3GPP TSG-T plenary meeting #20
Hämeenlinna, Finland, 4-6 May 2003

Tdoc TP-030124

Source: T3

Title: CRs to TS 51.011: Specification of the SIM ME Interface

Document for: Approval

This document contains the following change requests:

T3 Doc	Spec	CR	Rev	Phase	Subject	Cat	V. old	V. new
T3-030398	51.011	020	-	Rel-4	Correction of the MMS example	F	4.7.0	4.8.0
T3-030417	51.011	021	-	Rel-4	Essential correction on SIM/UICC interface compatibility	F	4.7.0	4.8.0
T3-030402	51.011	022	-	Rel-4	Correction of inconsistencies within the document	F	4.7.0	4.8.0
T3-030412	51.011	023	-	Rel-4	Correction of pre-personalisation values	F	4.7.0	4.8.0

3GPP TSG-T3 #27
Saporro, Japan, 20 – 23 May 2003

T3-030398

CR-Form-v7

CHANGE REQUEST

⌘	51.011	CR	020	⌘	-	⌘	Current version:	4.7.0	⌘

*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⌘ [X] ME [X] Radio Access Network [ ] Core Network [ ]

Title:	⌘	CR 51.011 Rel-4: Correction of the MMS example
Source:	⌘	T3
Work item code:	⌘	TEI
Date:	⌘	23-05-2003
Category:	⌘	**F**
Release:	⌘	Rel-4

Use one 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 one 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:	⌘	Correction of the example of MMS coding in order to avoid misinterpretation.
Summary of change:	⌘	• Correction of the encoding of the MMS User Preference Profile Name in the coding example for MMS User Preferences. • Size correction of the of the MMS Relay/Server information in the Coding Example for MMS Issuer/User Connectivity Parameters.
Consequences if not approved:	⌘	The current example for the encoding of the MMS User Preference Profile Name Tag in the coding example for MMS User Preferences, stored on the (U)SIM is open to misinterpretation.

Clauses affected:	⌘	Annex K.1, K.2

		Y	N			
Other specs affected:	⌘	X		Other core specifications	⌘	TS 31.102
			X	Test specifications		
			X	O&M Specifications		

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 K (informative): Example of MMS coding

K.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

0x~~1C~~0E (Length = "~~28~~14")

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

(profile name = "Christmas Card"; 14 characters, ~~28~~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)

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

0xAB MMS Connectivity Parameters Tag

0x9F (Length = "159")

0x80 MMS Implementation Tag

0x01 (Length = "1")

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

0x81 MMS Relay/Server Tag

0x~~2E~~17 (Length = "~~46~~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; ~~46~~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)

…

3GPP TSG-T3 Meeting #27
Sapporo, Japan, 20-23 May 2003

Tdoc T3-030402⌘

CR-Form-v7

CHANGE REQUEST

⌘ **51.011** **CR** 022 ⌘**rev** **-** ⌘ Current version: **4.7.0** ⌘

*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⌘ [X] ME [X] Radio Access Network [ ] Core Network [ ]

Title:	⌘	Correction of inconsistencies within the document
Source:	⌘	T3
Work item code:	⌘	TEI
Date:	⌘	22/05/2003
Category:	⌘	**F**
Release:	⌘	Rel-4

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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:	⌘	Correction of inconsistencies within the specification
Summary of change:	⌘	Replace PIN with CHV1, ALWAYS with ALW Correct length of EFad Use defined variables for consistency Add EFcmi which was forgotten in the figure
Consequences if not approved:	⌘	Misleading inconsistencies within the specification leading to incorrect implementations.

Clauses affected:	⌘	10.3.18, 10.3.37; 10.3.42 to 10.3.46, 10.3.48, 10.3.49, 10.7

		Y	N			
Other specs affected:	⌘		X	Other core specifications	⌘	
			X	Test specifications		
			X	O&M Specifications		

Other comments:	⌘	

10.3.18 EF_{AD} (Administrative data)

This EF contains information concerning the mode of operation according to the type of SIM, such as normal (to be used by PLMN subscribers for GSM operations), type approval (to allow specific use of the ME during type approval procedures of e.g. the radio equipment), cell testing (to allow testing of a cell before commercial use of this cell), manufacturer specific (to allow the ME manufacturer to perform specific proprietary auto-test in its ME during e.g. maintenance phases).

It also provides an indication of whether some ME features should be activated during normal operation as well as information about the length of the MNC, which is part of the International Mobile Subscriber Identity (IMSI).

