length of 8 digits. Each VBS Group ID is coded on four bytes, with each digit within the code being coded on four bits corresponding to BCD code. If a VBS Group ID of less than 8 digits is chosen, then the unused nibbles shall be set to 'F'. VBS Group ID Digit 1 is the most significant digit of the Group ID.

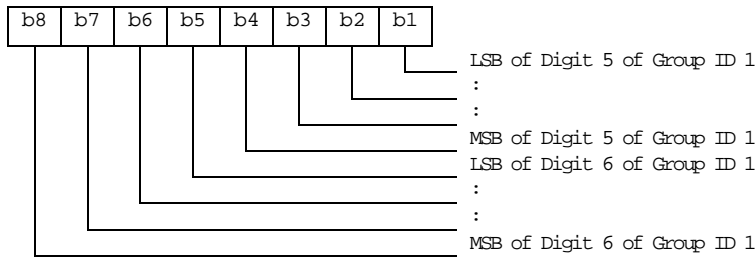
Byte 1:



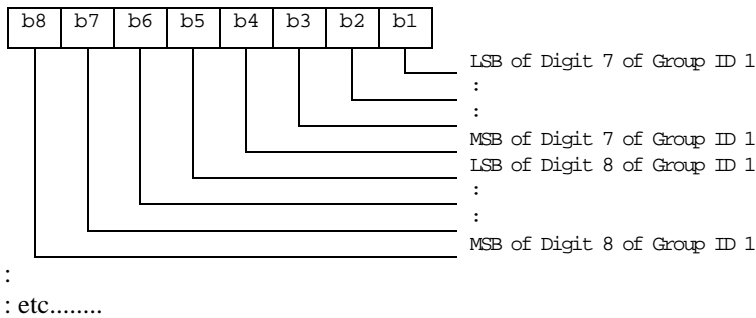
Byte 2:



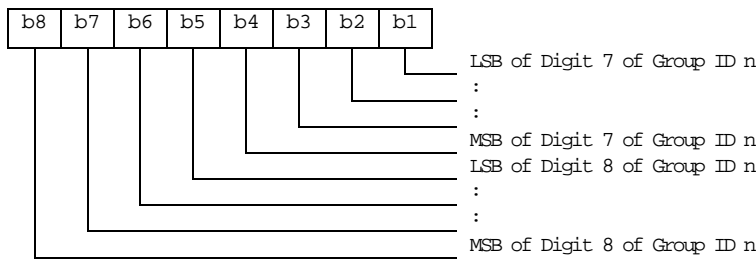
Byte 3:



Byte 4:



Byte (4n-3) to 4n:



If storage for fewer than the maximum possible number n of VBS Group IDs, is required, the excess bytes shall be set to 'FF'.

4.2.62 EF_{VBS} (Voice Broadcast Service Status)

If service n°58 is "available", this file shall be present.

This EF contains the status of activation for the VBS group identifiers. The elementary file is directly related to the EF_{VBS}. This EF shall always be allocated if EF_{VBS} is allocated.

Identifier: '6FB4'		Structure: transparent		Optional	
File size: 7 bytes			Update activity: low		
Access Conditions:					
READ		PIN			
UPDATE		ADM			
INVALIDATE		ADM			
REHABILITATE		ADM			
Bytes	Description			M/O	Length
1 to 7	Activation/Deactivation Flags			M	7 bytes

- Activation/Deactivation Flags

Contents: Activation/Deactivation Flags of the appropriate Group IDs

Coding:

see coding of EF_{VGCS}

3GPP TSG-T3 Meeting #31
 Berlin, Germany, 27.-30.04.2004

Tdoc # T3-040341

CR-Form-v7
CHANGE REQUEST
¶ 31.102 CR 225 ¶ rev - ¶ Current version: 3.16.0 ¶

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:	¶ CR 31.102 R99: Clarification on Emergency Call Numbers.Alignment with TS22.101		
Source:	¶ T3		
Work item code:	¶ TEI	Date:	¶ 30.04.2004
Category:	¶ F	Release:	¶ R99
	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:	¶ It is not clear which number shall be used as Emergency Number when EFEC does not contain any valid number or USIM/SIM is not inserted. In TS31.102, it is stated that "If EFEC does not contain any valid number, the UE shall use the emergency numbers it stores for use in setting up an emergency call without a USIM." In TS22.101, it is stated that "When no emergency numbers are stored within the SIM/USIM the following numbers shall be stored in the ME for use as emergency numbers: 112, and 911. " It is also stated in TS22.101 that "The following emergency numbers shall be stored in the ME for use without SIM/USIM: 000, 08, 112, 110, 118, 119, 911 and 999." The sentence in TS31.102 makes it unclear which number shall be used for Emergency Call.
Summary of change:	¶ 4.2.21: modify one sentence that is ambiguous.
Consequences if not approved:	¶ Numbers that shall be used for Emergency Call is not clear when EFEC does not contain any valid number or USIM/SIM is not inserted.

Clauses affected:	¶ 4.2.21								
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;">N</td> </tr> <tr> <td style="text-align: center;">¶</td> <td style="text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">¶</td> <td style="text-align: center;">N</td> </tr> </table> Other core specifications ¶ Test specifications ¶ O&M Specifications ¶	Y	N	¶	N	¶	N	¶	N
Y	N								
¶	N								
¶	N								
¶	N								

Other comments: ☹

4.2.21 EF_{ECC} (Emergency Call Codes)

This EF contains emergency call codes. If EF_{ECC} does not contain any valid number, or USIM is not inserted, the UE shall use the emergency numbers as defined in TS22.101[24]

Identifier: '6FB7'		Structure: linear fixed		Mandatory	
SFI: '01'					
Record size: X+4 bytes			Update activity: low		
Access Conditions:					
READ		ALW			
UPDATE		ADM			
DEACTIVATE		ADM			
ACTIVATE		ADM			
Bytes	Description	M/O	Length		
1 to 3	Emergency Call Code	M	3 bytes		
4 to X+3	Emergency Call Code Alpha Identifier	O	X bytes		
X+4	Emergency Service Category	M	1 byte		

- Emergency Call Code.

Contents:

- Emergency Call Code.

Coding:

- the emergency call code is of a variable length with a maximum length of 6 digits. Each emergency call code is coded on three bytes, with each digit within the code being coded on four bits as shown below. If a code of less than 6 digits is chosen, then the unused nibbles shall be set to 'F'. ~~If EF_{ECC} does not contain any valid number, the UE shall use the emergency numbers it stores for use in setting up an emergency call without a USIM.~~

CR-Form-v7

CHANGE REQUEST

⌘ **31.102 CR 228** ⌘ rev **-** ⌘ Current version: **4.12.0** ⌘

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:	⌘ Correction of presence indication for NIA, VGCS/VBS files		
Source:	⌘ T3		
Work item code:	⌘ TEI	Date:	⌘ 30/04/2004
Category:	⌘ A	Release:	⌘ Rel-4
	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:	⌘ When introducing the NIA and VGCS/VBS files recently, it was forgotten to specify the presence indication of the related files. Therefore it's not clear how the terminal can know if the files are present.
Summary of change:	⌘ Added references to the respective service indication in EF _{UST} .
Consequences if not approved:	⌘ Unpredictable behaviour of the ME.

Clauses affected:	⌘ 4.2.72, 4.2.73, 4.2.74, 4.2.75, 4.2.76										
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:	⌘ R99: see T3-030328 - Equivalent CRs needed for further releases										

4.2.72 EF_{NIA} (Network's Indication of Alerting)

[If service n°56 is "available", this file shall be present.](#)

This EF contains categories and associated text related to the Network's indication of alerting in the MS service defined in TS 22.101 [24].

Identifier: '6FD3'		Structure: linear fixed		Optional
Record length : X+1 bytes		Update activity: low		
Access Conditions:				
READ		PIN		
UPDATE		ADM		
INVALIDATE		ADM		
REHABILITATE		ADM		
Bytes	Description	M/O	Length	
1	Alerting category	M	1 byte	
2 to X+1	Informative text	M	X bytes	

- Alerting category

Contents:

category of alerting for terminating traffic.

