IPPM REPORTING MIB

ietf-ippm-reporting-mib-03.txt
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Agenda

- Adaptation for SNMPv3 Security model, VACM

- Example of VACM usage for sharing aggregated Measure

- Tables review

View Based Access Control

- VACM view

  - Control based on incoming SNMP VarbindList;

  - Varbind: objectOID.indexes, value;

  - Pattern matching on objectOID.indexes nodes.

- Simplified example: owner2 get read acces to owner1 network measure X

```
…
view owner1read included ippmSystem, ippmMetricsTable, ippmNetMeasureTable…
view owner1write included ippmAggrMeasureTable, ippmReportSetupTable…
view owner2write included ippmAggrMeasureTable, ippmReportSetupTable…
...
# owner2 granted to read owner1 network measure X

view owner2read included ippmNetMeasureOwner.X
...
Access owner2 owner2read owner2write
```

Adaptation for SNMPv3 Security model, VACM

- ## ippmSharingTable removed
  - Sharing control done with VACM

- ## Indexes fields are now member of the tables;

- ## 'Augmented' tables concatenated
  - ippmMeasureTable fields added to ippmNetworkMeasureTable in ippmNetMeasureTable;
  - ippmMeasureTable fields added to ippmAggregatedTableMeasure in ippmAggrMeasureTable

Network Measure

- IppmNetMeasureTable
  - periodic, poisson, burst, multiburst.

  - Monitoring the measure state:
    - ippmNetMeasureCollectionRate;
    - ippmNetMeasureSingletons;
    - ippmNetMeasureFailureMgmtMode;
      automatically, manually, or discarded.
    - ippmNetMeasureResultsMgmt;
      wrap, suspend, resume

Aggregate Measure

- IppmAggrMeasureTable
  - Control:
    - ippmAggrMeasureStorageType;
    - ippmAggrMeasureResultsMgmt;
    - ippmAggrMeasureAdminState;

  - Fast Report:
    - ippmAggrMeasureFastReport activate on the fly raw results reporting.

Reporting

- IppmReportSetupTable

  - Control:
    - `ippmReportSetupReportSize`
    - `ippmReportSetupResultsMgmt`

  - Filtering:
    - `ippmReportSetupUpDownThreshold`
    - `ippmReportSetupLowThreshold`
    - `ippmReportSetupHighThreshold`
    - `ippmReportSetupDurationThreshold`

Summary & Conclusion

- Issues
  - Smilint
    - Need to report indexes fields in notification:
      - Get errors when setting MAX-ACCESS clause to accessible-for-notify for index !
      - How to set the DEFVAL of an OBJECT IDENTIFIER to NULL ?
  - Add fast report to network measure
  - Determine default values;

- MIB specification is closed to be mature.