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Smart Cards; ETSI numbering system for telecommunication application providers (Release 15)

## Reference RTS/SCP-T070653vf10

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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

## 2.1 Normative 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 referenced document (including any amendments) applies.

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

| _    |  |
|------|--|
| [1]  | Void.  |
| [2]  | Recommendation ITU-T 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]  | Recommendation ITU-T 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); LTE; UICC-terminal interface; Physical and logical characteristics (3GPP TS 31.101)".   |
| [11] | ETSI TS 131 102: "Universal Mobile Telecommunications System (UMTS); LTE; Characteristics of the Universal Subscriber Identity Module (USIM) application (3GPP TS 31.102)".  |
| [12] | ETSI TS 131 111: "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Universal Subscriber Identity Module (USIM) Application Toolkit (USAT) (3GPP TS 31.111)". |
|      |  |

| [13]  | ETSI TS 131 114: "Universal Mobile Telecommunications System (UMTS); LTE; 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+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; 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 <sup>TM</sup> ".   |
| [18]  | ETSI TS 131 130: "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; (U)SIM Application Programming Interface (API); (U)SIM API for Java <sup>TM</sup> 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+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Remote APDU Structure for (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]  | Void.   |
| [24]  | ETSI TS 131 133: "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; IP Multimedia Services Identity Module (ISIM) Application Programming Interface (API); ISIM API for Java Card <sup>TM</sup> (3GPP TS 31.133)". |
| [25]  | OMA-TS-Smartcard-Web-Server-V1-0: "Smartcard-Web-Server".   |
| NOTE: | See <a href="http://www.openmobilealliance.org">http://www.openmobilealliance.org</a> .   |
| [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 Application Programming Interface (API); Contact Manager API for Java Card (3GPP TS 31.221)".   |
| [28]  | 3GPP2 C.S0065-0: "cdma2000 Application on UICC for Spread Spectrum Systems".  |
| NOTE: | Available at <a href="https://www.3gpp2.org/Public html/Specs/C.S0065-0%20v1.0">https://www.3gpp2.org/Public html/Specs/C.S0065-0%20v1.0</a> 060630.pdf.  |
| [29]  | Void.   |
| [30]  | Global<br>Platform: "Card Remote Application Management over HTTP Card Specification<br>v2.2 - Amendment B" $v1.1.3$ .  |
| NOTE: | See <a href="http://www.globalplatform.org/">http://www.globalplatform.org/</a> .   |
| [31]  | OMA-TS-BCAST-Services-V1-1: "Mobile Broadcast Services".  |
| NOTE: | See <a href="http://www.openmobilealliance.org">http://www.openmobilealliance.org</a> .   |
| [32]  | ETSI TS 102 921: "Machine-to-Machine communications (M2M); mIa, dIa and mId interfaces".  |

| [33] | ISO/IEC 7816-5:2004: "Identification cards - Integrated circuit cards - Part 5: Registration of application providers".  |
|------|--|
| [34] | ETSI TS 118 103: "oneM2M; Security solutions (oneM2M TS-0003)".  |
| [35] | OMA-TS-LightweightM2M-V1-0: "Lightweight Machine to Machine".  |
| [36] | ETSI TS 131 104: "Universal Mobile Telecommunications System (UMTS); LTE; Characteristics of the Hosting Party Subscription Identity Module (HPSIM) application (3GPP TS 31.104)". |
| [37] | GlobalPlatform: "Global Platform Card, Confidential Card Content Management, Card Specification v2.3 - Amendment A", Version 1.1.  |

NOTE: See <a href="http://www.globalplatform.org/">http://www.globalplatform.org/</a>.

## 2.2 Informative 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 referenced document (including any amendments) applies.

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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.

Not applicable.

# 3 Definition of terms, symbols and abbreviations

## 3.1 Terms

For the purposes of the present document, the following terms 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 Symbols

Void.

## 3.3 Abbreviations

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

AID Application IDentifier AP Application Provider

APDU Application Protocol Data Unit API Application Program Interface

AT ATtention

BCD Binary Coded Decimal BER Basic Encoding Rules

BSSID Basic SSID

CBMS Convergence of Broadcast and Mobile Services

CR Comprehension Required

DECT Digital Enhanced Cordless Telecommunications

DM Device Management
DNS Domain Name System
DTMF Dual Tone Multi Frequency
GAD Geographical Area Description

GSM Global System for Mobile communication

GSMA GSM Association

HESSID Homogeneous Extended SSID

HPSIM Hosting Party Subscription Identity Module

IC Integrated Circuit(s)
ICC Integrated Circuit Card

ID IDentifier
IP Internet Protocol

ISIM IP Multimedia Services Identity Module ISO International Organization for Standardization

MAC Medium Access Control MMS Multimedia Message Service

NMEA National Maritime Electronic Association
PIX Proprietary application Identifier eXtension

RFU Reserved for Future Use

RID Registered application provider IDentifier

RSP Remote SIM Provisioning
SA Security Association
SCP Smart Card Platform
SIM Subscriber Identity Module
SM Session Management
SSID Service Set Identifier

TAR Toolkit Application Reference

TC Technical Committee
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
UTRAN Universal Terrestrial Radio Access Network

# 4 Structure of the Application IDentifier (AID)

## 4.0 Introduction

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

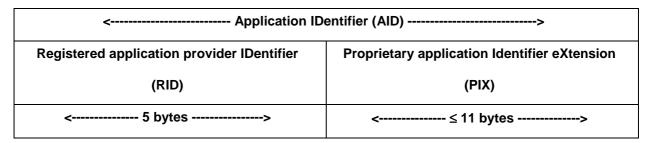


Figure 4.1: AID structure

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 7816-5 [33], are:

- 'A00000009' for ETSI;
- 'A000000087' for the 3GPP;
- 'A000000343' for the 3GPP2;
- 'A000000645' for the oneM2M.

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 Recommendation ITU-T E.164 [2]. The coding is right justified

and padded with 'F' on the left.

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

#### Digits 9 to 14 Application provider code

Purpose: Individual code for the application provider of the ETSI or 3G standardized

application.

Coding: According to Recommendation ITU-T 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 2: Digits 1 to 14 are assigned and registered by the ETSI Secretariat upon request by the responsible ETSI technical body.

# 5 Use of the Application IDentifier (AID)

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

# 6 Toolkit Application Reference (TAR)

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

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

A second level application may have several TAR values assigned.

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

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

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

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

## 7.1.0 Introduction

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 table 7.1.

Table 7.1

| 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

### 7.1.1.0 Introduction

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.

Table 7.2

| 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.

Table 7.3

| CR                         | Value |
|----------------------------|-------|
| Comprehension required     | 1     |
| Comprehension not required | 0     |

## 7.1.1.1 Single byte format

The tag is coded over one byte.

Table 7.4

| 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.

Table 7.5

| 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 table 7.6.

Table 7.6

| 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 'I | 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.