Coding:

according to TS 24.008 [9]. Value 'FF' means that no information on alerting category is available.

- Informative text

Contents:

text describing the type of terminating traffic associated with the category.

Coding:

see the coding of the Alpha Identifier item of the EF_{ADN}. The maximum number of characters for this informative text is indicated in TS 22.101 [24].

4.2.73 EF_{VGCS} (Voice Group Call Service)

[If service n°57 is "available", this file shall be present.](#)

This EF contains a list of those VGCS group identifiers the user has subscribed to. The elementary file is used by the ME for group call establishment and group call reception.

Identifier: '6FB1'		Structure: transparent		Optional
File size: 4n bytes (n <= 50)		Update activity: low		
Access Conditions:				
READ		PIN		
UPDATE		ADM		
INVALIDATE		ADM		
REHABILITATE		ADM		
Bytes	Description	M/O	Length	
1 to 4	Group ID 1	M	4 bytes	
5 to 8	Group ID 2	O	4 bytes	
:	:	:	:	
(4n-3) to 4n	Group ID n	O	4 bytes	

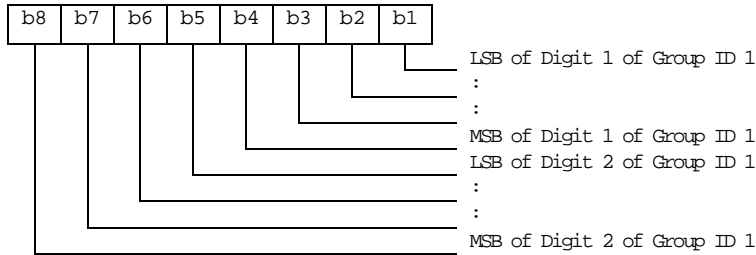
- Group ID

Contents: VGCS Group ID, according to TS 23.003 [25]

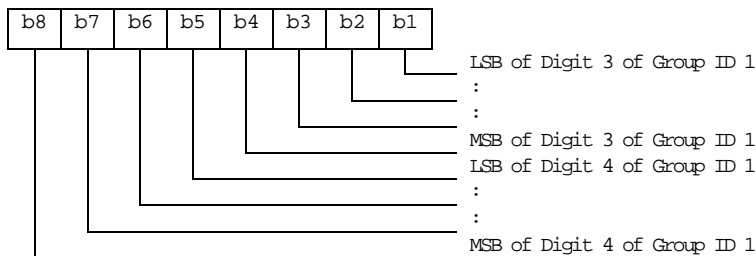
Coding:

The VGCS Group ID is of a variable length with a maximum length of 8 digits. Each VGCS Group ID is coded on four bytes, with each digit within the code being coded on four bits corresponding to BCD code. If a VGCS Group ID of less than 8 digits is chosen, then the unused nibbles shall be set to 'F'. VGCS Group ID Digit 1 is the most significant digit of the Group ID.

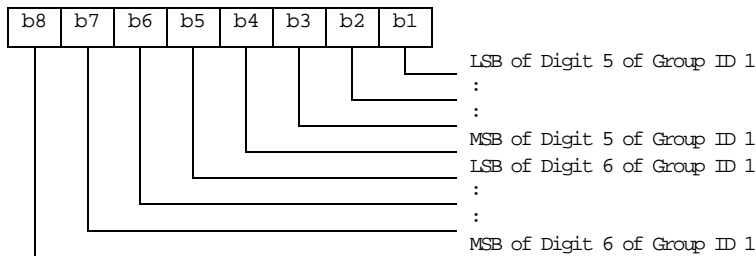
Byte 1:



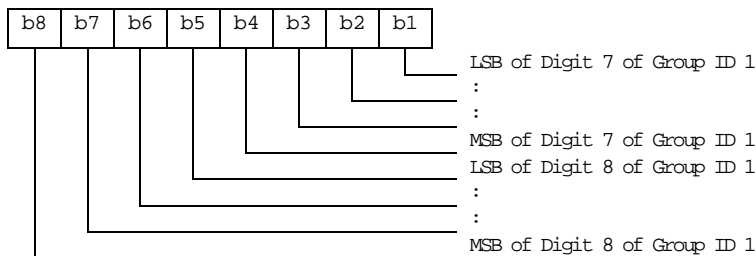
Byte 2:



Byte 3:

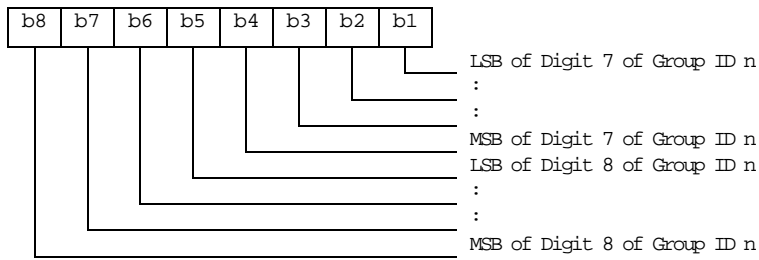


Byte 4:



:
: etc.....

Byte (4n-3) to 4n:



If storage for fewer than the maximum possible number n of VGCS Group IDs, is required, the excess bytes shall be set to 'FF'.

4.2.74 EF_{VGCS} (Voice Group Call Service Status)

If service n°57 is "available", this file shall be present.

This EF contains the status of activation for the VGCS group identifiers. The elementary file is directly related to the EF_{VGCS}. This EF shall always be allocated if EF_{VGCS} is allocated.

Identifier: '6FB2'		Structure: transparent		Optional	
File size: 7 bytes			Update activity: low		
Access Conditions:					
READ		PIN			
UPDATE		ADM			
INVALIDATE		ADM			
REHABILITATE		ADM			
Bytes	Description			M/O	Length
1 to 7	Activation/Deactivation Flags			M	7 bytes

- Activation/Deactivation Flags

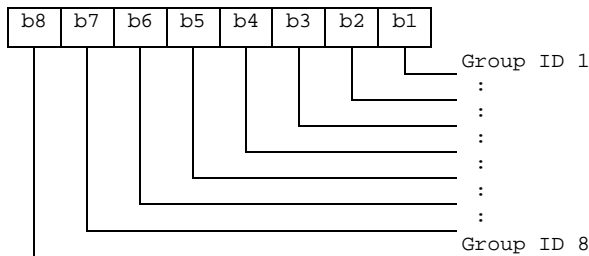
Contents: Activation/Deactivation Flags of the appropriate Group IDs

Coding:

bit = 0 means - Group ID deactivated

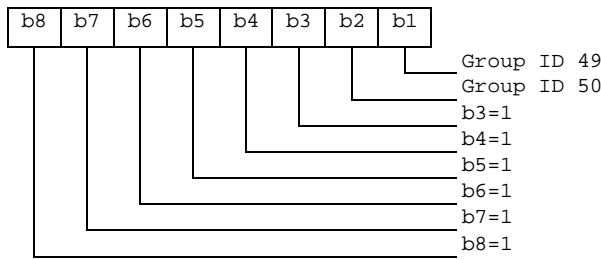
bit = 1 means - Group ID activated

Byte 1:



etc : : : : : : : :

Byte 7:



4.2.75 EF_{VBS} (Voice Broadcast Service)

[If service n°58 is "available", this file shall be present.](#)

This EF contains a list of those VBS group identifiers the user has subscribed to. The elementary file is used by the ME for broadcast call establishment and broadcast call reception.

