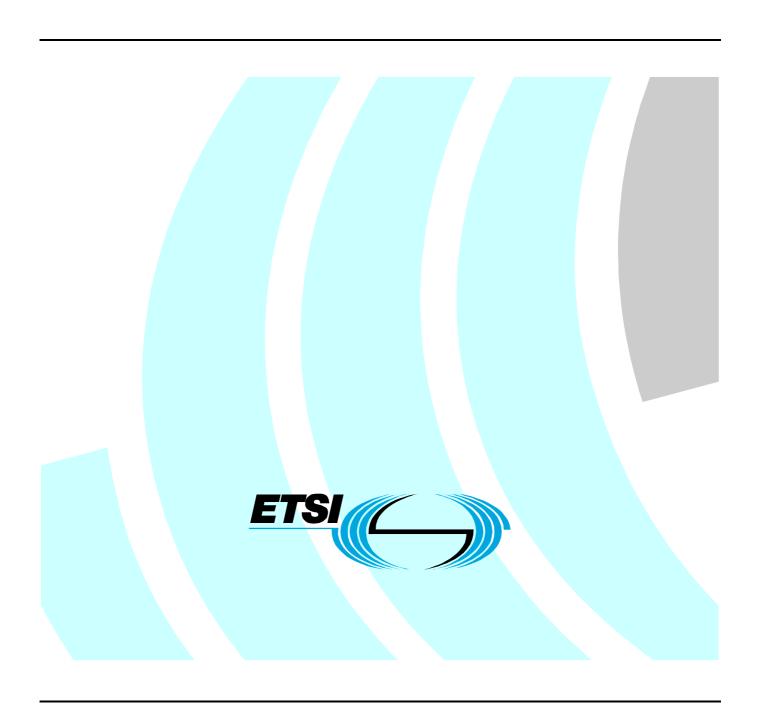
ETSITS 101 220 V7.7.0 (2006-10)

Technical Specification

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



Reference RTS/SCP-T005r7 Keywords GSM, ID, smart card, UMTS

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Foreword

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- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

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

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

- References are either specific (identified by date of publication and/or edition number or version number) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.

(3GPP TS 31.114)".

Referenced documents which are not found to be publicly available in the expected location might be found at http://docbox.etsi.org/Reference.

NOTE: While any hyperlinks included in this clause were valid at the time of publication ETSI cannot guarantee their long term validity.

[1]	Void.
[2]	ITU-T Recommendation E.164: "The international public telecommunication numbering plan".
[3]	ISO/IEC 7816-4: "Identification cards - Integrated circuit cards - Part 4: Organization, security and commands for interchange".
[4]	ITU-T Recommendation E.118: "The international telecommunication charge card".
[5]	Void.
[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)".
[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)".
[8]	ETSI TS 143 019: "Digital cellular telecommunications system (Phase 2+); Subscriber Identity Module Application Programming Interface (SIM API) for Java Card; Stage 2 (3GPP TS 43.019)".
[9]	ETSI EN 300 812-3: "Terrestrial Trunked Radio (TETRA); Subscriber Identity Module to Mobile Equipment (SIM-ME) interface; Part 3: Integrated Circuit (IC); Physical, logical and TSIM application characteristics".
[10]	ETSI TS 131 101: "Universal Mobile Telecommunications System (UMTS); UICC-terminal interface; Physical and logical characteristics (3GPP TS 31.101)".
[11]	ETSI TS 131 102: "Universal Mobile Telecommunications System (UMTS); Characteristics of the USIM application (3GPP TS 31.102)".
[12]	ETSI TS 131 111: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); Universal Subscriber Identity Module (USIM) Application Toolkit (USAT) (3GPP TS 31.111)".
[13]	ETSI TS 131 114: "Universal Mobile Telecommunications System (UMTS); Universal Subscriber Identity Module Application Toolkit (USAT) interpreter protocol and administration

