RTP MIB v3

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RTP MIB v3 Overview

1. **Changes from Version 2**
2. **Structure of the RTP MIB**
3. **H-series MIBs and the RTP MIB**
4. **Last Call issues**

Background and Motivation

1. **Hastens adoption of RTP applications in business**
   - ☞ For tracking session info, protocol operation, loss, delay variation
   - ☞ Fits in with standard-management platforms
   - ☞ Eases deployment of real-time applications
2. **NOC-based management of MC RTP applications**
   - ☞ Permits monitoring without receiving the actual data
   - ☞ RTP MIB enables receiver monitoring at any sender
3. **Permits integrated management of RTP applications**
   - ☞ SNMP mgt application for routing, connectivity, host functions
   - ☞ Single application used in place of bundle of tools
4. **Common solution for a variety of control protocols**
   - ☞ loosely-coupled, H-series, SIP, RTSP

Changes from Version 2

Changes were motivated by

- ❍ Reviewer's comments (ITU SG16 and Bert Wijnen)
- ❍ Quest to simplify and promote interoperable implementations

Major changes introduced in Version 3

① Renamed MIB definitions to RTP-MIB and module to rtpMIB

② Changed OID structure to current IETF conventions

③ Several clarifications made to DESCRIPTION clauses

④ Use 'noSuchInstance' rather than 'noSuchObject' in rtpRcvrRTT

⑤ Changed media counters to Counter64 from Counter32

⑥ Separated Compliances section for host and for monitor

⑦ Use InterfaceIndexOrZero instead of redefining InterfaceIndex

Structure of the RTP MIB

rtpSessionIndex

rtpSessionTable

- rtpSessionIndex
- rtpSessionDomain
- rtpSessionRemAddr
- rtpSessionLocAddr
- rtpSessionIfAddr
- rtpSessionSenderJoins
- rtpSessionReceiverJoins
- rtpSessionByes
- rtpSessionStartTime
- rtpSessionMonitor
- rtpSessionRowStatus

rtpSenderTable

- rtpSenderSSRC
- rtpSenderCNAME
- rtpSenderAddr
- rtpSenderPackets
- rtpSenderOctets
- rtpSenderTool
- rtpSenderSRs
- rtpSenderSRTime
- rtpSenderPT
- rtpSenderStartTime

rtpRcvrTable

- rtpRcvrSrcSSRC
- rtpRcvrSSRC
- rtpRcvrCNAME
- rtpRcvrAddr
- rtpRcvrRTT
- rtpRcvrLostPackets
- rtpRcvrJitter
- rtpRcvrRRs
- rtpRcvrTool
- rtpRcvrRRTime
- rtpRcvrPT
- rtpRcvrPackets
- rtpRcvrOctets
- rtpRcvrStartTime

H-series MIBs and the RTP MIB

RTP MIB can be used by a variety of RTP applications

- ☞ RTP MC monitor with SNMP mgt app using SDP control
- ☞ RTP management of H-series devices using H.323 control

H-series MIBs effort underway

- ☞ H.323: Call Signalling, RAS, Terminal, Gatekeeper, MC, MP
- ☞ H.320: Call Signalling, H.221, Entity, Terminal, MCU
- ☞ H.245

RTP MIB to be referenced by H-series MIBs

- ☞ For session information, loss, delay, RTP protocol operation

Last Call

1. **Reference implementation is available at http://developer.intel.com/ial/mib/index.htm**
   - ☞ FreeBSD RTP Monitor
   - ☞ Windows SNMP RTP management application
2. **Currently resolving issues with Ascend and Telogy**
3. **Propose to go to Last Call**