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Technical Specification

Smart Cards; ETSI numbering system for telecommunication application providers (Release 8)



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Foreword

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1 Scope

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

2 References

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

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

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

- | | |
|-----|--|
| [1] | Void. |
| [2] | ITU-T Recommendation E.164: "The international public telecommunication numbering plan". |
| [3] | ISO/IEC 7816-4: "Identification cards - Integrated circuit cards - Part 4: Organization, security and commands for interchange". |
| [4] | ITU-T Recommendation E.118: "The international telecommunication charge card". |
| [5] | Void. |
| [6] | ETSI TS 151 011: "Digital cellular telecommunications system (Phase 2+); Specification of the Subscriber Identity Module - Mobile Equipment (SIM-ME) interface (3GPP TS 51.011)". |
| [7] | ETSI TS 101 267: "Digital cellular telecommunications system (Phase 2+); Specification of the SIM Application Toolkit (SAT) for the Subscriber Identity Module - Mobile Equipment (SIM-ME) interface (3GPP TS 11.14)". |
| [8] | ETSI TS 143 019: "Digital cellular telecommunications system (Phase 2+); Subscriber Identity Module Application Programming Interface (SIM API) for Java Card; Stage 2 (3GPP TS 43.019)". |

- [9] ETSI EN 300 812-3: "Terrestrial Trunked Radio (TETRA); Subscriber Identity Module to Mobile Equipment (SIM-ME) interface; Part 3: Integrated Circuit (IC); Physical, logical and TSIM application characteristics".
- [10] ETSI TS 131 101: "Universal Mobile Telecommunications System (UMTS); UICC-terminal interface; Physical and logical characteristics (3GPP TS 31.101)".
- [11] ETSI TS 131 102: "Universal Mobile Telecommunications System (UMTS); Characteristics of the Universal Subscriber Identity Module (USIM) application (3GPP TS 31.102)".
- [12] ETSI TS 131 111: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); Universal Subscriber Identity Module (USIM) Application Toolkit (USAT) (3GPP TS 31.111)".
- [13] ETSI TS 131 114: "Universal Mobile Telecommunications System (UMTS); Universal Subscriber Identity Module Application Toolkit (USAT) interpreter protocol and administration (3GPP TS 31.114)".
- [14] ETSI TS 131 103: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); Characteristics of the IP Multimedia Services Identity Module (ISIM) application (3GPP TS 31.103)".
- [15] ISO/IEC 8825-1: "Information technology - ASN.1 encoding rules: Specification of Basic Encoding Rules (BER), Canonical Encoding Rules (CER) and Distinguished Encoding Rules (DER)".
- [16] ISO/IEC 7816-6: "Identification cards - Integrated circuit cards - Part 6: Interindustry data elements for interchange".
- [17] ETSI TS 102 241: "Smart cards; UICC Application Programming Interface (UICC API) for Java Card (TM) (Release 7)".
- [18] ETSI TS 131 130: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); (U)SIM Application Programming Interface (API); (U)SIM API for Java Card (3GPP TS 31.130)".
- [19] ETSI TS 102 226: "Smart cards; Remote APDU structure for UICC based applications (Release 6)".
- [20] ETSI TS 131 116: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); Remote APDU Structure for (Universal) Subscriber Identity Module (U)SIM Toolkit applications (3GPP TS 31.116)".
- [21] Void.
- [22] ETSI TS 102 474: "Digital Video Broadcasting (DVB); IP Datacast over DVB-H: Service Purchase and Protection".
- [23] ETSI TS 102 223: "Smart Cards; Card Application Toolkit (CAT)".
- [24] ETSI TS 131 133: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); IP Multimedia Services Identity Module (ISIM) Application Programming Interface (API); ISIM API for Java CardTM (3GPP TS 31.133)".
- [25] OMA-TS-Smartcard-Web-Server-V1-0 Available from <http://www.openmobilealliance.org>.
- [26] ETSI TS 102 225: "Smart Cards; Secured Packet structure for UICC-based applications".

2.2 Informative references

The following referenced documents are not essential to the use of the present document but they assist the user with regard to a particular subject area. For non-specific references, the latest version of the referenced document (including any amendments) applies.

- [i.1] ETSI TR 121 905: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); Vocabulary for 3GPP Specifications (3GPP TR 21.905)".

3 Definitions and abbreviations

3.1 Definitions

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

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

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

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

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

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

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

telecommunication IC card application: application described by an ETSI document

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

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

3.2 Abbreviations

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

| | |
|------|--|
| AID | Application Identifier |
| AP | Application Provider |
| API | Application Program Interface |
| BCD | Binary Coded Decimal |
| BER | Basic Encoding Rules |
| CR | Comprehension Required |
| DECT | Digital Enhanced Cordless Telecommunications |
| GSM | Global System for Mobile communication |
| IC | Integrated Circuit(s) |
| ICC | Integrated Circuit Card |
| ID | Identifier |
| ISIM | IP Multimedia Services Identity Module |

| | |
|-------|--|
| PIX | Proprietary application Identifier eXtension |
| RFU | Reserved for Future Use |
| RID | Registered application provider IDentifier |
| SIM | Subscriber Identity Module |
| TAR | Toolkit Application Reference |
| TETRA | TErrestrial TRunked RAdio |
| TLV | Tag-Length-Value |
| UPT | Universal Personal Telecommunications |
| URL | Uniform Resource Locator |
| USAT | USIM Application Toolkit |
| USIM | Universal Subscriber Identity Module |
| USSD | Unstructured Supplementary Services Data |

