ITU-T

H.248.41

(05/2006)

TELECOMMUNICATION STANDARDIZATION SECTOR OF ITU

SERIES H: AUDIOVISUAL AND MULTIMEDIA SYSTEMS Infrastructure of audiovisual services – Communication procedures

Gateway control protocol: IP domain connection package

ITU-T Recommendation H.248.41



ITU-T H-SERIES RECOMMENDATIONS

AUDIOVISUAL AND MULTIMEDIA SYSTEMS

CHARACTERISTICS OF VISUAL TELEPHONE SYSTEMS	H.100-H.199
INFRASTRUCTURE OF AUDIOVISUAL SERVICES	
General	H.200-H.219
Transmission multiplexing and synchronization	H.220-H.229
Systems aspects	H.230-H.239
Communication procedures	H.240-H.259
Coding of moving video	H.260-H.279
Related systems aspects	H.280-H.299
Systems and terminal equipment for audiovisual services	H.300-H.349
Directory services architecture for audiovisual and multimedia services	H.350-H.359
Quality of service architecture for audiovisual and multimedia services	H.360-H.369
Supplementary services for multimedia	H.450-H.499
MOBILITY AND COLLABORATION PROCEDURES	
Overview of Mobility and Collaboration, definitions, protocols and procedures	H.500-H.509
Mobility for H-Series multimedia systems and services	H.510-H.519
Mobile multimedia collaboration applications and services	H.520-H.529
Security for mobile multimedia systems and services	H.530-H.539
Security for mobile multimedia collaboration applications and services	H.540-H.549
Mobility interworking procedures	H.550-H.559
Mobile multimedia collaboration inter-working procedures	H.560-H.569
BROADBAND AND TRIPLE-PLAY MULTIMEDIA SERVICES	
Broadband multimedia services over VDSL	H.610-H.619

For further details, please refer to the list of ITU-T Recommendations.

ITU-T Recommendation H.248.41

Gateway	control	protocol:	IP	domain	connection	package
		process.		WO III WIII		Parenta St

Summary

This Recommendation defines certain parameters and mechanisms for supporting the interconnection of a packet network with another network. It is only applicable to the IP-based H.248 termination and provides such information as the IP Realm Identifier used to indicate to which packet network the media represented by the termination belongs.

Source

ITU-T Recommendation H.248.41 was approved on 29 May 2006 by ITU-T Study Group 16 (2005-2008) under the ITU-T Recommendation A.8 procedure.

FOREWORD

The International Telecommunication Union (ITU) is the United Nations specialized agency in the field of telecommunications. The ITU Telecommunication Standardization Sector (ITU-T) is a permanent organ of ITU. ITU-T is responsible for studying technical, operating and tariff questions and issuing Recommendations on them with a view to standardizing telecommunications on a worldwide basis.

The World Telecommunication Standardization Assembly (WTSA), which meets every four years, establishes the topics for study by the ITU-T study groups which, in turn, produce Recommendations on these topics.

The approval of ITU-T Recommendations is covered by the procedure laid down in WTSA Resolution 1.

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

In this Recommendation, the expression "Administration" is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

Compliance with this Recommendation is voluntary. However, the Recommendation may contain certain mandatory provisions (to ensure e.g. interoperability or applicability) and compliance with the Recommendation is achieved when all of these mandatory provisions are met. The words "shall" or some other obligatory language such as "must" and the negative equivalents are used to express requirements. The use of such words does not suggest that compliance with the Recommendation is required of any party.

INTELLECTUAL PROPERTY RIGHTS

ITU draws attention to the possibility that the practice or implementation of this Recommendation may involve the use of a claimed Intellectual Property Right. ITU takes no position concerning the evidence, validity or applicability of claimed Intellectual Property Rights, whether asserted by ITU members or others outside of the Recommendation development process.

As of the date of approval of this Recommendation, ITU had not received notice of intellectual property, protected by patents, which may be required to implement this Recommendation. However, implementors are cautioned that this may not represent the latest information and are therefore strongly urged to consult the TSB patent database.