Identifier: '6FB3'		Structure: transparent		Optional	
File size: 4n bytes (n <= 50)			Update activity: low		
Access Conditions:					
READ		PIN			
UPDATE		ADM			
INVALIDATE		ADM			
REHABILITATE		ADM			
Bytes	Description	M/O	Length		
1 to 4	Group ID 1	M	4 bytes		
5 to 2	Group ID 2	O	4 bytes		
:	:	:	:		
(4n-3) to 4n	Group ID n	O	4 bytes		

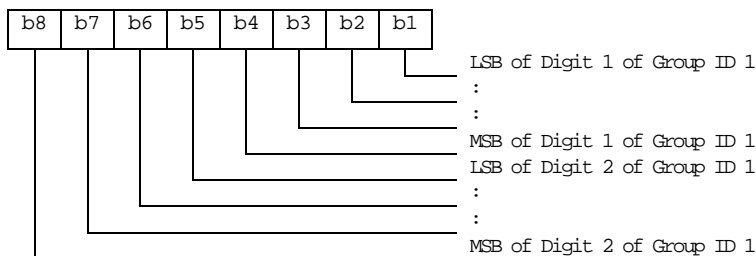
- Group ID

Contents: VBS Group ID, according to TS 23.003 [25]

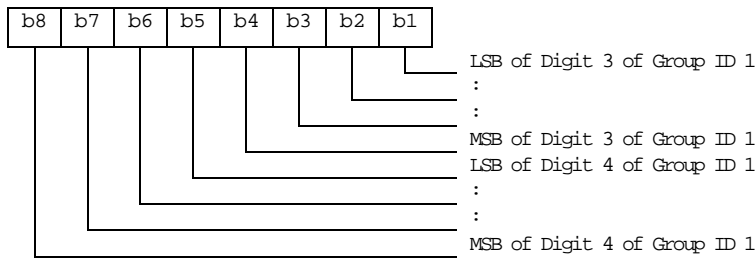
Coding:

The VBS Group ID is of a variable length with a maximum length of 8 digits. Each VBS Group ID is coded on four bytes, with each digit within the code being coded on four bits corresponding to BCD code. If a VBS Group ID of less than 8 digits is chosen, then the unused nibbles shall be set to 'F'. VBS Group ID Digit 1 is the most significant digit of the Group ID.

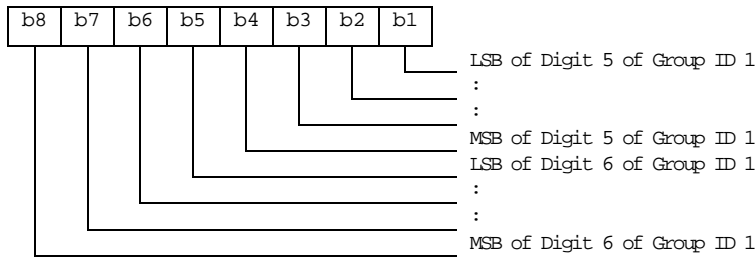
Byte 1:



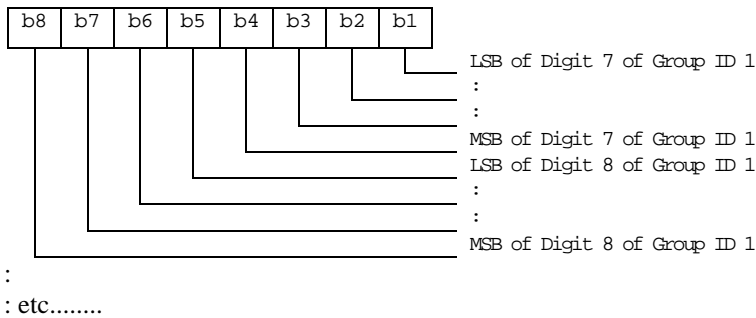
Byte 2:



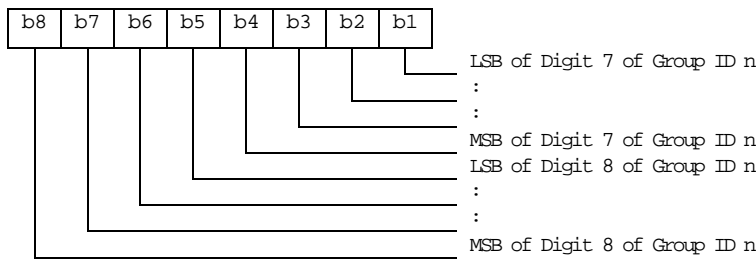
Byte 3:



Byte 4:



Byte (4n-3) to 4n:



If storage for fewer than the maximum possible number n of VBS Group IDs, is required, the excess bytes shall be set to 'FF'.

4.2.76 EF_{VBS} (Voice Broadcast Service Status)

[If service n°58 is "available", this file shall be present.](#)

This EF contains the status of activation for the VBS group identifiers. The elementary file is directly related to the EF_{VBS}. This EF shall always be allocated if EF_{VBS} is allocated.

Identifier: '6FB4'		Structure: transparent		Optional	
File size: 7 bytes			Update activity: low		
Access Conditions:					
READ		PIN			
UPDATE		ADM			
INVALIDATE		ADM			
REHABILITATE		ADM			
Bytes	Description			M/O	Length
1 to 7	Activation/Deactivation Flags			M	7 bytes

- Activation/Deactivation Flags

Contents: Activation/Deactivation Flags of the appropriate Group IDs

Coding:

see coding of EF_{VGCS}

CHANGE REQUEST

⌘ **31.102 CR 229** ⌘ rev **-** ⌘ Current version: **5.8.0** ⌘

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:	⌘ Correction of presence indication for NIA, VGCS/VBS files		
Source:	⌘ T3		
Work item code:	⌘ TEI	Date:	⌘ 30/04/2004
Category:	⌘ A	Release:	⌘ Rel-5
	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:	⌘ When introducing the NIA and VGCS/VBS files recently, it was forgotten to specify the presence indication of the related files. Therefore it's not clear how the terminal can know if the files are present.
Summary of change:	⌘ Added references to the respective service indication in EF _{UST} .
Consequences if not approved:	⌘ Unpredictable behaviour of the ME.

Clauses affected:	⌘ 4.2.72, 4.2.73, 4.2.74, 4.2.75, 4.2.76										
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:	⌘ Rel-4: see T3-030348 - Equivalent CRs needed for Rel-6										

4.2.72 EF_{NIA} (Network's Indication of Alerting)

[If service n°56 is "available", this file shall be present.](#)

This EF contains categories and associated text related to the Network's indication of alerting in the MS service defined in TS 22.101 [24].

Identifier: '6FD3'		Structure: linear fixed		Optional
Record length : X+1 bytes		Update activity: low		
Access Conditions:				
READ		PIN		
UPDATE		ADM		
INVALIDATE		ADM		
REHABILITATE		ADM		
Bytes	Description	M/O	Length	
1	Alerting category	M	1 byte	
2 to X+1	Informative text	M	X bytes	

- Alerting category

Contents:

category of alerting for terminating traffic.

Coding:

according to TS 24.008 [9]. Value 'FF' means that no information on alerting category is available.

- Informative text

Contents:

text describing the type of terminating traffic associated with the category.

Coding:

see the coding of the Alpha Identifier item of the EF_{ADN}. The maximum number of characters for this informative text is indicated in TS 22.101 [24].

4.2.73 EF_{VGCS} (Voice Group Call Service)

[If service n°57 is "available", this file shall be present.](#)

This EF contains a list of those VGCS group identifiers the user has subscribed to. The elementary file is used by the ME for group call establishment and group call reception.

