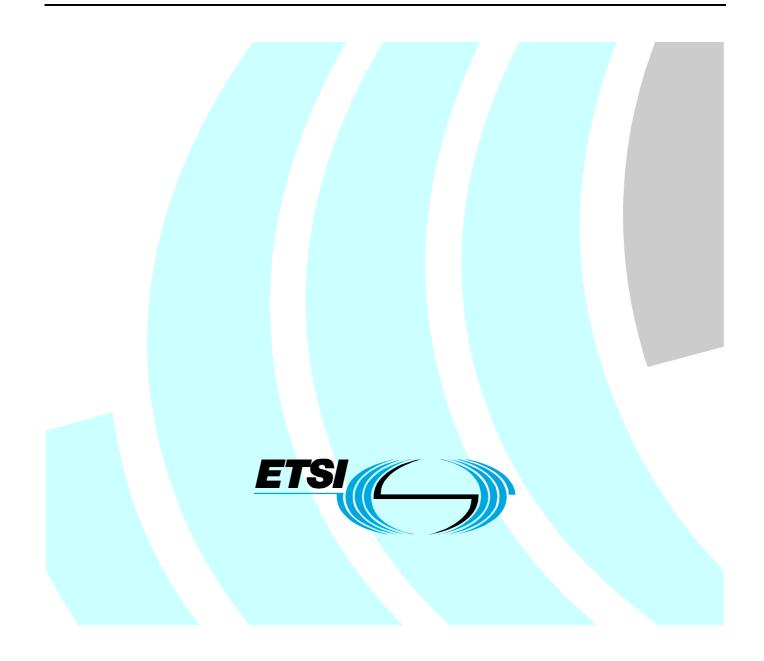
ETSI TS 101 220 V7.12.0 (2008-02)

Technical Specification

Smart Cards; ETSI numbering system for telecommunication application providers (Release 7)



Reference RTS/SCP-T070653r2

Keywords

GSM, ID, smart card, UMTS

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Foreword

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1 Scope

The present document provides for the administration of shared name spaces in use by applications on the UICC including the managed allocation of identifiers from these name spaces.

2 References

References are either specific (identified by date of publication and/or edition number or version number) or non-specific.

- For a specific reference, subsequent revisions do not apply.
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2.1 Normative references

The following referenced documents are indispensable for the application of the present document. For dated references, only the edition cited applies. For non-specific references, the latest edition of the referenced document (including any amendments) applies.

- Void. [1] [2] ITU-T Recommendation E.164: "The international public telecommunication numbering plan". ISO/IEC 7816-4: "Identification cards - Integrated circuit cards - Part 4: Organization, security and [3] commands for interchange". [4] ITU-T Recommendation E.118: "The international telecommunication charge card". Void. [5] [6] ETSI TS 151 011: "Digital cellular telecommunications system (Phase 2+); Specification of the Subscriber Identity Module - Mobile Equipment (SIM-ME) interface (3GPP TS 51.011)". ETSI TS 101 267: "Digital cellular telecommunications system (Phase 2+); Specification of the [7]
- [7] ETSI TS 101 267: "Digital cellular telecommunications system (Phase 2+); Specification of the SIM Application Toolkit (SAT) for the Subscriber Identity Module Mobile Equipment (SIM-ME) interface (3GPP TS 11.14)".

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[8]	ETSI TS 143 019: "Digital cellular telecommunication Module Application Programming Interface (SIM API	
[9]	ETSI EN 300 812-3: "Terrestrial Trunked Radio (TET Equipment (SIM-ME) interface; Part 3: Integrated Circ application characteristics".	
[10]	ETSI TS 131 101: "Universal Mobile Telecommunicat interface; Physical and logical characteristics (3GPP T	
[11]	ETSI TS 131 102: "Universal Mobile Telecommunicat Universal Subscriber Identity Module (USIM) applicat	
[12]	ETSI TS 131 111: "Digital cellular telecommunication Telecommunications System (UMTS); Universal Subs Toolkit (USAT) (3GPP TS 31.111)".	
[13]	ETSI TS 131 114: "Universal Mobile Telecommunicat Identity Module Application Toolkit (USAT) interpret (3GPP TS 31.114)".	
[14]	ETSI TS 131 103: "Digital cellular telecommunication Telecommunications System (UMTS); Characteristics Module (ISIM) application (3GPP TS 31.103)".	
[15]	ISO/IEC 8825-1: "Information technology - ASN.1 en Encoding Rules (BER), Canonical Encoding Rules (Cl (DER)".	
[16]	ISO/IEC 7816-6: "Identification cards - Integrated circ elements for interchange".	uit cards - Part 6: Interindustry data
[17]	ETSI TS 102 241: "Smart cards; UICC Application Pr Card I (Release 7)".	ogramming Interface (UICC API) for Java
[18]	ETSI TS 131 130: "Digital cellular telecommunication Telecommunications System (UMTS); (U)SIM Applic (U)SIM API for Java Card (3GPP TS 31.130)".	
[19]	ETSI TS 102 226: "Smart cards; Remote APDU struct (Release 6)".	ure for UICC based applications
[20]	ETSI TS 131 116: "Digital cellular telecommunication Telecommunications System (UMTS); Remote APDU Identity Module (U)SIM Toolkit applications (3GPP T	Structure for (Universal) Subscriber
[21]	Void.	
[22]	ETSI TS 102 474: "Digital Video Broadcasting (DVB) Purchase and Protection".); IP Datacast over DVB-H: Service
NOTE:	This reference is not yet publicly available.	
[23]	ETSI TS 102 223: "Smart Cards; Card Application To	olkit (CAT)".
[24]	ETSI TS 131 133: "Digital cellular telecommunication Telecommunications System (UMTS); IP Multimedia Application Programming Interface (API); ISIM API f	Services Identity Module (ISIM)
[25]	OMA-TS-Smartcard-Web-Server-V1-0 Available from	n <u>http://www.openmobilealliance.org</u> .