4 Structure of the Application IDentifier (AID)

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

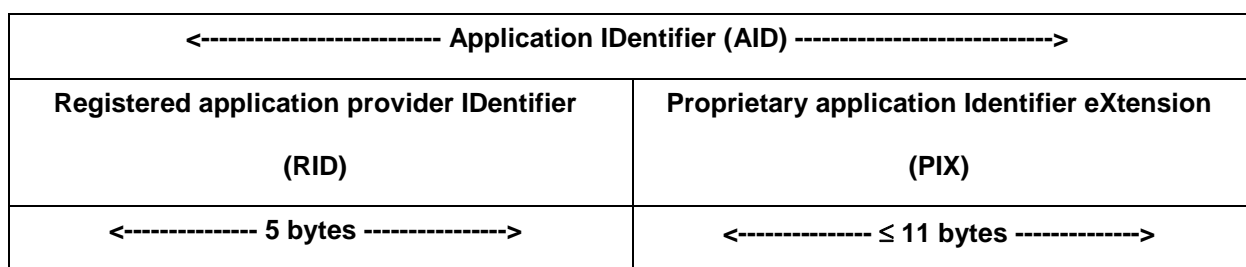


Figure 4.1: AID structure

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

4.1 Registered application provider IDentifier (RID)

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

- 'A000000009' for ETSI;
- 'A000000087' for the 3GPP.

4.2 Proprietary application Identifier eXtension (PIX)

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

Digits 1 to 4

Application code

Purpose: To be used for identification of the standardized ETSI or 3G card application (e.g. GSM, DECT, UPT, pre-paid application). Different versions of an application may have individual codings.

Management: Assigned by ETSI on request from the ETSI or 3G technical body responsible for the document in question.

Coding: Hexadecimal. The coding indicates the ETSI or 3G document that specifies the standardized ETSI or 3G card application and the PIX number. The correspondence between digits 1 to 4 and the ETSI or 3G document in question can be seen in a list maintained by the ETSI Secretariat (see annex A). Escape value '0000' is reserved for use by the ETSI Secretariat for proprietary ETSI or 3G applications.

Digits 5 to 8**Country code**

Purpose: To indicate the country of the application provider of the ETSI or 3G standardized application.

Coding: According to ITU-T Recommendation E.164 [2]. The coding is right justified and padded with 'F' on the left.

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

Digits 9 to 14**Application provider code**

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

Coding: According to ITU-T Recommendation E.118 [4]. Hexadecimal. The coding is right justified and padded with 'F' on the left.

Digits 15 up to 22**Application provider field Optional. Up to 8 digits**

Purpose: The use of this field is entirely up to the application provider. It may, for instance, be used to indicate "local" versions, revisions, etc. of the ETSI or 3G standardized application. According to ISO/IEC 7816-4 [3], if the AID is 16 bytes long, then the value 'FF' for the least significant byte (digits 21 and 22) is reserved for future use.

Management: Application provider.

Coding: Hexadecimal.

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

5 Use of the Application Identifier (AID)

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

6 Toolkit Application Reference (TAR)

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

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

A second level application may have several TAR values assigned.

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

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

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

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

Table 6.1: TAR and application categories

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

7 Tag-Length-Value (TLV) data objects

7.1 TLV data object forms

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

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

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

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

7.1.1 COMPREHENSION-TLV tag coding

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

The value of the first byte identifies the format used.

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

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

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

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

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

7.1.1.1 Single byte format

The tag is coded over one byte.

| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
|----|-----------|---|---|---|---|---|---|
| CR | Tag value | | | | | | |

CR: Comprehension required for this object.

7.1.1.2 Three-byte format

The tag is coded over three bytes.

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

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

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

7.1.2 Length encoding

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

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

7.2 Assigned TLV tag values

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

| COMPREHENSION-TLV tag (CR and Tag value) | Card application toolkit data objects | Length of tag | Tag value, bits 1-7 (Range: '01' - '7E') |
|---|---|---------------|---|
| '01' or '81' | Command details tag | 1 | '01' |
| '02' or '82' | Device identity tag | 1 | '02' |
| '03' or '83' | Result tag | 1 | '03' |
| '04' or '84' | Duration tag | 1 | '04' |
| '05' or '85' | Alpha identifier tag | 1 | '05' |
| '06' or '86' | Address tag | 1 | '06' |
| '07' or '87' | Capability configuration parameters tag | 1 | '07' |
| '08' or '88' | Subaddress tag | 1 | '08' |
| '09' or '89' | Reserved for GSM/3G (SS string tag) | 1 | '09' |

