ETSI TS 101 220 V11.1.0 (2012-09)

Technical Specification

Smart Cards;
ETSI numbering system
for telecommunication application providers
(Release 11)

Reference

RTS/SCP-T070653vb10

Keywords

GSM, ID, smart card, UMTS

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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 specific references, only the cited version applies. For non-specific references, the latest version of the reference document (including any amendments) applies.

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2.1 Normative references

The following referenced documents are necessary for the application of the present document.

[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 Universal Subscriber Identity Module (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 (3GPP TS 31.114)".

[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)".

[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".

[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]   Void.

[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)".

[24]   ETSI TS 131 133: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); IP Multimedia Services Identity Module (ISIM) Application Programming Interface (API); ISIM API for Java CardTM (3GPP TS 31.133)".

[25]   OMA "Smartcard-Web-Server", OMA-TS-Smartcard-Web-Server-V1-0.

NOTE: See http://www.openmobilealliance.org.

[26]   ETSI TS 102 225: "Smart Cards; Secured Packet structure for UICC-based applications".

[27]   ETSI TS 131 221: "Universal Mobile Telecommunications System (UMTS); LTE; Contact Manager for 3GPP UICC applications - internal interface aspects (3GPP TS 31.221 Release 8)".

[28]   3GPP2 C.S0065: "Characteristics of the CSIM application for cdma2000 spread spectrum systems".

[29]   "Global Platform Card Specification, Version 2.2, Amendment A" (October 2007).

NOTE: See http://www.globalplatform.org/.

[30]   "Global Platform Card Specification, Version 2.2, Amendment B" (November 2008).

NOTE: See http://www.globalplatform.org/.

[31]   OMA "Mobile Broadcast Services", OMA-TS-BCAST-Services-V1-1.

NOTE: See http://www.openmobilealliance.org.

2.2 Informative references

The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

[i.1] 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
AT	ATtention
BCD	Binary Coded Decimal
BER	Basic Encoding Rules
CBMS	Convergence of Broadcast and Mobile Services
CR	Comprehension Required
DECT	Digital Enhanced Cordless Telecommunications
DTMF	Dual Tone Multi Frequency
GAD	Geographical Area Description
GSM	Global System for Mobile communication
IC	Integrated Circuit(s)
ICC	Integrated Circuit Card
ID	IDentifier
ISIM	IP Multimedia Services Identity Module
ISO	International Organization for Standardization
NMEA	National Maritime Electronic Association

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
TP	Transport Protocol
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.

<--------------------------- Application IDentifier (AID) ---------------------------->	
Registered application provider IDentifier **(RID)**	**Proprietary application Identifier eXtension** **(PIX)**
<--------------- 5 bytes ---------------->	<--------------- ≤ 11 bytes -------------->
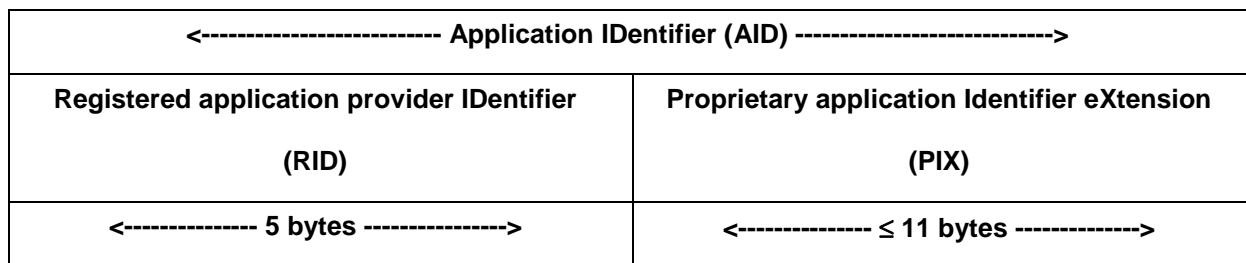
Figure 4.1: AID structure

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:

- 'A000000009' for ETSI;

- 'A000000087' for the 3GPP;

- 'A000000343' for the 3GPP2.

The following RIDs are for informational purposes only. These RIDs and associated PIXs are maintained by the respective bodies:

- 'A000000412' for the OMA;

- 'A000000424' for the WiMAX Forum.

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).

Annex D lists the TAR values or range and their associated applications and application categories.

Table 6.1: Void

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 value						

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 65 535	'82'	Length ('01 00' to 'FF FF')		Not present
65 536 to 16 777 215	'83'	Length ('01 00 00' to '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 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
'81'	Extended logical channels terminal support
'82'	Additional interfaces support

BER-TLV tag	Card application toolkit templates
'CF'	Reserved for proprietary use (direction terminal to UICC)
'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
'DD'	3G - Geographical Location Reporting tag
'DE'	Envelope Container

BER-TLV tag	Remote Management Application Data templates
'01'	reserved for OMA SCWS [25]
'81'	reserved for OMA SCWS [25] and GlobalPlatform 2.2 Amd. B [30]
'AA'	Command Scripting Template for definite length coding
'AB'	Response Scripting Template for definite length coding
'AE'	Command Scripting Template for indefinite length coding
'AF'	Response Scripting Template for indefinite length coding
NOTE:	Tag values with b2 and b1 set to 0 shall not be assigned to avoid conflicts with automatic application data format detection defined in TS 102 226 [19].

