draft-ietf-rserpool-mib-01.txt
Management Information Base Definition
for
Reliable Server Pooling

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Thomas Dreibholz's Reliable Server Pooling Page
http://tdrwww.exp-math.uni-essen.de/dreibholz/rserpool/
RSerPool MIB Change Log

- Updates in Version 01
  - Update of MIB Definition to current ASAP and ENRP status:
    - Support of IPv6 Addresses
      - a transport endpoint may have IPv4 and/or IPv6 addresses
    - PEs also have ASAP Endpoint Definition
      - necessary for ENRP Server Takeover Procedure:
        to send ASAP Endpoint Keep-Alive to with Home-Bit set
    - Policy Information
      - Support of all policies in draft-ietf-rserpool-policies-01.txt
  - Multiple ENRP servers on one node
    - e.g. different ENRP servers for different operation scopes
The ENRP Server MIB
Nesting Structure

- enrpServerTable
  - poolTable
    - poolElementTable
      - asapTransportAddrListTable
      - userTransportAddrListTable
    - enrpAddrListTable
  - peerTable
    - peerAddrListTable

List of ENRP servers
Pools for each ENRP server
PEs of each pool
ASAP addr. for each PE
Application addr. for each PE
ENRP addr. of each ENRP srv.
Peer list of each ENRP srv.
ENRP addr of each peer

To Do:
Add statistics counters for ASAP and ENRP communication
(e.g. amount of registrations, endpoint unreachables, takeovers, ...)

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The Pool Element MIB
Nesting Structure

- **poolTable**
  - **poolElementTable**
    - asapTransportAddrListTable
    - userTransportAddrListTable

**Pools on this node**
- PEs of each pool

**Idea: Reuse structures from ENRP server MIB:**
- PEs on a node can be presented by table of pools with certain PE entries

**To Do:**
Add statistics counters for ASAP communication
(e.g. amount of registrations, server hunts, endpoint keep-alives, ...)

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The Pool User MIB
Nesting Structure

- poolUserTable

Contents of a PU entry:
- PH of the pool
- Local application endpoint address(es)?
  - Or should this better be part of the application protocol MIB?
- RSerPool statistics (server hunts, handle resolutions, failovers, ...)

To Do:
Define the PU information to be included.
Anything missing?
Your ideas are welcome!

- Is anything missing?
- Does your implementation have special requirements?

Do not hesitate to contact us!

We are always interested in improvements!