RTP MIB draft 5
<draft-ietf-avt-rtp-mib-05.txt>

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RTP MIB draft 5 Overview

1. Issues raised during (first) WG Last Call

2. Proposed changes to the RTP MIB

3. Draft 6 and resumption of WG Last Call

4. H.341 status

Issues Raised During WG Last Call

1. Clarifications

☞ Name changes for consistency: rtpSenderSRs, rtpRcvrRRs

☞ Clarifications in DESCRIPTIONs: rtpSessionPT

2. Errors

☞ UTF-8: Some SDES items used DisplayString instead of Utf8String

☞ CONFORMANCE section: rtpMonitorCompliance had problems

3. Issue: Getting indexes for Session, Sender, Receiver tables

☞ Design issue: Table scans used to collect indexes

  ▲ rtpSessionIndex in the Session table

  ▲ Sender SSRC in the Sender table

  ▲ Receiver SSRC and Sender SSRC in the Receiver table

☞ Design question: How to manage RTP systems?

  ▲ How do you get the RTP session addresses?

  ▲ Control protocol has a role to play: *Loosely-controlled, H.323, etc.*

  ▲ Management of RTP Sessions will often be through a control protocol

Efficient Access to Table Entries

1. Possible design flaw in the RTP MIB

☞ NMS may need to scan entire tables to find individual entries

☞ Potential issue for loosely-controlled multicast RTP Sessions

☞Not an issue for H.323

2. Solution constraints

☞Maintain efficient indexing

☞Don't force implementations to solve a non-problem

☞ But provide a solution to implementations that require it

3. Proposed solution: 3 optional inverse-index tables

☞ Map RTP Session Address to an rtpSessionIndex

☞ Map RTP Sender Address, rtpSessionIndex to Sender SSRC

☞ Map RTP Receiver Address, rtpSessionIndex to SSRC pair

Inverse-Index Table for RTP Session Table

rtpSessionInverseTable (rtpSessionDomain,

rtpSessionRemAddr,

rtpSessionLocAddr)

- rtpSessionIndex

rtpSessionTable (rtpSessionIndex)

- rtpSessionDomain
- rtpSessionRemAddr
- rtpSessionLocAddr
- ...

If the NMS has a particular transport address pair, it can get
the rtpSessionIndex for a particular rtpSessionTable conceptual row

Inverse-Index Table for RTP Sender Table

rtpSenderInverseTable (rtpSessionDomain,

rtpSenderAddr,

rtpSessionIndex,

rtpSenderSSRC)

rtpSenderTable (rtpSessionIndex, rtpSenderSSRC)

- rtpSenderAddr

- rtpSenderSSRC

- ...

Given an RTP Sender's address, the NMS can Get any and all Session indexes and Sender SSRCs for that Sender

Inverse-Index for RTP Receiver Table

rtpRcvrInverseTable (rtpSessionDomain,

rtpRcvrAddr,

rtpSessionIndex,

rtpRcvrSRCSSRC,

rtpRcvrSSRC)

rtpRcvrTable (rtpSessionIndex, rtpSenderSSRC)

- rtpRcvrAddr

- rtpRcvrSSRC

- rtpRcvrSRCSSRC

- ...

Given an RTP Receiver's address, the NMS can Get any and
all Session indexes and SSRC pairs for that Receiver

We have made corrections and clarifications

☞ SDES items (CNAME) use Utf8String from RFC 2287 encoding

☞ Errors with rtpMonitorCompliance section fixed

We have added 3 optional, inverse-index tables

We will resume WG Last Call after this IETF meeting

☞ Submit draft 6 and resume Last Call

H.341 Status

H.341 is now an ITU Standard

☞Collection of MIBs for management H-series conferencingt

☞RTP MIB is referenced

☞Second version of H.341 is underway, Irina Suconick is chair