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Technical Report

Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); Register of assigned protocol numbers and names

ETSI

650 Route des Lucioles
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00   Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C
Association à but non lucratif enregistrée à la
Sous-Préfecture de Grasse (06) N° 7803/88

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Foreword

This Technical Report (TR) has been produced by ETSI Technical Committee Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN).

1   Scope

The present document contains the record of assignment of names, numbers and identifiers used in TISPAN protocol specifications, managed by TISPAN, and which are required to be globally unique. In particular, it contains the assignments and sub-structure of ASN.1 Object Identifier trees assigned to TISPAN and the assignments and sub-structure of any URI or URN schemes which TISPAN manages.

The present document also contains information on names, numbers and identifiers used in TISPAN protocol specifications, but which are assigned by other authorities. This may include assignments from the IETF, ETSI, W3C, etc.

Names, addresses, numbers and identifiers and their associated schemes, used in networks, assigned or managed or monitored by TISPAN Working Group 4 are outside the scope of the present document. All aspects of numbering, addressing and naming of a telecommunications network are outside the scope of the present document.

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.

- Non-specific reference may be made only to a complete document or a part thereof and only in the following cases:

  - if it is accepted that it will be possible to use all future changes of the referenced document for the purposes of the referring document;

  - for informative references.

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

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

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.

Not applicable.

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 ETR 090: "ETSI object identifier tree; Common domain; Intelligent Network (IN) domain".

[i.2]   ETSI TS 183 023: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); PSTN/ISDN simulation services; Extensible Markup Language (XML) Configuration Access Protocol (XCAP) over the Ut interface for Manipulating NGN PSTN/ISDN Simulation Services".

[i.3]   ETSI TS 129 230: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); Diameter applications; 3GPP specific codes and identifiers (3GPP TS 29.230)".

[i.4]   draft-ietf-simple-xcap-12.txt: "The Extensible Markup Language (XML) Configuration Access Protocol (XCAP)".

NOTE: Available at http://www.ietf.org/mail-archive/web/simple/current/msg06884.html.

[i.5]   ETSI ETS 300 374-1: "Intelligent Network (IN); Intelligent Network Capability Set 1 (CS1); Core Intelligent Network Application Protocol (INAP); Part 1: Protocol specification".

[i.6]   ITU-T Recommendation H.248 series: "Gateway control protocol".

3   Abbreviations

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

AC   Application Context
ASN.1   Abstract Syntax Notation one
AUID   Application Unique ID
CTM   Cordless Terminal Mobility
IANA   Internet Assigned Numbers Authority
IN   Intelligent Network
MIB   Management Information Base
NGN   Next Generation Network
OID   Object IDentifier
OSA   Open Service Access
SNMP   Simple Network Management Protocol
UPT   Universal Personal Telecommunications
URI   Uniform Resource Identifier
URN   Uniform Resource Name
WSDL   Web Services Definition Language
XCAP   XML Configuration Access Protocol
XML   eXtensible Markup Language

4   Use of the present document

The present document is TISPAN's register of any names, numbers and identifiers used in TISPAN protocol specifications, managed by TISPAN, and which are required to be globally unique.

Name, number and identifier ranges managed by TISPAN are generally assigned by the ETSI Protocol Naming and Numbering Service (http://portal.etsi.org/ptcc/ProtocolNaming.asp).

4.1   Guidelines for updating the present document

Any new ranges of names, numbers or identifiers which are assigned to TISPAN, for use in TISPAN's protocol specifications, are to be added to the present document and managed using the present document.

Individual names, numbers or identifiers (not ranges) which are assigned to TISPAN may be listed in the present document.

5 ASN.1 Object Identifier trees

ETSI maintains two types of ASN.1 object identifier trees. The general ETSI ASN.1 OID tree has as root:

itu-t(0) identified-organization(4) etsi(0)

In addition, a separate tree is available for SNMP MIB objects. This tree has as root:

iso(1) org(3) dod(6) internet(1) private(4) enterprise(1) etsi(13019)

Both of these OID trees are managed by the ETSI Secretariat and further details of assignments, rules and registration procedures can be obtained from the ETSI Protocol Naming and Numbering Service http://portal.etsi.org/ptcc/ProtocolNaming.asp.