Identifier: '6FAD'	Structure: transparent	Mandatory
File size: 3+X bytes	Update activity: low	

Access Conditions:

READ	ALW
UPDATE	ADM
INVALIDATE	ADM
REHABILITATE	ADM

Bytes	Description	M/O	Length
1	MS operation mode	M	1 byte
2 to 3	Additional information	M	2 bytes
4	length of MNC in the IMSI	O	1 byte
5 to 43+X	RFU	O	(X-1) bytes

NOTE:
If X=0 no optional field is present;
If X=1 byte 4 is present but no RFU field is present;
When the RFU field is present (X ≥2) then byte 4 shall be present.

- MS operation mode

  Contents: mode of operation for the MS

  Coding:

  Initial value

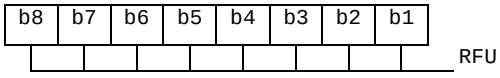
  - normal operation '00'
  - type approval operations '80'
  - normal operation + specific facilities '01'
  - type approval operations + specific facilities '81'
  - maintenance (off line) '02'
  - cell test operation '04'

- Additional information

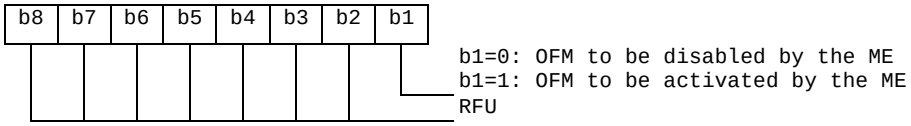
  Coding:

  - specific facilities (if b1=1 in byte 1);

  Byte 2 (first byte of additional information):



Byte 3:



The OFM bit is used to control the Ciphering Indicator as specified in TS 02.07 [3]

- ME manufacturer specific information (if b2=1 in byte 1).

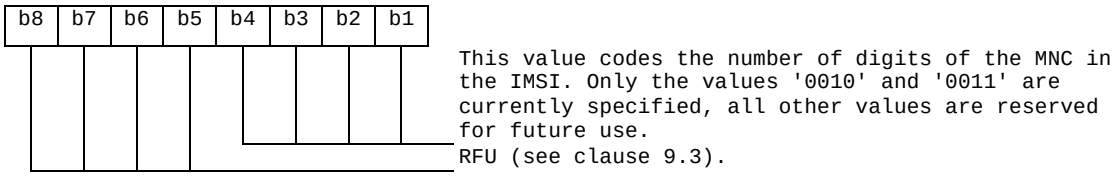
- Length of MNC in the IMSI :

Contents:

The length indicator refers to the number of digits, used for extracting the MNC from the IMSI

Coding:

Byte 4:



10.3.37 $EF_{HPLMNwAcT}$ (HPLMN Selector with Access Technology)

The HPLMN Selector with access technology data field shall contain the HPLMN code, or codes together with the respective access technology in priority order (see TS 23.122 [51]).

Identifier: '6F62'	Structure: transparent	Optional
File size: 5n (n ≥ 1) bytes	Update activity: low	

Access Conditions:

READ	CHV1
UPDATE	ADM
INVALIDATE	ADM
REHABILITATE	ADM

Bytes	Description	M/O	Length
1 to 3	1st PLMN (highest priority)	M	3 bytes
4 to 5	1st PLMN Access Technology Identifier	M	2 bytes
6 to 8	2nd PLMN	O	3 bytes
9 to 10	2nd PLMN Access Technology Identifier	O	2 bytes
:	:		
(5n-4) to (5n-2)	~~N~~n th PLMN (lowest priority)	O	3 bytes
(5n-1) to 5n	~~N~~n th PLMN Access Technology Identifier	O	2 bytes

- PLMN
  Contents:
  Mobile Country Code (MCC) followed by the Mobile Network Code (MNC).
  Coding:
  according to TS 24.008 [47].

- Access Technology

  Contents: The Access Technology of the HPLMN that the MS will assume when searching for the HPLMN, in priority order. The first Access Technology in the list has the highest priority.

  Coding: See $EF_{PLMNwAcT}$ for coding.

10.3.42 EF_{OPL} (Operator PLMN List)

This EF contains a prioritised list of Location Area Information (LAI) identities that are used to associate a specific operator name contained in EF_{PNN} with the LAI. The ME shall use this EF in association with the EF_{PNN} in place of any network name stored within the ME's internal list and any network name received when registered to the PLMN, as defined by 3G TS 24.008 [47].

If the EF_{PNN} is not present then this file shall not be present.