BER-TLV tag	Command Scripting template ('AA' or 'AE')
'22'	C-APDU tag (see note)
'81'	Immediate Action tag
'82'	Error Action tag
'83'	Script Chaining tag
NOTE:	When used in this template, the CR flag for this tag shall be set to 0.

BER-TLV tag	Response Scripting template ('AB' or 'AF')
'23'	R-APDU tag (see note)
'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
NOTE:	When used in this template, the CR flag for this tag shall be set to 0.

BER-TLV tag	Manage Secure Channel command
'81'	UICC_ID TLV
'82'	Endpoint information TLV
'83'	Term label - Terminal_ID TLV
'84'	Term label - Terminal_appli_ID TLV
'85'	Term label - UICC_Identifier TLV
'86'	Term label - UICC_appli_ID TLV
'87'	Key Agreement Mechanism TLV
'88'	MSA_ID TLV
'89'	Algorithm and Integrity TLV
'8A'	Tnonce TLV
'8B'	CSA_ID TLV
'8C'	Unonce TLV
'8D'	SSCMAC TLV
'8E'	Endpoint data container size TLV
'8F'	CSAMAC TLV

BER-TLV tag	Transact Data command
'80'	Secure Channel TLV
'81'	Encrypted Data BER TLV
'82'	Command APDU BER TLV
'83'	Response APDU BER TLV

COMPREHENSION-TLV tag (CR and Tag value)	Card application toolkit data objects	Length of tag	Tag value, bits 1 - 7 (Range: '01' - '7E')	Reassign (see note)
'01' or '81'	Command details tag	1	'01'	No
'02' or '82'	Device identity tag	1	'02'	No
'03' or '83'	Result tag	1	'03'	No
'04' or '84'	Duration tag	1	'04'	No
'05' or '85'	Alpha identifier tag	1	'05'	No
'06' or '86'	Address tag	1	'06'	Yes
'07' or '87'	Capability configuration parameters tag	1	'07'	Yes
'08' or '88'	Subaddress tag	1	'08'	Yes
'09' or '89'	Reserved for GSM/3G (SS string tag)	1	'09'	Yes
'0A' or '8A'	Reserved for GSM/3G (USSD string tag)	1	'0A'	Yes
'0B' or '8B'	Reserved for GSM/3G (SMS TPDU tag)	1	'0B'	Yes
'0C' or '8C'	Reserved for GSM/3G (Cell Broadcast page tag)	1	'0C'	Yes
'0D' or '8D'	Text string tag	1	'0D'	NR
'0E' or '8E'	Tone tag / eCAT client profile	1	'0E'	Yes
'0F' or '8F'	Item tag / eCAT client identity	1	'0F'	Yes
'10' or '90'	Item identifier tag / Encapsulated envelope type	1	'10'	Yes
'11' or '91'	Response length tag / Call control result tag	1	'11'	Yes
'12' or '92'	File List tag	1	'12'	Yes
'13' or '93'	Location Information tag	1	'13'	Yes
'14' or '94'	IMEI tag	1	'14'	Yes
'15' or '95'	Help request tag	1	'15'	Yes
'16' or '96'	Network Measurement Results tag	1	'16'	Yes
'17' or '97'	Default Text tag	1	'17'	Yes