In the case of ASN.1 OIDs used in 3GPP specifications, these are also assigned under the ETSI ASN.1 OID tree, under the mobile domain. Registration is performed by the Mobile Competence Centre (http://www.3gpp.org/TB/Other/ASN1.htm)

5.1 ETSI assigned Intelligent Network domain

ETSI has assigned the Intelligent Network domain, inDomain to TISPAN under the general ETSI ASN.1 OID tree. This has root:

itu-t(0) identified-organization(4) etsi(0) inDomain(1)

This domain was originally described in ETR 090 [i.1].

5.1.1 Structure of the IN domain

Figure 1 represents the structure for the IN domain.

NOTE 1: Modules, AC, and the structure below are defined in ETS 300 374-1 [i.5].
NOTE 2: The structure shown beneath "IN Network" is just an example and does not apply to the other nodes beneath the "IN Domain".
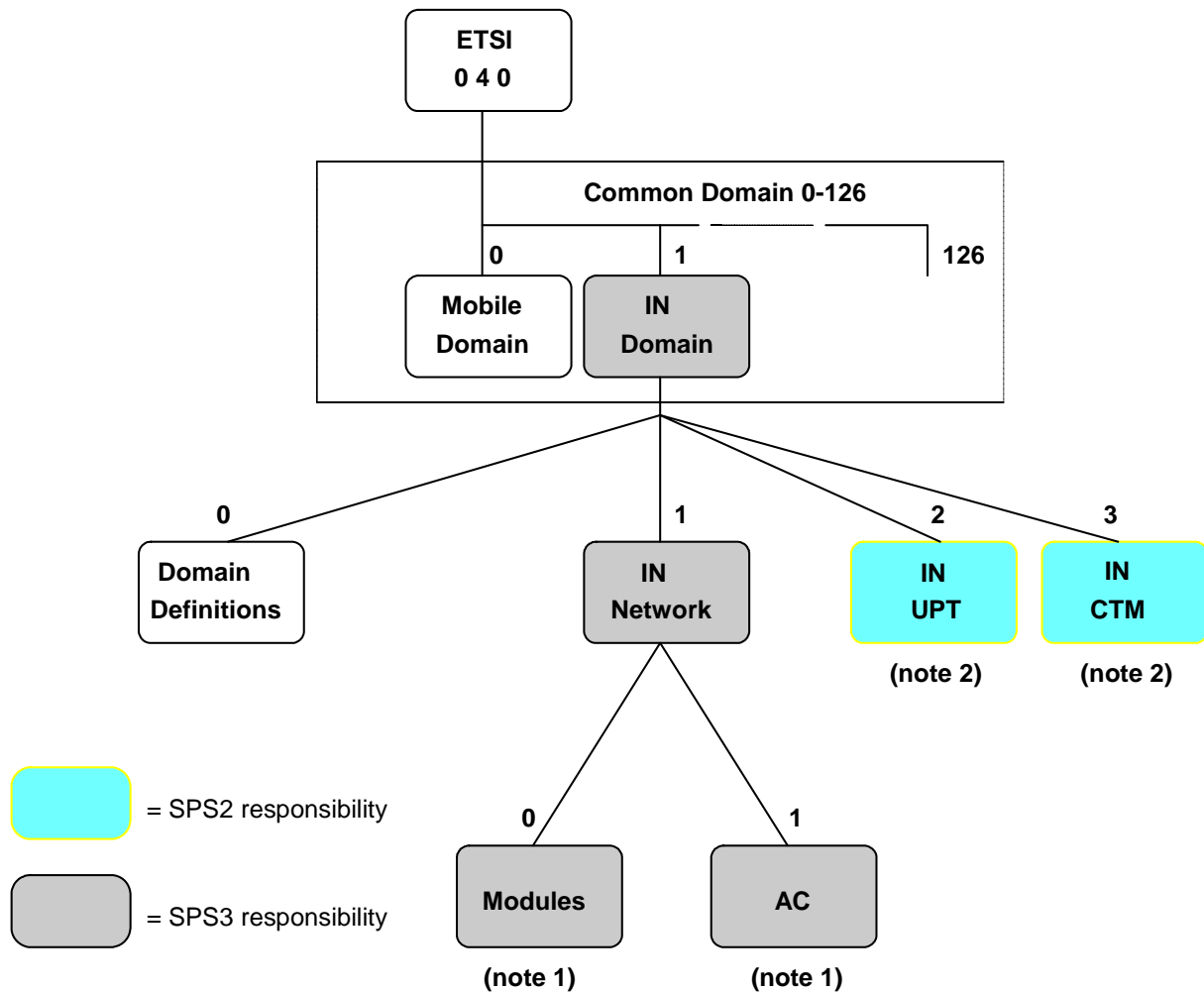
Figure 1: IN domain structure