Identifier: '6FC6'	Structure: linear fixed	Optional
Record length: X bytes, X >= 8	Update activity: low	

Access Conditions:

READ	ALW~~AYS~~
UPDATE	ADM
DEACTIVATE	ADM
ACTIVATE	ADM

Bytes	Description	M/O	Length
1 to 7	Location Area Identity	M	7 bytes
8	PLMN Network Name Record Identifier	M	1 byte

- Location Area Identity

  Contents:

  Location Area Information, this comprises of the MCC, MNC and two LACs

  Coding:

  PLMN: according to TS 24.008 [47]

  A BCD value of 'D' in any of the MCC and/or MNC digits shall be used to indicate a "wild" value for that corresponding MCC/MNC digit

  LAC : according to 3G TS 24.008 [47]

  Two values for the LAC are stored in order to allow a range of LAC values to be specified for a given PLMN. A value of '0000' stored in bytes 4 to 5 and a value of 'FFFE' stored in bytes 6 to 7 shall be used to indicate the entire range of LACs for the given PLMN. In the case where only a single LAC value is to be specified then the value stored in bytes 4 to 5 shall be identical to the value stored in bytes 6 to 7 for the given PLMN. If a range of LAC values are to be specified, then the value stored in bytes 4 to 5 shall be the start of the LAC range and the value stored in bytes 6 to 7 shall be the end of the LAC range for the given PLMN.

- PLMN Network Name Record Identifier

  Contents:

  Identifier of operator name to be displayed

  Coding:

  A value of '00' indicates that the name is to be taken from other sources, see 3G TS 22.101 [53]

  A value in the range '01' to 'FE' indicates the record number in EF_{PNN} that shall be displayed as the registered PLMN name

NOTE: The intent of this file is to provide exceptions to the other sources of a network name. Care should be taken not to introduce too many PLMN entries. An excessive number of entries could result in a longer initialisation period.

10.3.43 EF_{MBDN} (Mailbox Dialling Numbers)

This EF contains dialling numbers to access mailboxes associated with Voicemail, Fax, Electronic Mail and other messages. It may also contain associated alpha-tags for each supported mailbox. Each dialling number shall be associated with a message waiting indication group type using EF_{MBI} (see 3G TS 23.038 [12] for message waiting indication group types).

This EF is mandatory if EF_{SST} indicates that the Mailbox Dialling Numbers service is available.

Identifier: '6FC7'	Structure: linear fixed	Optional
Record length: X+14 bytes	Update activity: low	

Access Conditions:

READ	CHV1~~PIN~~
UPDATE	CHV1~~PIN~~/ADM (fixed during administrative management)
DEACTIVATE	ADM
ACTIVATE	ADM

Bytes	Description	M/O	Length
1 to X	Alpha Identifier	O	X bytes
X+1	Length of BCD number/SSC contents	M	1 byte
X+2	TON and NPI	M	1 byte
X+3 to X+12	Dialling Number/SSC contents	M	10 bytes
X+13	Extended Capability Configuration Parameters	M	1 byte
X+14	Extension 6 Record Identifier	M	1 byte

For contents and coding of all data items see the respective data items of the EF_{ADN} (clause 10.5.1), with the exception that extension records are stored in the EF_{EXT6} and with the exception that Capability/Configuration parameters are stored in the EF_{ECCP}

NOTE: The value of X (the number of bytes in the alpha-identifier) may be different to the length denoted X in EF_{ADN}.

10.3.44 EF_{MBI} (Mailbox Identifier)

This EF contains information to associate mailbox dialling numbers in EF_{MBDN} with a message waiting indication group type and subscriber profile (as defined in 3G TS 23.097 [54]). A message waiting indication group type may either be Voicemail, Fax, Electronic Mail or Other (as defined in 3G TS 23.038 [12] for Data Coding Scheme).

This EF contains as many records as there are subscriber profiles (shall be record to subscriber profile). Each record contains references to mailbox dialling numbers in EF_{MBDN} (one reference for each message waiting indication group type).

This EF is mandatory if EF_{SST} indicates that the Mailbox Dialling Numbers service is available.

Identifier: '6FC9'	Structure: linear fixed	Optional
Record length: X bytes, X>=4	Update activity: low	

Access Conditions:

READ	CHV1~~PIN~~
UPDATE	CHV1~~PIN~~/ADM (fixed during administrative management)
DEACTIVATE	ADM
ACTIVATE	ADM

Bytes	Description	M/O	Length
1	Mailbox Dialling Number Identifier – Voicemail	M	1 byte
2	Mailbox Dialling Number Identifier – Fax	M	1 byte
3	Mailbox Dialling Number Identifier – Electronic Mail	M	1 byte
4	Mailbox Dialling Number Identifier – Other	M	1byte

- Mailbox Dialling Number Identifier (message waiting group type = Voicemail, Fax, Electronic Mail or Other).
  Contents:
  Identifies the mailbox dialling number to be associated with message waiting type.