COMPREHENSION-TLV tag (CR and Tag value)	Card application toolkit data objects	Length of tag	Tag value, bits 1 - 7 (Range: '01' - '7E')	Reassign (see note)
'18' only	Items Next Action Indicator tag	1	'18'	Yes
'19' or '99'	Event list tag	1	'19'	Yes
'1A' or '9A'	Reserved for GSM/3G (Cause tag)	1	'1A'	Yes
'1B' or '9B'	Location status tag	1	'1B'	Yes
'1C' or '9C'	Transaction identifier tag	1	'1C'	Yes
'1D' or '9D'	Reserved for GSM/3G (BCCH channel list tag)	1	'1D'	Yes
'1E' or '9E'	Icon identifier tag	1	'1E'	No
'1F' or '9F'	Item Icon identifier list tag	1	'1F'	Yes
'20' or 'A0'	Card reader status tag	1	'20'	Yes
'21' or 'A1'	Card ATR tag	1	'21'	Yes
'22' or 'A2'	C-APDU tag	1	'22'	Yes
'23' or 'A3'	R-APDU tag	1	'23'	Yes
'24' or 'A4'	Timer identifier tag	1	'24'	Yes
'25' or 'A5'	Timer value tag	1	'25'	Yes
'26' or 'A6'	Date-Time and Time zone tag	1	'26'	Yes
'27' or 'A7'	Call control requested action tag	1	'27'	Yes
'28' or 'A8'	AT Command tag	1	'28'	Yes
'29' or 'A9'	AT Response tag	1	'29'	Yes
'2A' or 'AA'	Reserved for GSM/3G (BC Repeat Indicator tag)	1	'2A'	Yes
'2B' or 'AB'	Immediate response tag	1	'2B'	Yes
'2C' or 'AC'	DTMF string tag	1	'2C'	Yes
'2D' or 'AD'	Language tag	1	'2D'	Yes
'2E' or 'AE'	Reserved for GSM/3G (Timing Advance tag)	1	'2E'	Yes
'2F' or 'AF'	AID tag	1	'2F'	Yes
'30' or 'B0'	Browser Identity tag	1	'30'	Yes
'31' or 'B1'	URL tag URI tag	1	'31'	Yes
'32' or 'B2'	Bearer tag	1	'32'	Yes
'33' or 'B3'	Provisioning Reference File tag	1	'33'	Yes
'34' or 'B4'	Browser Termination Cause tag	1	'34'	Yes
'35' or 'B5'	Bearer description tag	1	'35'	Yes
'36' or 'B6'	Channel data tag	1	'36'	Yes
'37' or 'B7'	Channel data length tag	1	'37'	Yes
'38' or 'B8'	Channel status tag	1	'38'	Yes
'39' or 'B9'	Buffer size tag	1	'39'	Yes
'3A' or 'BA'	Card reader identifier tag	1	'3A'	Yes
'3B' or 'BB'	File Update Information tag	1	'3B'	Yes
'3C' or 'BC'	UICC/terminal interface transport level tag	1	'3C'	Yes
'3D' or 'BD'	Not used	1	'3D'	
'3E' or 'BE'	Other address (data destination address) tag	1	'3E'	Yes
'3F' or 'BF'	Access Technology tag	1	'3F'	Yes
'40' or 'C0'	Display parameters tag	1	'40'	Yes
'41' or 'C1'	Service Record tag	1	'41'	Yes
'42' or 'C2'	Device Filter tag	1	'42'	Yes
'43' or 'C3'	Service Search tag	1	'43'	Yes
'44' or 'C4'	Attribute information tag	1	'44'	Yes
'45' or 'C5'	Service Availability tag	1	'45'	Yes
'46' or 'C6'	Reserved for 3GPP2 (ESN tag)	1	'46'	
'47' or 'C7'	Network Access Name tag	1	'47'	Yes
'48' or 'C8'	Reserved for 3GPP2 (CDMA-SMS-TPDU tag)	1	'48'	
'49' or 'C9'	Remote Entity Address tag	1	'49'	Yes
'4A' or 'CA'	Reserved for 3GPP (I-WLAN Identifier tag)	1	'4A'	Yes
'4B' or 'CB'	Reserved for 3GPP (I-WLAN Access Status tag)	1	'4B'	Yes
	RFU (only to be assigned if context specific re-use of other values is not possible)		'4C' to '4F'	
'50' or 'D0'	Text attribute tag	1	'50'	No
'51' or 'D1'	Item text attribute list tag	1	'51'	Yes
'52' or 'D2'	Reserved for 3GPP (PDP context Activation parameter tag)	1	'52'	Yes
'53' or 'D3'	Contactless state request tag	1	'53'	Yes
'54' or 'D4'	Contactless functionality state tag	1	'54'	Yes

COMPREHENSION-TLV tag (CR and Tag value)	Card application toolkit data objects	Length of tag	Tag value, bits 1 - 7 (Range: '01' - '7E')	Reassign (see note)
'55' or 'D5'	Reserved for 3GPP (CSG cell selection status)	1	'55'	Yes
'56' or 'D6'	Reserved for 3GPP (CSG ID)	1	'56'	Yes
'57' or 'D7'	Reserved for 3GPP (HNB name)	1	'57'	Yes
	RFU (only to be assigned if context specific re-use of other values is not possible)		'58' to '61'	
'61' or 'E1'	Reserved for 3GPP2 (Emergency Call Object Tag)	1	'61'	Yes
'62' or 'E2'	IMEISV tag	1	'62'	Yes
'63' or 'E3'	Battery state tag	1	'63'	Yes
'64' or 'E4'	Browsing status tag	1	'64'	Yes
'65' or 'E5'	Network Search Mode tag	1	'65'	Yes
'66' or 'E6'	Frame Layout tag	1	'66'	Yes
'67' or 'E7'	Frames Information tag	1	'67'	Yes
'68' or 'E8'	Frame identifier tag	1	'68'	No
'69' or 'E9'	Reserved for 3GPP (UTRAN/E-UTRAN Measurement Qualifier tag)	1	'69'	Yes
'6A' or 'EA'	Multimedia Message Reference tag	1	'6A'	Yes
'6B' or 'EB'	Multimedia Message Identifier tag	1	'6B'	Yes
'6C' or 'EC'	Multimedia Message Transfer Status tag	1	'6C'	Yes
'6D' or 'ED'	MEID tag	1	'6D'	Yes
'6E' or 'EE'	Multimedia Message Content Identifier tag	1	'6E'	Yes
'6F' or 'EF'	Multimedia Message Notification tag	1	'6F'	Yes
'70' or 'F0'	Last Envelope tag	1	'70'	NR
'71' or 'F1'	Registry application data tag	1	'71'	Yes
'72' or 'F2'	Reserved for 3GPP (PLMNwAcT List tag)	1	'72'	Yes
'73' or 'F3'	Reserved for 3GPP (Routing Area Information Tag)	1	'73'	Yes
'74' or 'F4'	Reserved for 3GPP (Update/Attach Type Tag)	1	'74'	Yes
'75' or 'F5'	Reserved for 3GPP (Rejection Cause Code Tag)	1	'75'	Yes
'76' or 'F6'	Reserved for 3GPP (Geographical Location Parameters tag) Reserved for 3GPP (IARI tag)	1	'76'	Yes
'77' or 'F7'	Reserved for 3GPP (GAD Shapes tag) Reserved for 3GPP (IMPU list tag)	1	'77'	Yes
'78' or 'F8'	Reserved for 3GPP (NMEA sentence tag) Reserved for 3GPP (IMS Status Code tag)	1	'78'	Yes
'79' or 'F9'	Reserved for 3GPP (PLMN List tag)	1	'79'	Yes
'7A' or 'FA'	Broadcast Network Information tag Extended registry application data tag	1	'7A'	Yes
'7B' or 'FB'	ACTIVATE descriptor tag	1	'7B'	Yes
'7C' or 'FC'	Reserved for 3GPP (EPS PDN connection activation parameters tag)	1	'7C'	Yes
'7D' or 'FD'	Reserved for 3GPP (Tracking Area Identification tag)	1	'7D'	Yes
'7E' or 'FE'	Reserved for 3GPP (CSG ID list Tag)	1	'7E'	Yes
NOTE:	Starting from Release 10, tag values are assigned in a context specific manner, i.e. the same tag value can be used for different data objects, provided that the object can be uniquely identified from the context of the proactive command or ENVELOPE command in which it is used. The column "reassign" indicates whether it is expected that a tag can be reassigned in a context specific manner (yes), whether that is not recommended (NR) because of potential future conflicts or if this shall not be done (no).			