Identifier: '6FB1'		Structure: transparent		Optional
File size: 4n bytes (n <= 50)		Update activity: low		
Access Conditions:				
READ		PIN		
UPDATE		ADM		
INVALIDATE		ADM		
REHABILITATE		ADM		
Bytes	Description	M/O	Length	
1 to 4	Group ID 1	M	4 bytes	
5 to 8	Group ID 2	O	4 bytes	
:	:	:	:	
(4n-3) to 4n	Group ID n	O	4 bytes	

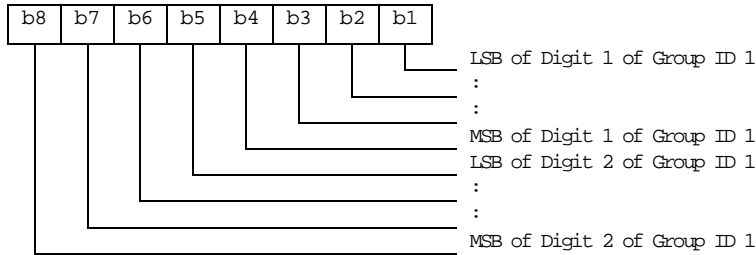
- Group ID

Contents: VGCS Group ID, according to TS 23.003 [25]

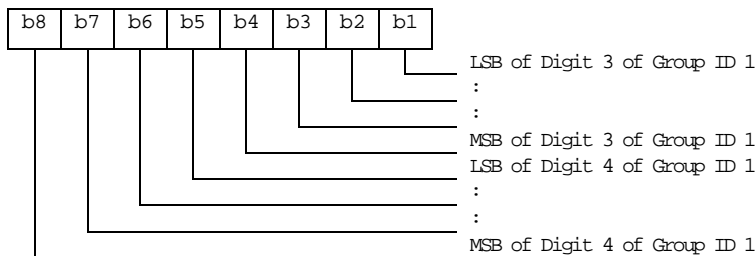
Coding:

The VGCS Group ID is of a variable length with a maximum length of 8 digits. Each VGCS Group ID is coded on four bytes, with each digit within the code being coded on four bits corresponding to BCD code. If a VGCS Group ID of less than 8 digits is chosen, then the unused nibbles shall be set to 'F'. VGCS Group ID Digit 1 is the most significant digit of the Group ID.

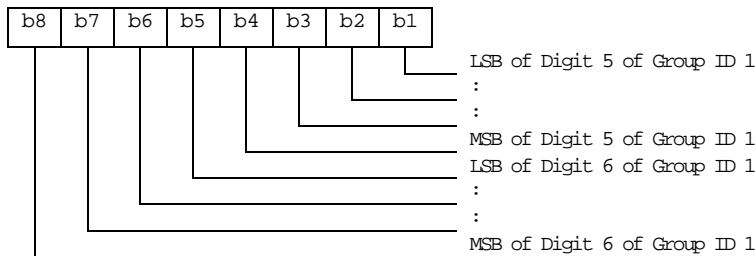
Byte 1:



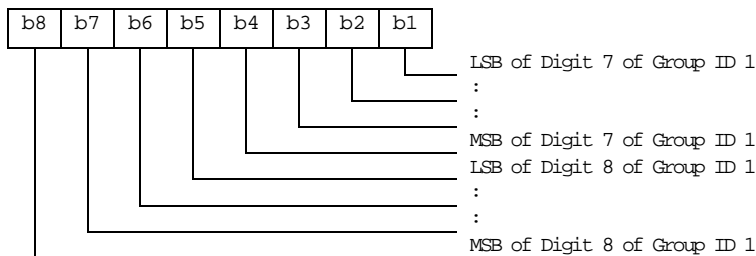
Byte 2:



Byte 3:

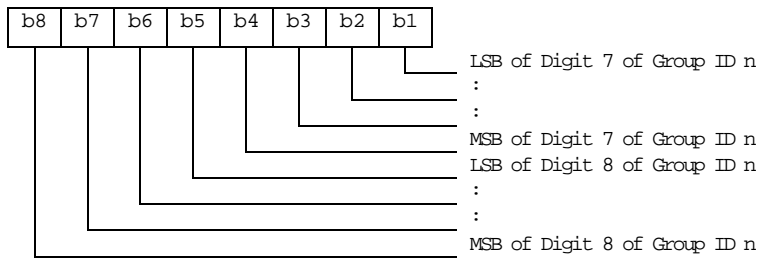


Byte 4:



:
: etc.....

Byte (4n-3) to 4n:



If storage for fewer than the maximum possible number n of VGCS Group IDs, is required, the excess bytes shall be set to 'FF'.

4.2.74 EF_{VGCS} (Voice Group Call Service Status)

[If service n°57 is "available", this file shall be present.](#)

This EF contains the status of activation for the VGCS group identifiers. The elementary file is directly related to the EF_{VGCS}. This EF shall always be allocated if EF_{VGCS} is allocated.

Identifier: '6FB2'		Structure: transparent		Optional	
File size: 7 bytes			Update activity: low		
Access Conditions:					
READ		PIN			
UPDATE		ADM			
INVALIDATE		ADM			
REHABILITATE		ADM			
Bytes	Description			M/O	Length
1 to 7	Activation/Deactivation Flags			M	7 bytes

- Activation/Deactivation Flags

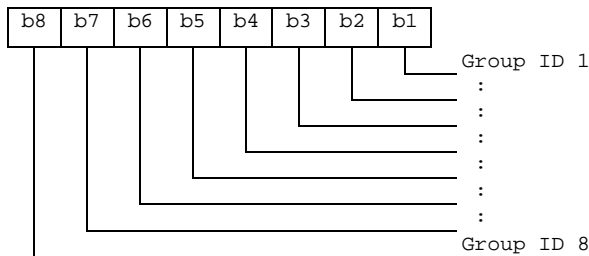
Contents: Activation/Deactivation Flags of the appropriate Group IDs

Coding:

bit = 0 means - Group ID deactivated

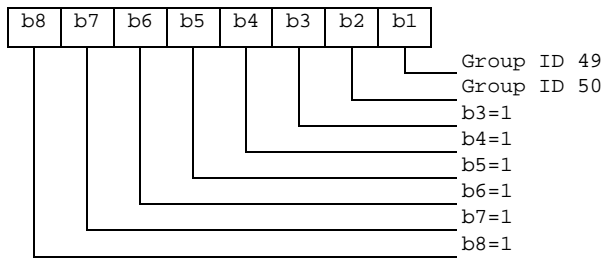
bit = 1 means - Group ID activated

Byte 1:



etc : : : : : : : :

Byte 7:



4.2.75 EF_{VBS} (Voice Broadcast Service)

[If service n°58 is "available", this file shall be present.](#)

This EF contains a list of those VBS group identifiers the user has subscribed to. The elementary file is used by the ME for broadcast call establishment and broadcast call reception.

Identifier: '6FB3'		Structure: transparent		Optional	
File size: 4n bytes (n <= 50)			Update activity: low		
Access Conditions:					
READ		PIN			
UPDATE		ADM			
INVALIDATE		ADM			
REHABILITATE		ADM			
Bytes	Description			M/O	Length
1 to 4	Group ID 1			M	4 bytes
5 to 2	Group ID 2			O	4 bytes
:	:			:	:
(4n-3) to 4n	Group ID n			O	4 bytes

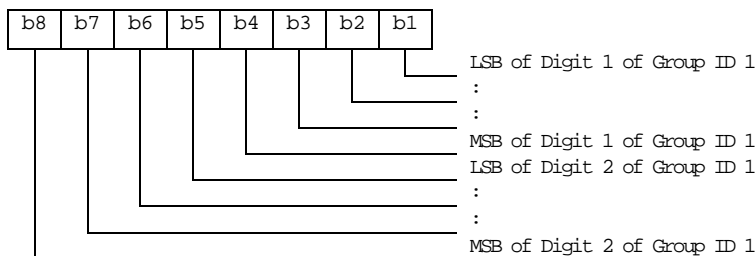
- Group ID

Contents: VBS Group ID, according to TS 23.003 [25]

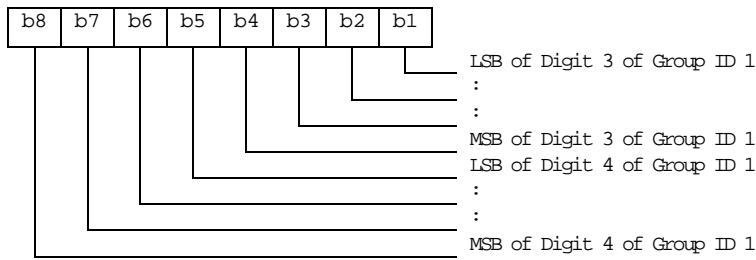
Coding:

The VBS Group ID is of a variable length with a maximum length of 8 digits. Each VBS Group ID is coded on four bytes, with each digit within the code being coded on four bits corresponding to BCD code. If a VBS Group ID of less than 8 digits is chosen, then the unused nibbles shall be set to 'F'. VBS Group ID Digit 1 is the most significant digit of the Group ID.