Table 7.7

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

Table 7.8

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

Table 7.9

| 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 templ  | ate   |
| 'A5'               | Proprietary Template                          |
| PIN Status data of | bjects  |
| 'C6'               | PIN Status data objects                       |

**Table 7.10** 

| 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            |

**Table 7.11** 

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

**Table 7.12** 

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

**Table 7.13** 

| 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 |
| '89'        | Platform to Platform CAT Secured APDU  |
| 'C0'        | Special File Information               |
| 'C1'        | Filling Pattern                        |
| 'C2'        | Repeat Pattern                         |

**Table 7.14** 

| 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) |

**Table 7.15** 

| BER-TLV tag | Discretionary template ('73') in EF DIR           |
|-------------|---|
| 'A0'        | EAP Application service specific data content tag |
| 'A1'        | M2M service specific data content tag             |
| 'A2'        | oneM2M service specific data content tag          |

**Table 7.16** 

| BER-TLV Tag | Terminal capabilities template ('A9')      |
|-------------|--|
| '80'        | Terminal power supply                      |
| '81'        | Extended logical channels terminal support |
| '82'        | Additional interfaces support              |
| '83'        | eUICC-related capabilities                 |

**Table 7.17** 

| BER-TLV tag | Card application toolkit templates  |
|-------------|---|
| 'CF'        | Reserved for proprietary use (direction terminal to UICC)                   |
| 'D0'        | Proactive Command   |
| 'D1'        | GSM/3GPP/3GPP2 - SMS-PP Download  |
| 'D2'        | GSM/3GPP/3GPP2 - Cell Broadcast Download                                    |
| 'D3'        | Menu Selection  |
| 'D4'        | Call Control  |
| 'D5'        | GSM/3GPP/3GPP2 - MO Short Message control                                   |
| 'D6'        | Event Download  |
| 'D7'        | Timer Expiration  |
| 'D8'        | Reserved for intra-UICC communication and not visible on the card interface |
| 'D9'        | 3GPP/3GPP2 - USSD Download  |
| 'DA'        | MMS Transfer status   |
| 'DB'        | MMS notification download   |
| 'DC'        | Terminal application tag  |
| 'DD'        | 3GPP - Geographical Location Reporting tag                                  |
| 'DE'        | Envelope Container  |
| 'DF'        | 3GPP - ProSe Report tag   |
| 'E0'        | Reserved for 3GPP (for future usage)  |
| 'E1'        | Reserved for 3GPP (for future usage)  |
| 'E2'        | Reserved for 3GPP (for future usage)  |
| 'E3'        | Reserved for 3GPP (for future usage)  |
| 'E4'        | Reserved for GSMA (direction terminal to UICC)                              |

**Table 7.18** 

| BER-TLV tag    | Remote Management Application Data templates                                       |
|----------------|--|
| '01'           | reserved for OMA SCWS [25]   |
| '81'           | reserved for OMA SCWS [25] and GlobalPlatform Card Specification Amd. B [30]       |
| 'A2'           | Reserved for GSMA RSP  |
| '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 valu | es with b2 and b1 set to 0 shall not be assigned to avoid conflicts with automatic |
| application    | on data format detection defined in ETSI TS 102 226 [19].                          |

**Table 7.19** 

| 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 us | sed in this template, the CR flag for this tag shall be set to 0. |

**Table 7.20** 

| 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 us | NOTE: When used in this template, the CR flag for this tag shall be set to 0. |  |  |  |  |  |

**Table 7.21** 

| 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_ÏD 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                         |  |  |  |  |  |

**Table 7.22** 

| 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  |  |  |  |  |  |  |

**Table 7.23** 

| COMPREHENSION -TLV tag (CR and Tag value) | Card application toolkit data objects            | Length of tag | Tag value,<br>bits 1 - 7<br>(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                 |
|   | Reserved for GSM/3G (BSSID tag)                  |               |  |                     |
|   | Reserved for GSM/3G (PLMN ID tag)                |               |  |                     |
|   | Reserved for GSM/3G (E-UTRAN Timing Advance tag) |               |  |                     |
| '0A' or '8A'                              | Reserved for GSM/3GPP2 (USSD string tag)         | 1             | '0A'   | Yes                 |
|   | Reserved for GSM/3G (IP Address List)            |               |  |                     |
|   | Reserved for 3GPP (HESSID tag)                   |               |  |                     |
| '0B' or '8B'                              | Reserved for GSM/3G (SMS TPDU tag)               | 1             | '0B'   | Yes                 |
|   | Reserved for GSM/3G (Surrounding macrocells)     |               |  |                     |
| '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   | 1             | '0E'   | Yes                 |
|   | eCAT client profile                              |               |  |                     |
| '0F' or '8F'                              | Item tag   | 1             | '0F'   | Yes                 |
|   | eCAT client identity                             |               |  |                     |
| '10' or '90'                              | Item identifier tag                              | 1             | '10'   | Yes                 |
|   | Encapsulated envelope type                       |               |  |                     |
| '11' or '91'                              |  |               | '11'   | Yes                 |
|   | Call control result tag                          | 1             |  |                     |
| '12' or '92'                              |  |               | '12'   | Yes                 |
|   | CAT service list tag                             | 1             |  |                     |
| '13' or '93'                              | Location Information tag                         | 1             | '13'   | Yes                 |
| '14' or '94'                              | IMEI tag   | 1             | '14'   | Yes                 |

| COMPREHENSION -TLV tag (CR and Tag value) | Card application toolkit data objects  | Length of tag | Tag value,<br>bits 1 - 7<br>(Range: '01' - '7E') | Reassign (see note) |  |
|---|--|---------------|--|---------------------|--|
| '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                 |  |
| '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) Reserved for GSM/3G (Data connection status 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                 |  |
|   | eCAT sequence number   |               |  |                     |  |
| '22' or 'A2'                              | C-APDU tag   | 1             | '22'   | Yes                 |  |
|   | Encrypted TLV list   |               |  |                     |  |
| '23' or 'A3'                              | R-APDU tag   | 1             | '23'   | Yes                 |  |
|   | SA template  | _ '           |  | 1.00                |  |
| '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                 |  |
| ZA UI AA                                  |  | _ ' '         | ZA   | 162                 |  |
| IODI em IADI                              | Reserved for GSM/3G (Data connection type tag)   | 1             | '2B'   | V                   |  |
| '2B' or 'AB'                              | Immediate response tag   | 1             | '2C'   | Yes                 |  |
| '2C' or 'AC'                              | DTMF string tag  | 1             |  | Yes                 |  |
| '2D' or 'AD'                              | Language tag   | 1             | '2D'   | Yes                 |  |
| '2E' or 'AE'                              | Reserved for GSM/3G (Timing Advance tag) Reserved for GSM/3G ((E)SM cause 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  | 1             | '31'   | Yes                 |  |
|   | Reserved for GSM/3G (IMS URI tag)  |               |  |                     |  |
| '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                 |  |
|   | Supported Radio Access Technologies  |               |  |                     |  |
| '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                 |  |
|   | REFRESH Enforcement Policy tag   |               |  |                     |  |
| '3B' or 'BB'                              | File Update Information tag  | 1             | '3B'   | Yes                 |  |
|   | Application specific refresh data tag  |               |  |                     |  |
| '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'                              |  |               | '40'   | Yes                 |  |
|   | DNS server address   | 1             |  | . = =               |  |
| '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                 |  |
|   | v various illivilliativii lau  | 1 '           | 1 77   | 1103                |  |
| '45' or 'C5'                              | Service Availability tag   | 1             | '45'   | Yes                 |  |