Annex A (normative):
Allocated ETSI PIX numbers

Table A.1: Allocation of ETSI PIX

| Application | AID | | | Document |
| | RID (see note 1) | PIX | | (see note 2) |
		ETSI app code	Additional PIX coding	
GSM	'A000000009'	'0001'	See annex B for further coding details	TS 151 011 [6]
GSM SIM toolkit	'A000000009'	'0002'	See annex B for further coding details	TS 101 267 [7]
GSM SIM API for Java™ Card	'A000000009'	'0003'	See annex C for further coding details	TS 143 019 [8]
TETRA	'A000000009'	'0004'	See annex B for further coding details	EN 300 812-3 [9]
UICC API for Java Card™	'A000000009'	'0005'	See annex I for further coding details	TS 102 241 [17]
DVB CBMS KMS	'A000000009'	'0101'	See TS 102 474 [22] for further coding details	TS 102 474 [22]
	'A000000009'			
	'A000000009'			
	'A000000009'			
	'A000000009'			
	'A000000009'			
AID Application IDentifier. PIX Proprietary application Identifier eXtension. RID Registered application provider IDentifier.				
NOTE 1: The ETSI RID, as registered by ISO according to ISO/IEC 7816-4 [3], is 'A000000009'. NOTE 2: It is the responsibility of the ETSI 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);

- 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.

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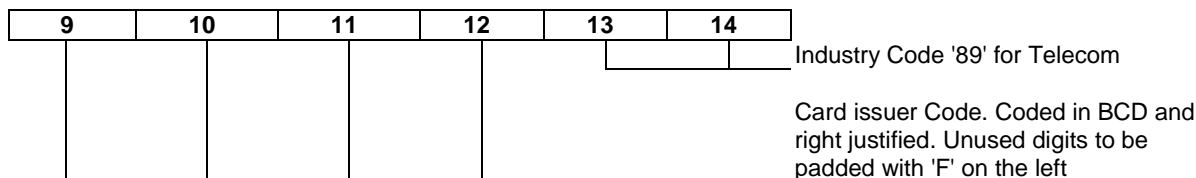
        Card issuer code and Industry code are coded in line with ITU-T Recommendation E.118 [4].

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.
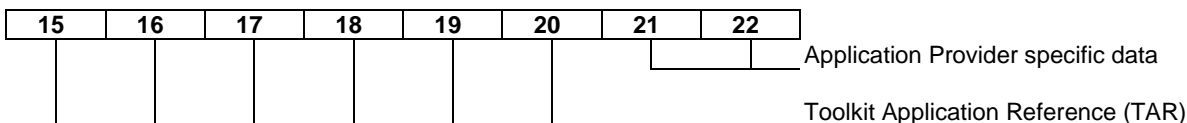
15	16	17	18	19	20	21	22

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.

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	**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
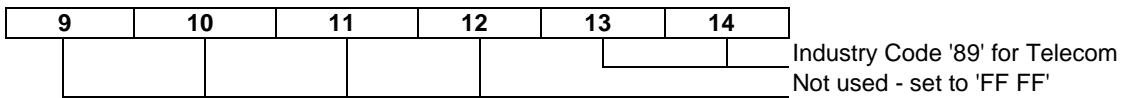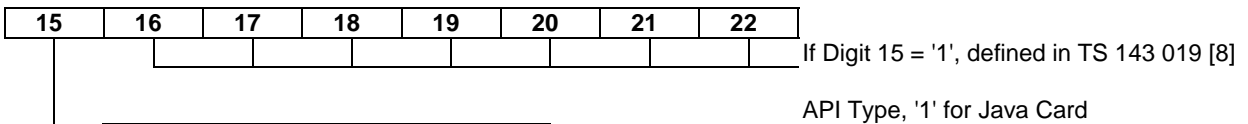
Annex D (normative):
Allocated TAR values