2.2 Informative references

[26] ETSI TR 121 905: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); Vocabulary for 3GPP Specifications (3GPP TR 21.905)".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the following terms and definitions apply:

Application Identifier (AID): data element, which identifies an application in a card

NOTE: An AID may contain a Registered application provider Identifier (RID). If it contains either a RID or an issuer identification number, then this identification is unambiguous (see ISO/IEC 7816-4 [3]).

Application Provider (AP): entity, which provides those components of an application on a card, required to perform the respective application

NOTE: See ISO/IEC 7816-4 [3].

Data object: structured data seen on an interface consisting of the concatenation of a mandatory tag field, a mandatory length field and an optional value field

tag: nominal datum that encodes the name of a data object

telecommunication IC card application: application described by an ETSI document

template: definition of a set of TLV data objects forming the value field of a constructed BER-TLV data object and a data object that realizes this definition

Toolkit Application Reference (TAR): data element, which identifies an application in the toolkit mechanisms (e.g. SMS Data Download)

3.2 Abbreviations

For the purposes of the present document, the following abbreviations apply:

AID	Application Identifier
AP	Application Provider
API	Application Program Interface
BCD	Binary Coded Decimal
BER	Basic Encoding Rules
CR	Comprehension Required
DECT	Digital Enhanced Cordless Telecommunications
GSM	Global System for Mobile communication
IC	Integrated Circuit(s)
ICC	Integrated Circuit Card
ID	IDentifier
ISIM	IP Multimedia Services Identity Module
PIX	Proprietary application Identifier eXtension
RFU	Reserved for Future Use
RID	Registered application provider IDentifier
SIM	Subscriber Identity Module
TAR	Toolkit Application Reference
TETRA	TErrestrial Trunked RAdio
TLV	Tag-Length-Value
UPT	Universal Personal Telecommunications
URL	Uniform Resource Locator
USAT	USIM Application Toolkit
USIM	Universal Subscriber Identity Module
USSD	Unstructured Supplementary Services Data

4 Structure of the Application Identifier (AID)

In accordance with ISO/IEC 7816-4 [3], the AID has the following structure:

\leftarrow						
Registered application provider Identifier	Proprietary application Identifier eXtension					
(RID)	(PIX)					
<i>←</i> 5 bytes	<i>←</i> ≤ 11 bytes					

Figure 4.1: AID structure

The AID consists of a Registered application provider Identifier (RID) of 5 bytes and a Proprietary application Identifier eXtension (PIX) of up to 11 bytes.

4.1 Registered application provider Identifier (RID)

The RIDs dealt with in the present document, as registered by ISO/IEC according to ISO/IEC 7816-4 [3], are:

- 'A00000009' for ETSI;
- 'A00000087' for the 3GPP.

4.2 Proprietary application Identifier eXtension (PIX)

The PIX is used at the discretion of ETSI and can contain between 7 bytes and 11 bytes of information. The PIX is coded in hexadecimal. Hexadecimal digit 1 is the most significant digit.

Digits 1 to 4	Application cod	le
	Purpose:	To be used for identification of the standardized ETSI or 3G card application (e.g. GSM, DECT, UPT, pre-paid application). Different versions of an application may have individual codings.
	Management:	Assigned by ETSI on request from the ETSI or 3G technical body responsible for the document in question.
	Coding:	Hexadecimal. The coding indicates the ETSI or 3G document that specifies the standardized ETSI or 3G card application and the PIX number. The correspondence between digits 1 to 4 and the ETSI or 3G document in question can be seen in a list maintained by the ETSI Secretariat (see annex A). Escape value '0000' is reserved for use by the ETSI Secretariat for proprietary ETSI or 3G applications.
Digits 5 to 8	Country code	
	Purpose:	To indicate the country of the application provider of the ETSI or 3G standardized application.
	Coding:	According to ITU-T Recommendation E.164 [2]. The coding is right justified and padded with 'F' on the left.

NOTE 1: List of actual country codes is published by ITU.

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Digits 9 to 14	Application pr	ovider code
	Purpose:	Individual code for the application provider of the ETSI or 3G standardized application.
	Coding:	According to ITU-T Recommendation E.118 [4]. Hexadecimal. The coding is right justified and padded with 'F' on the left.
Digits 15 up to 22	Application pr	ovider field Optional. Up to 8 digits
	Purpose:	The use of this field is entirely up to the application provider. It may, for instance, be used to indicate "local" versions, revisions, etc. of the ETSI or 3G standardized application. According to ISO/IEC 7816-4 [3], if the AID is 16 bytes long, then the value 'FF' for the least significant byte (digits 21 and 22) is reserved for future use.
	Management:	Application provider.
	Coding:	Hexadecimal.

NOTE 2: Digits 1 to 14 are assigned and registered by the ETSI Secretariat upon request by the responsible ETSI technical body.

5 Use of the Application Identifier (AID)

The use of the AID is specified in ISO/IEC 7816-4 [3].

6 Toolkit Application Reference (TAR)

The Toolkit Application Reference (TAR) is used to uniquely identify a second level application (e.g. Toolkit Application).

To be addressed, the Toolkit Application needs a first level application (e.g. GSM, USIM application) running.

A second level application may have several TAR values assigned.

The TAR values in the range '00 00 01' to 'AF FF FF' and 'C0 00 00' to 'FF FF FF' are under the responsibility of the first level application issuer.

The TAR values '00 00 00' and in the range 'B0 00 00' to 'BF FF FF' are reserved for allocation (by the ETSI Technical Body responsible for the present document) to generic second level application independent of the first level application issuer.

It is not mandatory for a second level application to have a TAR value assigned. If a TAR value is assigned to a second level application it is not mandatory for this value to be included in the AID. As a consequence, the AID coding of the second level application might not always comply with the present document (see annex B).

Table 6.1 lists the TAR values or range and their associated application categories.