© ITU 2006

All rights reserved. No part of this publication may be reproduced, by any means whatsoever, without the prior written permission of ITU.

CONTENTS

			Page
1	Scope	3	1
2	Refer	ences	1
3	Term	s and Definitions	1
4	Abbre	eviations	1
5	IP Do	omain Connection Package	1
	5.1	Properties	2
	5.2	Events	2
	5.3	Signals	2
	5.4	Statistics	2
	5.5	Error Codes	2
	5.6	Procedures	2

ITU-T Recommendation H.248.41

Gateway control protocol: IP domain connection package

1 Scope

This package defines certain parameters and mechanisms for supporting the interconnection of a packet network with another network. The package is only applicable to IP-based H.248 terminations. The package is therefore applicable for:

- IP-to-IP H.248 media gateways, and
- IP-to-non-IP H.248 media gateways.

2 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 (2005), Gateway control protocol: Version 3.

3 Terms and definitions

This Recommendation defines the following term:

3.1 IP Address Realm or IP Realm: Is defined in IETF RFC 2663, clause 2.1, as a network domain in which the network addresses are uniquely assigned to entities such that datagrams can be routed to them. Routing protocols used within the network domain are responsible for finding routes to entities given their network addresses.

4 Abbreviations

This Recommendation uses the following abbreviations:

IP Internet Protocol

MG Media Gateway

MGC Media Gateway Controller

5 IP Domain Connection Package

Package Name: IP Domain Connection Package

Package ID: ipdc (0x009d)

Description: This package defines certain parameters and mechanisms for supporting the

interconnection of a packet network with another network.

Version: 1

Extends: None

5.1 Properties

5.1.1 IP Realm Identifier

Property Name: IP Realm Identifier

Property ID: realm (0x0001)

Description: This property is used to indicate to which packet network the media

represented by the termination belongs.

Type: String
Possible values: String

Default: Provisioned between the MGC and the MG.

Defined in: LocalControl
Characteristics: read/write

5.2 Events

None.

5.3 Signals

None.

5.4 Statistics

None.

5.5 Error Codes

None.

5.6 Procedures

The value of the IP Realm Identifier property is a string, which may be in a domain name format, e.g., "mynet.net", or any other string format.

The IP Realm Identifier should be provisioned between the MGC and the MG. Each of the different IP realms possibly interconnecting with a MG should have a different identifier. The MGC and the MG can provision a default IP realm and configure it on the MG. If the MGC sends a command to the MG to create an IP-based H.248 termination without the IP Realm Identifier property, the MG will consider it as indicating the default realm.

If the value of the IP Realm Identifier property sent by the MGC cannot be recognized by the MG, the MG will fail to create the IP-based H.248 termination and return the corresponding error code to the MGC, e.g., 449 (Unsupported or Unknown Parameter or Property Value).

SERIES OF ITU-T RECOMMENDATIONS

Series A	Organization of the work of ITU-T
Series D	General tariff principles
Series E	Overall network operation, telephone service, service operation and human factors
Series F	Non-telephone telecommunication services
Series G	Transmission systems and media, digital systems and networks
Series H	Audiovisual and multimedia systems
Series I	Integrated services digital network
Series J	Cable networks and transmission of television, sound programme and other multimedia signals
Series K	Protection against interference
Series L	Construction, installation and protection of cables and other elements of outside plant
Series M	Telecommunication management, including TMN and network maintenance
Series N	Maintenance: international sound programme and television transmission circuits
Series O	Specifications of measuring equipment
Series P	Telephone transmission quality, telephone installations, local line networks
Series Q	Switching and signalling
Series R	Telegraph transmission
Series S	Telegraph services terminal equipment
Series T	Terminals for telematic services
Series U	Telegraph switching
Series V	Data communication over the telephone network
Series X	Data networks, open system communications and security
Series Y	Global information infrastructure, Internet protocol aspects and next-generation networks
Series Z	Languages and general software aspects for telecommunication systems