| COMPREHENSION-TLV tag (CR and Tag value) | Card application toolkit data objects | Length of tag | Tag value, bits 1-7 (Range: '01' - '7E') |
|---|---|---------------|---|
| '0A' or '8A' | Reserved for GSM/3G (USSD string tag) | 1 | '0A' |
| '0B' or '8B' | Reserved for GSM/3G (SMS TPDU tag) | 1 | '0B' |
| '0C' or '8C' | Reserved for GSM/3G (Cell Broadcast page tag) | 1 | '0C' |
| '0D' or '8D' | Text string tag | 1 | '0D' |
| '0E' or '8E' | Tone tag | 1 | '0E' |
| '0F' or '8F' | Item tag | 1 | '0F' |
| '10' or '90' | Item identifier tag | 1 | '10' |
| '11' or '91' | Response length tag | 1 | '11' |
| '12' or '92' | File List tag | 1 | '12' |
| '13' or '93' | Location Information tag | 1 | '13' |
| '14' or '94' | IMEI tag | 1 | '14' |
| '15' or '95' | Help request tag | 1 | '15' |
| '16' or '96' | Network Measurement Results tag | 1 | '16' |
| '17' or '97' | Default Text tag | 1 | '17' |
| '18' only | Items Next Action Indicator tag | 1 | '18' |
| '19' or '99' | Event list tag | 1 | '19' |
| '1A' or '9A' | Reserved for GSM/3G (Cause tag) | 1 | '1A' |
| '1B' or '9B' | Location status tag | 1 | '1B' |
| '1C' or '9C' | Transaction identifier tag | 1 | '1C' |
| '1D' or '9D' | Reserved for GSM/3G (BCCH channel list tag) | 1 | '1D' |
| '1E' or '9E' | Icon identifier tag | 1 | '1E' |
| '1F' or '9F' | Item Icon identifier list tag | 1 | '1F' |
| '20' or 'A0' | Card reader status tag | 1 | '20' |
| '21' or 'A1' | Card ATR tag | 1 | '21' |
| '22' or 'A2' | C-APDU tag | 1 | '22' |
| '23' or 'A3' | R-APDU tag | 1 | '23' |
| '24' or 'A4' | Timer identifier tag | 1 | '24' |
| '25' or 'A5' | Timer value tag | 1 | '25' |
| '26' or 'A6' | Date-Time and Time zone tag | 1 | '26' |
| '27' or 'A7' | Call control requested action tag | 1 | '27' |
| '28' or 'A8' | AT Command tag | 1 | '28' |
| '29' or 'A9' | AT Response tag | 1 | '29' |
| '2A' or 'AA' | Reserved for GSM/3G (BC Repeat Indicator tag) | 1 | '2A' |
| '2B' or 'AB' | Immediate response tag | 1 | '2B' |
| '2C' or 'AC' | DTMF string tag | 1 | '2C' |
| '2D' or 'AD' | Language tag | 1 | '2D' |
| '2E' or 'AE' | Reserved for GSM/3G (Timing Advance tag) | 1 | '2E' |
| '2F' or 'AF' | AID tag | 1 | '2F' |
| '30' or 'B0' | Browser Identity tag | 1 | '30' |
| '31' or 'B1' | URL tag | 1 | '31' |
| '32' or 'B2' | Bearer tag | 1 | '32' |
| '33' or 'B3' | Provisioning Reference File tag | 1 | '33' |
| '34' or 'B4' | Browser Termination Cause tag | 1 | '34' |
| '35' or 'B5' | Bearer description tag | 1 | '35' |
| '36' or 'B6' | Channel data tag | 1 | '36' |
| '37' or 'B7' | Channel data length tag | 1 | '37' |
| '38' or 'B8' | Channel status tag | 1 | '38' |
| '39' or 'B9' | Buffer size tag | 1 | '39' |
| '3A' or 'BA' | Card reader identifier tag | 1 | '3A' |
| '3B' or 'BB' | File Update Information tag | 1 | '3B' |
| '3C' or 'BC' | UICC/terminal interface transport level tag | 1 | '3C' |
| '3D' or 'BD' | Not used | 1 | '3D' |
| '3E' or 'BE' | Other address (data destination address) tag | 1 | '3E' |
| '3F' or 'BF' | Access Technology tag | 1 | '3F' |
| '40' or 'C0' | Display parameters tag | 1 | '40' |
| '41' or 'C1' | Service Record tag | 1 | '41' |
| '42' or 'C2' | Device Filter tag | 1 | '42' |
| '43' or 'C3' | Service Search tag | 1 | '43' |
| '44' or 'C4' | Attribute information tag | 1 | '44' |
| '45' or 'C5' | Service Availability tag | 1 | '45' |
| '46' or 'C6' | Reserved for 3GPP2 (ESN tag) | 1 | '46' |
| '47' or 'C7' | Network Access Name tag | 1 | '47' |

