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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.

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 prepared by ITU-T Study Group 16 (2001-2004) and approved under the WTSA Resolution 1 procedure on 17 November 2000.

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.

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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.

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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.

- ITU-T Recommendation H.248.1 (2002), *Gateway control protocol*.

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 realised 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: OO, TO (default)

SignalDuration: Provisioned

NotifyCompletion: Provisioned (default false)

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: OO, TO (default)

SignalDuration: Provisioned

NotifyCompletion: Provisioned (default false)

Parameters:

Announcement name

ParameterID: an (0x0001)

Type: enumeration of announcements

Parameter Number of Cycles – 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 (0x0007)

Type: enum

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

Default: ext

Number of cycles

ParameterID: noc (0x0002)

Type: integer

Values: any

Default: 1

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.

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.

To provide additional information when an announcement is to be played, the MGC sends a play variable announcement signal to the MG. H.248.1 doesn't 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. 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 are 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 "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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