[14]	ETSI TS 131 103: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); Characteristics of the IP Multimedia Services Identity Module (ISIM) application (3GPP TS 31.103)".
[15]	ISO/IEC 8825-1: "Information technology - ASN.1 encoding rules: Specification of Basic Encoding Rules (BER), Canonical Encoding Rules (CER) and Distinguished Encoding Rules (DER)".
[16]	ISO/IEC 7816-6: "Identification cards - Integrated circuit cards - Part 6: Interindustry data elements for interchange".
[17]	ETSI TS 102 241: "Smart cards; UICC Application Programming Interface (UICC API) for Java Card (TM) (Release 7)".
[18]	ETSI TS 131 130: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); (U)SIM Application Programming Interface (API); (U)SIM API for Java Card (3GPP TS 31.130)".
[19]	ETSI TS 102 226: "Smart cards; Remote APDU structure for UICC based applications (Release 6)".
[20]	ETSI TS 131 116: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); Remote APDU Structure for (Universal) Subscriber Identity Module (U)SIM Toolkit applications (3GPP TS 31.116)".
[21]	ETSI TR 121 905: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); Vocabulary for 3GPP Specifications (3GPP TR 21.905)".
[22]	ETSI TS 102 474: "Digital Video Broadcasting (DVB); IP Datacast over DVB-H: Service Purchase and Protection".
[23]	ETSI TS 102 223: "Smart Cards; Card Application Toolkit (CAT)".

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 BER Basic Encoding Rules** Comprehension Required CR Digital Enhanced Cordless Telecommunications **DECT** Global System for Mobile communication **GSM** IC Integrated Circuit(s) **ICC** Integrated Circuit Card ID **IDentifier** PIX Proprietary application Identifier eXtension **RFU** Reserved for Future Use RID Registered application provider IDentifier Subscriber Identity Module SIM Toolkit Application Reference **TAR** TErrestrial Trunked RAdio **TETRA TLV** Tag-Length-Value **UPT** Universal Personal Telecommunications **URL Uniform Resource Locator**

USIM Application Toolkit

USAT

USIM Universal Subscriber Identity Module

4 Structure of the Application IDentifier (AID)

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

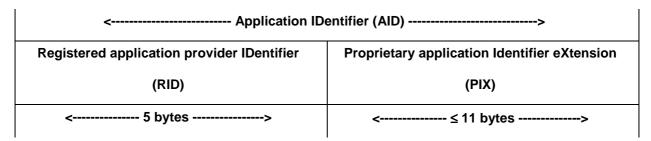


Figure 4.1: AID structure

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:

- 'A000000009' 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 code

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: List of actual country codes is published by ITU.

Digits 9 to 14 Application provider 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 provider 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: 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 1st level application issuer 'B0 00 00' to 'B0 FF FF' Remote File Management (see annex D) Payment application (see annex D) 'B1 00 00' to 'B1 FF FF' 'B2 00 00' to 'B2 00 FF' USAT Interpreter Application (see annex D) 'BF FF 00' to 'BF FF FF' Proprietary Toolkit Application 'C0 00 00' to 'FF FF FF' Allocated by the 1st 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				ag valu	ıe		

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 value							

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'.

7.1.2 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 65535	'82'	Length ('01 C	00' to 'FF FF')	Not present
65536 to 16777215	'83'	Length ('01 00 00' to 'FF FF FF')		FF')

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	Access Mode data objects		
'80'	Access Mode - Generic Command		
'81' - '8F'	Access Mode - Command Description		
'9C'	Proprietary State Machine		
Security Condition	data objects		
'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		

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		

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

BER-TLV tag	Response Scripting template ('AB')		
'80'	Number of executed C-APDUs tag		
'90'	Bad format tag		

