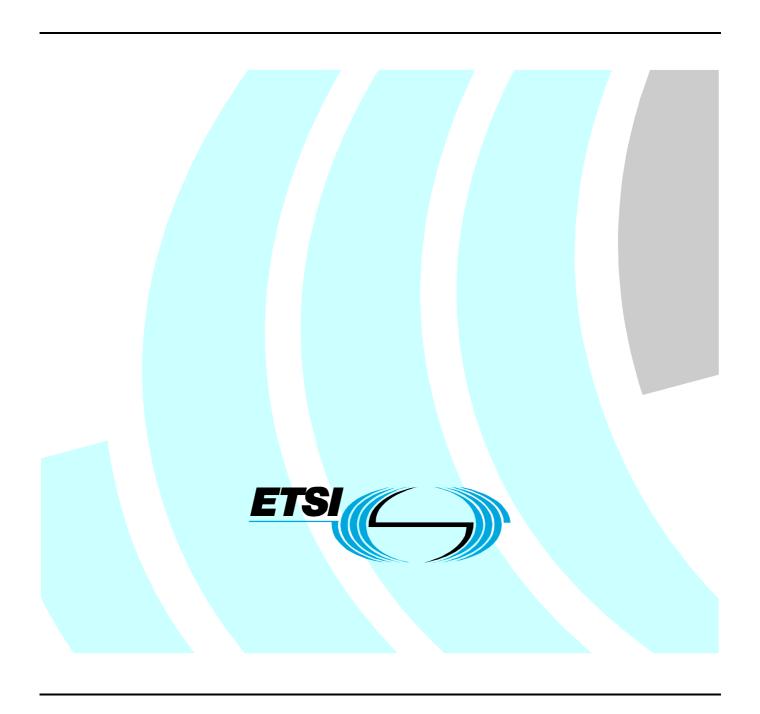# ETSI TR 183 050 V1.1.1 (2007-03)

Technical Report

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

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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

For the purposes of this Technical Report (TR), the following references apply:

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

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

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

[3]   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".

[4]   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)".

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

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

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)

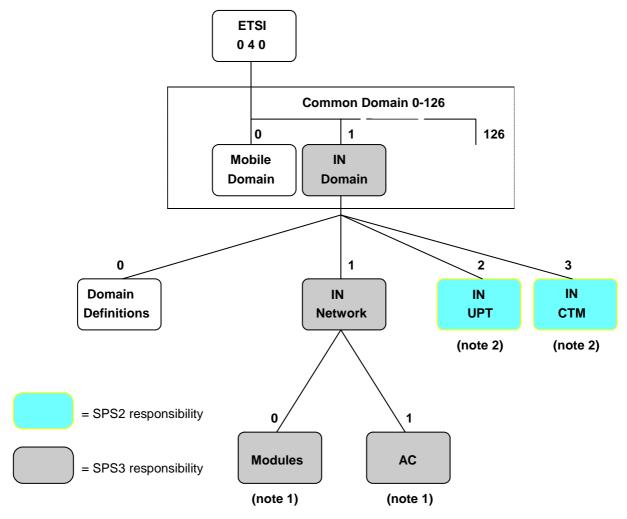## 5.1   ETSI assigned Intelligent Network domain

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 [1].

5.1.1   Structure of the IN domain

Figure 1 represents the structure for the IN domain.

Figure 1: IN domain structure

NOTE 1:   Modules, AC, and the structure below are defined in ETS 300 374-1 [6].
NOTE 2:   The structure shown beneath "IN Network" is just an example and does not apply to the other nodes
          beneath the "IN Domain".

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.
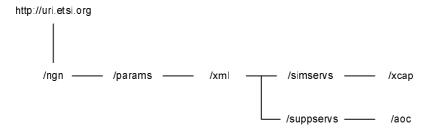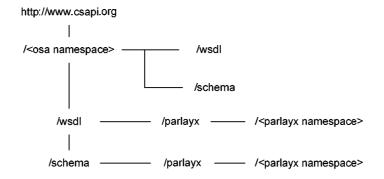
6 URI and URN namespaces

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

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.

7   Protocol specific identifiers

7.1   H.248 protocol identifiers

H.248 profile 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 [4].

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 registryof 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/internet-drafts/draft-ietf-simple-xcap-12.txt [5].

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, XCAP over the Ut interface for Manipulating NGN PSTN/ISDN Simulation Services

History

Document history		
V1.1.1	March 2007	Publication