| COMPREHENSION -TLV tag (CR and Tag value) | Card application toolkit data objects                  | Length of tag | Tag value,<br>bits 1 - 7<br>(Range: '01' - '7E') | Reassign (see note) |
|---|--|---------------|--|---------------------|
| '47' or 'C7'                              | Network Access Name tag                                | 1             | '47'   | Yes                 |
| '48' or 'C8'                              | Reserved for 3GPP2 (3GPP2 tag 2)                       | 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                 |
|   | Reserved for 3GPP (SSID tag)                           | 1 .           | "`   | . 00                |
| '4B' or 'CB'                              | Reserved for 3GPP ((I-)WLAN Access Status tag)         | 1             | '4B'   | Yes                 |
| 4D 01 0D                                  | RFU (only to be assigned if context specific re-use of |               | '4C' to '4F'                                     | 103                 |
|   | other values is not possible)                          |               | 40 10 41   |                     |
| '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    | 1             | '52'   | Yes                 |
| 32 01 DZ                                  | tag)   | '             | 32   | 163                 |
| '53' or 'D3'                              | Contactless state request tag                          | 1             | '53'   | Yes                 |
| '54' or 'D4'                              | Contactless functionality state tag                    | 1             | '54'   | Yes                 |
| '55' or 'D5'                              | Reserved for 3GPP (CSG cell selection status tag)      | 1             | '55'   | Yes                 |
| 33 01 D3                                  | Reserved for 3GPP (IMS call disconnection cause tag)   | '             | 33   | 168                 |
| IECI or IDCI                              | · ·  | 4             | IFO  | Vaa                 |
| '56' or 'D6'                              | Reserved for 3GPP (CSG ID)                             | 1             | '56'   | Yes                 |
| '57' or 'D7'                              | Reserved for 3GPP (HNB name)                           | 1             | '57'   | Yes                 |
|   | Reserved for 3GPP (Extended rejection cause code       |               |  |                     |
|   | tag)   |               | 1501 ( 1551                                      |                     |
|   | RFU (only to be assigned if context specific re-use of |               | '58' to '5F'                                     |                     |
| 1001 1501                                 | other values is not possible)                          |               | lool   |                     |
| '60' or 'E0'                              | MAC  | 1             | '60'   | No                  |
| '61' or 'E1'                              | Reserved for 3GPP2 (3GPP2 Tag 3)                       | 1             | '61'   |                     |
| '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                 |
|   | Profile ID tag   | 1             |  |                     |
| '68' or 'E8'                              | Frame identifier tag                                   | 1             | '68'   | No                  |
| '69' or 'E9'                              | Reserved for 3GPP (UTRAN/E-UTRAN Measurement           | 1             | '69'   | Yes                 |
|   | Qualifier tag)   |               |  |                     |
| '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'                              | Reserved for 3GPP2 (3GPP2 tag 4)                       | 1             | '6D'   |                     |
| '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                 |
| 70 01 10                                  | Reserved for 3GPP (URI truncated)                      | 1             |  | . 00                |
| '74' or 'F4'                              | Reserved for 3GPP (Update/Attach Type tag)             | 1             | '74'   | Yes                 |
| 7 1 31 1 1                                | Reserved for 3GPP (ProSe Report Data Tag)              | 1             | 1 ' '  | 1.00                |
| '75' or 'F5'                              | Reserved for 3GPP (Rejection Cause Code tag)           | 1             | '75'   | Yes                 |
| '76' or 'F6'                              | Reserved for 3GPP (Geographical Location               | 1             | '76'   | Yes                 |
| 70 01 10                                  | Parameters tag)  | '             | 70   | 163                 |
|   | Reserved for 3GPP (IARI tag)                           | 1             |  |                     |
| '77' or 'F7'                              |  | 1             | '77'   | Yes                 |
| II VI EI                                  | Reserved for 3GPP (GAD Shapes tag)                     | ┤ '           | ''   | 169                 |
| 170' or 150'                              | Reserved for 3GPP (IMPU list tag)                      | 4             | '78'   | Yes                 |
| '78' or 'F8'                              | Reserved for 3GPP (NMEA sentence tag)                  | 1             | /8   | 168                 |
| 1701 1501                                 | Reserved for 3GPP (IMS Status Code tag)                |               | 1701   |                     |
| '79' or 'F9'                              | Reserved for 3GPP (PLMN List tag)                      | 1             | '79'   | Yes                 |
|   | Reserved for 3GPP (E-UTRAN Inter-frequency             |               |  |                     |
|   | Network Measurement Results tag)                       |               |  |                     |
| '7A' or 'FA'                              | Broadcast Network Information tag                      | 1             | '7A'   | Yes                 |
|   | Extended registry application data tag                 |               |  |                     |
| '7B' or 'FB'                              | ACTIVATE descriptor tag                                | 1             | '7B'   | Yes                 |

| COMPREHENSION<br>-TLV tag   | Card application toolkit data objects                            | Length of tag | Tag value,<br>bits 1 - 7 | Reassign (see note) |  |  |  |  |
|---|--|---------------|--------------------------|---------------------|--|--|--|--|
| (CR and Tag value)  |  | _             | (Range: '01' - '7E')     |                     |  |  |  |  |
| '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                 |  |  |  |  |
|   | Reserved for 3GPP (Media type tag)                               |               |                          |                     |  |  |  |  |
| 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

# 8 UICC Java Card Services

## 8.1 Service Names

done (no).

UICC Java Card Services are described in ETSI TS 102 241 [17].

Global services dedicated to UICC belong to the family "UICC Services (service ids assigned by ETSI)" and shall have the service family identifier 'A1'.

Service labels are defined in *uicc.system.servicesConstants* interface.

Table 8.1

| Service Name | Service Label                        | Document             |
|--------------|--------------------------------------|----------------------|
| 'A101'       | SERVICE_ID_HIGH_UPDATE_ARRAY_BUILDER | ETSI TS 102 241 [17] |

# Annex A (normative): Allocated ETSI PIX numbers

**Table A.1: Allocation of ETSI PIX** 

|   |                             | Decument     |  |                       |  |  |  |
|---|-----------------------------|--------------|--|-----------------------|--|--|--|
| 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       | ETSI TS 151 011 [6]   |  |  |  |
| GSM SIM toolkit                                   | 'A00000009'                 | '0002'       | See annex B for further coding details       | ETSI TS 101 267 [7]   |  |  |  |
| GSM SIM API                                       | 'A00000009'                 | '0003'       | See annex C for further coding details       | ETSI TS 143 019 [8]   |  |  |  |
| for Java™ Card                                    |                             |              |  |                       |  |  |  |
| TETRA   | 'A00000009'                 | '0004'       | See annex B for further coding details       | ETSI EN 300 812-3 [9] |  |  |  |
| UICC API for                                      | 'A00000009'                 | '0005'       | See annex I for further coding details       | ETSI TS 102 241 [17]  |  |  |  |
| Java Card™  |                             |              |  |                       |  |  |  |
| DVB CBMS  | 'A00000009'                 | '0101'       | See ETSI TS 102 474 [22] for further         | ETSI TS 102 474 [22]  |  |  |  |
| KMS   |                             |              | coding details                               |                       |  |  |  |
| M2MSM   | 'A00000009'                 | '0201'       | See ETSI TS 102 921 [32] for further         | ETSI TS 102 921 [32]  |  |  |  |
|   |                             |              | coding details                               |                       |  |  |  |
|   | 'A00000009'                 |              |  |                       |  |  |  |
|   | 'A00000009'                 |              |  |                       |  |  |  |
|   | 'A00000009'                 |              |  |                       |  |  |  |
|   | 'A00000009'                 |              |  |                       |  |  |  |
| AID Applica                                       | AID Application IDentifier. |              |  |                       |  |  |  |
| PIX Proprietary application Identifier eXtension. |                             |              |  |                       |  |  |  |
| RID Registered application provider IDentifier.   |                             |              |  |                       |  |  |  |
|   |                             |              | according to ISO/IEC 7816-5 [33], is 'A00    |                       |  |  |  |
|   |                             |              | chnical body, in charge of the application s |                       |  |  |  |
| the ETS   | SI Secretariat wh           | en the respe | ective ETSI document is withdrawn or renu    | ımbered.              |  |  |  |

# 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

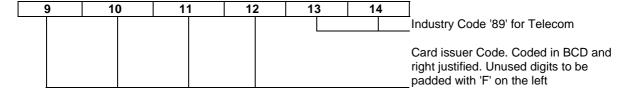
Coding: '0001', '0002' or '0004' as specified in clause 4.2.