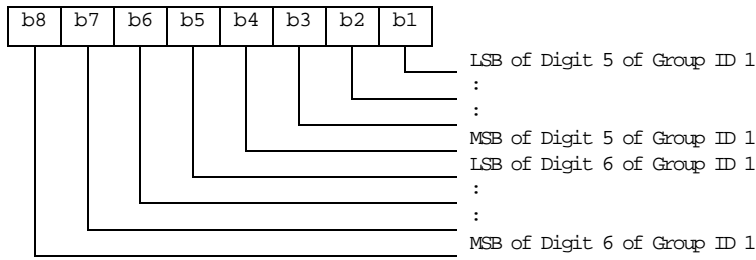
Byte 1:



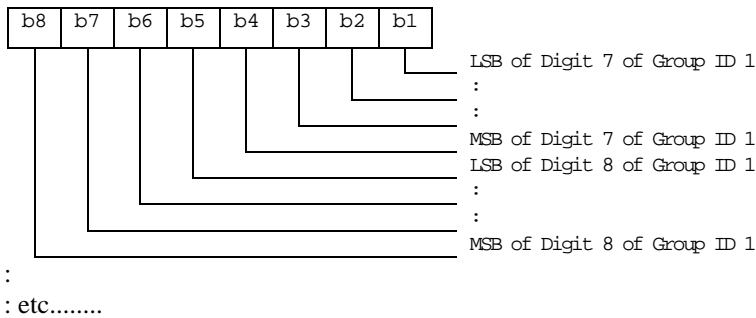
Byte 2:



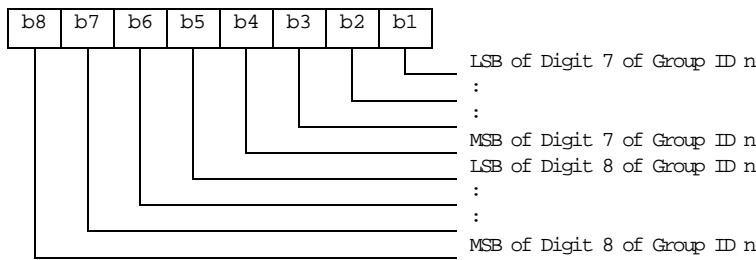
Byte 3:



Byte 4:



Byte (4n-3) to 4n:



If storage for fewer than the maximum possible number n of VBS Group IDs, is required, the excess bytes shall be set to 'FF'.

4.2.76 EF_{VBS} (Voice Broadcast Service Status)

If service n°58 is "available", this file shall be present.

This EF contains the status of activation for the VBS group identifiers. The elementary file is directly related to the EF_{VBS}. This EF shall always be allocated if EF_{VBS} is allocated.

Identifier: '6FB4'		Structure: transparent		Optional	
File size: 7 bytes			Update activity: low		
Access Conditions:					
READ		PIN			
UPDATE		ADM			
INVALIDATE		ADM			
REHABILITATE		ADM			
Bytes	Description			M/O	Length
1 to 7	Activation/Deactivation Flags			M	7 bytes

- Activation/Deactivation Flags

Contents: Activation/Deactivation Flags of the appropriate Group IDs

Coding:

see coding of EF_{VGCS}

CHANGE REQUEST

⌘ **31.102 CR 230** ⌘ rev **-** ⌘ Current version: **6.5.0** ⌘

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:	⌘ Correction of presence indication for NIA, VGCS/VBS files		
Source:	⌘ T3		
Work item code:	⌘ TEI	Date:	⌘ 30/04/2004
Category:	⌘ A	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:	⌘ When introducing the NIA and VGCS/VBS files recently, it was forgotten to specify the presence indication of the related files. Therefore it's not clear how the terminal can know if the files are present.
Summary of change:	⌘ Added references to the respective service indication in EF _{UST} .
Consequences if not approved:	⌘ Unpredictable behaviour of the ME.

Clauses affected:	⌘ 4.2.72, 4.2.73, 4.2.74, 4.2.75, 4.2.76										
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:	⌘ Rel-5: see T3-030349										

4.2.72 EF_{NIA} (Network's Indication of Alerting)

[If service n°56 is "available", this file shall be present.](#)

This EF contains categories and associated text related to the Network's indication of alerting in the MS service defined in TS 22.101 [24].

Identifier: '6FD3'		Structure: linear fixed		Optional
Record length : X+1 bytes		Update activity: low		
Access Conditions:				
READ		PIN		
UPDATE		ADM		
INVALIDATE		ADM		
REHABILITATE		ADM		
Bytes	Description	M/O	Length	
1	Alerting category	M	1 byte	
2 to X+1	Informative text	M	X bytes	

- Alerting category

Contents:

category of alerting for terminating traffic.

Coding:

according to TS 24.008 [9]. Value 'FF' means that no information on alerting category is available.

- Informative text

Contents:

text describing the type of terminating traffic associated with the category.

Coding:

see the coding of the Alpha Identifier item of the EF_{ADN}. The maximum number of characters for this informative text is indicated in TS 22.101 [24].

4.2.73 EF_{VGCS} (Voice Group Call Service)

[If service n°57 is "available", this file shall be present.](#)

This EF contains a list of those VGCS group identifiers the user has subscribed to. The elementary file is used by the ME for group call establishment and group call reception.

Identifier: '6FB1'		Structure: transparent		Optional
File size: 4n bytes (n <= 50)		Update activity: low		
Access Conditions:				
READ		PIN		
UPDATE		ADM		
INVALIDATE		ADM		
REHABILITATE		ADM		
Bytes	Description	M/O	Length	
1 to 4	Group ID 1	M	4 bytes	
5 to 8	Group ID 2	O	4 bytes	
:	:	:	:	
(4n-3) to 4n	Group ID n	O	4 bytes	

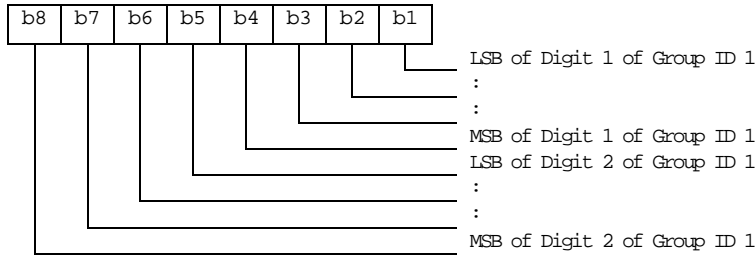
- Group ID

Contents: VGCS Group ID, according to TS 23.003 [25]

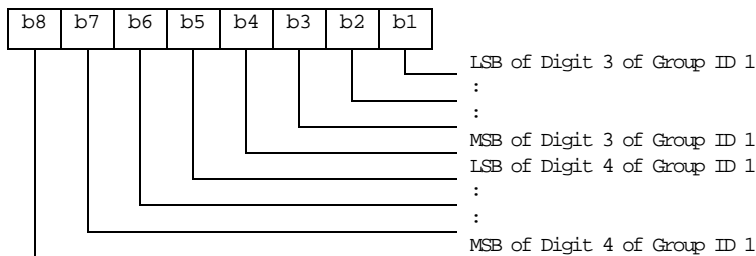
Coding:

The VGCS Group ID is of a variable length with a maximum length of 8 digits. Each VGCS Group ID is coded on four bytes, with each digit within the code being coded on four bits corresponding to BCD code. If a VGCS Group ID of less than 8 digits is chosen, then the unused nibbles shall be set to 'F'. VGCS Group ID Digit 1 is the most significant digit of the Group ID.