  Coding:
  '00' – no mailbox dialling number associated with message waiting indication group type
  'xx' – record number in EF_{MBDN} associated with message waiting indication group type

10.3.45 EF_{MWIS} (Message Waiting Indication Status)

This EF contains the status of indicators that define whether or not a Voicemail, Fax, Electronic Mail or Other message is waiting (as defined in 3G TS 23.038 [12] for message waiting indication group types). The ME uses the status after re-activation to determine whether or not to display the respective message-waiting indication on its display.

This EF contains as many records as there are subscriber profiles (shall be record to subscriber profile) as defined in 3G TS 23.097 [54] for MSP.

Identifier: '6FCA'	Structure: Linear fixed	Optional
Record length: X bytes, X >= 5	Update activity: high	

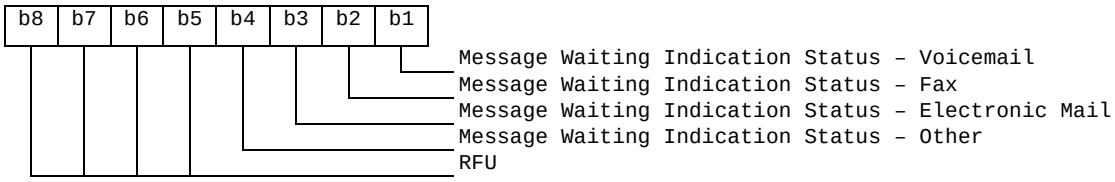
Access Conditions:

READ	CHV1~~PIN~~
UPDATE	CHV1~~PIN~~
DEACTIVATE	ADM
ACTIVATE	ADM

Bytes	Description	M/O	Length
1	Message Waiting Indicator Status	M	1 byte
2	Number of Voicemail Messages Waiting	M	1 byte
3	Number of Fax Messages Waiting	M	1 byte
4	Number of Electronic Mail Messages Waiting	M	1 byte
5	Number of Other Messages Waiting	M	1 byte

Message Waiting Indication Status
Contents:
Indicates the status of the message-waiting indication.

Coding:
The indicator status for each indicator type is 1 bit long and set as follows:
bit = 1: Set Indication Active
bit = 0: Set Indication Inactive



Number of Voicemail Messages Waiting

Contents:

Contains the number of voicemail messages waiting (see 3G TS 23.040 [13]).

Coding:

Binary.

Number of Fax Messages Waiting

Contents:

Contains the number of fax messages waiting (see 3G TS 23.040 [13]).

Coding:

Binary.

Number of Electronic Mail Messages Waiting

Contents:

Contains the number of electronic mail messages waiting (see 3G TS 23.040 [13])

Coding:

Binary.

Number of Other Messages Waiting

Contents:

Contains the number of other messages waiting (see 3G TS 23.040 [13]).

Coding:

Binary.

10.3.46 EF_{CFIS} (Call Forwarding Indication Status)

This EF contains the status of indicators that are used to record whether call forward is active. The ME uses the status after re-activation to determine whether or not to display the respective Call Forwarding indicator on its display.

This EF contains as many records as there are subscriber profiles (shall be record to subscriber profile) as defined in 3G TS 23.097 [54] for MSP.

Identifier: '6FCB'	Structure: Linear Fixed	Optional
Record length: 16 bytes	Update activity: low	

Access Conditions:

READ	CHV1~~PIN~~
UPDATE	CHV1~~PIN~~
DEACTIVATE	ADM
ACTIVATE	ADM

Bytes	Description	M/O	Length
1	MSP number	M	1 byte
2	CFU indicator status	M	1 byte
3	Length of BCD number	M	1 byte
4	TON and NPI	M	1 byte
5 to 14	Dialling Number	M	10 bytes
15	Extended Capability Configuration Parameters	M	1 byte
16	Extension 7 Record Identifier	M	1 byte

NOTE: For contents and coding of data items not detailed below, see the respective data items of EF_{ADN} (subclause 10.5.1), with the exception that Capability/Configuration parameters are stored in the EF_{ECCP} and Extension 7 Record Identifier is used.