Table D.1: Allocation of TAR values

Application	TAR	Document (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 or automatic data format detection
1st level application issuer specific values		
Allocated by the 1st level application issuer	'00 00 01' to 'AF FF FF'	
Allocated by the 1st level application issuer	'C0 00 00' to 'FF FF FF'	
Remote File Management Applications		
UICC Shared File System	'B0 00 00' and 'B0 00 02' to 'B0 00 0F'	TS 102 226 [19]/compact data format
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 'B0 00 20 to 'B0 01 1F'	TS 131 116 [20]/compact data format
UICC Shared File System	'B0 01 20' to 'B0 01 2F'	TS 102 226 [19]/expanded data format or automatic data format detection
SIM File System	'B0 01 30' to 'B0 01 3F'	TS 131 116 [20]/expanded data format or automatic data format detection
ADF (see note 2)	'B0 01 40' to 'B0 01 FF'	TS 131 116 [20]/expanded data format or automatic data format detection
RFU	'B0 02 00' to 'B0 FF FF'	
Payment Applications		
Visa Mobile Payment Toolkit Application	'B1 00 00' to 'B1 00 05'	Reserved for Visa Inc.
RFU	'B1 00 06' to 'B1 FF FF'	
USAT Interpreter Application		
USAT Interpreter Application	'B2 00 00' to 'B2 00 FF'	TS 131 114 [13]
Smart Card Web Server (SCWS) Applications		
SCWS	'B2 01 01'	OMA-TS-Smartcard-Web-Server-V1.0 [25]
SCWS administrative agent Application	'B2 01 02'	OMA-TS-Smartcard-Web-Server-V1.0 [25]
Multiplexing Application		
Multiplexing Application	'B2 02 00'	TS 102 225 [26]/automatic data format detection
Controlling Authority Security Domain		
Controlling Authority Security Domain	'B2 02 01'	Global Platform Card Specification version 2.2, Amendment A [30]/automatic data format detection
Smartcard-Centric Audience Measurement		
OMA BCAST Smartcard-Centric Audience Measurement	'B2 02 02'	OMA "Mobile Broadcast Services" [31]

Other reservations		
Security Domain with Authorized Management privilege	'B2 02 10' to 'B2 02 1F'	Reserved for EMVCo
Security Domain with Delegated Management privilege	'B2 02 20' to 'B2 02 2F'	Reserved for EMVCo
Proprietary Toolkit Application		
Proprietary Toolkit Application	'BF FF 00' to 'BF FF FF'	
Reserved for future assignments		
RFU	All other values in the range of 'B0 00 00' to 'BF FF FF'	
NOTE 1: It is the responsibility of the 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]. NOTE 3: "CAT TP Multiplexing Application" is part of the "Multiplexing Application" category.		

Annex E (normative):
Allocated 3GPP PIX numbers

Table E.1: Allocated 3GPP PIX numbers

3G Application Identifiers				
Application	**AID**			**Document** (see note 2)
	RID (see note 1)	**PIX**		
		3G App Code	**Additional PIX coding**	
3GPP UICC (see note 3)	'A000000087'	'1001'	See annex F for further coding details	TS 131 101 [10]
3GPP USIM	'A000000087'	'1002'	See annex F for further coding details	TS 131 102 [11]
3GPP USIM toolkit	'A000000087'	'1003'	See annex G for further coding details	TS 131 111 [12]
3GPP ISIM	'A000000087'	'1004'	See annex F for further coding details	TS 131 103 [14]
3GPP (U)SIM API for Java Card™	'A000000087'	'1005'	See annex J for further coding details	TS 131 130 [18]
3GPP ISIM API for Java Card™	'A000000087'	'1006'	See annex K for further coding details	TS 131 133 [24]
3GPP Contact Manager API for Java Card™	'A000000087'	'1007'	See annex L for further coding details	TS 131 221 [27]
3GPP USIM-INI	'A000000087'	'1008'	See annex F for further coding details	TS 131 102 [11]
3GPP USIM-RN	'A000000087'	'1009'	See annex F for further coding details	TS 131 102 [11]
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 inform the ETSI Secretariat when the respective 3G document is withdrawn or renumbered.				
NOTE 3: Currently, no application or functionality 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.
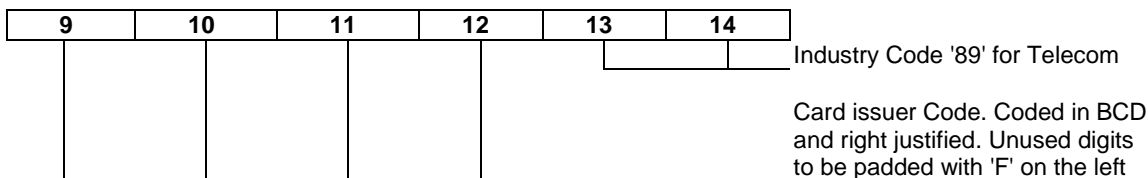
Digits 1 to 4   **3G application code**

  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.

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:

15	16	17	18	19	20	21	22

Application Provider specific data

Specification version xx.yy.zz
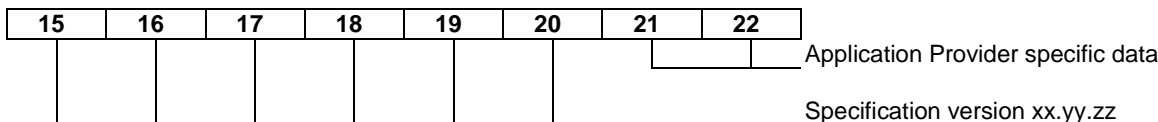
  Application Provider specific data: for application administration purposes.