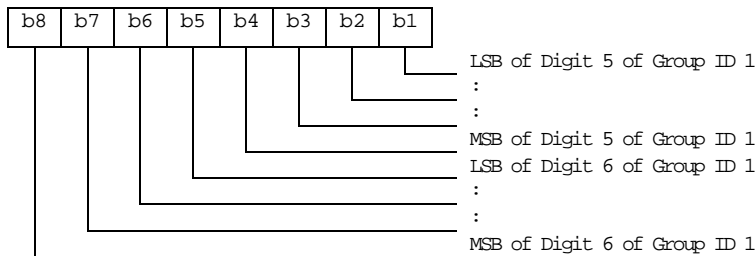
Byte 1:



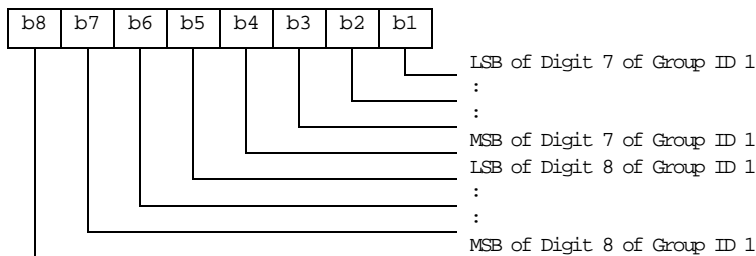
Byte 2:



Byte 3:

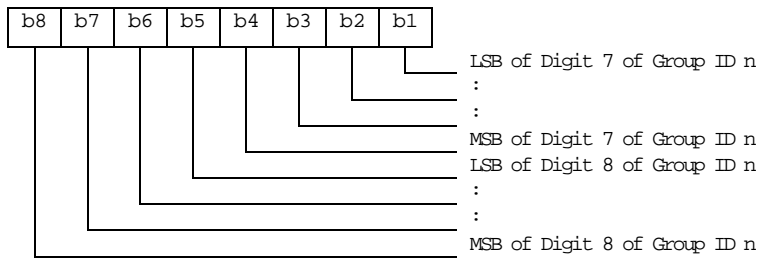


Byte 4:



:
: etc.....

Byte (4n-3) to 4n:



If storage for fewer than the maximum possible number n of VGCS Group IDs, is required, the excess bytes shall be set to 'FF'.

4.2.74 EF_{VGCS} (Voice Group Call Service Status)

[If service n°57 is "available", this file shall be present.](#)

This EF contains the status of activation for the VGCS group identifiers. The elementary file is directly related to the EF_{VGCS}. This EF shall always be allocated if EF_{VGCS} is allocated.

Identifier: '6FB2'		Structure: transparent		Optional	
File size: 7 bytes			Update activity: low		
Access Conditions:					
READ		PIN			
UPDATE		ADM			
INVALIDATE		ADM			
REHABILITATE		ADM			
Bytes	Description	M/O	Length		
1 to 7	Activation/Deactivation Flags	M	7 bytes		

- Activation/Deactivation Flags

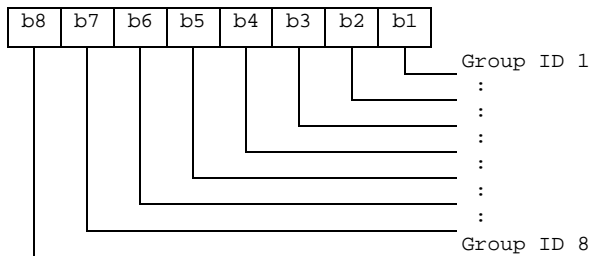
Contents: Activation/Deactivation Flags of the appropriate Group IDs

Coding:

bit = 0 means - Group ID deactivated

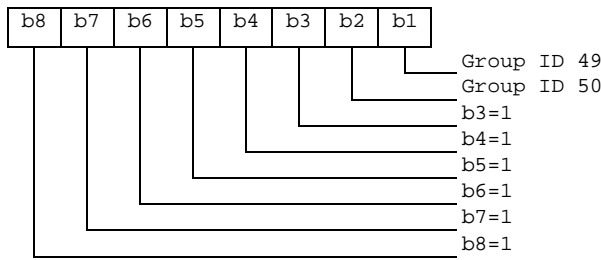
bit = 1 means - Group ID activated

Byte 1:



etc : : : : : : : :

Byte 7:



4.2.75 EF_{VBS} (Voice Broadcast Service)

[If service n°58 is "available", this file shall be present.](#)

This EF contains a list of those VBS group identifiers the user has subscribed to. The elementary file is used by the ME for broadcast call establishment and broadcast call reception.

Identifier: '6FB3'		Structure: transparent		Optional	
File size: 4n bytes (n <= 50)			Update activity: low		
Access Conditions:					
READ		PIN			
UPDATE		ADM			
INVALIDATE		ADM			
REHABILITATE		ADM			
Bytes	Description			M/O	Length
1 to 4	Group ID 1			M	4 bytes
5 to 2	Group ID 2			O	4 bytes
:	:			:	:
(4n-3) to 4n	Group ID n			O	4 bytes

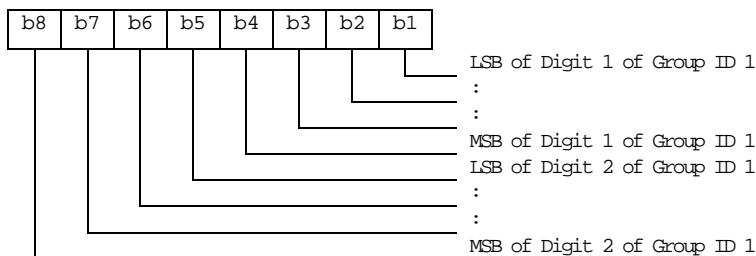
- Group ID

Contents: VBS Group ID, according to TS 23.003 [25]

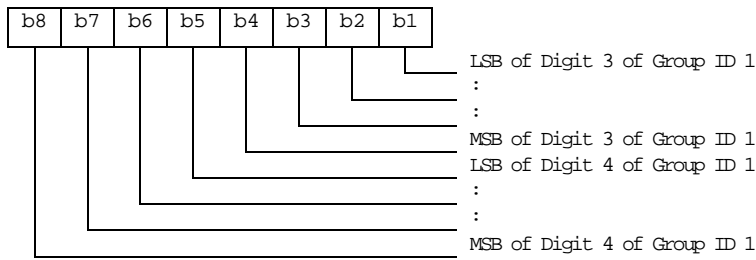
Coding:

The VBS Group ID is of a variable length with a maximum length of 8 digits. Each VBS Group ID is coded on four bytes, with each digit within the code being coded on four bits corresponding to BCD code. If a VBS Group ID of less than 8 digits is chosen, then the unused nibbles shall be set to 'F'. VBS Group ID Digit 1 is the most significant digit of the Group ID.