Toolkit application reference	Application category
'00 00 00' and 'B2 01 00'	Issuer security domain
'00 00 01' to 'AF FF FF'	Allocated by the 1 st level application issuer
'B0 00 00' to 'B0 FF FF'	Remote File Management (see annex D)
'B1 00 00' to 'B1 FF FF'	Payment application (see annex D)
'B2 00 00' to 'B2 00 FF'	USAT Interpreter Application (see annex D)
'B2 01 01' and 'B2 01 02'	Smart Card Web Server (see annex D)
'BF FF 00' to 'BF FF FF'	Proprietary Toolkit Application
'C0 00 00' to 'FF FF FF'	Allocated by the 1 st level application issuer

Table 6.1: TAR and application categories

7 Tag-Length-Value (TLV) data objects

7.1 TLV data object forms

The encoding of data objects shall consist of three components that appear in the following order:

- 1. Tag (T).
- 2. Length (L).
- 3. Value (V).

The encoding of these components for each of the recognized forms of TLV is given in the following table.

Name of TLV	Encoding of tag field	Encoding of length field	Encoding of value field
BER-TLV	See ISO/IEC 8825-1 [15]	See clause 7.1.2	See ISO/IEC 8825-1 [15]
COMPACT-TLV	See ISO/IEC 7816-4 [3]	See ISO/IEC 7816-4 [3]	See ISO/IEC 7816-4 [3]
COMPREHENSION-TLV	See clause 7.1.1	See clause 7.1.2	See ISO/IEC 7816-4 [3]

7.1.1 COMPREHENSION-TLV tag coding

COMPREHENSION-TLV tags can be in one of two formats: single byte and three-byte format.

The value of the first byte identifies the format used.

First byte value	Format
'00'	Not used
'01' to '7E'	Single byte
'7F'	Three-byte
'80'	Reserved for future use
'81' to 'FE'	Single byte
'FF'	Not used

The same value in the different formats represents the same data object.

Unless otherwise stated, for COMPREHENSION-TLV it is the responsibility of the UICC application and the terminal to decide the value of the Comprehension Required (CR) flag for each data object in a given command.

Handling of the CR flag is the responsibility of the receiving entity.

CR	Value
Comprehension required	1
Comprehension not required	0

7.1.1.1 Single byte format

The tag is coded over one byte.

8	7	6	5	4	3	2	1
CR	Tag v	alue					

CR: Comprehension required for this object.

7.1.1.2 Three-byte format

The tag is coded over three bytes.

Byte 1		Byte 2							Byte 3
	8	7	6	5	4	3	2	1	
Tag value format = '7F'	CR	Tag va	alue						

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Tag value format: Byte 1 equal to '7F' indicates that the tag is in the three-byte format.

- CR: Comprehension required for this object. Use and coding is the same as in single byte format.
- Tag value: Coded over 15 bits, with bit 7 of byte 2 as the most significant bit. Range is from '00 01' to '7F FF'.

7.1.1.3 Length encoding

The length is coded onto 1, 2, 3 or 4 bytes according to the following table:

Length	Byte 1	Byte 2	Byte 3	Byte 4
0 to 127	Length ('00' to '7F')	Not present	Not present	Not present
128 to 255	'81'	Length ('80' to 'FF')	Not present	Not present
256 to 65 535	'82'	Length ('01 00' to 'FF FF	=')	Not present
65 536 to 16 777 215	'83'	Length ('01 00 00' to 'FF	FFFF)	

7.2 Assigned TLV tag values

The assigned tag values given in the following tables are the tag values used by specifications referencing the present document. All unassigned tag values are reserved for future use.

COMPACT-TLV tag	ATR data objects
'31'	Card Service Data
'73'	Card Capabilities

BER-TLV tag	Templates
'61'	Application Template
'62'	FCP Template
'7B'	Security Environment Template

BER-TLV tag	FCP template ('62')	
'80'	File Size – Data	
'81'	File Size – Total	
'82'	File Descriptor	
'83'	File Identifier	
'84'	DF Name (AID)	
'85'	Proprietary – Primitive	
'88'	SFI Support	
'8A'	Life Cycle Status	
Security attribute	data object	
'8B'	Security Attribute – Reference Format	
'8C'	Security Attribute – Compact Format	
'AB'	Security Attribute Template – Expanded Format	
Proprietary template		
'A5'	Proprietary Template	
PIN Status data objects		
'C6'	PIN Status data objects	

BER-TLV tag	Security attribute template ('AB')
Access Mode data objects	
'80'	Access Mode – Generic Command
'81' – '8F'	Access Mode – Command Description
'9C'	Proprietary State Machine
Security Condition	
'90'	Security Condition – ALWAYS
'97'	Security Condition – NEVER
'9E'	Security Condition – Security Condition Byte
'A4'	Control reference Template
'A0'	Security Condition – OR Template
'AF'	Security Condition – AND Template

BER-TLV tag	Control reference template ('A4')
'83'	Key Reference
'95'	Usage Qualifier

BER-TLV tag	PIN Status data objects ('C6')
'83'	Key Reference
'90'	PIN Enabled/Disabled status byte(s)
'95'	Usage Qualifier

BER-TLV Tag	Proprietary template ('A5')
'80'	UICC Characteristics
'81'	Application Power Consumption
'82'	Minimum Application Clock Freq.
'83'	Amount of Available Memory
'84'	File details
'85'	Reserved file size
'86'	Maximum file size
'87'	Supported system commands
'88'	Specific UICC environmental conditions
'C0'	Special File Information
'C1'	Filling Pattern
'C2'	Repeat Pattern

BER-TLV tag	Application template ('61')
'4F'	Application Identifier (AID)
'50'	Application Label
'51'	Path
'52'	Command to Perform
'53'	Discretionary Data
'73'	Discretionary Template
'5F50'	Uniform Resource Locator (URL)

BER-TLV tag	Discretionary template ('73') in EF DIR
'A0'	EAP Application service specific data content tag

BER-TLV Tag	Terminal capabilities template ('A9')
'80'	Terminal power supply
'81'	Extended logical channels terminal support
'82'	Additional interfaces support

BER-TLV tag	Card application toolkit templates
'D0'	Proactive Command
'D1'	GSM/3G/3GPP2 – SMS-PP Download
'D2'	GSM/3G/3GPP2 – Cell Broadcast Download
'D3'	Menu Selection
'D4'	Call Control
'D5'	GSM/3G – MO Short Message control
'D6'	Event Download
'D7'	Timer Expiration
'D8'	Reserved for intra-UICC communication and not visible on the card interface
'D9'	3G – USSD Download
'DA'	MMS Transfer status
'DB'	MMS notification download
'DC'	Terminal application tag