| COMPREHENSION-TLV tag (CR and Tag value) | Card application toolkit data objects | Length of tag | Tag value, bits 1-7 (Range: '01' - '7E') |
|---|--|---------------|---|
| '48' or 'C8' | Reserved for 3GPP2 (CDMA-SMS-TPDU tag) | 1 | '48' |
| '49' or 'C9' | Remote Entity Address tag | 1 | '49' |
| '4A' or 'CA' | Reserved for 3GPP (I-WLAN Identifier tag) | 1 | '4A' |
| '4B' or 'CB' | Reserved for 3GPP (I-WLAN Access Status tag) | 1 | '4B' |
| | RFU | | '4C' to '4F' |
| '50' or 'D0' | Text attribute tag | 1 | '50' |
| '51' or 'D1' | Item text attribute list tag | 1 | '51' |
| '52' or 'D2' | Reserved for 3GPP (PDP context Activation parameter tag) | 1 | '52' |
| | RFU | | '53' to '61' |
| '62' or 'E2' | IMEISV tag | 1 | '62' |
| '63' or 'E3' | Battery state tag | 1 | '63' |
| '64' or 'E4' | Browsing status tag | 1 | '64' |
| '65' or 'E5' | Network Search Mode tag | 1 | '65' |
| '66' or 'E6' | Frame Layout tag | 1 | '66' |
| '67' or 'E7' | Frames Information tag | 1 | '67' |
| '68' or 'E8' | Frame identifier tag | 1 | '68' |
| '69' or 'E9' | Reserved for 3GPP (UTRAN Measurement Qualifier tag) | 1 | '69' |
| '6A' or 'EA' | Multimedia Message Reference tag | 1 | '6A' |
| '6B' or 'EB' | Multimedia Message Identifier tag | 1 | '6B' |
| '6C' or 'EC' | Reserved for 3GPP (Multimedia Message Transfer Status tag) | 1 | '6C' |
| '6D' or 'ED' | MEID tag | 1 | '6D' |
| '6E' or 'EE' | Multimedia Message Content Identifier tag | 1 | '6E' |
| '6F' or 'EF' | Multimedia Message Notification tag | 1 | '6F' |
| '70' or 'F0' | Last Envelope tag | 1 | '70' |
| '71' or 'F1' | Registry application data tag | 1 | '71' |
| '72' or 'F2' | Reserved for 3GPP (PLMNwAcT List tag) | 1 | '72' |
| '73' or 'F3' | Reserved for 3GPP (Routing Area Information Tag) | 1 | '73' |
| '74' or 'F4' | Reserved for 3GPP (Update/Attach Type Tag) | 1 | '74' |
| '75' or 'F5' | Reserved for 3GPP (Rejection Cause Code Tag) | 1 | '75' |

Annex A (normative): Allocated ETSI PIX numbers

Table A.1: Allocation of ETSI PIX

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

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

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

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

Digits 1 to 4 ETSI application code

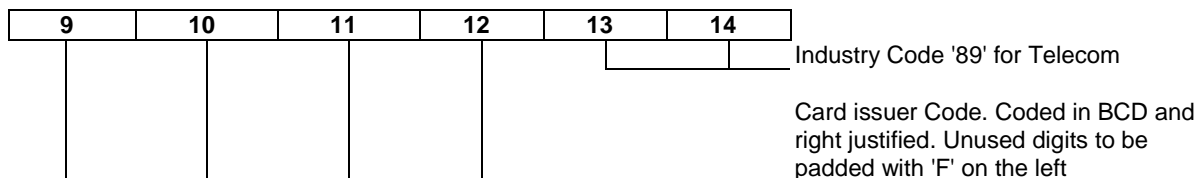
Coding: '0001', '0002' or '0004' as specified in clause 4.2.

Digits 5 to 8 Country code

Coding: As specified in clause 4.2.

Digits 9 to 14 Application provider code

Coding: As defined below.

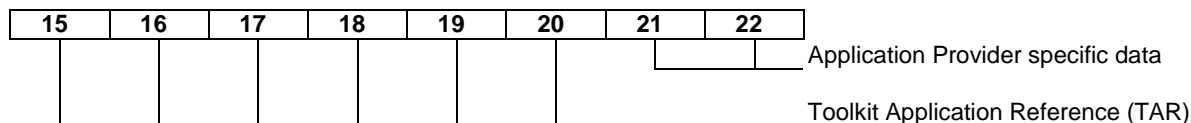


Card issuer code and Industry code are coded in line with ITU-T Recommendation E.118 [4].

Digits 15 up to 22 Application provider field 8 digits

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

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



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

Application Provider specific data: For application administration purposes.

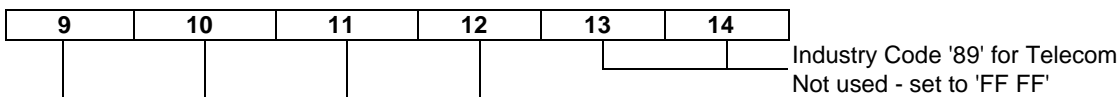
Annex C (normative): Coding of the PIX for SIM toolkit API packages

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

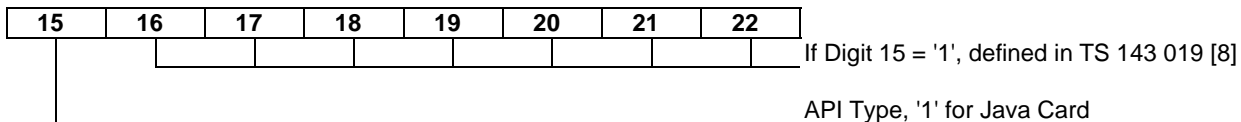
Digits 1 to 4 ETSI application code
Coding: '0003' as specified in clause 4.2.