MSP number:

Contents:

The MSP number contains the Profile Identity of the subscriber profile. The Profile Identity shall be between 1and 4 as defined in 3G TS 23.097 [54] for MSP.

Coding:

Binary.

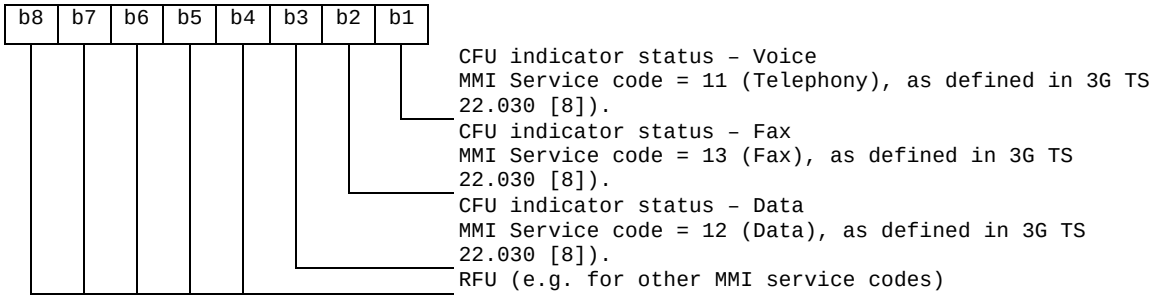
CFU indicator status:

Contents:

Indicates the status of the call forward unconditional indicator. Service code = 21 (CFU) or 002 (for CFU part of all CF), as defined in 3G TS 22.030 [8]

Coding:

The indicator status for each indicator type is 1 bit long and is set as follows:
bit = 1: Set indication active
bit = 0: Set indication inactive



10.3.48 EF_{EXT6} (Extension6)

This EF contains extension data of an MBDN (see MBDN in 10.3.43).

Identifier: '6FC8'	Structure: linear fixed	Optional
Record length: 13 bytes	Update activity: low	

Access Conditions:

READ	CHV1~~PIN~~
UPDATE	CHV1~~PIN~~/ADM (fixed during administrative management)
DEACTIVATE	ADM
ACTIVATE	ADM

Bytes	Description	M/O	Length
1	Record type	M	1 byte
2 to 12	Extension data	M	11 bytes
13	Identifier	M	1 byte

For contents and coding, see clause 10.5.10 (EF_{EXT1}).

10.3.49 EF_{EXT7} (Extension7)

This EF contains extension data of a CFIS (Call Forwarding Indication Status - see 10.3.46).

Identifier: '6FCC'	Structure: linear fixed	Optional
Record length: 13 bytes	Update activity: low	

Access Conditions:

READ	CHV1~~PIN~~
UPDATE	CHV1~~PIN~~
DEACTIVATE	ADM
ACTIVATE	ADM

Bytes	Description	M/O	Length
1	Record type	M	1 byte
2 to 12	Extension data	M	11 bytes
13	Identifier	M	1 byte

