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SERIES J: CABLE NETWORKS AND TRANSMISSION
OF TELEVISION, SOUND PROGRAMME AND OTHER
MULTIMEDIA SIGNALS

Multimedia over IP in cable

Cable assigned names and numbers

Recommendation ITU-T J.800.0

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Cable assigned names and numbers

Summary

Recommendation ITU-T J.800.0 describes a set of Cable industry registries and namespaces for Names and Numbers. Numerous protocol fields make use of identifiers with well-known names or number values. This Recommendation is a common repository to hold these values.

Source

Recommendation ITU-T J.800.0 was approved on 22 August 2008 by ITU-T Study Group 9 (2005-2008) under Recommendation ITU-T A.8 procedure.

FOREWORD

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In some areas of information technology which fall within ITU-T's purview, the necessary standards are prepared on a collaborative basis with ISO and IEC.

NOTE

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Recommendation ITU-T J.800.0

Cable assigned names and numbers

1 Scope

This Recommendation is a set of Cable industry registries and namespaces for Names and Numbers. Numerous protocol fields make use of identifiers with well-known names or number values, for example, the IETF DHCP protocol and vendor specific option values, the IETF RADIUS and DIAMETER protocols and associated Cable attributes, etc. To ensure that such quantities have consistent values and interpretations in different implementations, their assignment must be administered by a central authority. For IETF protocols, that role is provided by the Internet Assigned Numbers Authority (IANA). For vendor-specific protocol fields that are defined by Cable industry Recommendations and specifications, or when the use of such protocol identifiers may be common to multiple Cable industry projects and specifications, that role is provided by CableLabs. This Recommendation is a common repository that holds these values.

This Recommendation uses some of the terminology and guidelines of [IETF RFC 2434].

The scope of this version of this Recommendation includes:

- A DHCP registry for protocol fields authoritatively assigned by CableLabs that are in use in eDOCSIS, DOCSIS, IPCable2Home, and IPCablecom, for both IPv4 and DHCPv6.
- An XML registry for XML namespaces for DOCSIS and IPCablecom.
- A DIAMETER registry for IPCablecom.
- A Receive Channel Profile (RCP) registry for CableLabs-defined Standard-RCPs and Vendor-defined Manufacturer-RCPs that are used in DOCSIS 3.0 and beyond to communicate the receiver capabilities of a cable modem.

NOTE – The structure and content of this Recommendation have been organized for ease of use by those familiar with the original source material; as such, the usual style of ITU-T recommendations has not been applied.

2 References

2.1 Normative references

- [IETF RFC 3588] IETF RFC 3588, *Diameter Base Protocol*, September 2003.
- [IETF RFC 2434] IETF RFC 2434/BCP0026, *Guidelines for Writing an IANA Considerations Section in RFCs*, October 1998.
- [IETF RFC 3315] IETF RFC 3315, *Dynamic Host Configuration Protocol for IPv6 (DHCPv6)*, July 2003.

2.2 Informative references

This Recommendation uses the following informative references.

- [CANN DHCP] Recommendation ITU-T J.800.1, *Cable DHCP Registry*.
- [CH CAP-MIB] Recommendation ITU-T J.192, *A residential gateway to support the delivery of cable data services Annex E.1 IPCable2Home Addressing Portal (CAP) MIB requirement*.
- [CH CDP-MIB] Recommendation ITU-T J.192, *A residential gateway to support the delivery of cable data services Annex E.2 IPCable2Home DHCP Portal (CDP) MIB requirement*.



[CH CTP-MIB]	Recommendation ITU-T J.192, <i>A residential gateway to support the delivery of cable data services Annex E.3 IP-Cable2Home Test Portal (CTP) MIB requirement.</i>
[CH PSDEV-MIB]	Recommendation ITU-T J.192, <i>A residential gateway to support the delivery of cable data services Annex E.4 IP-Cable2Home Portal Services Device (PSDev) MIB requirement.</i>
[CH QOS-MIB]	Recommendation ITU-T J.192, <i>A residential gateway to support the delivery of cable data services Annex E.7 IP-Cable2Home QoS Portal (CQP) MIB requirement.</i>
[CH SEC-MIB]	Recommendation ITU-T J.192, <i>A residential gateway to support the delivery of cable data services Annex E.5 IP-Cable2Home Security (SEC) MIB requirement.</i>
[CO CSA-MIB]	CableOffice Commercial Services Annex MIB Definition, CH-SP-CO-MIB-CSA-C01-060728, July 28, 2006, <i>Cable Television Laboratories, Inc.</i>
[DOCS TEST]	DOCSIS Testing MIB Specification, CM-SP-TestMIB-D04-070829, August 29, 2007, <i>Cable Television Laboratories, Inc.</i>
[DSG]	ANSI/SCTE 106 2007, <i>DOCSIS Set-top Gateway (DSG) Interface Specification.</i>
[eDOCSIS]	Recommendation ITU-T J.126, <i>Embedded Cable Modem device specification.</i>
[IANA EN]	IANA's Enterprise-Numbers: http://www.iana.org/assignments/enterprise-numbers .
[IANA AAA]	IANA's AAA parameters register: ftp://ftp.iana.org/assignments/aaa-parameters/ .
[L2VPN]	Recommendation ITU-T J.213, <i>Layer 2 virtual private networks for IP cable modem systems.</i>
[M-OSSI]	ANSI/SCTE 141 2007, <i>Modular Operations Support System Interface Specification.</i>
[MIB-BB]	Recommendation ITU-T J.199, <i>Battery backup for cable-based devices.</i>
[MIB-CLABDEF]	Recommendation ITU-T J.800.2 (2008), <i>Cable Definition MIB Specification.</i>
[MULPI]	Recommendation ITU-T J.222.2, <i>Third-generation transmission systems for interactive cable television services – IP cable modems: MAC and Upper Layer protocols.</i>
[OC MIB-HOST2.X]	OpenCable Host Device 2.X MIB Specification, OC-SP-MIB-HOST2.X-I03-071113, November 13, 2007, <i>Cable Television Laboratories, Inc.</i>
[OSSIV2.0]	ANSI/SCTE 79-2 2002 DOCSIS 2.0 <i>Data-Over-Cable Service Interface Specifications, Operations Support System Interface Specification.</i>
[OSSIV3.0]	ANSI/SCTE 135-4 2008 DOCSIS 3.0 <i>Operations Support System Interface Specification.</i>