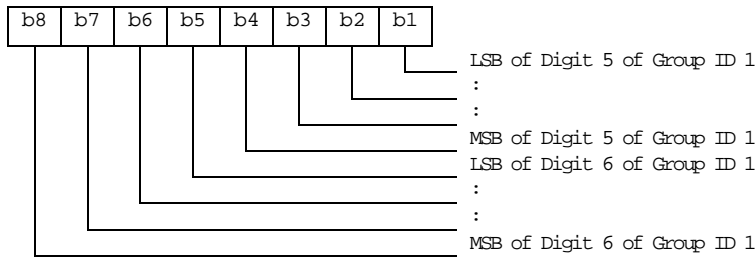
Byte 1:



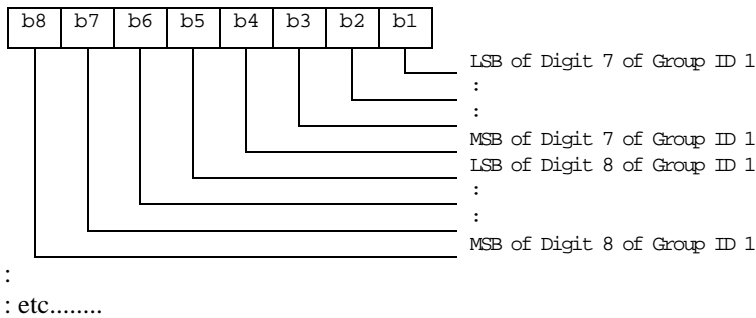
Byte 2:



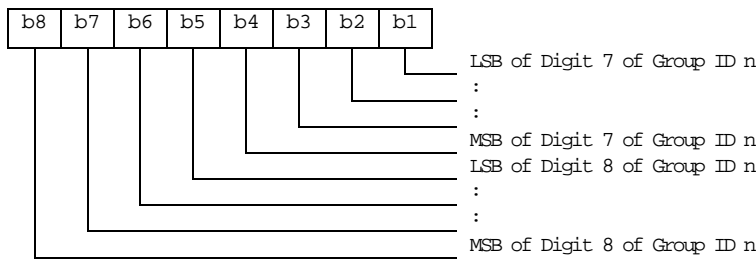
Byte 3:



Byte 4:



Byte (4n-3) to 4n:



If storage for fewer than the maximum possible number n of VBS Group IDs, is required, the excess bytes shall be set to 'FF'.

4.2.76 EF_{VBS} (Voice Broadcast Service Status)

If service n°58 is "available", this file shall be present.

This EF contains the status of activation for the VBS group identifiers. The elementary file is directly related to the EF_{VBS}. This EF shall always be allocated if EF_{VBS} is allocated.

Identifier: '6FB4'		Structure: transparent		Optional	
File size: 7 bytes			Update activity: low		
Access Conditions:					
READ		PIN			
UPDATE		ADM			
INVALIDATE		ADM			
REHABILITATE		ADM			
Bytes	Description			M/O	Length
1 to 7	Activation/Deactivation Flags			M	7 bytes

- Activation/Deactivation Flags

Contents: Activation/Deactivation Flags of the appropriate Group IDs

Coding:

see coding of EF_{VGCS}

CHANGE REQUEST

⌘ **31.102 CR 232** ⌘ rev **-** ⌘ Current version: **6.5.0** ⌘

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:	⌘ Correction of Phonebook example		
Source:	⌘ Infineon Technologies		
Work item code:	⌘ TEI	Date:	⌘ 16/04/2004
Category:	⌘ F	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 identifier of EF_GRP1 is inconsistent within the Phonebook example.
Summary of change:	⌘ Changed the identifier of EF_GRP1 in the Table G.1 "Structure of EFs inside DF PHONEBOOK" to the definitions described in the other tables of the Phonebook example
Consequences if not approved:	⌘ Misinterpretation of the Phonebook example

Clauses affected:	⌘ Annex G (informativ)										
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 Test specifications O&M Specifications	⌘
Y	N										
	X										
	X										
	X										
Other comments:	⌘										

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.

Annex G (informative): Phonebook Example

This example phonebook has more than 254 entries. Additional number (3 additional numbers) information, second name and e-mail information can be added to each ADN entry. In addition each entry has a 2 byte Unique ID (UID) attached to it. The phonebook also contains three files that are shared EF_{EXT1}, EF_{AAS} and EF_{GAS}. These files are addressed from inside a file. EF_{EXT1} is addressed via EF_{ADN}, EF_{ADN1}, EF_{AAS} is addressed via EF_{ANRA}, EF_{ANRA1}, EF_{ANRB}, EF_{ANRB1}, EF_{ANRC}, EF_{ANRC1} and EF_{GAS} is addressed via EF_{GRP}, EF_{GRP1}. The phonebook supports two levels of grouping and hidden entries in EF_{PBC}.

Two records are needed in the phonebook reference file PBR '4F30' for supporting more than 254 entries. The content of the phonebook reference file PBR '4F30' records is as shown in table G.2. The structure of the DF_{PHONEBOOK} is shown in table G.1.

The content of phonebook entries in the range from 1-508 is described in the tables G.3 and G.4.

Table G.1: Structure of EFs inside DF_{PHONEBOOK}

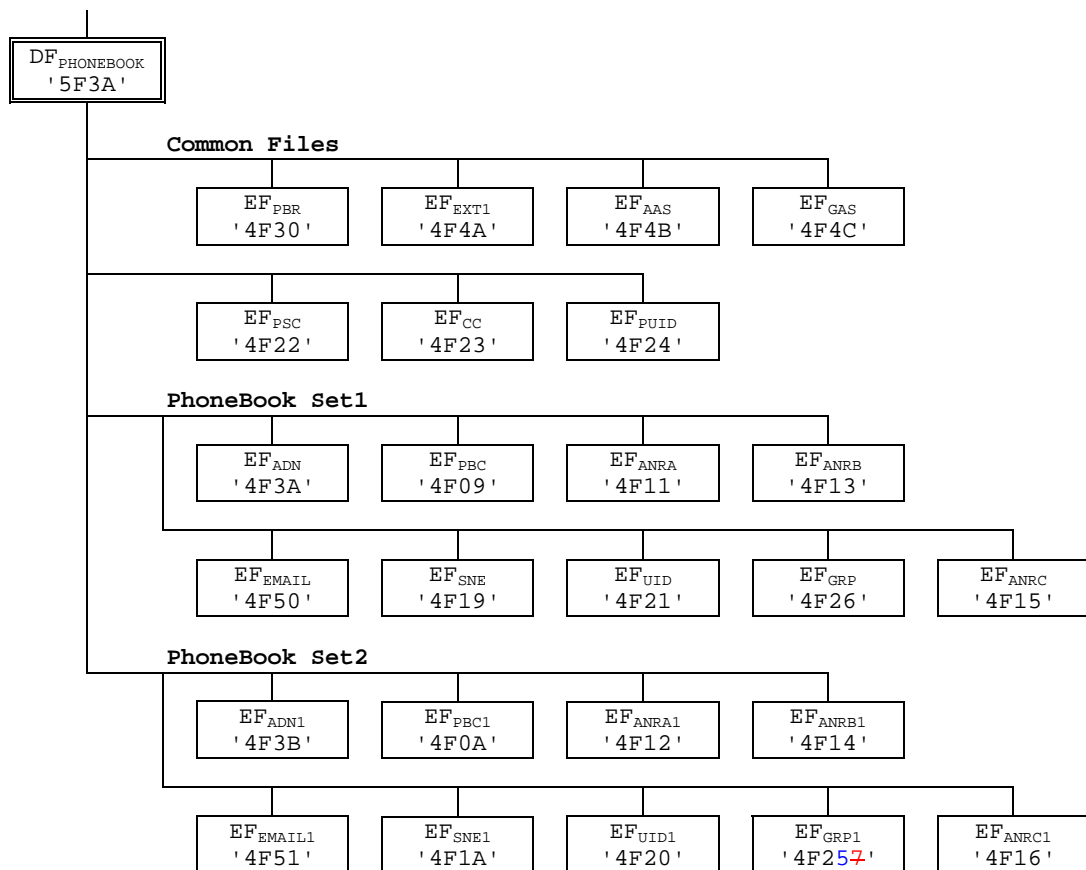


Table G.2: Contents of EF_{PBR}

Rec 1 Tag'A8' L='2D' (for Phonebook Set1)

Tag'C0'	L='03'	'4F3A'	'01'	Tag'C5'	L='03'	'4F09'	'02'	Tag'C6'	L='03'	'4F26'	'03'
Tag'C4'	L='03'	'4F11'	'04'	Tag'C4'	L='03'	'4F13'	'05'	Tag'C4'	L='03'	'4F15'	'06'
Tag'C3'	L='03'	'4F19'	'07'	Tag'C9'	L='03'	'4F21'	'12'	Tag'CA'	L='03'	'4F50'	'09'
Tag'AA'	L='0F'										
Tag'C2'	L='03'	'4F4A'	'08'	Tag'C7'	L='03'	'4F4B'	'14'	Tag'C8'	L='03'	'4F4C'	'15'