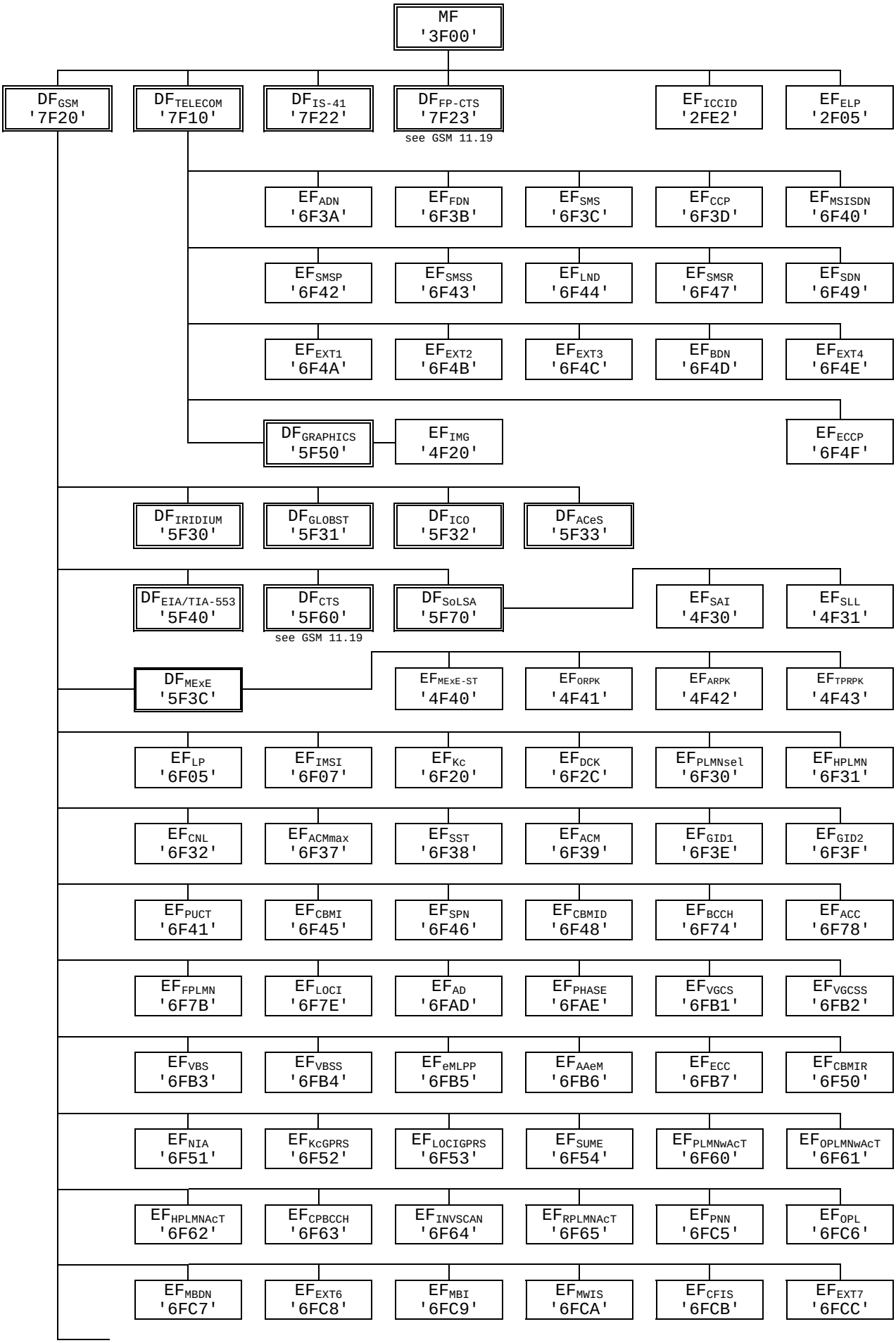
For contents and coding see clause 10.5.10 (EF_{EXT1}).

10.7 Files of GSM

This clause contains a figure depicting the file structure of the SIM. DF_{GSM} shall be selected using the identifier '7F20'. If selection by this means fails, then DCS 1800 MEs shall, and optionally GSM MEs may then select DF_{GSM} with '7F21'.

NOTE 1: The selection of the GSM application using the identifier '7F21', if selection by means of the identifier '7F20' fails, is to ensure backwards compatibility with those Phase 1 SIMs which only support the DCS 1800 application using the Phase 1 directory $DF_{DCS1800}$ coded '7F21'.

NOTE 2: To ensure backwards compatibility with those Phase 1 DCS 1800 MEs which have no means to select DF_{GSM} two options have been specified. These options are given in GSM 09.91 [17].