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.

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

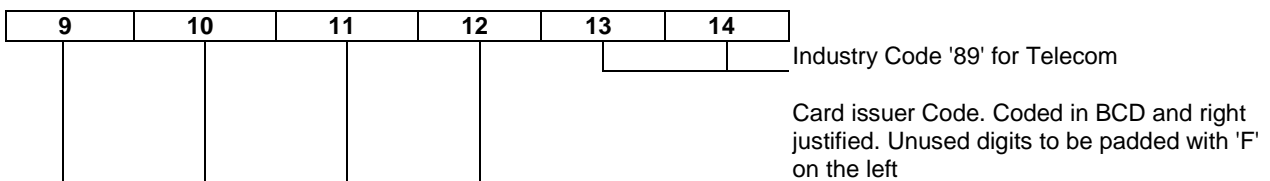Card issuer code and Industry code are coded in line with ITU-T Recommendation E.118 [4].

Digits 15 up to 22	**Application provider field 8 digits**
	Coding: Hexadecimal, as defined below.
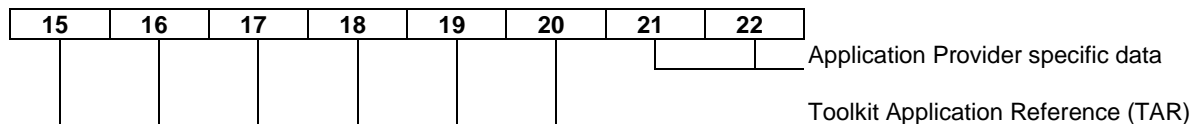
15	16	17	18	19	20	21	22

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 (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

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 102 241 [17]
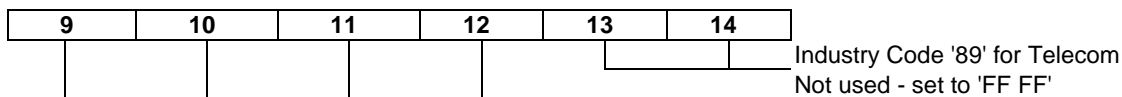
API Type, '1' for Java Card

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**

15	16	17	18	19	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
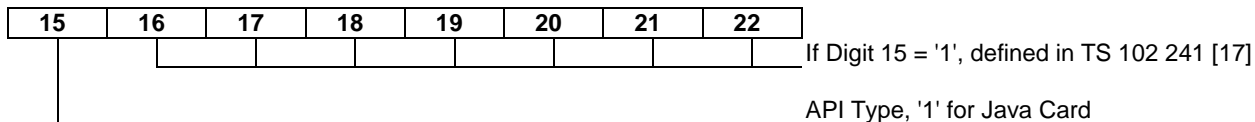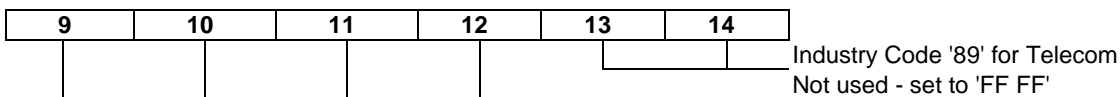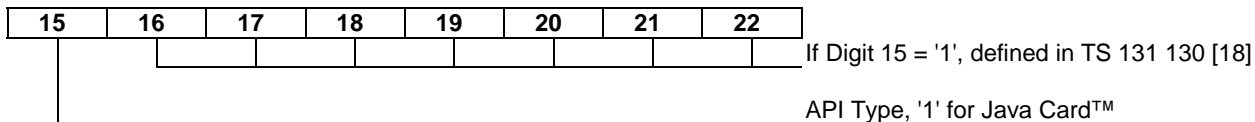(i.e. 3GPP application code = '1006' - as defined in annex E):

Digits 1 to 4   **3GPP application code**

          Coding: '1006' 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 131 133 [24]
          API Type, '1' for Java Card™
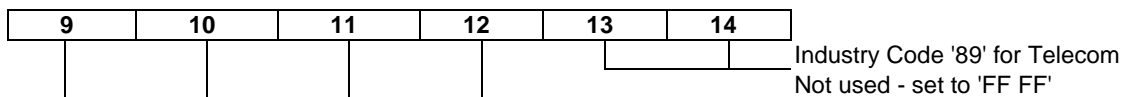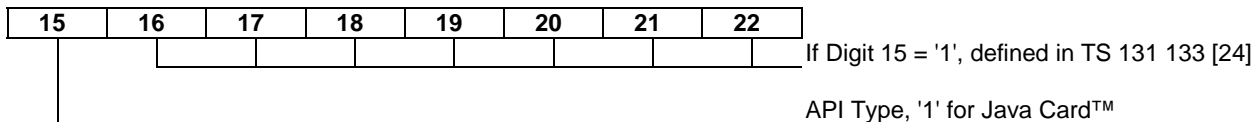
Annex L (normative):
Coding of the PIX for 3GPP Contact Manager API packages

The following coding applies for the structure of the PIX when the application is a 3GPP Contact Manager API package (i.e. ETSI application code = '1007' - as defined in annex A):