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BER-TLV tag	Remote Management Application Data templates
'AA'	Command Scripting Template
'AB'	Response Scripting Template

BER-TLV tag	Command Scripting template ('AA')
'81'	Immediate Action tag
'82'	Error Action tag
'83'	Script Chaining tag

BER-TLV tag	Response Scripting template ('AB')
'80'	Number of executed C-APDUs tag (for Release 6)
'80'	Number of executed command TLV objects tag (for Release 7 onwards)
'81'	Immediate Action Response tag
'83'	Script Chaining Response tag
'90'	Bad format tag

COMPREHENSION-TLV tag (CR and Tag value)	Card application toolkit data objects	Length of tag	Tag value, bits 1-7 (Range: '01' – '7E')	
'01' or '81'	Command details tag	1	'01'	
'02' or '82'	Device identity tag	1	'02'	
'03' or '83'	Result tag	1	'03'	
'04' or '84'	Duration tag	1	'04'	
'05' or '85'	Alpha identifier tag	1	'05'	
'06' or '86'	Address tag	1	'06'	
'07' or '87'	Capability configuration parameters tag	1	'07'	
'08' or '88'	Subaddress tag	1	'08'	
'09' or '89'	Reserved for GSM/3G (SS string tag)	1	'09'	
'0A' or '8A'	Reserved for GSM/3G (USSD string tag)	1	'0A'	
'0B' or '8B'	Reserved for GSM/3G (SMS TPDU tag)	1	'0B'	
'0C' or '8C'	Reserved for GSM/3G (Cell Broadcast page tag)	1	'0C'	
'0D' or '8D'	Text string tag	1	'0D'	
'0E' or '8E'	Tone tag	1	'0E'	
'0F' or '8F'	Item tag	1	'0F'	
'10' or '90'	Item identifier tag	1	'10'	
'11' or '91'	Response length tag	1	'11'	
'12' or '92'	File List tag	1	'12'	
'13' or '93'	Location Information tag	1	'13'	
'14' or '94'	IMEI tag	1	'14'	
'15' or '95'	Help request tag	1	'15'	
'16' or '96'	Network Measurement Results tag	1	'16'	
'17' or '97'	Default Text tag	1	'17'	
'18' only	Items Next Action Indicator tag	1	'18'	
'19' or '99'	Event list tag	1	'19'	
'1A' or '9A'	Reserved for GSM/3G (Cause tag)	1	'1A'	
'1B' or '9B'	Location status tag	1	'1B'	
'1C' or '9C'	Transaction identifier tag	1	'1C'	
'1D' or '9D'	Reserved for GSM/3G (BCCH channel list tag)	1	'1D'	
'1E' or '9E'	Icon identifier tag	1	'1E'	
'1F' or '9F'	Item Icon identifier list tag	1	'1F'	
'20' or 'A0'	Card reader status tag	1	'20'	
'21' or 'A1'	Card ATR tag	1	'21'	
'22' or 'A2'	C-APDU tag	1	'22'	
'23' or 'A3'	R-APDU tag	1	'23'	
'24' or 'A4'	Timer identifier tag	1	'24'	
'25' or 'A5'	Timer value tag	1	'25'	
'26' or 'A6'	Date-Time and Time zone tag	1	'26'	
'27' or 'A7'	Call control requested action tag	1	'27'	
'28' or 'A8'	AT Command tag	1	'28'	
'29' or 'A9'	AT Response tag	1	'29'	
'2A' or 'AA'	Reserved for GSM/3G (BC Repeat Indicator tag)	1	'2A'	
'2B' or 'AB'	Immediate response tag	1	'2B'	
'2C' or 'AC'	DTMF string tag	1	'2C'	
'2D' or 'AD'	Language tag	1	'2D'	
'2E' or 'AE'	Reserved for GSM/3G (Timing Advance tag)	1	'2E'	
'2F' or 'AF'	AID tag	1	'2F'	
'30' or 'B0'	Browser Identity tag	1	'30'	
'31' or 'B1'	URL tag	1	'31'	
'32' or 'B2'	Bearer tag	1	'32'	
'33' or 'B3'	Provisioning Reference File tag	1	'33'	
'34' or 'B4'	Browser Termination Cause tag	1	'34'	
'35' or 'B5'	Bearer description tag	1	'35'	
'36' or 'B6'	Channel data tag	1	'36'	
'37' or 'B7'	Channel data length tag	1	'37'	
'38' or 'B8'	Channel status tag	1	'38'	
'39' or 'B9'	Buffer size tag	1	'39'	
'3A' or 'BA'	Card reader identifier tag	1	'3A'	
'3B' or 'BB'	File Update Information tag	1	'3B'	
'3C' or 'BC'	UICC/terminal interface transport level tag	1	'3C'	
'3D' or 'BD'		1	'3D'	
	Not used		'3E'	
'3E' or 'BE'	Other address (data destination address) tag	1	JE	