MF '3F00'
DF GSM '7F20'
DF TELECOM '7F10'
DF IS-41 '7F22'
DF FP-CTS '7F23'
see GSM 11.19
EF ICCID '2FE2'
EF ELP '2F05'
EF ADN '6F3A'
EF FDN '6F3B'
EF SMS '6F3C'
EF CCP '6F3D'
EF MSISDN '6F40'
EF SMSP '6F42'
EF SMSS '6F43'
EF LND '6F44'
EF SMSR '6F47'
EF SDN '6F49'
EF EXT1 '6F4A'
EF EXT2 '6F4B'
EF EXT3 '6F4C'
EF BDN '6F4D'
EF EXT4 '6F4E'
DF GRAPHICS '5F50'
EF IMG '4F20'
EF ECCP '6F4F'
DF IRIDIUM '5F30'
DF GLOBST '5F31'
DF ICO '5F32'
DF ACeS '5F33'
DF EIA/TIA-553 '5F40'
DF CTS '5F60'
see GSM 11.19
DF SoLSA '5F70'
EF SAI '4F30'
EF SLL '4F31'
DF MExE '5F3C'
EF MExE-ST '4F40'
EF ORPK '4F41'
EF ARPK '4F42'
EF TPRPK '4F43'
EF LP '6F05'
EF IMSI '6F07'
EF Kc '6F20'
EF DCK '6F2C'
EF PLMNsel '6F30'
EF HPLMN '6F31'
EF CNL '6F32'
EF ACMmax '6F37'
EF SST '6F38'
EF ACM '6F39'
EF GID1 '6F3E'
EF GID2 '6F3F'
EF PUCT '6F41'
EF CBMI '6F45'
EF SPN '6F46'
EF CBMID '6F48'
EF BCCH '6F74'
EF ACC '6F78'
EF FPLMN '6F7B'
EF LOCI '6F7E'
EF AD '6FAD'
EF PHASE '6FAE'
EF VGCS '6FB1'
EF VGCSS '6FB2'
EF VBS '6FB3'
EF VBSS '6FB4'
EF eMLPP '6FB5'
EF AAeM '6FB6'
EF ECC '6FB7'
EF CBMIR '6F50'
EF NIA '6F51'
EF KcGPRS '6F52'
EF LOCIGPRS '6F53'
EF SUME '6F54'
EF PLMNwAcT '6F60'
EF OPLMNwAcT '6F61'
EF HPLMNAcT '6F62'
EF CPBCCH '6F63'
EF INVSCAN '6F64'
EF RPLMNAcT '6F65'
EF PNN '6FC5'
EF OPL '6FC6'
EF MBDN '6FC7'
EF EXT6 '6FC8'
EF MBI '6FC9'
EF MWIS '6FCA'
EF CFIS '6FCB'
EF EXT7 '6FCC'

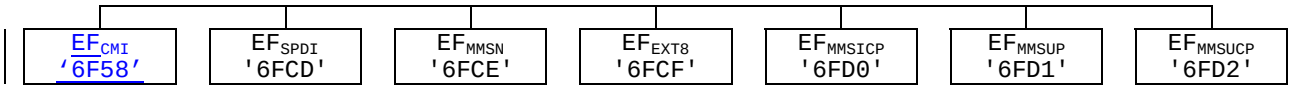


Figure 8: File identifiers and directory structures of GSM

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Tdoc ⌘T3-030412
Superseeds T3-030174

CR-Form-v7

CHANGE REQUEST

⌘ **51.011** **CR** 023 ⌘ **rev** **-** ⌘ Current version: **4.7.0** ⌘

*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⌘ [X] ME [ ] Radio Access Network [ ] Core Network [ ]

Title:	⌘	Correction of pre-personalisation values
Source:	⌘	TSG T3
Work item code:	⌘	TEI
Date:	⌘	21/05/2003
Category:	⌘	**F**
Release:	⌘	Rel-4

Use one 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 one 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:	⌘	Correction of Pre-personalisation data for the Extension records to align with TS 31.102.
Summary of change:	⌘	Inconsistency with TS 31.102, which causes confusion when defining the pre-personnalisation values of the files for an UICC containing a USIM and a SIM with shared files.
Consequences if not approved:	⌘	Inconsistencies within the specifications, leading to confusion and misinterpretation.

Clauses affected:	⌘	Annex D

		Y	N			
Other specs affected:	⌘	X		Other core specifications	⌘	TS 31.102
			X	Test specifications		
			X	O&M Specifications		