5.1.2 ASN.1 description (from ETR 090)

```
InDomainDefinitions {ccitt(0) identified-organization(4) etsi(0)
                inDomain(1) inDomainDefinitions(0) version2(2)}

DEFINITIONS ::=
BEGIN

-- IN DomainId

inDomainId      OBJECT IDENTIFIER ::= {ccitt(0) identified-organization(4) etsi(0) inDomain(1)}

-- IN Subdomains

in-NetworkId    OBJECT IDENTIFIER ::= {inDomainId in-Network (1)}
in-UptId        OBJECT IDENTIFIER ::= {inDomainId in-Upt    (2)}
in-CtmId        OBJECT IDENTIFIER ::= {inDomainId in-Ctm    (3)}

-- Common Component Ids for structuring IN Subdomains

CommonComponentId ::= INTEGER (0..9)

moduleId    CommonComponentId ::= 0
ac-Id       CommonComponentId ::= 1

END
```

5.2   ETSI Enterprise Number assigned by IANA

IANA has part of its ASN.1 OID tree reserved for external organizations. ETSI has registered an entry in this tree. The IANA assigned object identifier for ETSI is:
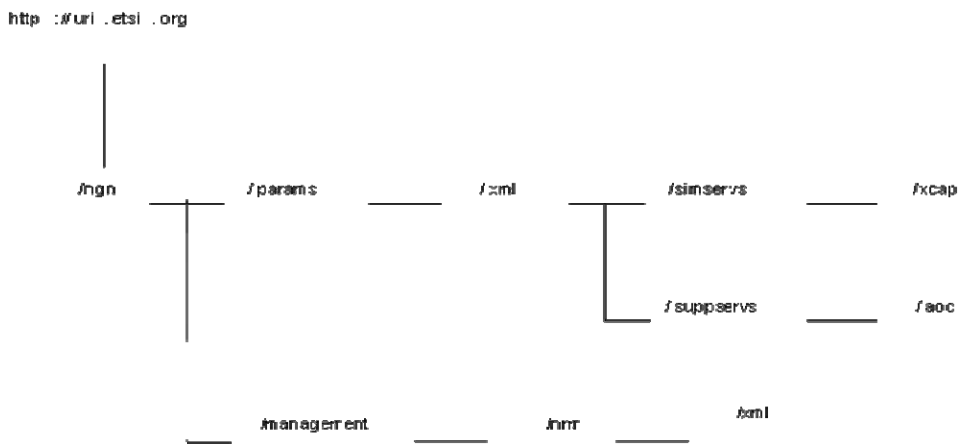
   iso(1) org(3) dod(6) internet(1) private(4) enterprise(1) etsi(13019)

The final number in this OID, 13019, is known as the ETSI Enterprise Number.

6   URI and URN namespaces

6.1   ETSI assigned ngn URI

Figure 2: Structure of http://uri.etsi.org/ngn namespace

The following table describes each assignment in the TISPAN ngn URI tree.