Digits 5 to 8 Country code

Coding: As specified in clause 4.2.

Digits 9 to 14 Application provider code

Coding: As defined below.



Card issuer code and Industry code are coded in line with Recommendation ITU-T 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 ETSI TS 101 267 [7]), the coding is as defined below.

|                                  | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 |  |
|----------------------------------|----|----|----|----|----|----|----|----|--|
| Application Provider specific da |    |    |    |    |    |    |    |    |  |
| Foolkit Application Reference (  |    |    |    |    |    |    |    |    |  |

Toolkit Application Reference (TAR) as specified in ETSI 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

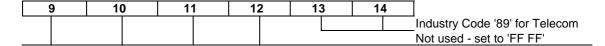
Coding: '0003' as specified in clause 4.2.

Digits 5 to 8 Not used

Coding: Set to 'FF FF'.

Digits 9 to 14 Industry code

Coding: As defined below.



| Ī | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |  |
|---|----|----|----|----|----|----|----|----|--|
| _ |    |    |    |    |    |    |    |    | If Digit 15 = '1', defined in ETSI<br>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'                                    | ETSI TS 102 226 [19]/compact data format                                    |  |  |
| Issuer Security Domain                              | 'B2 01 00'                                    | ETSI TS 102 226 [19]/expanded data format                                   |  |  |
|   |   | or automatic data format detection  |  |  |
|   | st level application issuer spec              | cific 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'                      |   |  |  |
| application issuel                                  | Remote File Management App                    | lications   |  |  |
| UICC Shared File System                             | 'B0 00 00' and                                | ETSI TS 102 226 [19]/compact data format                                    |  |  |
| Side charea i ne dystem                             | 'B0 00 02' to 'B0 00 0F'                      | 101 10 102 220 [13]/compact data format                                     |  |  |
| SIM File System                                     | 'B0 00 10' to 'B0 00 1F'                      | ETSI TS 131 116 [20]/compact data format                                    |  |  |
| ADF (see note 2)                                    | 'B0 00 01' and                                | ETSI 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'                      | ETSI TS 102 226 [19]/expanded data format                                   |  |  |
|   |   | or automatic data format detection  |  |  |
| SIM File System                                     | 'B0 01 30' to 'B0 01 3F'                      | ETSI TS 131 116 [20]/expanded data format                                   |  |  |
|   |   | or automatic data format detection  |  |  |
| ADF (see note 2)                                    | 'B0 01 40' to 'B0 01 FF'                      | ETSI TS 131 116 [20]/expanded data format                                   |  |  |
|   |   | or automatic data format detection  |  |  |
| RFU   | 'B0 02 00' to 'B0 FF FF'                      |   |  |  |
| Vis and Male its Decreased Tability                 | Payment Applications 'B1 00 00' to 'B1 00 05' |   |  |  |
| Visa® Mobile Payment Toolkit<br>Application         |   | Reserved for Visa® Inc.   |  |  |
| RFU   | 'B1 00 06' to 'B1 FF FF'                      |   |  |  |
|   | USAT Interpreter Applica                      |   |  |  |
| USAT Interpreter Application                        | 'B2 00 00' to 'B2 00 FF'                      | ETSI TS 131 114 [13]  |  |  |
| SCWS  | art Card Web Server (SCWS) A                  |   |  |  |
| SCWS administrative agent                           | 'B2 01 01'<br>'B2 01 02'                      | OMA-TS-Smartcard-Web-Server-V1.0 [25] OMA-TS-Smartcard-Web-Server-V1.0 [25] |  |  |
| Application   | B2 01 02                                      | OWA-13-Smartcard-Web-Server-V1.0 [23]                                       |  |  |
| 11  | Multiplexing Applicatio                       | n   |  |  |
| Multiplexing Application                            | 'B2 02 00'                                    | ETSI TS 102 225 [26]/automatic data format                                  |  |  |
|   |   | detection   |  |  |
|   | <b>Controlling Authority Security</b>         |   |  |  |
| Controlling Authority Security                      | 'B2 02 01'                                    | Global Platform Card Specification,   |  |  |
| Domain  |   | Amendment A [37]/automatic data format                                      |  |  |
| 0.  |   | detection   |  |  |
|   | martcard-Centric Audience Me                  |   |  |  |
| OMA BCAST Smartcard-Centric<br>Audience Measurement | 'B2 02 02'                                    | OMA "Mobile Broadcast Services" [31]  |  |  |
|   | ght Machine to Machine (LWM                   | 2M) SMS Socurity  |  |  |
| OMA DM LWM2M UICC                                   | B2 02 03'                                     | OMA "Lightweight Machine to Machine" [35]                                   |  |  |
| Application   | 52 02 00                                      | Own Charles and the Contracting [33]  |  |  |
| - 4-1aa   | Other reservations                            |   |  |  |
| Security Domain with Authorized                     | 'B2 02 10' to 'B2 02 1F'                      | Reserved for EMVCo  |  |  |
| Management privilege                                |   |   |  |  |
| Security Domain with Delegated                      | 'B2 02 20' to 'B2 02 2F'                      | Reserved for EMVCo  |  |  |
| Management privilege                                |   |   |  |  |
|   | Proprietary Toolkit Applica                   | ation   |  |  |
| Proprietary Toolkit Application                     | 'BF FF 00' to 'BF FF FF'                      |   |  |  |

|         | Application                     | TAR                                    | Document                                  |  |  |  |
|---------|---------------------------------|--|---|--|--|--|
|         |                                 |  | (see note 1)                              |  |  |  |
|         |                                 | Reserved for future assignm            | nents                                     |  |  |  |
| RFU     |                                 | All other values in the range          |   |  |  |  |
|         |                                 | of 'B0 00 00' to 'BF FF FF'            |   |  |  |  |
| NOTE 1: | It is the responsibility of the | e technical body, in charge of the     | e Toolkit Application standardization, to |  |  |  |
|         | inform the ETSI Secretaria      | at when the respective document        | is withdrawn or renumbered.               |  |  |  |
| NOTE 2: | ADF Remote File Manage          | ment applications file access is o     | defined in ETSI TS 102 226 [19].          |  |  |  |
| NOTE 3: | "CAT TP Multiplexing App        | lication" is part of the "Multiplexing | ng Application" category.                 |  |  |  |