1	COMPREHENSION-TLV tag (CR and Tag value)	Card application toolkit data objects	Length of tag	Tag value, bits 1-7 (Range: '01' - '7E')
03 or 83	'01' or '81'	Command details tag	1	'01'
1		Device identity tag	1	
105 or 85			1	
1			1	_
07 or 87		Alpha identifier tag	1	
108 or 188			1	
199 or 189	'07' or '87'	Capability configuration parameters tag	1	'07'
OA' or '8A Reserved for GSM/3G (USD string tag) 1 OA			1	
OB or '3B Reserved for GSM/3G (Cell Broadcast page tag) 1 OB	'09' or '89'	Reserved for GSM/3G (SS string tag)	1	
OC or SC Reserved for GSWG (Cell Broadcast page tag) 1 OC			1	
OD or SD			1	
OE or SE		Reserved for GSM/3G (Cell Broadcast page tag)	1	'0C'
OF or SF Item tag	'0D' or '8D'	Text string tag	1	'0D'
110 or 90' Item identifier tag	'0E' or '8E'	Tone tag	1	'0E'
11 or 91	'0F' or '8F'	Item tag	1	'0F'
12 or 92	'10' or '90'	Item identifier tag	1	'10'
13' or 33'	'11' or '91'	Response length tag	1	'11'
14' or '94' IMEI tag	'12' or '92'	File List tag	1	'12'
15 or 95	'13' or '93'	Location Information tag	1	'13'
16 or 96	'14' or '94'	IMEI tag	1	'14'
117 or 397 Default Text tag	'15' or '95'	Help request tag	1	'15'
18' only	'16' or '96'	Network Measurement Results tag	1	'16'
18' only	'17' or '97'	,	1	'17'
19 or 199			1	'18'
1A' or '9A' Reserved for GSM/3G (Cause tag)	•	ÿ	1	'19'
'1B' or '9B'			1	'1A'
'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 list tag 1 '1E' '1F' or '9F' Item Icon identifier list tag 1 '1F' '2D' or 'AO' Card reader status tag 1 '20' '21' or 'AI' 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 '23' '26' or 'A6' Date-Time and Time zone 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 'A4' Reserved for GSM/3G (BC Repeat Indicator tag) 1 '2A' '2B' or 'AB' Immediate respon		, , ,	1	
'1D' or '9D' Reserved for GSM/3G (BCCH channel list tag) 1 '1D' or '9E' Icon identifier tag 1 '1E' or '9F' Item Icon identifier list tag 1 '1E' '2O' or 'AO' Card reader status tag 1 '20' '2O' or 'AO' Card ATR tag 1 '21' '22' '2A' or 'AA' Card ATR tag 1 '22' '22' '22' or 'AA' Timer identifier tag 1 '22' '22' '22' or 'AA' Timer value tag 1 '25' '26' or 'AG' Date-Time and Time zone tag 1 '25' '26' or 'AG' Date-Time and Time zone tag 1 '26' '27' or 'AT' Call control requested action tag 1 '27' '28' or 'AG' AT Command tag 1 '26' '27' or 'AT' Call control requested action tag 1 '28' '29' or 'AG' AT Response tag 1 '28'			1	'1C'
'1E' or '9E' Icon identifier tag			1	
'1F' or '9F'			1	
20' or 'A0' Card reader status tag			1	
'21' or 'A1' Card ATR tag			1	
'22' or 'A2'			1	'21'
'23' or 'A3' R-APDU tag			1	'22'
'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 'AA' Reserved for GSM/3G (BC Repeat Indicator tag) 1 '2A' '2B' or 'AA' 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' AlD tag 1 '2E' '2F' or 'AF' AlD tag 1 '3D' '31' or 'B1' URL tag 1 '31' '30' or 'B2' Bearer tag 1 '3			1	'23'
'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 '2B' '2C' or 'AC' DTMF string tag 1 '2D' '2E' or 'AB' Reserved for GSM/3G (Timing Advance tag) 1 '2E' '2F' or 'AF' AID tag 1 '2F' '30' or 'BO' Browser Identity tag 1 '30' '31' or 'BI' 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			1	
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'3C' or 'BC' UICC/terminal interface transport level tag 1 '3C' '3D' or 'BD' Not used 1 '3D'				
'3D' or 'BD' Not used 1 '3D'				
		·		
I SE OF BE Other aggress (data destination aggress) tag IIII IIII '3E'	'3E' or 'BE'	Other address (data destination address) tag	1	'3E'