Rec 2 Tag'A8' L='2D' (for Phonebook Set 2)

Tag'C0'	L='03'	'4F3B'	'0A'	Tag'C5'	L='03'	'4F0A'	'0B'	Tag'C6'	L='03'	'4F25'	'0C'
Tag'C4'	L='03'	'4F12'	'0D'	Tag'C4'	L='03'	'4F14'	'0E'	Tag'C4'	L='03'	'4F16'	'0F'
Tag'C3'	L='03'	'4F1A'	'10'	Tag'C9'	L='03'	'4F20'	'13'	Tag'CA'	L='03'	'4F51'	'11'
Tag'AA'	L='0F'										
Tag'C2'	L='03'	'4F4A'	'08'	Tag'C7'	L='03'	'4F4B'	'14'	Tag'C8'	L='03'	'4F4C'	'15'

Table G.3: Structure of the 254 first entries in the phonebook

Phone book entry	ADN '4F3A' SFI '01'		PBC '4F09' SFI '02'	GRP '4F26' SFI '03'	ANRA '4F11' SFI '04'	ANRB '4F13' SFI '05'	ANRC '4F15' SFI '06'	SNE '4F19' SFI '07'	UID '4F21' SFI '12'	EXT1 '4F4A' SFI '08'	AAS '4F4B' SFI '14'	GAS '4F4C' SFI '15'	EMAIL '4F50' SFI '09'
# 1	ADN Content Bytes (1-(X+13))	EXT1 Ident. (Byte X+14): Rec '02'	Hidden (AID rec N° 3)	Rec n°1 Rec n°3 '00'	ANRA Rec n°1	ANRB Rec n°1	ANRC Rec n°1	Second Name Alpha String	UID	Rec '02'	Record numbers as defined in the ANRs	Record no.'s as defined in GRP	email address
# 2	ADN Content Bytes (1-(X+13))	EXT1 Ident. (Byte X+14): Rec '2A'	Not Hidden	Rec n°2 Rec n°1 Rec n°3	ANRA Rec n°2	ANRB Rec n°2	ANRC Rec n°2	Second Name Alpha String	UID	Rec '2A'	Record numbers as defined in the ANRs	Record no.'s as defined in GRP	email address
# 3													
:													
:													
:													
# 254													

Table G.4: Structure of phone book entries 255 to 508 (Rec 1-254)

Phone book entry	ADN1 '4F3B' SFI '0A'	EXT1 '4F0A' SFI '0B'	GRP1 '4F25' SFI '0C'	ANRA1 '4F12' SFI '0D'	ANRB1 '4F14' SFI '0E'	ANRC1 '4F16' SFI '0F'	SNE1 '4F1A' SFI '10'	UID1 '4F20' SFI '13'	EXT1 '4F4A' SFI '08'	AAS '4F4B' SFI '14'	GAS '4F4C' SFI '15'	EMAIL1 '4F51' SFI '11'	
#255	ADN Content Bytes (1-(X+13))	EXT1 Ident. (Byte X+14): Rec '03'	Hidden (AID Rec n° 3)	Rec n°1 Rec n°3 '00'	ANRA1 Rec n°1	ANRB1 Rec n°1	ANRC1 Rec n°1	Second Name Alpha String	UID	Rec '03'	Record numbers as defined in the ANRs	Record no.'s as defined in GRP1	email address
#256	ADN Content Bytes (1-(X+13))	EXT1 Ident. (Byte X+14): Rec '2B'	Not Hidden	Rec n°2 Rec n°1 Rec n°3	ANRA1 Rec n°2	ANRB1 Rec n°2	ANRC1 Rec n°2	Second Name Alpha String	UID	Rec '2B'	Record numbers as defined in the ANRs	Record no.'s as defined in GRP1	email address
#257													
:													
:													
:													
#508													

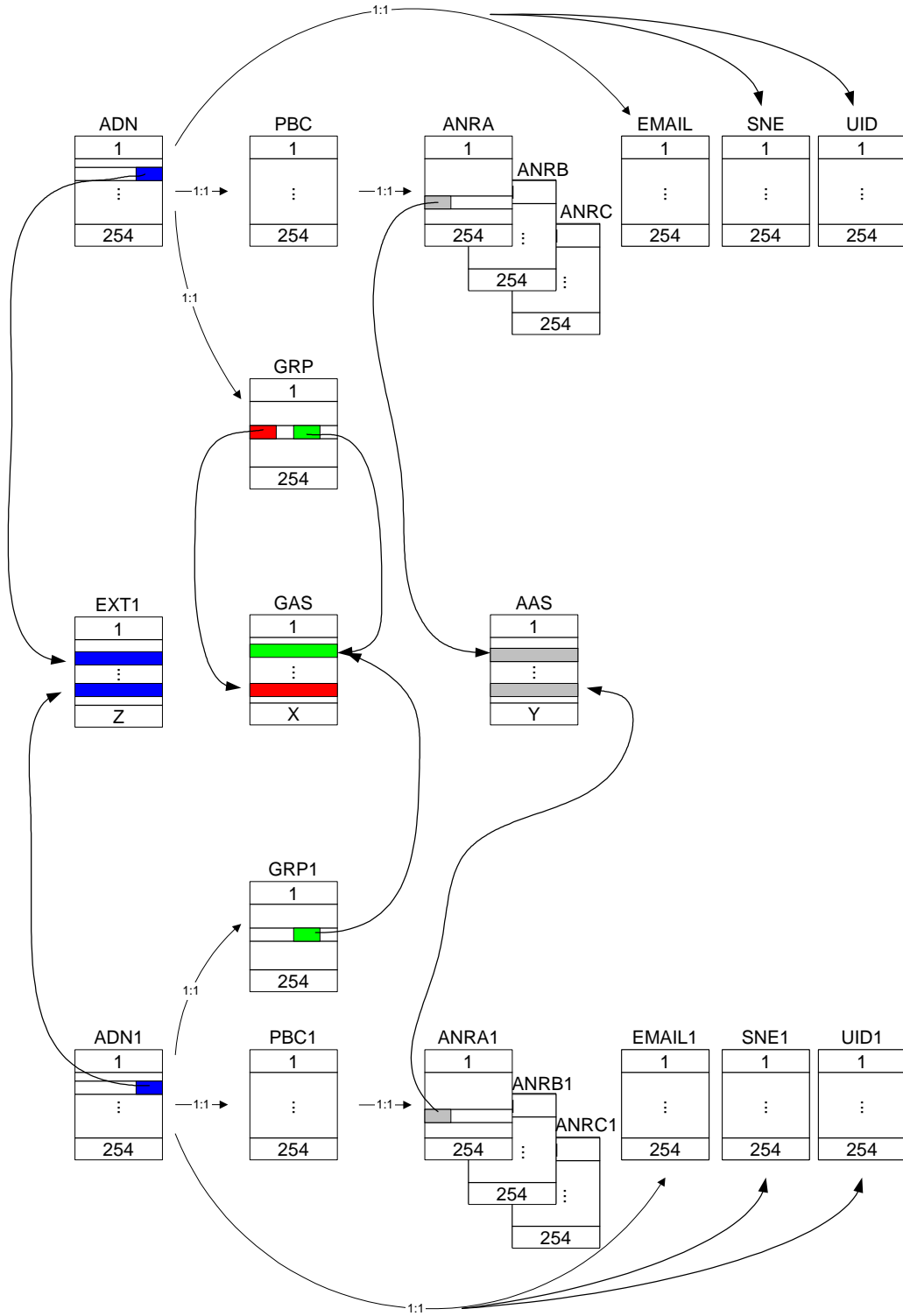


Figure G.1: Structure and Relations of the Example Phone Book