# Annex E (normative): Allocated 3GPP PIX numbers

Table E.1: Allocated 3GPP PIX numbers

|   |              | 3G                | Application Identifiers                |                      |
|---|--------------|-------------------|--|----------------------|
| Application                                   |              |                   | AID                                    | Document             |
|   | RID          |                   | PIX                                    | (see note 2)         |
|   | (see note 1) | 3G<br>App<br>Code | Additional PIX coding                  |                      |
| 3GPP UICC (see note 3)                        | 'A00000087   | '1001'            | See annex F for further coding details | ETSI TS 131 101 [10] |
| 3GPP USIM                                     | 'A00000087   | '1002'            | See annex F for further coding details | ETSI TS 131 102 [11] |
| 3GPP USIM<br>toolkit                          | 'A00000087   | '1003'            | See annex G for further coding details | ETSI TS 131 111 [12] |
| 3GPP ISIM                                     | 'A00000087   | '1004'            | See annex F for further coding details | ETSI TS 131 103 [14] |
| 3GPP (U)SIM API for Java Card™                | 'A00000087   | '1005'            | See annex J for further coding details | ETSI TS 131 130 [18] |
| 3GPP ISIM API for Java Card™                  | 'A00000087   | '1006'            | See annex K for further coding details | ETSI TS 131 133 [24] |
| 3GPP Contact<br>Manager API for<br>Java Card™ | 'A00000087   | '1007'            | See annex L for further coding details | ETSI TS 131 221 [27] |
| 3GPP USIM-INI                                 | 'A00000087   | '1008'            | See annex F for further coding details | ETSI TS 131 102 [11] |
| 3GPP USIM-RN                                  | 'A00000087   | '1009'            | See annex F for further coding details | ETSI TS 131 102 [11] |
| 3GPP HPSIM                                    | 'A00000087   | '100A'            | See annex F for further coding details | ETSI TS 131 104 [36] |

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

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.

# 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

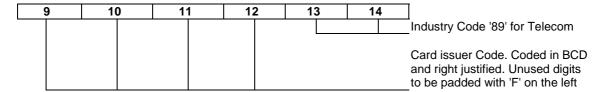
Coding: As specified in clause 4.2 and as shown in annex A.

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 Recommendation ITU-T 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

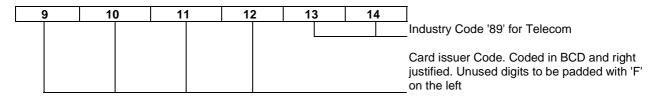
Coding: As specified in clause 4.2 and as shown in annex A.

Digits 5 to 8 Country code

Coding: As specified in clause 4.2.

Digits 9 to 14 Application provider code

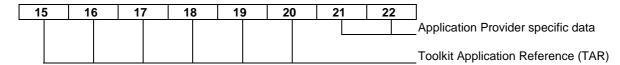
Coding: As defined below.



Card issuer code and Industry code are coded in line with Recommendation ITU-T 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 ETSI 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 ETSI TS 102 226 [19]).

Application Provider specific data: for application administration purposes.

# Annex H (normative): Tag allocation guidelines

This annex 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 tables in clause 7 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

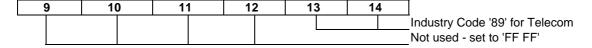
Coding: '0005' as specified in clause 4.2.

Digits 5 to 8 Not used

Coding: Set to 'FF FF'.

Digits 9 to 14 Industry code

Coding: As defined below.



| 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 7   |
|----|----|----|----|----|----|----|----|---|
|    |    |    |    |    |    |    |    | If Digit 15 = '1', defined in ETSI<br>TS 102 241 [17] |
|    |    |    |    |    |    |    |    | -<br>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

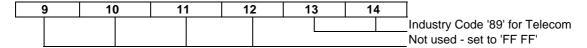
Coding: '1005' as specified in clause 4.2.

Digits 5 to 8 Not used

Coding: Set to 'FF FF'.

Digits 9 to 14 Industry code

Coding: As defined below.



| 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |   |
|----|----|----|----|----|----|----|----|---|
|    |    |    |    |    |    |    |    | If Digit 15 = '1', defined in ETSI<br>TS 131 130 [18] |
|    |    |    |    |    |    |    |    | –<br>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

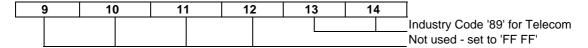
Coding: '1006' as specified in clause 4.2.

Digits 5 to 8 Not used

Coding: Set to 'FF FF'.

Digits 9 to 14 Industry code

Coding: As defined below.



| 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 1   |
|----|----|----|----|----|----|----|----|---|
|    |    |    |    |    |    |    |    | If Digit 15 = '1', defined in ETSI<br>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

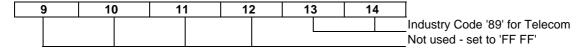
Coding: '1007' as specified in clause 4.2.

Digits 5 to 8 Not used

Coding: Set to 'FF FF'.

Digits 9 to 14 Industry code

Coding: As defined below.



| 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | ]   |
|----|----|----|----|----|----|----|----|---|
|    |    |    |    |    |    |    |    | If Digit 15 = '1', defined in ETSI<br>TS 131 221 [27] |
|    |    |    |    |    |    |    |    | -<br>API Type, '1' for Java Card                      |

# Annex M (normative): Allocated 3GPP2 PIX numbers

Table M.1: Allocated 3GPP2 PIX numbers

|             | 3GPP2 Application Identifiers |                                   |  |                      |  |  |  |  |  |  |  |  |  |  |
|-------------|-------------------------------|-----------------------------------|--|----------------------|--|--|--|--|--|--|--|--|--|--|
| Application | Application AID               |                                   |  |                      |  |  |  |  |  |  |  |  |  |  |
|             | RID                           |                                   | PIX                                    | (see note 2)         |  |  |  |  |  |  |  |  |  |  |
|             | (see note 1)                  | 3G<br>App Code<br>(see note<br>3) | Additional PIX coding                  |                      |  |  |  |  |  |  |  |  |  |  |
| 3GPP2 CSIM  | 'A00000343'                   | '1002'                            | See annex F for further coding details | 3GPP2 C.S0065-0 [28] |  |  |  |  |  |  |  |  |  |  |

- NOTE 1: The 3GPP2 RID, as registered by ISO/IEC according to ISO/IEC 7816-5 [33], 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 (normative): Allocated oneM2M PIX numbers

Table N.1: Allocated oneM2M PIX numbers

|                             |              | oneM2M   | Application Identifiers                             |                      |  |  |  |  |
|-----------------------------|--------------|----------|---|----------------------|--|--|--|--|
| Application                 |              |          | AID   | Document             |  |  |  |  |
|                             | RID PIX      |          |   |                      |  |  |  |  |
|                             | (see note 1) | App Code | Additional PIX coding                               |                      |  |  |  |  |
| oneM2M UICC<br>(see note 3) | 'A000000645  | '1001'   | See annex F for further coding details              | ETSI TS 118 103 [34] |  |  |  |  |
| oneM2M<br>1M2MSM            | 'A00000645   | '1002'   | See ETSI TS 118 103 [34] for further coding details | ETSI TS 118 103 [34] |  |  |  |  |

NOTE 1: The oneM2M RID, as registered by ISO/IEC according to ISO/IEC 7816-5 [33], is 'A000000645'.

NOTE 2: It is the responsibility of the oneM2M technical body, in charge of the application standardization, to inform the ETSI Secretariat when the respective document is withdrawn or renumbered.