Digits 5 to 8 Not used
Coding: Set to 'FF FF'.

Digits 9 to 14 Industry code
Coding: As defined below.



Digits 15 up to 22 Application provider field 8 digits



Annex D (normative): Allocated TAR values

Table D.1: Allocation of TAR values

| Application | TAR | Document (see note 1) |
|---|--|--|
| Issuer Security Domain | | |
| Issuer Security Domain | '00 00 00' | TS 102 226 [19] / compact data format |
| Issuer Security Domain | 'B2 01 00' | TS 102 226 [19] / expanded data format |
| 1st level application issuer specific values | | |
| Allocated by the 1st level application issuer | '00 00 01' to 'AF FF FF' | |
| Allocated by the 1st level application issuer | 'C0 00 00' to 'FF FF FF' | |
| Remote File Management Applications | | |
| UICC Shared File System | 'B0 00 00' and 'B0 00 02' to 'B0 00 0F' | TS 102 226 [19] / compact data format |
| SIM File System | 'B0 00 10' to 'B0 00 1F' | TS 131 116 [20] / compact data format |
| ADF (see note 2) | 'B0 00 01' and 'B0 00 20 to 'B0 01 1F' | TS 131 116 [20] / compact data format |
| UICC Shared File System | 'B0 01 20' to 'B0 01 2F' | TS 102 226 [19] / expanded data format |
| SIM File System | 'B0 01 30' to 'B0 01 3F' | TS 131 116 [20] / expanded data format |
| ADF (see note 2) | 'B0 01 40' to 'B0 01 FF' | TS 131 116 [20] / expanded data format |
| RFU | 'B0 02 00' to 'B0 FF FF' | |
| Payment Applications | | |
| RFU | 'B1 00 00' to 'B1 FF FF' | |
| USAT Interpreter Application | | |
| USAT Interpreter Application | 'B2 00 00' to 'B2 00 FF' | TS 131 114 [13] |
| Smart Card Web Server (SCWS) Applications | | |
| SCWS | 'B2 01 01' | OMA-TS-Smartcard-Web-Server-V1.0 [25] |
| SCWS administrative agent Application | 'B2 01 02' | OMA-TS-Smartcard-Web-Server-V1.0 [25] |
| RFU | 'B2 01 03' to 'B2 01 FF' | |
| CAT TP Multiplexing Application | | |
| CAT TP Multiplexing Application | 'B2 02 00' | TS 102 225 [26] |
| Reserved for future categories | | |
| RFU | 'B2 02 01' to 'BF FE FF' | |
| Proprietary Toolkit Application | | |
| Proprietary Toolkit Application | 'BF FF 00' to 'BF FF FF' | |
| NOTE 1: It is the responsibility of the technical body, in charge of the Toolkit Application standardization, to inform the ETSI Secretariat when the respective document is withdrawn or renumbered. | | |
| NOTE 2: ADF Remote File Management applications file access is defined in TS 102 226 [19]. | | |

Annex E (normative): Allocated 3GPP PIX numbers

Table E.1: Allocated 3GPP PIX numbers

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

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

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

Digits 1 to 4 3G application code

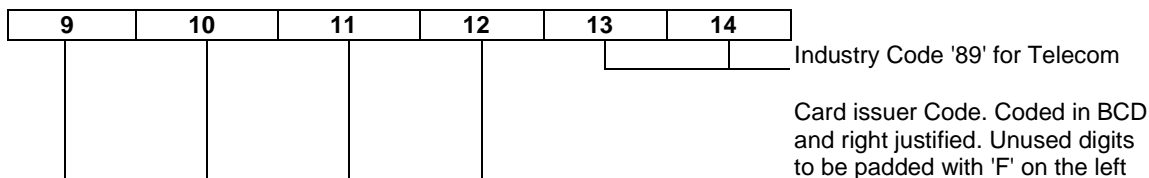
Coding: As specified in clause 4.2 and as shown in annex A.

Digits 5 to 8 Country code

Coding: As specified in clause 4.2.

Digits 9 to 14 Application provider code

Coding: As defined below.



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

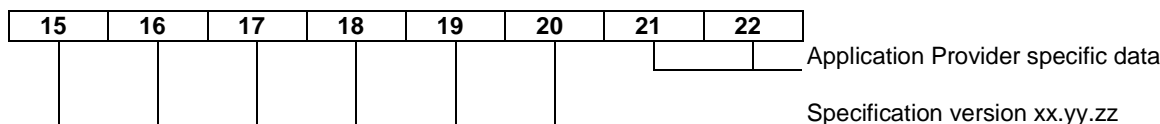
Digits 15 up to 22 Application provider field 8 digits

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

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

Digits 21 to 22 are coded in hexadecimal

The application provider field format is as defined below:



Application Provider specific data: for application administration purposes.