COMPREHENSION-TLV tag (CR and Tag value)	Card application toolkit data objects	Length of tag	Tag value, bits 1-7 (Range: '01' – '7E')
'3F' or 'BF'	Access Technology tag	1	'3F'
'40' or 'C0'	Display parameters tag	1	'40'
'41' or 'C1'	Service Record tag	1	'41'
'42' or 'C2'	Device Filter tag	1	'42'
'43' or 'C3'	Service Search tag	1	'43'
'44' or 'C4'	Attribute information tag	1	'44'
'45' or 'C5'	Service Availability tag	1	'45'
'46' or 'C6'	Reserved for 3GPP2 (ESN tag)	1	'46'
'47' or 'C7'	Network Access Name tag	1	'47'
'48' or 'C8'	Reserved for 3GPP2 (CDMA-SMS-TPDU tag)	1	'48'
'49' or 'C9'	Remote Entity Address tag	1	'49'
'4A' or 'CA'	Reserved for 3GPP (I-WLAN Identifier tag)	1	'4A'
'4B' or 'CB'	Reserved for 3GPP (I-WLAN Access Status tag)	1	'4B'
	RFU		'4C' to '4F'
'50' or 'D0'	Text attribute tag	1	'50'
'51' or 'D1'	Item text attribute list tag	1	'51'
'52' or 'D2'	Reserved for 3GPP (PDP context Activation	1	'52'
	parameter tag)		
	RFU		'53' to '61'
'62' or 'E2'	IMEISV tag	1	'62'
'63' or 'E3'	Battery state tag	1	'63'
'64' or 'E4'	Browsing status tag	1	'64'
'65' or 'E5'	Network Search Mode tag	1	'65'
'66' or 'E6'	Frame Layout tag	1	'66'
'67' or 'E7'	Frames Information tag	1	'67'
'68' or 'E8'	Frame identifier tag	1	'68'
'69' or 'E9'	Reserved for 3GPP (UTRAN Measurement Qualifier tag)	1	'69'
'6A' or 'EA'	Multimedia Message Reference tag	1	'6A'
'6B' or 'EB'	Multimedia Message Identifier tag	1	'6B'
'6C' or 'EC'	Reserved for 3GPP (Multimedia Message Transfer Status tag)	1	'6C'
'6D' or 'ED'	MEID tag	1	'6D'
'6E' or 'EE'	Multimedia Message Content Identifier tag	1	'6E'
'6F' or 'EF'	Multimedia Message Notification tag	1	'6F'
'70' or 'F0'	Last Envelope tag	1	'70'
'71' or 'F1'	Registry application data tag	1	'71'
'72' or 'F2'	Reserved for 3GPP (PLMNwAcT List tag)	1	'72'

Annex A (normative): Allocated ETSI PIX numbers

Table A.1: Allocation of ETSI PIX

		Document		
Application	RID		PIX	Document
Application	(see note 1)	ETSI app	Additional PIX coding	(see note 2)
		code		
GSM	'A00000009'	'0001'	See annex B for further coding details	TS 151 011 [6]
GSM SIM toolkit	'A00000009'	'0002'	See annex B for further coding details	TS 101 267 [7]
GSM SIM API for	'A00000009'	'0003'	See annex C for further coding details	TS 143 019 [8]
Java™ Card				
TETRA	'A00000009'	'0004'	See annex B for further coding details	EN 300 812-3 [9]
UICC API for	'A00000009'	'0005'	See annex I for further coding details	TS 102 241 [17]
Java Card™				
DVB CBMS KMS	'A00000009'	'0101'	See TS 102 474 [22] for further coding	TS 102 474 [22]
			details	
	'A00000009'			
AID Applica	tion Identifier.			
	tary application I			
RID Registe	ered application p	orovider Iden	tifier.	
			according to ISO/IEC 7816-4 [3],7 is 'A000	
			chnical body, in charge of the application st	
inform t	the ETSI Secreta	riat when the	e respective ETSI document is withdrawn of	or renumbered.

Annex B (normative): Coding of the PIX for GSM and TETRA applications

The following codings apply for the structure of the PIX when the application is either:

- the GSM application (i.e. ETSI application code = '0001' as shown in annex A);
- a GSM SIM Toolkit Application (i.e. ETSI application code = '0002' as shown in annex A); or
- the TETRA application (i.e. ETSI application code = '0004' as shown in annex A).

Dig	its 1 to 4	to 4 ETSI application code							
		Co	ding:	'0001', '000	'0001', '0002' or '0004' as specified in clause 4.2.				
Dig	its 5 to 8	Co	untry code						
		Co	ding:	As specifie	As specified in clause 4.2.				
Dig	its 9 to 14	Ар	plication p	ovider code					
		Co	ding:	As defined	l below.				
	9	10	11	12	13	14			
							Industry Code '89' for Telecom		
							Card issuer Code. Coded in BCD and right justified. Unused digits to be padded with 'F' on the left		

Card issuer code and Industry code are coded in line with ITU-T Recommendation E.118 [4].

Digits 15 up to 22 Application provider field 8 digits

Digits 15 to 22 shall be used only if the ETSI application code is '0002' (i.e. GSM SIM toolkit).

Coding: Hexadecimal. If the application is a SIM Toolkit Application (as defined in TS 101 267 [7]), the coding is as defined below.

15	16	17	18	19	20	21	22	
								Application Provider specific data
								Toolkit Application Reference (TAR)

Toolkit Application Reference (TAR) as specified in TS 102 226 [19], is managed by the application provider.

Application Provider specific data: For application administration purposes.

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API Type, '1' for Java Card

Annex C (normative): Coding of the PIX for SIM toolkit API packages

The following coding applies for the structure of the PIX when the application is a SIM Toolkit API package (i.e. ETSI application code = '0003' – as defined in annex A):

Digits 1 to 4				ETS	ETSI application code							
				Cod	ing:	'00'	03' as spe	cified i	n clau	se 4.2.		
Digits	5 to	8		Not	used							
				Cod	ing:	Set	to 'FF FI	F'.				
Digits	9 to	14		Ind	ustry c	ode						
				Cod	ing:	As	defined b	below.				
		9		10		11	12	1	3	14		
											Industry Code '89' for Telecom Not used – set to 'FF FF'	
Digits	15 ı	1p to	22	Apr	licatio	n provide	er field 8	digits				
15		16		17	18	19	20	21		22		
	,		,			13					If Digit 15 = '1', defined in TS 143 019 [8]	