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

# Annex O (informative): Bibliography

- ETSI EG 201 220: "Integrated Circuit Cards (ICC); ETSI numbering system for telecommunication; Application providers (AID)".
- ETSI TS 102 223: "Smart Cards; Card Application Toolkit (CAT)".
- ETSI TR 121 905: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); Vocabulary for 3GPP Specifications (3GPP TR 21.905)".

# Annex P (informative): Change history

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

| Date    | Meeting                                       | Plenary Doc              | CR         | Rev      | Cat      | e history Subject/Comment   | Old   | New   |
|---------|---|--------------------------|------------|----------|----------|---|-------|-------|
| 1997-10 | Wiceting                                      | r lenary Doc             | CIX        | IVEA     | Cat      | TC ICC published version 1.2.1. The on-going                                    | Old   | INCW  |
| 1007 10 |   |                          |            |          |          | maintenance of this deliverable was   |       |       |
|         |   |                          |            |          |          | subsequently transferred from TC ICC to TC                                      |       |       |
|         |   |                          |            |          |          | SMG when TC ICC was closed in early 1998.                                       |       | 1.2.1 |
| 1998-10 | SMG #27                                       | 98-0673                  |            |          | В        | Addition of normative annex C, introducing                                      | 1.2.1 |       |
| 1000.00 | CMC #30                                       | D 00 445                 |            |          | В        | AID coding for GSM and Toolkit Applications.                                    | 120   | 1.3.0 |
| 1999-09 | SMG #29                                       | P-99-415                 |            |          | В        | Addition of normative annex D, introducing AID coding for SIM Toolkit packages. | 1.3.0 | 1.4.0 |
| 2000-05 | SMG #31                                       | P-00-142                 |            |          | F        | Alignment of the AID allocation procedure.                                      | 1.4.0 | 3.0.0 |
| 2000 00 |   | P-00-142                 |            |          | В        | Definition of an AID for TETRA.   | 1.4.0 | 0.0.0 |
|         |   |                          |            |          |          | 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 ETSI 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                                    | 3.0.0 | 0.4.0 |
| 2001-03 | SCP-05  | SCP-010137               | 007        |          | В        | packages. Toolkit Application Reference (TAR)                                   | 3.1.0 | 3.1.0 |
| 2001-03 | SCP-05  | 3CP-010137               | 007        |          | Ь        | management.   | 3.1.0 | 3.2.0 |
|         |   | SCP-010138               | 008        |          | В        | Incorporation of 3GPP AID specification.  |       | 3.2.0 |
| 2001-07 | SCP-06  | SCP-010174               | 009        |          | F        | Clarification of the specification number of the                                | 3.2.0 |       |
|         |   |                          |            |          |          | application provider code in annex F.   |       | 3.3.0 |
| 2001-10 | SCP-07  | SCP-010308               | 010        |          | С        | Allocation of new TAR values for Remote File                                    | 3.3.0 |       |
|         |   |                          |            |          |          | Management.   |       | 4.0.0 |
| 2001-12 | SCP-08  | SCP-010387               | 011        |          | F        | Correction to allocation of TAR values for                                      | 4.0.0 |       |
|         |   |                          |            |          |          | "Remote File Management Applications" clause.                                   |       | 4.1.0 |
| 2002-06 | SCP-10  | SCP-020156               | 012        |          | В        | Allocation of TAR values for the USAT   | 4.1.0 | 4.1.0 |
| 2002 00 | 001-10  | 001-020100               | 012        |          |          | Interpreter.  | 4.1.0 | 5.0.0 |
|         |   |                          | 013        |          | В        | Addition of ISIM AID.   |       |       |
| 2003-01 | SCP-12  | SCP-030060               | 016        |          | D        | Remove UICC as an abbreviation to align with                                    | 5.0.0 |       |
|         |   |                          |            |          |          | 3GPP TR 21 905.   |       | 6.0.0 |
|         |   | SCP-030077               | 014        | 2        | В        | Definition of TLV Forms and TLV Tag Value                                       |       |       |
|         | -   | CCD 020094               | 015        |          | В        | Tables.   |       |       |
| 2003-05 | SCP-13  | SCP-030081<br>SCP-030160 | 015<br>017 |          | B        | Update of Statement of Scope. BER-TLV Tag Reservation for card application      | 6.0.0 |       |
| 2003-03 | 301-13  | 301-030100               | 017        |          |          | communication.  | 0.0.0 | 6.1.0 |
|         |   | SCP-030112               | 018        |          | В        | Allocation of AID for the uicc.* packages.                                      |       | 0.1.0 |
| 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   |       |       |
|         |   |                          |            | 1        |          | normative.  |       |       |
|         |   |                          | 021        | <u> </u> | В        | Allocation of AID for the uicc.usim.* packages.                                 |       |       |
|         |   |                          | 022        | 1        | D        | Correction of reference to ETSI TS 102 241.                                     |       |       |
|         |   |                          | 024        |          | F        | Alignment of ETSI TS 101 220 with ETSI TS                                       |       |       |
|         |   |                          |            |          |          | 102 226 and TS 31.116 Release 6 specifications.                                 |       |       |
|         |   | SCP-030479               | 025        | +        | В        | New Comprehension TLV Tag for IMEISV.   |       |       |
|         | †   | 30. 300-13               | 026        | +        | F        | Alignments regarding tag 86.  | 6.2.0 | 6.3.0 |
|         | 1   |                          | 029        |          | F        | Tag allocation for new comprehension TLV:                                       | 5.2.0 | 2.3.0 |
|         | <u>                                      </u> |                          |            |          |          | Battery State.  |       |       |
|         |   |                          | 030        |          | В        | Tag reservation for Browsing status event in                                    | 1     |       |
|         | 1   |                          |            |          | <u> </u> | CAT.  |       |       |
|         |   | SCP-040033               | 032        |          | В        | Allocation of tags for Fill and Repeat Pattern.                                 |       | 1     |
|         |   | SCP-040088               | 033        | 1        | С        | Removal of EIA/TIA-136 Tags.  |       |       |

