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IPCablecom

IPCablecom trunking gateway control protocol (TGCP): Profile 2

ITU-T Recommendation J.171.2

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IPCablecom trunking gateway control protocol (TGCP): Profile 2

Summary

This Recommendation specifies the Profile 2 referenced in ITU-T Rec. J.171.0. This Recommendation specifies a H.248 protocol profile (ITU-T Rec. H.248.1, version 2 (05/2002)) for controlling media gateways between cable networks and the PSTN. This profile is known as Trunking Gateway Control Protocol (TGCP) Profile 2 version 1. Profile 1 is specified in ITU-T Rec. J.171.1.

Source

ITU-T Recommendation J.171.2 was approved on 29 November 2005 by ITU-T Study Group 9 (2005-2008) under the ITU-T Recommendation A.8 procedure.

FOREWORD

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1 Scope

This Recommendation specifies the Profile 2 referenced in ITU-T Rec. J.171.0. This Recommendation specifies a H.248 protocol (ITU-T Rec. H.248.1, version 2 (05/2002)) profile for controlling media gateways between cable networks and the PSTN. This profile is known as Trunking Gateway Control Protocol (TGCP) Profile 2 version 1. Profile 1 is specified in ITU-T Rec. J.171.1.

2 References

2.1 Normative references

The following ITU-T Recommendations and other references contain provisions which, through reference in this text, constitute provisions of this Recommendation. At the time of publication, the editions indicated were valid. All Recommendations and other references are subject to revision; users of this Recommendation are therefore encouraged to investigate the possibility of applying the most recent edition of the Recommendations and other references listed below. A list of the currently valid ITU-T Recommendations is regularly published. The reference to a document within this Recommendation does not give it, as a stand-alone document, the status of a Recommendation.

- ITU-T Recommendation H.248.1 v2 (2002), *Gateway control protocol: Version 2*.
- ITU-T Recommendation H.248.2 (2005), *Gateway control protocol: Facsimile, text conversation and call discrimination packages*.
- ITU-T Recommendation J.161 (2001), *Audio codec requirements for the provision of bidirectional audio service over cable television networks using cable modems*.
- ITU-T Recommendation J.170 (2005), *IPCablecom security specification*.
- IETF RFC 1035 (1987), *Domain names – Implementation and specification*.
- IETF RFC 2045 (1996), *Multipurpose Internet Mail Extensions (MIME) Part One: Format of Internet Message Bodies*.
- IETF RFC 2234 (1997), *Augmented BNF for Syntax Specifications: ABNF*.
- IETF RFC 2327 (1998), *SDP: Session Description Protocol*.

2.2 Informative references

- ITU-T Recommendation J.160 (2005), *Architectural framework for the delivery of time-critical services over cable television networks using cable modems*.
- ITU-T Recommendation J.171.0 (2005), *IPCablecom trunking gateway control protocol (TGCP): Profiles overview*.
- ITU-T Recommendation J.171.1 (2005), *IPCablecom trunking gateway control protocol (TGCP): Profile 1*.
- IETF RFC 1889 (1996), *RTP: A Transport Protocol for Real-Time Applications*.
- IETF RFC 1890 (1996), *RTP Profile for Audio and Video Conferences with Minimal Control*.

3 Definitions

This Recommendation defines no new terms.

4 Abbreviations and acronyms

This Recommendation uses the following abbreviations:

ASCII	American Standard Code for Information Interchange
AVP	Audio Visual Profile
DNS	Domain Name System
IANA	Internet Assigned Numbers Authority
IP	Internet Protocol
IPSec	Internet Protocol Security
ISUP	ISDN User Part
MG	Media Gateway
MGC	Media Gateway Controller
MGCP	Media Gateway Control Protocol
MIB	Management Information Base
MTA	Multimedia Terminal Adapter
MWD	Maximum Waiting Delay
NCS	Network-based Call Signalling
NTP	Network Time Protocol
PSTN	Public Switched Telephone Network
QoS	Quality of Service
RTCP	RTP Control Protocol
RTO	Retransmission Timeout
RTP	Real-Time Transport Protocol
SDP	Session Description Protocol
SG	Signalling Gateway
SPI	Security Parameters Index
TGCP	Trunking Gateway Control Protocol
UDP	User Datagram Protocol
URI	Uniform Resource Identifier

5 General items

5.1 Architectural assumptions

This Recommendation applies to the interface between a Media Gateway Controller and a Media Gateway sitting at the boundary between an IP-Cablecom network and the PSTN.

The overall architecture for interconnecting IP-Cablecom networks with the PSTN is described in ITU-T Rec. J.160.