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

**Gateway control protocol: Generic
Announcement package**

ITU-T Recommendation H.248.7

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ITU-T Recommendation H.248.7

Gateway control protocol: Generic Announcement package

Summary

This Recommendation defines a generic announcement package for use with the H.248.1 Gateway Control Protocol. The generic announcement package provides a media gateway controller with the ability to control announcements in a media gateway. Control is provided by the definition of announcement events (for example, "announcement completed") and announcement signals (for example, "play a specified announcement"). As defined in ITU-T Rec. H.248.1, a "package" is an extension to H.248.1 that supports specific behaviour.

The changes introduced by this new edition are:

- removal of superfluous information;
- announcement playing clarification;
- correction of announcement package editorial error.

NOTE – This Recommendation has been renumbered. It was previously known as ITU-T Rec. H.248, Annex K.

Source

ITU-T Recommendation H.248.7 was approved on 15 March 2004 by ITU-T Study Group 16 (2001-2004) under the ITU-T Recommendation A.8 procedure.

NOTE – This text was approved as Corrigendum 1 to ITU-T Rec. H.248.7 (2000), but due to the number of modifications, it was decided to publish it as a new edition.

FOREWORD

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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.

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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.

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

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ITU-T Recommendation H.248.7

Gateway control protocol: Generic Announcement package

1 Scope

This Recommendation defines a package that extends the applicability of the H.248.1 Gateway Control Protocol Recommendation. Specifically, this Recommendation defines a generic announcement package for use with the H.248.1 Gateway Control Protocol. The generic announcement package provides a media gateway controller with the ability to control announcements in a media gateway. Control is provided by the definition of announcement events (for example, "announcement completed") and announcement signals (for example, "play a specified announcement"). As defined in ITU-T Rec. H.248.1, a "package" is an extension to H.248.1 that supports specific behaviour.

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 (2002), *Gateway control protocol: Version 2*.

3 Abbreviations

This Recommendation uses the following abbreviations:

- OO On/Off (Signal type defined in ITU-T Rec. H.248.1)
- TO Timeout (Signal type defined in ITU-T Rec. H.248.1)

4 Generic announcement package

PackageID: an, 0x001d

Version: 1

Extends: None

That package supports announcement functionality at a Media Gateway. This announcement could be realized by the Media Gateway as different sorts of messaging. For example: it could be an audio announcement, a text message or a composition of text messages.

4.1 Properties

None.

4.2 Events

None.

4.3 Signals

4.3.1 Fixed: Announcement play

SignalID: apf (0x0001)

Description: Initiates the play of a fixed announcement

description:

SignalType: TO (default)

SignalDuration: Provisioned

Parameters:

Announcement name

ParameterID: an (0x0001)

Type: enumeration of announcements

Number of cycles

ParameterID: noc (0x0002)

Type: integer

Values: any

0 is used to represent an announcement that continuously plays or loops (OO).

Default: provisioned per announcement in the MG

Announcement Variant

ParameterID: av (0x0003)

Type: string

Indicates a specific announcement variant for instance voice type or language.

Announcement Direction

ParameterID: di (0x0004)

Type: enum

Values: External ext (0x01),
Internal int (0x02),
Both both (0x03)

Default: ext

4.3.2 Variable: Announcement play

SignalID: apv (0x0002)

Description: Initiates the play of a variable announcement

description:

SignalType: TO (default)

SignalDuration: Provisioned

Parameters:

Announcement name

ParameterID: an (0x0001)

Type: enumeration of announcements

Default: provisioned per announcement in the MG

Number of cycles

ParameterID: noc (0x0002)

Type: integer

Values: any, 0 is used to represent an announcement that continuously plays or loops (OO).

Default: 1

Announcement Variant

ParameterID: av (0x0003)

Type: string

Indicates a specific announcement variant for instance voice type or language.

Number

ParameterID: num (0x0004)

Type: integer

Values: any

Specific parameters interpretation

ParameterID: spi (0x0005)

Type: enumeration

Values: any

Specific parameters

ParameterID: sp (0x0006)

Type: string

Values: any

Default is provisioned for every announcement.

Announcement Direction

ParameterID: di (0x0007)

Type: enum

Values: External ext (0x01),
Internal int (0x02),
Both both (0x03)

Default: ext

4.4 Statistics

None.

4.5 Procedures

For each announcement, a default duration and number of cycles is defined in the MG. An MG receiving such a signal plays the indicated announcement (indicated by the name parameter) for the duration specified by the noc parameter or the signal duration. The one that expires first will stop the announcement. If noc parameter and/or duration is not included, the MG uses the corresponding announcements defaults.