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	1	'69'
	Qualifier tag)		
'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'

Annex A (normative): Allocated ETSI PIX numbers

Table A.1: Allocation of ETSI PIX

			AID	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 Java™ Card	'A00000009'	'0003'	See annex C for further coding details	TS 143 019 [8]
TETRA	'A00000009'	'0004'	See annex B for further coding details	EN 300 812 [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.			
PIX Proprie	tary application lo	dentifier eXte	ension.	
RID Registe	red application p	rovider IDen	tifier.	
NOTE 1: The ET	SI RID, as registe	ered by ISO	according to ISO/IEC 7816-4 [3],7 is 'A000	0000009'.

NOTE 1: The ETSLRID, as registered by ISO according to ISO/IEC 7816-4 [3], 7 is Adduddoudus.

NOTE 2: It is the responsibility of the ETSL technical body, in charge of the application standardization, to inform the ETSI Secretariat when the respective ETSI document is withdrawn 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); or
- 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).

Digits 1 to 4 ETSI application code

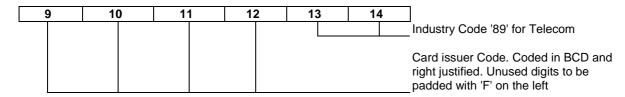
Coding: '0001', '0002' or '0004' as specified in clause 4.2.

Digits 5 to 8 Country code

Coding: As specified in clause 4.2.

Digits 9 to 14 Application provider code

Coding: As defined below.



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.

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

The following coding apply 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 ETSI application code

Coding:

'0003' 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 provider field 8 digits

15	16	17	18	19	20	21	22	
								If Digit 15 = '1', defined in TS 143 019 [8]
								API Type, '1' for Java Card

Annex D (normative): Allocated TAR values

Table D.1: Allocation of TAR values

Application	TAR	Document
Application	IAR	(see note 1)
	Issuer Security Domain	
Issuer Security Domain	'00 00 00'	TS 102 226 [19] / compact data format
Issuer Security Domain	'B2 01 00'	TS 102 226 [19] / expanded data format
1st	level application issuer specifi	c values
Allocated by the 1st level application	'00 00 01' to 'AF FF FF'	
issuer		
Allocated by the 1st level application	'C0 00 00' to 'FF FF FF'	
issuer		
	emote File Management Applic	ations
UICC Shared File System	'B0 00 00' and	TS 102 226 [19] / compact data format
	'B0 00 02' to 'B0 00 0F'	
SIM File System	'B0 00 10' to 'B0 00 1F'	TS 131 116 [20] / compact data format
ADF (see note 2)	'B0 00 01' and	TS 131 116 [20] / compact data format
	'B0 00 20 to 'B0 01 1F'	
UICC Shared File System	'B0 01 20' to 'B0 01 2F'	TS 102 226 [19] / expanded data format
SIM File System	'B0 01 30' to 'B0 01 3F'	TS 131 116 [20] / expanded data format
ADF (see note 2)	'B0 01 40' to 'B0 01 FF'	TS 131 116 [20] / expanded data format
RFU	'B0 02 00' to 'B0 FF FF'	
	Payment Applications	
RFU	'B1 00 00' to 'B1 FF FF'	
	USAT Interpreter Application	
USAT Interpreter Application	'B2 00 00' to 'B2 00 FF'	TS 131 114 [13]
	Reserved for future categori	es
RFU	'B2 01 01' to 'BF FE FF'	
	Proprietary Toolkit Applicati	on
Proprietary Toolkit Application	'BF FF 00' to 'BF FF FF'	
NOTE 1: It is the responsibility of the	e technical body, in charge of the	Toolkit Application standardization, to

inform the ETSI Secretariat when the respective document is withdrawn or renumbered.