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

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

Digits 1 to 4 3G application code

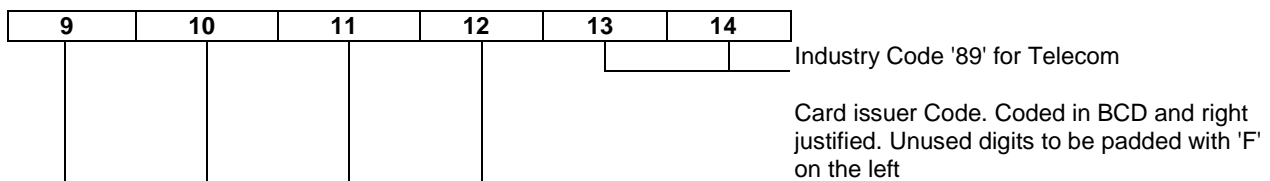
Coding: As specified in clause 4.2 and as shown in annex A.

Digits 5 to 8 Country code

Coding: As specified in clause 4.2.

Digits 9 to 14 Application provider code

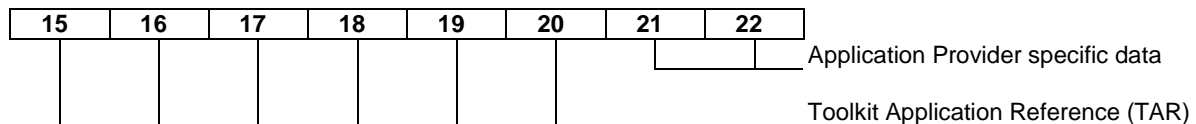
Coding: As defined below.



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

Digits 15 up to 22 Application provider field 8 digits

Coding: Hexadecimal, as defined below.



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

Application Provider specific data: for application administration purposes.

Annex H (informative): Tag allocation guidelines

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

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

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

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

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

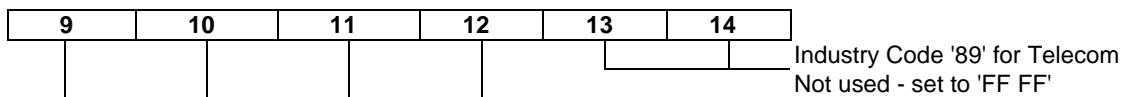
Annex I (normative): Coding of the PIX for UICC toolkit API packages

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

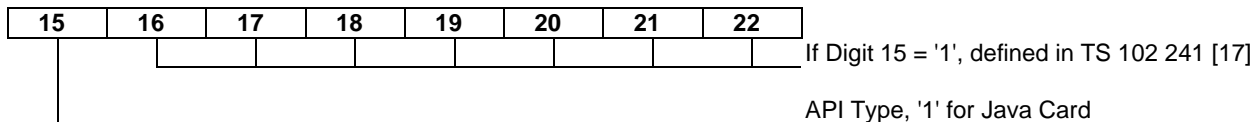
Digits 1 to 4 ETSI application code
Coding: '0005' as specified in clause 4.2.

Digits 5 to 8 Not used
Coding: Set to 'FF FF'.

Digits 9 to 14 Industry code
Coding: As defined below.



Digits 15 up to 22 Application provider field 8 digits



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

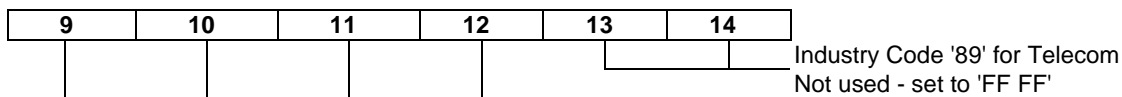
Coding: '1005' as specified in clause 4.2.

Digits 5 to 8 Not used

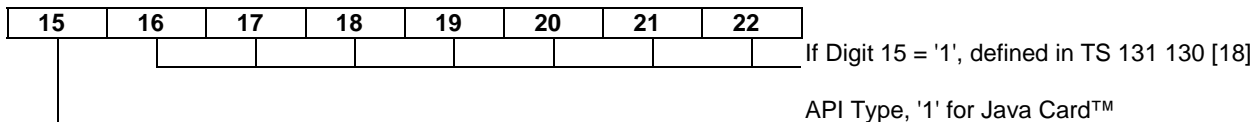
Coding: Set to 'FF FF'.

Digits 9 to 14 Industry code

Coding: As defined below.



Digits 15 up to 22 Application provider field 8 digits



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

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

Digits 1 to 4 3GPP application code

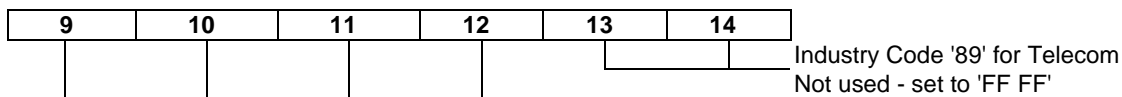
Coding: '100X' as specified in clause 4.2.

Digits 5 to 8 Not used

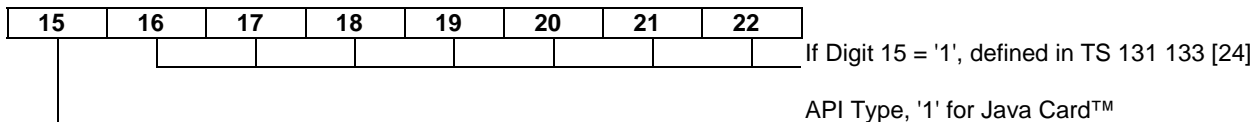
Coding: Set to 'FF FF'.