| Date    | Meeting  | Plenary Doc              | CR         | Rev | Chang<br>Cat | e history Subject/Comment   | Old    | New    |
|---------|----------|--------------------------|------------|-----|--------------|---|--------|--------|
| 2004-05 | SCP#17   | SCP-040235               | 034        | Rev | D            | Transfer of the COMPREHENSION-TLV Tags                                      | 6.3.0  | New    |
| 2004-03 | 30F#17   | 30F-040233               | 034        |     |              | from ETSI TS 102 223.   | 0.3.0  | 6.4.0  |
|         |          |                          | 035        |     | В            | Allocation of new tag values for Expanded                                   |        | 0.1.0  |
|         |          |                          |            |     |              | 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.                                       |        |        |
| 000444  | 000,40   | SCP-040352               | 039        |     | F            | Tag reservation for 3GPP features.  | 0.5.0  | 0.00   |
| 2004-11 | SCP#19   | SCPt040286               | 040        | 2   |              | BER-TLV reservation for 3GPP feature.                                       | 6.5.0  | 6.6.0  |
|         |          | SCPt040272<br>SCP-040470 | 041<br>043 | +   |              | Clarification for non-specific references. Alignments with ETSI TS 131 111. |        |        |
|         |          | SCPt040300               | 043        |     |              | Clarification of length coding for TLV.                                     | 6.6.0  | 7.0.0  |
|         |          | SCPt040336               | 039        |     |              | Classification on List of allocated BER-TLV tag                             | 0.0.0  | 7.0.0  |
|         |          | 00.10.0000               |            |     |              | 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 series.                     |        |        |
|         |          | SCPt050166               | 048        |     | В            | Allocation of TAR values for ADF Remote File                                | -      |        |
|         |          | 3CF1030100               | 046        |     | Ь            | Management Applications.  |        |        |
| 2005-09 | SCP#22   | SCP-050282               | 050        | 1   | В            | 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        |     | В            | Reservation of Comprehension-TLV tags for                                   | 1      |        |
|         |          |                          |            |     |              | 3GPP related to the new I-WLAN bearer in                                    |        |        |
|         |          |                          |            |     |              | 3GPP.   |        |        |
| 2006-03 | SCP#25   | SCP-060152               | 056        |     | D            | Removal of double quotes.   | 7.4.0  | 7.5.0  |
| 2006-07 | SCP#26   | SCP-060244               | 055        | 2   | В            | Addition of specific UICC environmental                                     | 7.5.0  |        |
|         |          | 000 000050               | 050        | 1   | _            | conditions tag.   |        |        |
|         |          | SCP-060253               | 059        | 1   | В            | Addition of supported system command tag.                                   |        |        |
|         |          | SCP-060289               | 060        |     | В            | Reservation of Application code for DVB CBMS KMS.                           |        | 7.6.0  |
| 2006-09 | SCP#27   | SCP-060474               | 064        | 1   | F            | Clarify 3GPP UICC AID.  | 7.6.0  | 7.0.0  |
| 2000-03 | 301 #21  | SCP-060466               | 062        | 1   | F            | Correction of Terminal capability indication                                | 7.0.0  |        |
|         |          | 001-000-00               | 002        |     | '            | mechanism.  |        |        |
|         |          | SCP-060486               | 066        | 1   | В            | Tags for error responses for wrong TLVs.                                    | 1      | 7.7.0  |
| 2007-01 | SCP#29   | SCP-070018               | 061        | 2   | В            | Addition of tag for the Extension of the number                             | 7.7.0  |        |
|         |          |                          |            |     |              | of logical channels.  |        |        |
|         |          |                          | 067        |     | В            | Introduction of an PIX coding for the ISIM API                              |        |        |
|         |          |                          |            |     |              | for Java Card™ TS 31.133.   |        |        |
|         |          | SCP-070055               | 068        | 2   | В            | Tags for Remote Management Actions.   |        | 7.8.0  |
| 2007-05 | SCP#30   | SCP-070133               | 069        | 1   | В            | Allocation of TAR values for the OMA SCWS                                   | 7.8.0  |        |
|         |          | SCP-070175               | 063        | 1   | В            | and administrative agent.  Modification of tags for RFM with script         |        |        |
|         |          | SCP-0/01/5               | 063        | '   | P            | chaining.   |        | 7.9.0  |
| 2007-07 | SCP#31   | SCP-070275               | 065        | 4   | В            | Tags for Launch Application feature.  | 7.9.0  | 7.10.0 |
| 2007-08 | SCP#32   | SCP-070315               | 070        | -   | C            | Reservation of Tag values for 3GPP.   | 7.10.0 | 7.11.0 |
| 2007-10 | SCP#33   | SCP-070422               | 072        | -   | В            | Addition of support for the UICC-CLF  | 7.11.0 | 7.12.0 |
|         |          |                          |            |     |              | interface.  |        |        |
| 2007-10 | SCP#33   | SCP-070426               | 071        | -   | В            | TAR reservation for CAT TP Multiplexing.                                    | 7.12.0 | 8.0.0  |
| 2008-01 | SCP#35   | SCP-080014               | 073        | 1   | В            | Tag reservation related to addition of Network                              | 8.0.0  | 8.1.0  |
|         |          |                          |            |     |              | Rejection in 3GPP TS 31.111.  |        |        |
| 2008-07 | SCP#38   | SCPt080298               | 074        | 2   | В            | Reserve a CAT template value for proprietary                                | 8.1.0  | 8.2.0  |
|         |          |                          |            |     |              | use.  |        |        |
| 2008-07 | SCP#38   | SCP-080372               | 075        | 1   | В            | TLV reservation for Secure Channel.   | 8.1.0  | 8.2.0  |
| 2008-10 | SCP#39   | SCP-080440               | 076        | -   | В            | Tag reservation related to addition of                                      | 8.2.0  | 8.3.0  |
|         |          |                          |            |     |              | Geographical Location Request in 3GPP TS 31.111.                            |        |        |
| 2008-10 | SCP#39   | SCP-080433               | 077        | -   | F            | Correction to Toolkit Application Reference                                 | 8.2.0  | 8.3.0  |
| 2000-10 | 30F#38   | 30F -000433              | 0//        | -   | [            | listing and ISIM PIX number.  | 0.2.0  | 0.3.0  |
| 2008-10 | SCP#39   | SCP-080433               | 078        | -   | В            | PIX Reservation for 3GPP Contact Manager                                    | 8.2.0  | 8.3.0  |
| _000 10 | 30. 1100 | 33. 300-00               | 0.0        |     |              | API for Java Card.  | 0.2.0  | 0.5.0  |
| 2008-10 | SCP#39   | SCP-080424               | 079        | -   | С            | Introduction of the RID for 3GPP2 CSIM                                      | 8.2.0  | 8.3.0  |
|         |          |                          |            | L   | $\perp$      | application.  |        |        |
| 2008-10 | SCP#39   | SCP-080440               | 080        | -   | В            | Tag reservation related to addition of                                      | 8.2.0  | 8.3.0  |
|         |          |                          |            |     |              | Broadcast Network Information in ETSI TS                                    |        |        |
|         |          |                          |            |     |              | 102 223.  |        |        |
| 2008-10 | SCP#39   | SCP-080428               | 081        | -   | В            | TAR reservation for the Controlling Authority Security Domain.              | 8.2.0  | 8.3.0  |
|         | 1        |                          |            |     |              |   |        |        |