NOTE 2: ADF Remote File Management applications file access is defined in TS 102 226 [19].

Annex E (normative): Allocated 3GPP PIX numbers

Table E.1: Allocated 3GPP PIX numbers

		Application Identifiers			
Application			Document		
	RID		PIX	(see note 2)	
	(see note 1)	3G App Code	Additional PIX coding		
3GPP UICC (see note 3)	'A00000087'	'1001'	See annex F for further coding details	TS 131 101 [10]	
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 for Java Card™	'A00000087'	'1005'	See annex J for further coding details	TS 131 130 [18]	

NOTE 1: The 3GPP RID, as registered by ISO/IEC according to ISO/IEC 7816-4 [3], is 'A000000087'.

NOTE 3: Currently, no application or functionality are defined for this AID

NOTE 2: It is the responsibility of the 3GPP technical body, in charge of the application standardization, to inform the ETSI Secretariat when the respective 3G document is withdrawn or renumbered.

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

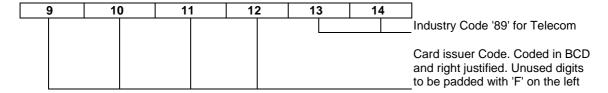
Coding: As specified in clause 4.2 and as shown in annex A.

Digits 5 to 8 Country code

Coding: As specified in clause 4.2.

Digits 9 to 14 Application provider code

Coding: As defined below.



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:

Ī	15	16	17	18	19	20	21	22]
-									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

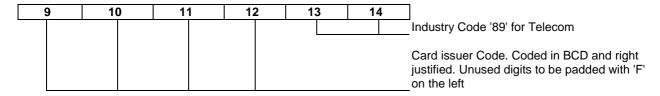
Coding: As specified in clause 4.2 and as shown in annex A.

Digits 5 to 8 Country code

Coding: As specified in clause 4.2.

Digits 9 to 14 Application provider code

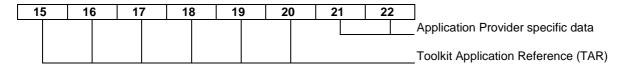
Coding: As defined below.



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: Hexadecimal, as defined below.



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.

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 application code

Coding:

'0005' 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	ļ.	
							Industry Code '89' for Telecom
							Not used - set to 'FF FF'

Digits 15 up to 22 Application provider field 8 digits

15	16	17	18	19	20	21	22	7
								If Digit 15 = '1', defined in TS 102 241 [17]
								API 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 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'

Digits 15 up to 22 Application provider field 8 digits

If Digit 15 = '1', defined in		7	22	21	20	19	18	17	16	15
	S 131 130 [18]	If Digit 15 = '1', defined in TS 131								
		API Type. '1' for Java Card™								