Other comments:	⌘	

Annex D (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
'2FE2'	ICC identification	operator dependant (see 10.1.1)
'2F05'	Extended Language preference	'FF…FF'
'6F05'	Language preference	'FF'
'6F07'	IMSI	operator dependant (see 10.3.2)
'6F20'	Ciphering key Kc	'FF...FF07'
'6F30'	PLMN selector	'FF...FF'
'6F31'	HPLMN search period	'FF'
'6F37'	ACM maximum value	'000000' (see note 1)
'6F38'	SIM service table	operator dependant (see 10.3.7)
'6F39'	Accumulated call meter	'000000'
'6F3E'	Group identifier level 1	operator dependant
'6F3F'	Group identifier level 2	operator dependant
'6F41'	PUCT	'FFFFFF0000'
'6F45'	CBMI	'FF...FF'
'6F46'	Service provider name	'FF...FF'
'6F48'	CBMID	'FF...FF'
'6F49'	Service Dialling Numbers	'FF...FF'
'6F74'	BCCH information	'FF...FF'
'6F78'	Access control class	operator dependant (see 10.3.15)
'6F7B'	Forbidden PLMNs	'FF...FF'
'6F7E	Location information	'FFFFFFFF xxxxxx 0000 FF 01' (see note 2)
'6FAD'	Administrative data	operator dependant (see 10.3.18)
'6FAE'	Phase identification	see 10.3.16
'6F3A'	Abbreviated dialling numbers	'FF...FF'
'6F3B'	Fixed dialling numbers	'FF...FF'
'6F3C'	Short messages	'00FF...FF'
'6F3D'	Capability configuration parameters	'FF...FF'
'6F40'	MSISDN storage	'FF...FF'
'6F42'	SMS parameters	'FF...FF'
'6F43'	SMS status	'FF...FF'
'6F44'	Last number dialled	'FF...FF'
'6F47'	Short message status reports	'00FF…FF'
'6F4A'	Extension 1	'00 FF...FF'
'6F4B'	Extension 2	'00 FF...FF'
'6F4C'	Extension 3	'00 FF...FF'
'6F4D'	Barred dialling numbers	'FF...FF'
'6F4E'	Extension 4	'00 FF...FF'
'6F4F'	Extended capability configuration parameters	'FF...FF'
'6F51'	Network's indication of alerting	'FF...FF'
'6F52'	GPRS Ciphering key KcGPRS	'FF...FF07'
'6F53'	GPRS Location Information	'FFFFFFFF FFFFFF xxxxxx 0000 FF 01' (see note 2)
'6F54'	SetUpMenu Elements	operator dependant (see 10.3.34)
'6F58'	Comparison method information	'FF…FF'
'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'
'6F63'	CPBCCH information	'FF..FF'
'6F64'	Investigation Scan	'00'
'6F65'	RPLMN last used Access Technology	'0000'

Continued

File Identification	Description	Value
'4F20'	Image data	'00FF...FF'
'4F30'	SoLSA Access Indicator)	'00FF...FF'
'4F31'	SoLSA LSA List	'FF...FF'
'6FC5'	PLMN Network Name	Operator dependant
'6FC6'	Operator PLMN 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	'FF...FF'
‘6FCE’	MMS Notification	’00 00 00 FF…FF’
‘6FCF’	Extension 8	'00 FF...FF'
‘6FD0’	MMS Issuer Connectivity Parameters	‘FF…FF’
‘6FD1’	MMS User Preferences	‘FF…FF’
‘6FD2’	MMS User Connectivity Parameters	‘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 04.08 [15].

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CHANGE REQUEST

⌘ **51.011** **CR** 021 ⌘**rev** **-** ⌘ Current version: **4.7.0** ⌘

*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⌘ [X] ME [X] Radio Access Network [ ] Core Network [ ]

Title:	⌘	Essential correction on SIM/UICC interface compatibility
Source:	⌘	TSG T3
Work item code:	⌘	TEI
Date:	⌘	22/05/2003
Category:	⌘	**F**
Release:	⌘	Rel-4

Use one 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 one 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:	⌘	TS 51.011 refers to the interface requirements defined in SCP 102 221. However there is an essential difference in the ISO/IEC 7816 protocol as defined in GSM 11.11 and in SCP 102 221: Indeed SCP 102 221 specifies that a guardtime of 6 ETUs must be respected between characters sent in opposite directions, while GSM 11.11 allows the minimum ISO/IEC guardtime of 2 ETUs to apply during reversals.
Summary of change:	⌘	Specifies that in addition of the requirements stated in SCP 102 221, the card and terminals compliant with this specification must be ready to receive characters only 12 ETUs after the leading edge of the start bit of the last character of any transmission that it originates.
Consequences if not approved:	⌘	Cards compliant with 51.011 might not work in legacy GSM terminals, and 51.011 compliant terminals might not accept 11.11 compliant SIM cards.

Clauses affected:	⌘	5.3

Other specs affected:	⌘	Y	N		⌘
			X	Other core specifications	
			X	Test specifications	
			X	O&M Specifications	

Other comments:	⌘	

5.3 Transmission protocols

Physical and Data link layer of the Transmission Protocols shall be in accordance with TS 31.101 [55] with the following limitations.

The support of the Transmission Protocol T=0 is mandatory for ME and the SIM. All other protocols are optional. Use of other protocols than T=0 is not defined in the present document.

In addition to the requirements specified in TS 31.101 [55], SIM cards and terminals compliant with the present document shall be ready to receive data no more than 12 etus after the leading edge of the start bit of the last outgoing character of any transmission that it originates. For the purpose of the present document, SIM cards and terminals only need to wait for 12 etus after the leading edge of the start bit of the last character received before transmitting data.

Procedure bytes '61' and '6C' shall not be used with GSM commands. Status byte '9F' is returned instead by the SIM to control exchanges between the Transport Layer of the terminal and the SIM.