Digits 1 to 4	**3GPP application code**	
	Coding:	'1007' 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 131 221 [27]
API Type, '1' for Java Card
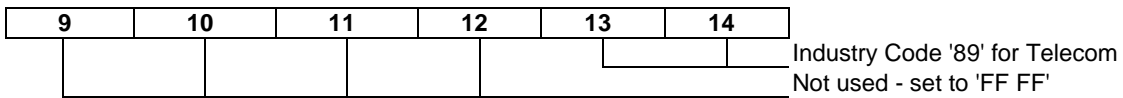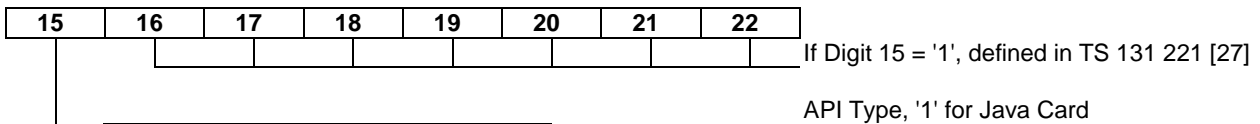
Annex M (normative):
Allocated 3GPP2 PIX numbers

Table M.1: Allocated 3GPP2 PIX numbers

3GPP2 Application Identifiers				
Application	**AID**			**Document** (see note 2)
	RID (see note 1)	**PIX**		
		3G App Code (see note 3)	**Additional PIX coding**	
3GPP2 CSIM	'A000000343'	'1002'	see annex F for further coding details	3GPP2 C.S0065 [28]
NOTE 1: The 3GPP2 RID, as registered by ISO/IEC according to ISO/IEC 7816-4 [3], is 'A000000343'.				
NOTE 2: It is the responsibility of the 3GPP2 technical body, in charge of the application standardization, to inform the ETSI Secretariat when the respective document is withdrawn or renumbered.				
NOTE 3: The application code given is the same than for the 3GPP USIM, as USIM and CSIM are equivalent between 3GPP and 3GPP2.				

Annex N (informative):
Bibliography

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

Annex O (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			B	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			B	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	007		B	Toolkit Application Reference (TAR) management.	3.1.0	3.2.0
		SCP-010138	008		B	Incorporation of 3GPP AID specification.		
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		C	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		B	Allocation of TAR values for the USAT Interpreter	4.1.0	5.0.0
			013		B	Addition of ISIM AID.		
2003-01	SCP-12	SCP-030060	016		D	Remove UICC as an abbreviation to align with 3GPP TR 21 905. [i.1]	5.0.0	6.0.0
		SCP-030077	014	2	B	Definition of TLV Forms and TLV Tag Value Tables.		
		SCP-030081	015		B	Update of Statement of Scope.		
2003-05	SCP-13	SCP-030160	017		B	BER-TLV Tag Reservation for card application communication.	6.0.0	6.1.0
		SCP-030112	018		B	Allocation of AID for the uicc.* packages.		
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		B	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		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.		
			030		B	Tag reservation for Browsing status event in CAT.		
		SCP-040033	032		B	Allocation of tags for Fill and Repeat Pattern.		
		SCP-040088	033		C	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		B	Allocation of new tag values for Expanded Remote Application data format.		

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Date	**Meeting**	**Plenary Doc**	**CR**	**Rev**	**Cat**	**Subject/Comment**	**Old**	**New**
2004-09	SCP#18	SCP-040315	027	1	B	Introduction of new tags for the frames in CAT.	6.4.0	6.5.0
			036		B	New Tags for BER-TLV EFs.		
		SCP-040371	037		B	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		B	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		B	Allocation of TAR values for ADF Remote File Management Applications.		
2005-09	SCP#22	SCP-050282	050	1	B	Tags for MMS Toolkit commands.	7.2.0	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		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	B	Addition of specific UICC environmental conditions tag	7.5.0	
		SCP-060253	059	1	B	Addition of supported system command tag		
		SCP-060289	060		B	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	
		SCP-060466	062	1	F	Correction of Terminal capability indication mechanism		
		SCP-060486	066	1	B	Tags for error responses for wrong TLVs		7.7.0
2007-01	SCP#29	SCP-070018	061	2	B	Addition of tag for the Extension of the number of logical channels	7.7.0	
			067		B	Introduction of an PIX coding for the ISIM API for Java Card™ TS 31.133		
		SCP-070055	068	2	B	Tags for Remote Management Actions		7.8.0
2007-05	SCP#30	SCP-070133	069	1	B	Allocation of TAR values for the OMA SCWS and administrative agent	7.8.0	
		SCP-070175	063	1	B	Modification of tags for RFM with script chaining		7.9.0
2007-07	SCP#31	SCP-070275	065	4	B	Tags for Launch Application feature	7.9.0	7.10.0
2007-08	SCP#32	SCP-070315	070	-	C	Reservation of Tag values for 3GPP	7.10.0	7.11.0
2007-10	SCP#33	SCP-070422	072	-	B	Addition of support for the UICC-CLF interface	7.11.0	7.12.0
2007-10	SCP#33	SCP-070426	071	-	B	TAR reservation for CAT TP Multiplexing	7.12.0	8.0.0
2008-01	SCP#35	SCP-080014	073	1	B	Tag reservation related to addition of Network Rejection in 3GPP TS 31.111	8.0.0	8.1.0
2008-07	SCP#38	SCPt080298	074	2	B	Reserve a CAT template value for proprietary use	8.1.0	8.2.0
2008-07	SCP#38	SCP-080372	075	1	B	TLV reservation for Secure Channel	8.1.0	8.2.0
2008-10	SCP#39	SCP-080440	076	-	B	Tag reservation related to addition of Geographical Location Request in 3GPP TS 31.111	8.2.0	8.3.0
2008-10	SCP#39	SCP-080433	077	-	F	Correction to Toolkit Application Reference listing and ISIM PIX number	8.2.0	8.3.0
2008-10	SCP#39	SCP-080433	078	-	B	PIX Reservation for 3GPP Contact Manager API for Java Card	8.2.0	8.3.0
2008-10	SCP#39	SCP-080424	079	-	C	Introduction of the RID for 3GPP2 CSIM application	8.2.0	8.3.0
2008-10	SCP#39	SCP-080440	080	-	B	Tag reservation related to addition of Broadcast Network Information in TS 102 223	8.2.0	8.3.0
2008-10	SCP#39	SCP-080428	081	-	B	TAR reservation for the Controlling Authority Security Domain	8.2.0	8.3.0
2008-10	SCP#39	SCP-080433	082	-	B	Extending TARs for automatic application data format detection	8.2.0	8.3.0
2009-01	SCP#40	SCP-090019	083	-	B	Tag reservation for ACTIVATE command	8.3.0	8.4.0
2009-01	SCP#40	SCP-090063	084	1	B	Reservation of values for 3GPP related to I-WLAN Steering of Roaming Refresh Command	8.3.0	8.4.0
2009-01	SCP#40	SCP-090062	085	1	B	Tag reservation alignments for Secure Channel	8.3.0	8.4.0
2009-04	SCP#41	SCP-090114	086	-	F	Addition of missing values in scripting templates	8.4.0	9.0.0