Annex D (normative): Allocated TAR values

Table D.	1: Allo	cation	of TA	R values
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Issuer Security Domain 'B2 1 st level application issuer specific values Allocated by the 1 st level application '00 issuer '100 Allocated by the 1 st level application '00 issuer '100 Allocated by the 1 st level application 'C0 issuer '100 Remote File Management Applications '100	Issuer Security Domain 0 00 00' 2 01 00' 8 0 00 01' to 'AF FF FF' 0 00 00' to 'FF FF FF' 0 00 00' and 0 00 02' to 'B0 00 0F'	(see note 1) TS 102 226 [19] / compact data format TS 102 226 [19] / expanded data format TS 102 226 [19] / compact data format
Issuer Security Domain 'B2 1 st level application issuer specific values Allocated by the 1 st level application '00 issuer '100 Allocated by the 1 st level application '00 issuer '100 Allocated by the 1 st level application 'C0 issuer '100 Remote File Management Applications '100	00 00' 2 01 00' s 0 00 01' to 'AF FF FF' 0 00 00' to 'FF FF FF' 0 00 00' and	TS 102 226 [19] / expanded data format
Issuer Security Domain 'B2 1 st level application issuer specific values Allocated by the 1 st level application '00 issuer '100 Allocated by the 1 st level application '00 issuer '100 Allocated by the 1 st level application 'C0 issuer '100 Remote File Management Applications '100	2 01 00' s 000 01' to 'AF FF FF' 0 00 00' to 'FF FF FF' 0 00 00' and	TS 102 226 [19] / expanded data format
1 st level application issuer specific values Allocated by the 1 st level application You Remote File Management Applications	s 000 01' to 'AF FF FF' 0 00 00' to 'FF FF FF' 0 00 00' and	
Allocated by the 1 st level application '00 issuer Allocated by the 1 st level application 'C0 issuer Remote File Management Applications	0 00 01' to 'AF FF FF' 0 00 00' to 'FF FF FF' 0 00 00' and	TS 102 226 [10] / compact data format
issuer Allocated by the 1 st level application CO issuer Remote File Management Applications) 00 00' to 'FF FF FF') 00 00' and	TS 102 226 [10] / compact data format
issuer Remote File Management Applications) 00 00' and	TS 102 226 [10] / compact data format
issuer Remote File Management Applications		TS 102 226 [10] / compact data format
		TS 102 226 [19] / compact data format
		TS 102 226 [19] / compact data format
	00 02' to 'B0 00 0F'	10 102 220 100 000000000000000000000000
'B0		
	0 00 10' to 'B0 00 1F'	TS 131 116 [20] / compact data format
) 00 01' and	TS 131 116 [20] / compact data format
` ́ ́ ́ ВО	00 20 to 'B0 01 1F'	
UICC Shared File System 'B0	0 01 20' to 'B0 01 2F'	TS 102 226 [19] / expanded data format
SIM File System 'B0	0 01 30' to 'B0 01 3F'	TS 131 116 [20] / expanded data format
	0 01 40' to 'B0 01 FF'	TS 131 116 [20] / expanded data format
RFU /B0	02 00' to 'B0 FF FF'	
Payment Applications		
	00 00' to 'B1 FF FF'	
US	AT Interpreter Application	
	2 00 00' to 'B2 00 FF'	TS 131 114 [13]
	Card Web Server (SCWS) App	
	2 01 01'	OMA-TS-Smartcard-Web-Server-V1.0
		[25]
SCWS administrative agent 'B2	2 01 02'	OMA-TS-Smartcard-Web-Server-V1.0
Application		[25]
Reserved for future categories		
	2 01 03' to 'BF FE FF'	
Proprietary Toolkit Application		
	FFF 00' to 'BF FF FF'	
NOTE 1: It is the responsibility of the te		Toolkit Application standardization, to
	hen the respective document is	
NOTE 2: ADF Remote File Managemer		

Annex E (normative): Allocated 3GPP PIX numbers

Table E.1: Allocated 3GPP PIX numbers

3G Application Identifiers								
Application			AID	Document				
	RID		PIX	(see note 2)				
	(see note 1)	3G	Additional PIX coding					
		App Code						
3GPP UICC	'A00000087'	'1001'	See annex F for further coding details	TS 131 101 [10]				
(see note 3)								
3GPP USIM	'A00000087'	'1002'	See annex F for further coding details	TS 131 102 [11]				
3GPP USIM toolkit	'A00000087'	'1003'	See annex G for further coding details	TS 131 111 [12]				
3GPP ISIM	'A00000087'	'1004'	See annex F for further coding details	TS 131 103 [14]				
3GPP (U)SIM API	'A00000087'	'1005'	See annex J for further coding details	TS 131 130 [18]				
for Java Card™								
3GPP ISIM API for	'A00000087'	'1006	See annex K for further coding details	TS 131 133 [24]				
Java Card™								
	NOTE 1: The 3GPP RID, as registered by ISO/IEC according to ISO/IEC 7816-4 [3], is 'A000000087'.							
NOTE 2: It is the responsibility of the 3GPP technical body, in charge of the application standardization, to								
			e respective 3G document is withdrawn or r	enumbered.				
NOTE 3: Currently	, no application	or functiona	lity is defined for this AID.					

Annex F (normative): Coding of the PIX for 3G UICC applications

The following codings apply for the structure of the PIX when the application is a 3G telecommunication Integrated Circuits (IC) card application.

Digits 1 to 4		3G application code										
		Cod	ing:	As specified in clause 4.2 and as shown in annex A.								
Digits 5 to 8		Cou	ntry code									
		Cod	ing:	As specified in clause 4.2.								
Digits 9 to 14		Application pr		ovider code								
		Cod	ing:	As defined b	below.							
	9	10	11	12	13	14						
							Industry Code '89' for Telecom					
							Card issuer Code. Coded in BCD and right justified. Unused digits to be padded with 'F' on the left					

Card issuer code and Industry code are coded in line with ITU-T Recommendation E.118 [4].

 Digits 15 up to 22
 Application provider field 8 digits

 Coding:
 Digit 15 to 20, coded in BCD, refer to the specification version xx.yy.zz. The coding of xx, yy, and zz is right justified and padded with '0' on the left.

 EXAMPLE:
 If the version is 3.5.0 then specification version is '03 05 00'.

Digits 21 to 22 are coded in hexadecimal

The application provider field format is as defined below:

1	5	16	17	18	19	20	21	22	7
									Application Provider specific data
									Specification version xx.yy.zz

Application Provider specific data: for application administration purposes.

Annex G (normative): Coding of the PIX for 3G USIM Toolkit Applications

The following codings apply for the structure of the PIX when the application is a 3G USIM Toolkit Application.

