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

**Gateway control protocol: Quality Alert Ceasing
package**

ITU-T Recommendation H.248.13

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ITU-T Recommendation H.248.13

Gateway control protocol: Quality Alert Ceasing package

Summary

This Recommendation specifies an event used by a media gateway to indicate to the media gateway controller that a Quality Alert on a bearer has ceased.

NOTE – This Recommendation has been renumbered. It was formerly known as ITU-T Rec. H.248, Annex M5.

Source

ITU-T Recommendation H.248.13 was prepared by ITU-T Study Group 16 (2001-2004) and approved under the WTSA Resolution 1 procedure on 29 March 2002.

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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ITU-T Recommendation H.248.13

Gateway control protocol: Quality Alert Ceasing package

1 Scope

This Recommendation specifies an event used by a media gateway to indicate to the media gateway controller that a Quality Alert on a bearer has ceased. The package defined in this Recommendation extends a previously defined package. It contains an event to indicate Quality Alert Ceasing on a particular bearer.

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 Definitions

See ITU-T Rec. H.248.1.

4 Abbreviations

This Recommendation uses the following abbreviations:

MG Media Gateway

MGC Media Gateway Controller

5 Quality Alert Ceasing package

PackageID: qac, 0x0037

Description: This package defines the Quality Alert Ceasing event, complementing the existing Quality Alert event defined within the Network Package E.11/H.248.1.

Version: 1

Extends: nt (0x000b) version1

5.1 Properties

None.

5.2 Events

5.2.1 Event name: Quality Alert Ceasing

EventID: qualertcease, 0x0004

Description:

The termination generates this event upon detection of ceasing loss of quality alerts and a return to acceptable quality on the network connection.

EventsDescriptor Parameters:

Threshold

ParameterId: th (0x0001) [optional]

Description:

This parameter specifies the alert threshold level where the MG shall consider that the quality of the stream is at an acceptable level.

Type: integer

Possible Values:

threshold for percent of quality loss measured, calculated based on a provisioned method, that could take into consideration packet loss, jitter, and delay for example.

ObservedEventsDescriptor Parameters:

None.

5.3 Signals

None.

5.4 Statistics

None.

5.5 Procedures

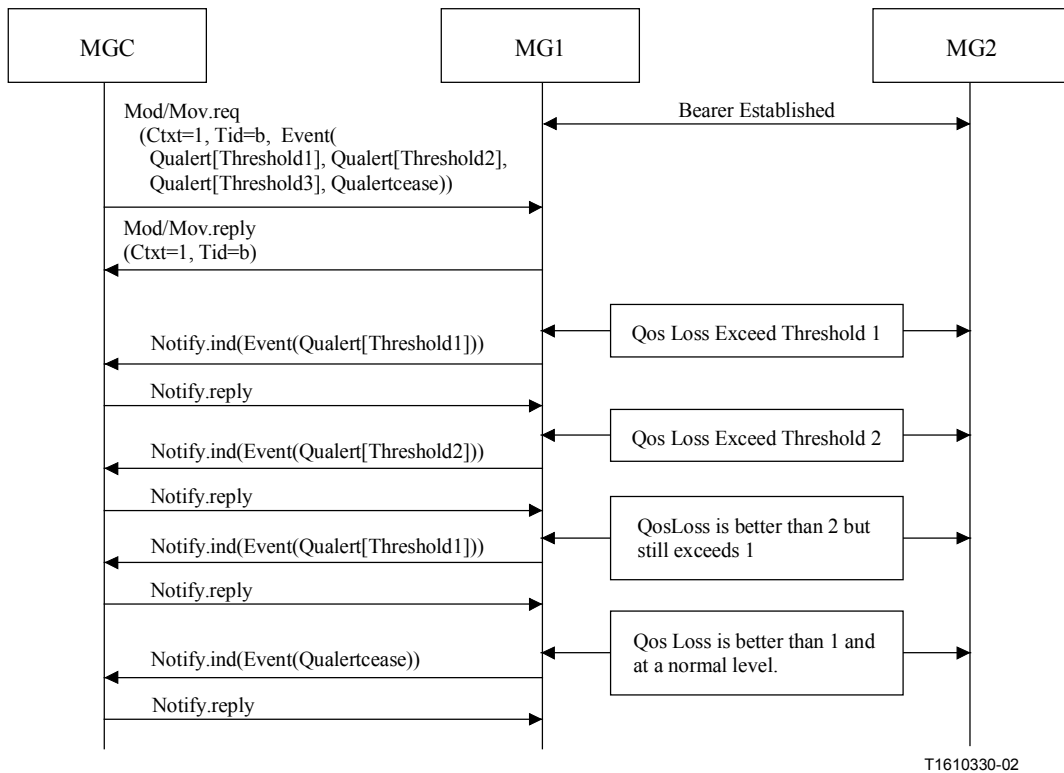
The quality alert ceasing package builds on the existing quality alert event specified in the network package. The additional event specified in this package provides a mechanism to report when a specific network condition ceases.

The MGC shall set this event on the termination of the bearer that it is interested in monitoring the quality on.

The MG shall send this event in the case that:

- it had previously notified the MGC of a Network Package Quality Alert event; and
- the quality of the bearer is now at an acceptable level, or less than the threshold level parameter if set with the qualertcease event and no quality alerts are outstanding.

Figure 1 shows example quality alert procedures. The quality alert and alert ceasing events may also be contained in an Add.req or before the bearer is established.



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Figure 1/H.248.13 – Quality Alert Ceasing procedures

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