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Date	Meeting	Plenary Doc	CR	Rev	Cat	Subject/Comment	Old	New
2009-04	SCP#41	SCP-090114	087	-	B	Reservation of tag values for OMA and GlobalPlatform	8.4.0	9.0.0
2009-04	SCP#41	SCP-090137	088	-	B	Tag values allocation for 3GPP (support of LTE in 3GPP TS 31.111)	8.4.0	9.0.0
2009-07	SCP#42	SCP-090251	089	-	B	Addition of WiMAX and OMA RIDs	8.4.0	9.0.0
2009-10	SCP#43	SCP-090322	090	-	B	Tags for indefinite length coding for remote command and response structures	9.0.0	9.1.0
2009-10	SCP#43	SCP-090357	091	1	C	Generalised use of the Multiplexing Application	9.0.0	9.1.0
2009-10	SCP#43	SCP-090322	092	-	B	TAR reservation for EMVCo	9.0.0	9.1.0
2009-10	SCP#43	SCP-090322	093	-	B	Tag reservation of the contactless functionality control	9.0.0	9.1.0
2010-03	SCP#44	SCP(10)0058	094	-	B	Reservation of Tag values for 3GPP	9.1.0	9.2.0
2010-07	SCP#45	SCP(10)0144	097	1	B	Definition of TAR value for OMA BCAST smart card centric audience measurement	9.2.0	10.0.0
2010-07	SCP#45	SCP(10)0144	098	-	D	Removal of redundant information in clause 6	9.2.0	10.0.0
2010-07	SCP#45	SCP(10)0144	100	-	D	Correction of status of MM Transfer Status tag	9.2.0	10.0.0
2010-07	SCP#45	SCP(10)0144	101	-	C	Context specific tags for COMPREHENSION-TLVs	9.2.0	10.0.0
2010-10	SCP#46	SCP(10)0248	102	-	B	Tag for extended registry application data	10.0.0	10.1.0
2011-01	SCP#47	SCP(11)0036r1	103	1	F	Correction of tag description for Network Measurement Results (3GPP)	10.1.0	10.2.0
2011-01	SCP#47	SCP(11)0037r1	104	-	B	TAR allocation for Visa Inc.	10.1.0	10.2.0
2011-03	SCP#48	SCP(11)0091	105	-	B	Allocation of URI tag	10.2.0	10.3.0
2011-05	SCP#49	SCP(11)0186r1	106	1	B	Addition of 3G App codes for USIM-INI and USIM-RN	10.3.0	11.0.0
2011-05	SCP#49	SCP(11)0187	107	-	B	Addition of re-assignment indication for 3GPP-reserved COMPREHENSION-TLV tag values and addition of COMPREHENSION-TLV tag values for 3GPP IARI IMPU list IMS Status Code	10.3.0	11.0.0
2011-05	SCP#49	SCP(11)0173r1	108	-	B	Addition of tags for encapsulated CAT (wrong CR number allocated, renumbered to 108)	10.3.0	11.0.0
2011-09	SCP#52	SCP(11)0279r1	109	1	F	CR 101 220 R11 #109r1: Tags for envelope container and call control result	11.0.0	11.1.0
2012-03	SCP#54	SCP(12)000009r1	111	-	B	CR 101 220 R11 #111: Allocation of COMPREHENSION-TLV Tag Value for 3GPP2 Emergency Call	11.0.0	11.1.0

History

Document history		
V11.0.0	June 2011	Publication
V11.1.0	September 2012	Publication