Assignment	Description
http://uri.etsi.org/ngn	Assigned to TISPAN by ETSI Secretariat for use with all NGN specification activities
Params	TISPAN protocol parameters, assigned to TISPAN WG3
Xml	XML namespaces
simservs	PSTN/ISDN Simulation Service
xcap	XCAP Application
suppservs	NGN IMS Supplementary Services
Aoc	Advice of Charge service
management	TISPAN management , assigned to TISPAN WG8
nrm	Network Resource Model
xml	XML namespace

6.2 URIs used in OSA specifications

The OSA specifications developed by TISPAN use a different root URI in the WSDL files associated with the web services realization of OSA. The root URI is http://www.csapi.org.
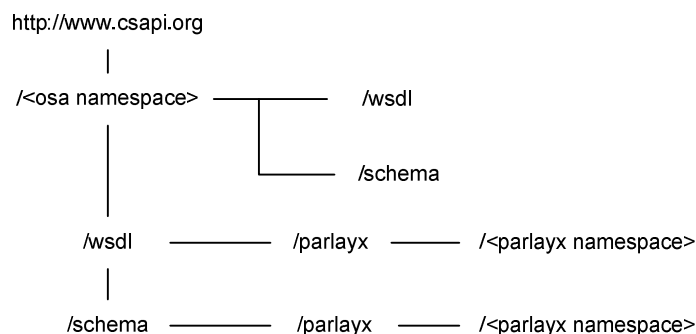
```
                    http://www.csapi.org
                            |
                            |
  /<osa namespace> ───────────────  /wsdl
            |                  |
            |                  |
            |                └──────── /schema
            |
            |
         /wsdl ───────── /parlayx ─────── /<parlayx namespace>
            |
            |
        /schema ──────── /parlayx ─────── /<parlayx namespace>
```

Figure 3: Structure of http://www.csapi.org/<osa namespace>

7 Protocol specific identifiers

7.1 H.248 protocol identifiers

H.248 profile [i.6] and package identifiers used by TISPAN are identified by the ETSI Protocol Naming and Numbering Service, at http://portal.etsi.org/ptcc/h248names.asp. No ranges of identifiers have been assigned to TISPAN.

7.2 Diameter protocol identifiers

Diameter parameters and identifiers used by TISPAN are identified by the ETSI Protocol Naming and Numbering Service, at http://portal.etsi.org/ptcc/diameternumbers.asp. No ranges of parameters identifiers have been assigned to TISPAN, however some ranges have been assigned to specific specifications managed by TISPAN.

Diameter parameters and identifiers used by 3GPP are identified in TS 129 230 [i.3].

Diameter ApplicationIDs and Command Codes are allocated by IANA. The allocation of Command Codes is only performed following IETF specification activity.

7.3 XCAP protocol identifiers

ETSI maintains the registry of XCAP AUID domains, within which ETSI TBs can define their own substructure and AUIDs. These are all prefixed with ETSI's reverse domain name:

org.etsi.

Details may be found at http://portal.etsi.org/ptcc/xcapauid.asp.

The latest XCAP Internet Draft is available at: http://www.ietf.org/mail-archive/web/simple/current/msg06884.html [i.4].

Within this registry, a domain has been assigned to TISPAN, as follows:

org.etsi.ngn.

The following table contains the list of XCAP AUIDs assigned by TISPAN in the `org.etsi.ngn` domain.

Assignment	Description
org.etsi.ngn.	Assigned to TISPAN by ETSI Secretariat for use with all NGN specification activities
simservs	TS 183 023 [i.2], XCAP over the Ut interface for Manipulating NGN PSTN/ISDN Simulation Services

Annex A:
Change history

Date	WG Doc.	CR	Rev	CAT	Title / Comment	Current Version	New Version
26-09-08	18bTD101r2	001		B	Add management namespace	1.1.1	1.1.2
					Publication	1.1.2	2.1.1

History

Document history		
V1.1.1	March 2007	Publication
V2.1.1	January 2009	Publication