Digits 1 to 4	3G application	code							
	Coding:	As specified in clause 4.2 and a	as shown in annex A.						
Digits 5 to 8	Country code								
	Coding:	As specified in clause 4.2.							
Digits 9 to 14	Application provider code								
	Coding:	As defined below.							
9 10	11	12 13 14]						
			Industry Code '89' for Telecom						
			Card issuer Code. Coded in BCD and right justified. Unused digits to be padded with 'F' on the left						

Card issuer code and Industry code are coded in line with ITU-T Recommendation E.118 [4].

Digits 15 up to 22	Application pr	Application provider field 8 digits								
	Coding:	Hexadecimal, as de	fined below.							
15 16	17 18	19 20	21 22	Application Provider specific data Toolkit Application Reference (TAR)						

Toolkit Application Reference (TAR) as specified in TS 102 226 [19], is managed by the application provider (i.e. operator in that case) except for TAR values beginning with hexadecimal value 'B' (most significant bits of digit 15) which are reserved for future use by the 3GPP and the TAR value '000000' which is reserved for the Issuer Security Domain (see TS 102 226 [19]).

Application Provider specific data: for application administration purposes.

Annex H (informative): Tag allocation guidelines

This clause defines some guidelines that shall be followed when requesting tag values for the TLV forms listed in table 7.1. The present document shall be the repository for application domain dependent and independent tag values.

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An existing tag value either from the above tables or from ISO/IEC 7816-6 [16] shall be reused in the following cases:

- if an object is common across all application domains and it has the same coding;
- if an object is common across application domains but the coding of the data is both application domain specific and only valid for the currently employed application domain. The application shall use domain indication procedures to determine the interpretation of the object.

A new tag value shall be allocated in the following cases:

- if the object is unique to one particular application domain;
- if an object is common across application domain but the coding of the data is both application domain specific and always available irrespective of the current application domain.

Annex I (normative): Coding of the PIX for UICC toolkit API packages

The following coding applies for the structure of the PIX when the application is a UICC Toolkit API package (i.e. ETSI application code = '0005' – as defined in annex A):

Digits	1 to 4	ETSI a								
		Coding	: '0	'0005' as specified in clause 4.2.						
Digits	5 to 8	Not use	ed							
		Coding	: S	et to 'FF FF	'.					
Digits	9 to 14	Industr	ry code							
		Coding:		s defined be	elow.					
	9	10	11	12	13	14	7			
					·		Industry Code '89' for Telecom Not used – set to 'FF FF'			
Digits	15 up to 22	Applica	ation provid	ler field 8 d	ligits					
15	16	17 1	8 19	20	21	22				
						If D	ligit 15 = '1', defined in TS 102 241 [17]			
						AP	I Type, '1' for Java Card			

Annex J (normative): Coding of the PIX for (U)SIM API for Java Card[™] packages

The following coding applies for the structure of the PIX when the application is a (U)SIM Toolkit API package (i.e. 3GPP application code = '1005' – as defined in annex E):

Digits 1 to 4	3GPP applicat	3GPP application code								
	Coding:	'1005' as specified in clause 4.2.								
Digits 5 to 8	Not used									
	Coding:	Set to 'FF FF'.								
Digits 9 to 14	Industry code									
	Coding:	As defined below.								
9	10 11	12 13 14								
		Industry Code '89' for Telecom Not used – set to 'FF FF'								
		<u>.</u>								
Digits 15 up to 22	Application p	rovider field 8 digits								
15 16	17 18 1	9 20 21 22								
		If Digit 15 = '1', defined in TS 131 130 [18]								
		API Type, '1' for Java Card™								

Annex K (normative): Coding of the PIX for ISIM API for Java Card[™] package

The following coding applies for the structure of the PIX when the application is a ISIM Toolkit API package (i.e. 3GPP application code = '100X' – as defined in annex E):

Digits 1 to 4	3GPP applicat	3GPP application code								
	Coding:	'100X' as specified in clause 4.2.								
Digits 5 to 8	Not used									
	Coding:	Set to 'FF FF'.								
Digits 9 to 14	Industry code									
	Coding:	As defined below.								
9	10 11	12 13 14								
		Industry Code '89' for Telecom Not used – set to 'FF FF'								
Digits 15 up to 22	Application p	rovider field 8 digits								
15 16	17 18 1	9 20 21 22								
		If Digit 15 = '1', defined in TS 131 133 [24]								
		API Type, '1' for Java Card™								

Annex L (Informative): Bibliography

• ETSI EG 201 220: "Integrated Circuit Cards (ICC); ETSI numbering system for telecommunication; Application providers (AID)".

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Annex M (informative): Change history

The table below indicates all changes that have been incorporated into the present document since it was placed under change control.

Change history								
Date	Meeting	Plenary Doc	CR	Rev	Cat	Subject/Comment	Old	New
1997-10						TC ICC published version 1.2.1. The on- going maintenance of this deliverable was subsequently transferred from TC ICC to TC SMG when TC ICC was closed in early 1998.		1.2.1
1998-10	SMG #27	98-0673			В	Addition of normative annex C, introducing AID coding for GSM and Toolkit Applications.	1.2.1	1.3.0
1999-09	SMG #29	P-99-415			В	Addition of normative annex D, introducing AID coding for SIM Toolkit packages.	1.3.0	1.4.0
2000-05	SMG #31	P-00-142			F	Alignment of the AID allocation procedure.	1.4.0	3.0.0
		P-00-142			B	Definition of an AID for TETRA. NOTE: At SMG #31, it was agreed it would be more appropriate for the present document to be classified as an "ETSI Technical Specification" rather than an "ETSI Guide". This resulted in the deliverable number being changed from EG 201 220 (see bibliography) to the present document. Furthermore, to align the specification version numbering system with that of the 3GPP, the new version number became 3.0.0.		
2000-12	SCP-03	9-00-0443			F	Correction of the AID coding for the SIM API packages.	3.0.0	3.1.0
2001-03	SCP-05	SCP-010137 SCP-010138	007 008		B B	Toolkit Application Reference (TAR) management. Incorporation of 3GPP AID specification.	3.1.0	3.2.0
2001-07	SCP-06	SCP-010174	009		F	Clarification of the specification number of the application provider code in annex F.	3.2.0	3.3.0
2001-10	SCP-07	SCP-010308	010		С	Allocation of new TAR values for Remote File Management.	3.3.0	4.0.0
2001-12	SCP-08	SCP-010387	011		F	Correction to allocation of TAR values for "Remote File Management Applications" clause.	4.0.0	4.1.0
2002-06	SCP-10	SCP-020156	012		В	Allocation of TAR values for the USAT Interpreter.	4.1.0	5.0.0
0000 01	005 10		013		B	Addition of ISIM AID.		
2003-01	SCP-12	SCP-030060 SCP-030077	016 014	2	D B	Remove UICC as an abbreviation to align with 3GPP TR 21 905 [26]. Definition of TLV Forms and TLV Tag Value Tables.	5.0.0	6.0.0
		SCP-030081	015		В	Update of Statement of Scope.		
2003-05	SCP-13	SCP-030160	017		В	BER-TLV Tag Reservation for card application communication.	6.0.0	6.1.0
		SCP-030112	018		В	Allocation of AID for the uicc.* packages.		