Digits 9 to 14 Industry code

Coding: As defined below.



Digits 15 up to 22 Application provider field 8 digits



Annex L (Informative): Bibliography

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

Annex M (informative): Change history

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

| Change history | | | | | | | | | |
|----------------|---------|-------------|------------|-----|-----|---|-------|-------|---|
| Date | Meeting | Plenary Doc | CR | Rev | Cat | Subject/Comment | Old | New | |
| 1997-10 | | | | | | TC ICC published version 1.2.1. The on-going maintenance of this deliverable was subsequently transferred from TC ICC to TC SMG when TC ICC was closed in early 1998. | | 1.2.1 | |
| 1998-10 | SMG #27 | 98-0673 | | | B | Addition of normative annex C, introducing AID coding for GSM and Toolkit Applications. | 1.2.1 | 1.3.0 | |
| 1999-09 | SMG #29 | P-99-415 | | | B | Addition of normative annex D, introducing AID coding for SIM Toolkit packages. | 1.3.0 | 1.4.0 | |
| 2000-05 | SMG #31 | P-00-142 | | | F | Alignment of the AID allocation procedure. | 1.4.0 | 3.0.0 | |
| | | P-00-142 | | | B | Definition of an AID for TETRA. | | | |
| | | | | | | NOTE: At SMG #31, it was agreed it would be more appropriate for the present document to be classified as an "ETSI Technical Specification" rather than an "ETSI Guide". This resulted in the deliverable number being changed from EG 201 220 (see bibliography) to the present document. Furthermore, to align the specification version numbering system with that of the 3GPP, the new version number became 3.0.0. | | | |
| 2000-12 | SCP-03 | 9-00-0443 | | | F | Correction of the AID coding for the SIM API packages. | 3.0.0 | 3.1.0 | |
| 2001-03 | SCP-05 | SCP-010137 | 007 | | B | Toolkit Application Reference (TAR) management. | 3.1.0 | 3.2.0 | |
| | | SCP-010138 | 008 | | B | Incorporation of 3GPP AID specification. | | | |
| 2001-07 | SCP-06 | SCP-010174 | 009 | | F | Clarification of the specification number of the application provider code in annex F. | 3.2.0 | 3.3.0 | |
| 2001-10 | SCP-07 | SCP-010308 | 010 | | C | Allocation of new TAR values for Remote File Management. | 3.3.0 | 4.0.0 | |
| 2001-12 | SCP-08 | SCP-010387 | 011 | | F | Correction to allocation of TAR values for "Remote File Management Applications" clause. | 4.0.0 | 4.1.0 | |
| 2002-06 | SCP-10 | SCP-020156 | 012 | | B | Allocation of TAR values for the USAT Interpreter | 4.1.0 | 5.0.0 | |
| | | | 013 | | B | Addition of ISIM AID. | | | |
| 2003-01 | SCP-12 | SCP-030060 | 016 | | D | Remove UICC as an abbreviation to align with 3GPP TR 21 905. [i.1] | 5.0.0 | 6.0.0 | |
| | | | SCP-030077 | 014 | 2 | B | | | Definition of TLV Forms and TLV Tag Value Tables. |
| | | | SCP-030081 | 015 | | B | | | Update of Statement of Scope. |
| 2003-05 | SCP-13 | SCP-030160 | 017 | | B | BER-TLV Tag Reservation for card application communication. | 6.0.0 | 6.1.0 | |
| | | SCP-030112 | 018 | | B | Allocation of AID for the uicc.* packages. | | | |