Annex K (informative): Bibliography

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

Annex L (informative): Change history

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

					Ch	ange history		
Date	Meeting	Plenary Doc	CR	Rev	Cat	Subject/Comment	Old	New
1997-10						TC ICC published version 1.2.1. The on-going		1.2.1
						maintenance of this deliverable was		
						subsequently transferred from TC ICC to TC		
						SMG when TC ICC was closed in early 1998.		
1998-10	SMG #27	98-0673			В	Addition of normative annex C, introducing AID	1.2.1	1.3.0
						coding for GSM and Toolkit Applications.		
1999-09	SMG #29	P-99-415			В	Addition of normative annex D, introducing AID	1.3.0	1.4.0
						coding for SIM Toolkit packages.		
2000-05	SMG #31	P-00-142			F	Alignment of the AID allocation procedure.	1.4.0	3.0.0
		P-00-142			В	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		
i						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	007		В	Toolkit Application Reference (TAR)	3.1.0	3.2.0
						management.	00	0.2.0
		SCP-010138	800		В	Incorporation of 3GPP AID specification.		
2001-07	SCP-06	SCP-010174	009		F	Clarification of the specification number of the	320	3.3.0
2001 07	00. 00	001 010171	000			application provider code in annex F.	0.2.0	0.0.0
2001-10	SCP-07	SCP-010308	010		С	Allocation of new TAR values for Remote File	330	4.0.0
2001 10	00. 07	001 010000	0.0			Management.	0.0.0	1.0.0
2001-12	SCP-08	SCP-010387	011		F	Correction to allocation of TAR values for	400	4.1.0
2001 12	00. 00	001 010007	0			"Remote File Management Applications" clause.	1.0.0	1
2002-06	SCP-10	SCP-020156	012		В	Allocation of TAR values for the USAT Interpreter	410	500
2002 00	001 10	001 020100	013		В	Addition of ISIM AID.	1	0.0.0
2003-01	SCP-12	SCP-030060	016		D	Remove UICC as an abbreviation to align with	500	6.0.0
2005-01	001 -12	301 -030000	010			3GPP TR 21 905. [21]	3.0.0	0.0.0
		SCP-030077	014	2	В	Definition of TLV Forms and TLV Tag Value		
		301 -030011	014	2		Tables.		
		SCP-030081	015		В	Update of Statement of Scope.	1	
2003-05	SCP-13	SCP-030160			В	BER-TLV Tag Reservation for card application	600	6.1.0
2003-03	3CF-13	3CF-030100	017			communication.	0.0.0	0.1.0
		SCP-030112	010		В	Allocation of AID for the uicc.* packages.		
2003-12		SCP-030410	019		D	Corrections on PIX and Application codes.	610	6.2.0
2003-12		301 -030410			F		0.1.0	0.∠.0
			020			Modifying Annex A from informative to normative.	1	
			021		В	Allocation of AID for the uicc.usim.* packages.	ł	
			022		D	Correction of reference to TS 102 241 [17] .	1	
			024		F	Alignment of TS 101 220 with TS 102 226 [19]		
		COD 000 170	00-			and TS 31.116 Release 6 specifications.	1	
		SCP-030479	025		B	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.	1	
			030		В	Tag reservation for Browsing status event in		
	i		1		1	CAT.	i	1

Change history								
Date	Meeting	Plenary Doc	CR	Rev	Cat	Subject/Comment	Old	New
		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	6.3.0	6.4.0
						from TS 102 223 [23].		
			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	043			Alignments with TS 131 111 [12].		
		SCPt040300	042			Clarification of length coding for TLV.	6.6.0	7.0.0
		SCPt040336	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
		SCPt050121	047		F	Modifications due to revision of ISO/IEC 7816-4		
						[3] series.		
		SCPt050166	048		В	Allocation of TAR values for ADF Remote File		
						Management Applications.		
2005-09	SCP#22	SCP-050282	050	1	В	Tags for MMS Toolkit commands.		7.3.0
2005-12	SCP#23	SCPt050876	052		F	Correct reference to an annex.	7.3.0	7.4.0
		SCPt050882	053		F	Cleaning of the specification.		
		SCP-050503	054		В	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		7.5.0
2006-07	SCP#26	SCP-060244	055	2	В	Addition of specific UICC environmental	7.5.0	7.6.0
						conditions tag		
		SCP-060253		1	В	Addition of supported system command tag		
		SCP-060289	060		В	Reservation of Application code for DVB CBMS		
						KMS		
2006-09	SCP#27	SCP-060474	064	1	F	Clarify 3GPP UICC AID	7.6.0	7.7.0
		SCP-060466	062	1	F	Correction of Terminal capability indication		
						mechanism	_	
		SCP-060486	066	1	В	Tags for error responses for wrong TLVs		

History

Document history						
V7.0.0	December 2004	Publication				
V7.1.0	April 2005	Publication				
V7.2.0	July 2005	Publication				
V7.3.0	September 2005	Publication				
V7.4.0	January 2006	Publication				
V7.5.0	May 2006	Publication				
V7.6.0	August 2006	Publication				
V7.7.0	October 2006	Publication				