

Megaco ATM Package

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1. Abstract

Defines a Package for ATM bearer management for Megaco/H.248

2. Conventions used in this document

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in [RFC-2119](#) [2].

3. ATM Package

PackageID: atm (0x00xx)

Version: 1

Extends: Network Package version 1

This package is used to support cell based multimedia data transfer by ATM.

3.1 Properties

None

3.2 Events

3.2.1 VC Change

<Lastname>

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Event name: VCChange

EventID: 0x01

Description: This event occurs whenever a change to VC occurs.
For example VC has been established or a VC has been modified.

EventsDescriptor Parameters:

Type

Parameter Name: Type

ParameterID: 0x01

Type: Enumeration

Possible values:

All, [0x00] All Bearer Events

Est, [0x01] Bearer Established

Mod, [0x02] Bearer Modified

Cut, [0x03] Bearer Cut-through

Mfail, [0x04] Bearer Modification Failure

Note: For release indication see: General Package H.248 Sect
E.1.2 Cause Event.

Description: This is used to request the MG to notify it of a
VC event.

ObservedEventsDescriptor Parameters:

Type

Parameter Name: Type

ParameterID: 0x01

Type: Enumeration

Possible values:

Est, [0x01] Bearer Established

Mod, [0x02] Bearer Modified

Cut, [0x03] Bearer Cut-through
Mfail, [0x04] Bearer Modification Failure
Note: For release indication, see General Package H.248 Sect
E.1.2 Cause Event.

Description: This is used to indicate why the VC Change was
generated by the MG.

3.2.2 Profile Element Transition

EventID: pftrans, 0x0001

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This event is used with AAL2 adaptation only. Indicates a change
in the profile element sent. Profile elements indicating silence
should not trigger this event.

EventDescriptor parameters

None

ObservedEventsDescriptor parameters

Profile Element

ParameterID: pfelmt, 0x01

Type: integer.

Possible values: a row number in a profile table to which
the switch is made. Rows are counted downward, beginning
from 1.

3.3 Signals

None

3.4 Statistics

Cells Sent

StatisticID: cs (0x0004)

Type: double

Possible Values: any 64 bit integer

Cells Received

StatisticID: cr (0x0005)

Type: double

Possible Values: any 64 bit integer

Cell Loss

StatisticID: cl (0x0006)

If the termination represents a VCC, this is the total number of ATM cells lost, in the direction towards the gateway.

If the termination represents a CID within an AAL2, it is the number of AAL2 common part sublayer (CPS) packets lost, in the direction towards the gateway. For other terminations, or if these losses cannot be assessed, then the MG omits this parameter.

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Type: double

Possible Values: any 64 bit integer

Jitter

StatisticID: jit (0x0007)

If the termination represents a VCC, this is the interarrival jitter for ATM cells. If the termination represents a CID within an AAL2 VCC, this is the interarrival jitter for AAL2 common part sublayer (CPS) packets. If this cannot be determined, then it is omitted.

Delay

StatisticID:delay (0x0008)

Average cell transmission delay. This requires the use of ATM performance monitoring techniques. If it is not possible to assess this delay, it is omitted.

3.5 Procedures

Terminations representing VCCs are placed in a special context.

The contextId of that context may be specified by a profile, or by provision PVCs known to the MG would appear in that context at boot time. An SVC is c

by Adding an appropriate (ephemeral) termination to that context. An SVC is down by Subtracting the termination from the Context. For AAL1 or AAL2 VCCs terminations are created with the Add command specifying the channel identifier the CID field of the SDP or Annex C and referencing the VPI/VCI of the VCC the channel is part of. For AAL1 VCCs, channels not assigned such a termination are idle.

4. Acknowledgments

This work is based on the MGCP package draft by Rajesh Kumar of Cisco Systems. The VC Change event is modeled after the BNCChange Event of ITU-T Q.1950.

5. Author's Addresses

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