| Change history | | | | | | | | | |
|----------------|---------|-------------|------------|-----|-----|--|-------|-------|---------------------------------------|
| Date | Meeting | Plenary Doc | CR | Rev | Cat | Subject/Comment | Old | New | |
| 2003-12 | | SCP-030410 | 019 | | D | Corrections on PIX and Application codes. | 6.1.0 | 6.2.0 | |
| | | | 020 | | F | Modifying annex A from informative to normative. | | | |
| | | | 021 | | B | Allocation of AID for the uicc.usim.* packages. | | | |
| | | | 022 | | D | Correction of reference to TS 102 241 [17]. | | | |
| | | | 024 | | F | Alignment of TS 101 220 with TS 102 226 [19] and TS 31.116 Release 6 specifications. | | | |
| | | SCP-030479 | 025 | | B | New Comprehension TLV Tag for IMEISV. | | | |
| | | | 026 | | F | Alignments regarding tag 86. | 6.2.0 | 6.3.0 | |
| | | | 029 | | F | Tag allocation for new comprehension TLV: Battery State. | | | |
| | | | 030 | | B | Tag reservation for Browsing status event in CAT. | | | |
| | | SCP-040033 | 032 | | B | Allocation of tags for Fill and Repeat Pattern. | | | |
| | | SCP-040088 | 033 | | C | Removal of EIA/TIA-136 Tags. | | | |
| 2004-05 | SCP#17 | SCP-040235 | 034 | | D | Transfer of the COMPREHENSION-TLV Tags from TS 102 223 [23]. | 6.3.0 | 6.4.0 | |
| | | | 035 | | B | Allocation of new tag values for Expanded Remote Application data format. | | | |
| 2004-09 | SCP#18 | SCP-040315 | 027 | 1 | B | Introduction of new tags for the frames in CAT. | 6.4.0 | 6.5.0 | |
| | | | 036 | | B | New Tags for BER-TLV EFs. | | | |
| | | | SCP-040371 | 037 | | B | | | Allocation of new tag values for EAP. |
| | | | SCP-040352 | 039 | | F | | | Tag reservation for 3GPP features. |
| 2004-11 | SCP#19 | SCPt040286 | 040 | 2 | | BER-TLV reservation for 3GPP feature. | 6.5.0 | 6.6.0 | |
| | | SCP-040272 | 041 | | | Clarification for non-specific references. | | | |
| | | SCP-040470 | 043 | | | Alignments with TS 131 111 [12]. | | | |
| | | SCPt040300 | 042 | | | Clarification of length coding for TLV. | | | |
| | | SCPt040336 | 039 | | | Classification on List of allocated BER-TLV tag values. | 6.6.0 | 7.0.0 | |
| 2005-01 | SCP#20 | SCPt040492 | 044 | | | New Tag for Introduction of MEID. | 7.0.0 | 7.1.0 | |
| | | SCPt040582 | 045 | | | Addition of File Update Information tag. | | | |
| | | SCP-050060 | 038 | 2 | | Allocation of TAR values for Expanded Remote Application data format. | | | |
| 2005-05 | SCP#21 | SCPt050147 | 046 | | B | Tags for 3GPP MMS commands. | 7.1.0 | 7.2.0 | |
| | | SCPt050121 | 047 | | F | Modifications due to revision of ISO/IEC 7816-4 [3] series. | | | |
| | | SCPt050166 | 048 | | B | Allocation of TAR values for ADF Remote File Management Applications. | | | |
| 2005-09 | SCP#22 | SCP-050282 | 050 | 1 | B | Tags for MMS Toolkit commands. | 7.2.0 | 7.3.0 | |
| 2005-12 | SCP#23 | SCPt050876 | 052 | | F | Correct reference to an annex. | 7.3.0 | 7.4.0 | |
| | | SCPt050882 | 053 | | F | Cleaning of the specification. | | | |
| | | SCP-050503 | 054 | | B | Reservation of Comprehension-TLV tags for 3GPP related to the new I-WLAN bearer in 3GPP. | | | |
| 2006-03 | SCP#25 | SCP-060152 | 056 | | D | Removal of double quotes | 7.4.0 | 7.5.0 | |
| 2006-07 | SCP#26 | SCP-060244 | 055 | 2 | B | Addition of specific UICC environmental conditions tag | 7.5.0 | | |
| | | SCP-060253 | 059 | 1 | B | Addition of supported system command tag | | | |
| | | SCP-060289 | 060 | | B | Reservation of Application code for DVB CBMS KMS | | | |
| | | | | | | | 7.6.0 | | |
| 2006-09 | SCP#27 | SCP-060474 | 064 | 1 | F | Clarify 3GPP UICC AID | 7.6.0 | | |
| | | SCP-060466 | 062 | 1 | F | Correction of Terminal capability indication mechanism | | | |
| | | SCP-060486 | 066 | 1 | B | Tags for error responses for wrong TLVs | | | |
| | | | | | | | 7.7.0 | | |
| 2007-01 | SCP#29 | SCP-070018 | 061 | 2 | B | Addition of tag for the Extension of the number of logical channels | 7.7.0 | | |
| | | | 067 | | B | Introduction of an PIX coding for the ISIM API for Java Card™ TS 31.133 | | | |
| | | SCP-070055 | 068 | 2 | B | Tags for Remote Management Actions | | | |
| | | | | | | | 7.8.0 | | |

| Change history | | | | | | | | |
|----------------|---------|-------------|-----|-----|-----|--|--------|--------|
| Date | Meeting | Plenary Doc | CR | Rev | Cat | Subject/Comment | Old | New |
| 2007-05 | SCP#30 | SCP-070133 | 069 | 1 | B | Allocation of TAR values for the OMA SCWS and administrative agent | 7.8.0 | 7.9.0 |
| | | SCP-070175 | 063 | 1 | B | Modification of tags for RFM with script chaining | | |
| 2007-07 | SCP#31 | SCP-070275 | 065 | 4 | B | Tags for Launch Application feature | 7.9.0 | 7.10.0 |
| 2007-08 | SCP#32 | SCP-070315 | 070 | - | C | Reservation of Tag values for 3GPP | 7.10.0 | 7.11.0 |
| 2007-10 | SCP#33 | SCP-070422 | 072 | - | B | Addition of support for the UICC-CLF interface | 7.11.0 | 7.12.0 |
| 2007-10 | SCP#33 | SCP-070426 | 071 | - | B | TAR reservation for CAT TP Multiplexing | 7.12.0 | 8.0.0 |
| 2008-01 | SCP#35 | SCP-080014 | 073 | 1 | B | Tag reservation related to addition of Network Rejection in 3GPP TS 31.111 | 8.0.0 | 8.1.0 |

History

| Document history | | |
|-------------------------|---------------|-------------|
| V8.0.0 | February 2008 | Publication |
| V8.1.0 | June 2008 | Publication |
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