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SERIES H: AUDIOVISUAL AND MULTIMEDIA SYSTEMS

Infrastructure of audiovisual services – Communication
procedures

Gateway control protocol: ITU-T H.248 support for media-oriented negotiation acceleration (MONA)

Recommendation ITU-T H.248.72

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, TRIPLE-PLAY AND ADVANCED MULTIMEDIA SERVICES	
Broadband multimedia services over VDSL	H.610–H.619
Advanced multimedia services and applications	H.620–H.629
IPTV MULTIMEDIA SERVICES AND APPLICATIONS FOR IPTV	
General aspects	H.700–H.719
IPTV terminal devices	H.720–H.729
IPTV middleware	H.730–H.739
IPTV application event handling	H.740–H.749
IPTV metadata	H.750–H.759
IPTV multimedia application frameworks	H.760–H.769
IPTV service discovery up to consumption	H.770–H.779

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

Recommendation ITU-T H.248.72

Gateway control protocol: ITU-T H.248 support for media-oriented negotiation acceleration (MONA)

Summary

Recommendation ITU-T H.248.72 defines two ITU-T H.248 packages that are intended for media gateways and media gateway controllers designed to support the media-oriented negotiation acceleration (MONA) negotiation procedures from Recommendation ITU-T H.324. More specifically, this Recommendation contains:

- The "MONA Preference" package that supports the sending and reception of MONA preference messages as well as the handling of the completion conditions; the detection of legacy conditions allowing for a swift fallback to Recommendation ITU-T H.245 interworking and the sending and reception of media in preconfigured channels, the so-called media preconfigured channel (MPC).
- The "H.245 Transport for SPC Use" package, that supports the sending and reception of ITU-T H.245 messages using the signalling preconfigured channel (SPC) during a MONA negotiation procedure.

History

Edition	Recommendation	Approval	Study Group
1.0	ITU-T H.248.72	2009-12-14	16

FOREWORD

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CONTENTS

		Page
1	Scope	1
2	References.....	2
3	Definitions	2
4	Abbreviations and acronyms	2
5	Conventions	3
6	H.245 Transport for SPC Use package.....	3
	6.1 Properties	3
	6.2 Events	3
	6.3 Signals	4
	6.4 Statistics.....	4
	6.5 Error codes.....	4
	6.6 Procedures	5
7	MONA preference package	5
	7.1 Properties	6
	7.2 Events	7
	7.3 Signals	9
	7.4 Statistics.....	10
	7.5 Error codes.....	10
	7.6 Procedures	10

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Recommendation ITU-T H.248.72

Gateway control protocol: ITU-T H.248 support for media-oriented negotiation acceleration (MONA)

1 Scope

This Recommendation defines ITU-T H.248 packages that allow a decomposed gateway to realize the media-oriented negotiation acceleration (MONA) negotiation procedures specified in Annex K of [ITU-T H.324].

During the MONA negotiation, terminals exchange their capabilities depending on which of the methods for establishing media channels are supported:

- signalling preconfigured channel (SPC);
- media preconfigured channel (MPC);
- accelerated ITU-T H.245 procedure (ACP).

The ACP method is supported in all terminals. The exchange of the MONA preference messages allows the determination of which of the three methods is used.

The "MONA Preference" package supports the sending and reception of MONA preference messages. It provides the following capabilities:

- Sending and reception of MONA preference messages including automatic retransmission.
- Sending and reception of media in preconfigured channels during the MONA negotiation procedures.
- Detection of legacy condition: this capability allows for a swift fallback to [ITU-T H.245] interworking.
- Completion of the MONA negotiation procedures.

The "MONA Preference" package is thus mandatory for any decomposed gateway that supports the ITU-T H.324, Annex K MONA procedures.

The "MONA Preference" package also includes the needed ITU-T H.248 capabilities for the use of the MPC method to establish media channels. These MPC related capabilities within the package only need to be supported by decomposed gateways supporting MPCs.

The "H.245 Transport for SPC Use" package allows the sending and reception of ITU-T H.245 messages using the SPC method during a MONA negotiation procedure. It also allows for the automatic retransmission of the messages to the remote end. This package is defined as an extension of the "H.245 Transport" package.

Decomposed gateways that support the SPC method for establishing media channels need to support the "H.245 Transport for SPC Use" package in addition to the "MONA Preference" package.

The ACP method is used when the terminals do not support another common method, SPC or MPC, or in order to establish missing channels when not all media channels have been already established with MPC. The ACP procedures are realized by exchanging ITU-T H.245 messages. The required ITU-T H.248 capabilities are provided by the [ITU-T H.248.12 Amd.2] H.245 transport package.