_				_		ange history		
Date	Meeting	Plenary Doc	CR	Rev	Cat	Subject/Comment	Old	New
2003-12		SCP-030410	019		D	Corrections on PIX and Application codes.	6.1.0	6.2.0
			020		F	Modifying annex A from informative to normative.		
			021		В	Allocation of AID for the uicc.usim.* packages.		
			022		D	Correction of reference to TS 102 241 [17].		
			024		F	Alignment of TS 101 220 with TS 102 226 [19] and TS 31.116 Release 6 specifications.		
		SCP-030479	025		В	New Comprehension TLV Tag for IMEISV.		
			026		F	Alignments regarding tag 86.	6.2.0	6.3.0
			029		F	Tag allocation for new comprehension TLV: Battery State.		
			030		В	Tag reservation for Browsing status event in CAT.		
		SCP-040033	032		В	Allocation of tags for Fill and Repeat Pattern.		
		SCP-040088	033		С	Removal of EIA/TIA-136 Tags.		
2004-05	SCP#17	SCP-040235	034		D	Transfer of the COMPREHENSION-TLV Tags from TS 102 223 [23].	6.3.0	6.4.0
			035		В	Allocation of new tag values for Expanded Remote Application data format.		
2004-09	SCP#18	SCP-040315	027	1	В	Introduction of new tags for the frames in CAT.	6.4.0	6.5.0
			036		В	New Tags for BER-TLV Efs.		
		SCP-040371	037		В	Allocation of new tag values for EAP.		
		SCP-040352	039	_	F	Tag reservation for 3GPP features.		
2004-11	SCP#19	SCPt040286	040	2		BER-TLV reservation for 3GPP feature.	6.5.0	6.6.0
		SCPt040272	041			Clarification for non-specific references.		
		SCP-040470 SCPt040300	043			Alignments with TS 131 111 [12].	0.0.0	700
		SCP1040300 SCPt040336	042			Clarification of length coding for TLV.	6.6.0	7.0.0
		3CP1040330	039			Classification on List of allocated BER-TLV tag values.		
2005-01	SCP#20	SCPt040492	044			New Tag for Introduction of MEID.	7.0.0	7.1.0
		SCPt040582	045			Addition of File Update Information tag.		
		SCP-050060	038	2		Allocation of TAR values for Expanded Remote Application data format.		
2005-05	SCP#21	SCPt050147	046		В	Tags for 3GPP MMS commands.	7.1.0	7.2.0
2005-05	30F#21	SCPt050121	040		F	Modifications due to revision of	7.1.0	1.2.0
						ISO/IEC 7816-4 [3] series.		
		SCPt050166	048		В	Allocation of TAR values for ADF Remote		
2005.00	SCP#22	SCP-050282	050	1	В	File Management Applications. Tags for MMS Toolkit commands.	7.2.0	7.3.0
2005-09 2005-12	SCP#22 SCP#23	SCPt050876	050	1	F	Correct reference to an annex.	7.3.0	7.4.0
2000 12	001 #20	SCPt050882	053		F	Cleaning of the specification.	7.0.0	7.4.0
		SCP-050503			B	Reservation of Comprehension-TLV tags for 3GPP related to the new I-WLAN bearer in 3GPP.		
2006-03	SCP#25	SCP-060152	056		D	Removal of double quotes.	7.4.0	7.5.0
2006-07	SCP#26	SCP-060244	055	2	В	Addition of specific UICC environmental conditions tag.	7.5.0	
		SCP-060253	059	1	В	Addition of supported system command tag.		
		SCP-060289	060		В	Reservation of Application code for DVB CBMS KMS.		7.6.0
2006-09	SCP#27	SCP-060474	064	1	F	Clarify 3GPP UICC AID.	7.6.0	
			062	1	F	Correction of Terminal capability indication mechanism.		
		SCP-060486	066	1	В	Tags for error responses for wrong TLVs.		7.7.0
2007-01	SCP#29	SCP-070018	061	2	В	Addition of tag for the Extension of the number of logical channels.	7.7.0	
			067		В	Introduction of an PIX coding for the ISIM API for Java Card™ TS 31.133.		
		SCP-070055	068	2	В	Tags for Remote Management Actions.		7.8.0

	Change history								
Date	Meeting	Plenary Doc	CR	Rev	Cat	Subject/Comment	Old	New	
2007-05	SCP#30	SCP-070133	069	1	В	Allocation of TAR values for the OMA	7.8.0		
						SCWS and administrative agent.			
		SCP-070175	063	1	В	Modification of tags for RFM with script			
						chaining.		7.9.0	
2007-07	SCP#31	SCP-070275	065	4	В	Tags for Launch Application feature.	7.9.0	7.10.0	
2007-08	SCP#32	SCP-070315	070	-	С	Reservation of Tag values for 3GPP.	7.10.0	7.11.0	
2007-10	SCP#33	SCP-070422	072	-	В	Addition of support for the UICC-CLF	7.11.0	7.12.0	
						interface.			

History

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