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|--------------------|------------------|------------------------------|------------|----------|-------|---|--------|--------|
| 2008-10            | SCP#39           | SCP-080433                   | 082        | -        | В     | Extending TARs for automatic application data   | 8.2.0  | 8.3.0  |
|                    |                  |                              |            |          |       | format detection.   |        |        |
| 2009-01            | SCP#40           | SCP-090019                   | 083        | -        | В     | Tag reservation for ACTIVATE command.   | 8.3.0  | 8.4.0  |
| 2009-01            | SCP#40           | SCP-090063                   | 084        | 1        | В     | 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        | В     | 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  |
| 2009-04            | SCP#41           | SCP-090114                   | 087        | -        | В     | Reservation of tag values for OMA and GlobalPlatform.   | 8.4.0  | 9.0.0  |
| 2009-04            | SCP#41           | SCP-090137                   | 088        | -        | В     | 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        | -        | В     | Addition of WiMAX and OMA RIDs.   | 8.4.0  | 9.0.0  |
| 2009-10            | SCP#43           | SCP-090322                   | 090        | -        | В     | 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        | С     | Generalized use of the Multiplexing Application.  | 9.0.0  | 9.1.0  |
| 2009-10            | SCP#43           | SCP-090322                   | 092        | -        | В     | TAR reservation for EMVCo.  | 9.0.0  | 9.1.0  |
| 2009-10            | SCP#43           | SCP-090322                   | 093        | -        | В     | Tag reservation of the contactless functionality control.   | 9.0.0  | 9.1.0  |
| 2010-03            | SCP#44           | SCP(10)0058                  | 094        | -        | В     | Reservation of Tag values for 3GPP.   | 9.1.0  | 9.2.0  |
| 2010-07            | SCP#45           | SCP(10)0144                  | 097        | 1        | В     | 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        | -        | С     | 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        | •     | Correction of tag description for Network Measurement Results (3GPP).   | 10.1.0 | 10.2.0 |
| 2011-01            | SCP#47           | SCP(11)0037r1                | 104        | -        | В     | TAR allocation for Visa® Inc.   | 10.1.0 | 10.2.0 |
| 2011-03<br>2011-05 | SCP#48<br>SCP#49 | SCP(11)0091<br>SCP(11)0186r1 | 105<br>106 | 1        | B     | Allocation of URI tag.  Addition of 3G App codes for USIM-INI and   | 10.2.0 | 10.3.0 |
|                    | SCP#49           | SCP(11)018011                | 100        | <u> </u> | В     | USIM-RN.  Addition of re-assignment indication for 3GPP-  | 10.3.0 | 11.0.0 |
| 2011-05            |                  |                              |            | -        | В     | reserved COMPREHENSION-TLV tag values and addition of COMPREHENSION-TLV tag values for 3GPP IARI IMPU list IMS Status Code.               |        |        |
| 2011-05            | SCP#49           | SCP(11)0173r1                | 108        | -        | В     | 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        | -        | В     | CR 101 220 R11 #111: Allocation of COMPREHENSION-TLV Tag Value for 3GPP2 Emergency Call.  | 11.0.0 | 11.1.0 |
| 2012-12            | SCP#57           | SCP(12)000266                | 112        |          | В     | Tags for encapsulated CAT secure channel Tag value for "MAC" is '60' as '61' was already assigned to "3GPP2 (Emergency Call Object Tag)". | 11.1.0 | 12.0.0 |
| 2012-12            | SCP#57           | SCP(12)000262                | 114        |          | В     | ID for the High Update Arrays GP Global Service.  | 11.1.0 | 12.0.0 |
| 2012-12            | SCP#57           | SCP(12)000291r1              | 115        |          | В     | Addition of M2MSM ETSI app code and M2M service Tag.  | 11.1.0 | 12.0.0 |
| 2013-07            | SCP #60          | SCP(12)000259r1              | 113        | 1        |       | Allocation of COMPREHENSION-TLV tag value for refresh enforcement policy.   | 11.1.0 | 12.0.0 |
| 2013-07            | SCP #60          | SCP(13)000153                | 116        | 1        |       | Tag for CAT service list.   | 11.1.0 | 12.0.0 |
| 2013-07            | SCP #60          | SCP(13)000158r1              | 118        | -        |       | Tag for DNS Server Address.   | 11.1.0 | 12.0.0 |
| 2013-07            | SCP #60          | SCP(13)000172r1              | 119        | -        |       | Correction of RID registration.   | 11.1.0 | 12.0.0 |
| 2013-07            | SCP#60           | SCP(13)000154                | 117        |          | Ь     | Generic MO short message control support.   | 11.1.0 | 12.0.0 |
| 2013-10            | SCP#61           | SCP(13)000252r1              | 121        |          | В     | Allocation of tag values for new TLV objects defined in 3GPP.   | 12.0.0 | 12.1.0 |
| 2014-02            | SCP#62           | SCP(14)000036                | 122        |          | D     | Modifications for 3GPP2 CCAT Specification Update.  | 12.0.0 | 12.1.0 |
| 2014-04            | SCP#63           | SCP(14)000092                | 123        |          | В     | Add TLV tag support for 3GPP2 USSD.   | 12.0.0 | 12.1.0 |
| 2014-04            | SCP#63           | SCP(14)000093                | 124        |          | С     | Deletion of tag value for IP Address List and Surrounding macrocells TLV objects (3GPP request).  | 12.0.0 | 12.1.0 |

| Change history |         |                      |       |     |     |  |        |        |
|----------------|---------|----------------------|-------|-----|-----|--|--------|--------|
| Date           | Meeting | Plenary Doc          | CR    | Rev | Cat | Subject/Comment  | Old    | New    |
| 2014-06        | SCP#64  | SCP(14)000164        | 125   |     | В   | Allocation of tag value for PLMN ID defined in 3GPP.                                   | 12.0.0 | 12.1.0 |
| 2014-06        | SCP#64  | SCP(14)000196r1      | 126   |     | В   | Attribution of AID and Tag for oneM2M.   | 12.0.0 | 12.1.0 |
| 2014-12        | SCP#66  | SCP(14)000278        | 127   |     | В   | Tag allocation for Platform to Platform CAT Secured APDU.                              | 12.0.0 | 12.1.0 |
| 2014-14        | SCP#66  | SCP(14)000318        | 128   |     | В   | Allocation of TAR value for OMA LWM2M SMS security.                                    | 12.0.0 | 12.1.0 |
| 2014-12        | SCP#66  | SCP(14)000344r1      | 129   |     | В   | Allocation of 3G application code for 3GPP (HPSIM - TS 31.104).                        | 12.0.0 | 12.1.0 |
| 2015-02        | SCP#67  | SCP(15)000073r2      | 130   |     | F   | Tag reservation for 3GPP usage.  | 12.0.0 | 12.1.0 |
| 2015-04        | SCP#68  | SCP(15)0000113r<br>1 | 132r1 |     | В   | Allocation of tag value for Supported Radio Access Technologies.                       | 12.1.0 | 13.0.0 |
| 2015-06        | SCP#69  | SCP(15)000165        | 133   |     | В   | Alignment with 3GPP CT6 tag assignment.  | 12.1.0 | 13.0.0 |
| 2016-07        | SCP#74  | SCP(16)000137        | 137   |     | В   | Addition of eUICC operation command.   | 13.0.0 | 14.0.0 |
| 2016-07        | SCP#74  | SCP(16)000148        | 138   |     | В   | New Remote Management Application Data Template BER-TLV Tag.                           | 13.0.0 | 14.0.0 |
| 2017-06        | SCP#79  | SCP(17)000076        | 139   |     | В   | Tag for application specific refresh data.   | 13.0.0 | 14.0.0 |
| 2017-06        | SCP#79  | SCP(17)000081r1      | 144   |     | F   | Creation of Rel-14 version of the specification and implementation of outstanding CRs. | 13.0.0 | 14.0.0 |
| 2017-09        | SCP#80  | SCP(17)000132        | 145   |     | В   | Allocation of values reserved for 3GPP.  | 14.0.0 | 15.0.0 |
| 2019-03        | SCP#87  | SCP(19)000042        | 146   |     | В   | Tag for GSMA   | 15.0.0 | 15.1.0 |

# History

| Document history |              |             |  |  |  |  |  |
|------------------|--------------|-------------|--|--|--|--|--|
| V15.0.0          | January 2018 | Publication |  |  |  |  |  |
| V15.1.0          | May 2019     | Publication |  |  |  |  |  |
|                  |              |             |  |  |  |  |  |
|                  |              |             |  |  |  |  |  |
|                  |              |             |  |  |  |  |  |