If the signal duration is 0, the announcement l is played for the time specified by the noc parameter, or when the noc parameter is not included in the signal, the announcement is played by its cycle default value. If the parameter noc is 0, the signal is played for the time specified by the signal duration, or when the duration is not included in the signal, the announcement is played by its duration default value.

To provide additional information when an announcement is to be played, the MGC sends a play variable announcement signal to the MG. ITU-T Rec. H.248.1 does not guarantee in-sequence processing of transactions. To ensure sequential playing of an announcement, a transaction reply for a command that affects the announcement signal should be received by the Media Gateway Controller before it sends the additional variable announcement data. If the Media Gateway receives a signal with the keep active flag with additional variable announcement data for an already playing announcement, it shall continue playing the announcement according to the additional data. An MG receiving such a signal plays the indicated announcement (indicated by the name parameter) for the duration specified by the noc parameter or the signal duration. The one that expires first will stop the announcement. If noc parameter and/or duration is not included, the MG uses the corresponding announcement defaults.

If the signal duration is 0, the announcement l is played for the time specified by the noc parameter, or when the noc parameter is not included in the signal, the announcement is played by its cycle default value. If the parameter noc is 0, the signal is played for the time specified by the signal duration, or when the duration is not included in the signal, the announcement is played by its duration default value.

Table 1 shows the possible combinations of Signal type, Duration, Number of Cycles and the resultant effect.

Table 1/H.248.7 – Announcement playing result

Signal type	Signal duration	Number of cycles (iterations)	Result
Brief	Not included	Not included	Plays the message a number of times up to default duration or a default number of times whichever one is shorter. The message may be stopped part way through a signal.
		0	Plays the message n times up to the default duration.
		1	Plays the message once or for the default duration whichever one is shorter. The message may be stopped part way through a signal.
		n times	Plays the message a number of times up to default duration or n number of times whichever one is shorter. The message may be stopped part way through a signal.
	0	Not included	Plays the message n times according to the default Number of Cycles.
		0	Plays multiple iterations (endless play)
		n times	Plays the message n times
	Duration > per-announcement Duration	Not included	Plays the message a number of times for the specified duration or a default number of times whichever one is shorter. The message may be stopped part way through a signal.

Table 1/H.248.7 – Announcement playing result

Signal type	Signal duration	Number of cycles (iterations)	Result	
Brief	Duration > per-announcement Duration	0	Plays the message a number of times up to the specified duration. The message may be stopped part way through a signal.	
		1	Plays the message once	
		n times	Plays the message n times up to the specified duration. The message may be stopped part way through a signal.	
	Duration ≤ per-announcement Duration	Not included, 0, 1 or n times	Plays the message for the specified duration, message stops before being fully played.	
Timeout	Not included	Not included	Plays the message a number of times for the default duration or a default number of times whichever one is shorter.	
		0	Plays the message n times up to the default duration.	
		1	Plays the message once up to the default duration	
		n times	Plays the message n times up to the default duration.	
	0	Not included	Plays the message n times according to the default Number of Cycles.	
		0	Plays multiple iterations (endless play)	
		n times	Plays the message n times	
	Duration > per-announcement Duration	Not included	Plays the message a number of times for the specified duration or a default number of times whichever one is shorter. The message may be stopped part way through a signal.	
		0	Plays multiple iterations until the specified duration	
		1	Plays the message once, as one iteration is shorter than duration	
		n times	Plays the message a number of times for the specified duration or the specified number of times whichever one is shorter. The message may be stopped part way through a signal.	
	Duration ≤ per-announcement Duration	Not included, 0, 1, n times	Plays for the specified duration, message stops before the message fully plays.	
	On/Off	Ignored	Not included or 0	Plays multiple iterations (endless play)
			Once	Plays multiple iterations (endless play)
			n times	Plays multiple iterations (endless play)
	NOTE – This table is only applicable to this Recommendation. The behaviour of signal playing is modified by the use of the Number of Cycles parameter.			

If the "Specific parameters" parameter is included, the MG uses the "Specific parameters interpretation" parameter to identify and interpret the particular type of information to be included in relation to the announcement. Examples of the types of Specific parameters include a telephone number, date, or time.

The direction parameter can be used to indicate the direction that the announcement is to be sent. External (default) indicates that the announcement is sent from the MG to an external point. Internal indicates that the announcement is played into the MG to the other terminations. Both indicate internal and external behaviour.

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