

59th IETF Meeting - March 2004

IPPM Working Group

IPPM REPORTING MIB Simplification

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Agenda

- Change since Version 4 (1 slide)
- IPPM MIB usage
- Open Issues

Change since Version 3

Report Group deleted:

- reportHistoryTable deleted;
- reportSetupTable deleted;
- 6 related notifications deleted;

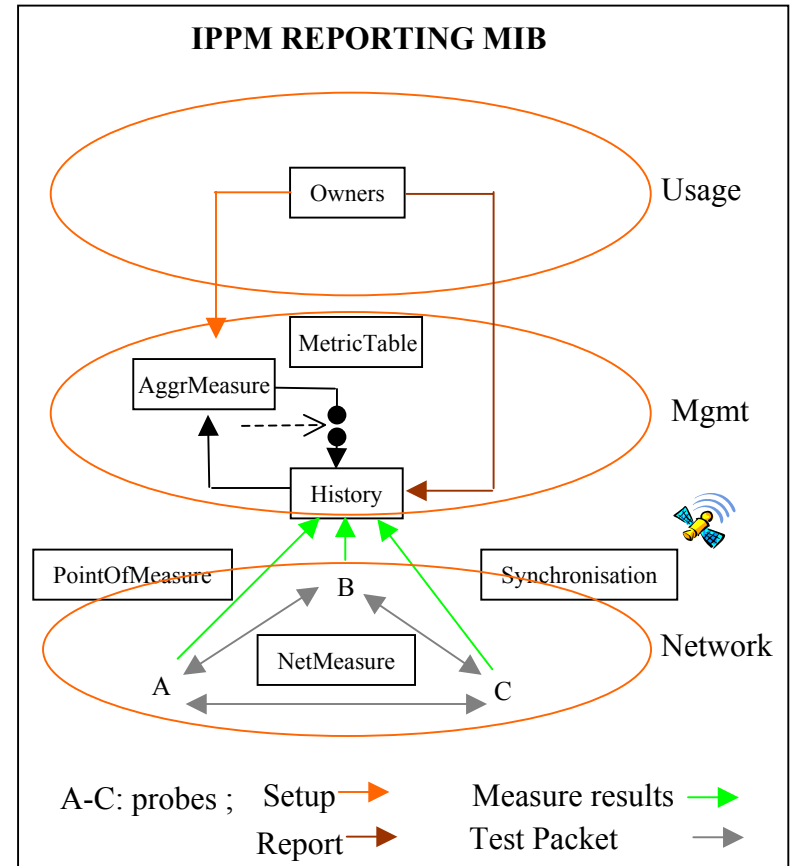
Thresholds added in AggrMeasureTable;

TC IppmOwnerIndex added to clearly define the owner namespace.

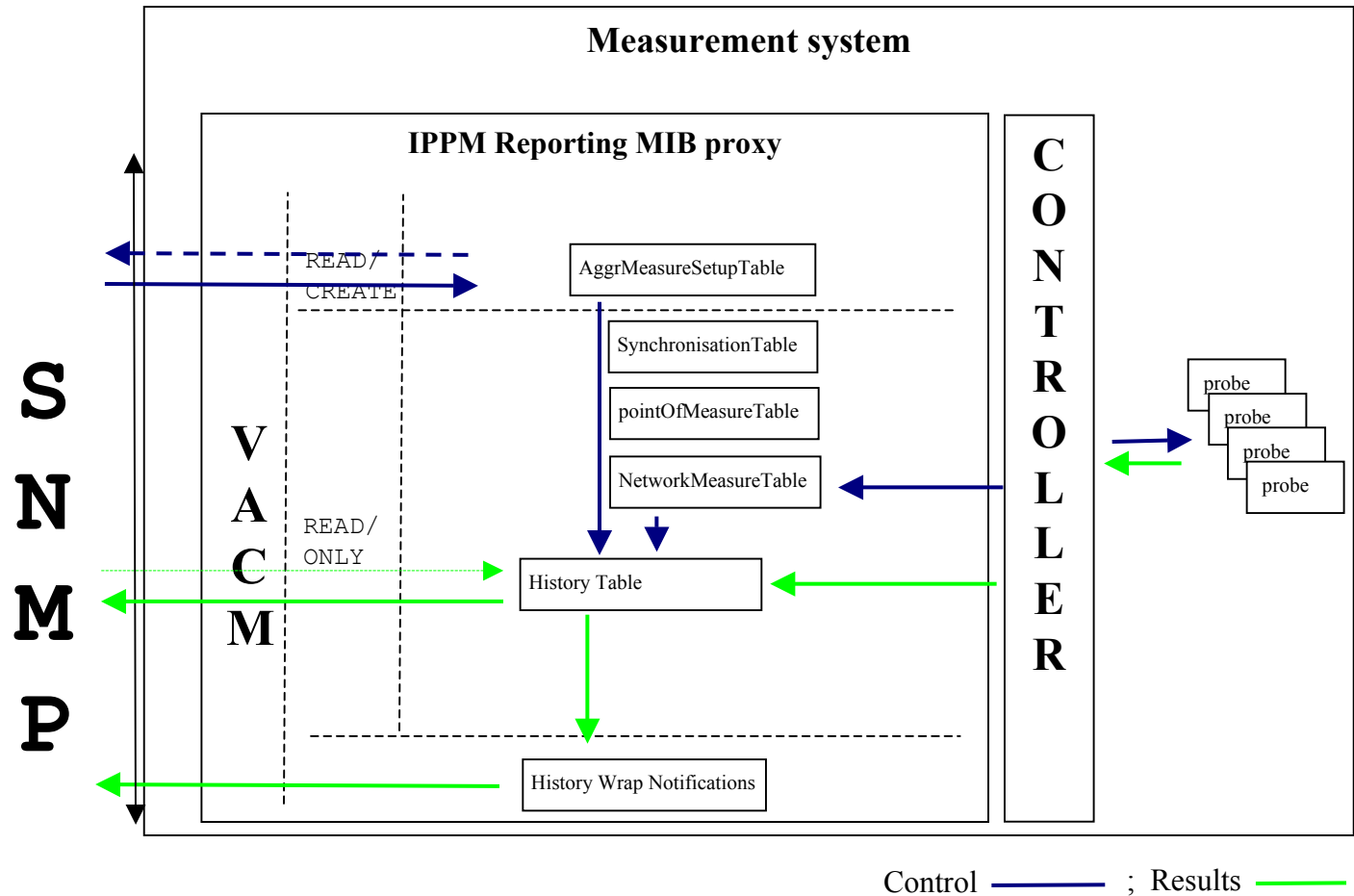
GMTTimestamp time origin changed to NTP (1900).

Data model

- o OwnersTable
- o PointOfMeasureTable
- o SynchronizationTable
- o MetricTable
- o HistoryTable
- o NetMeasureTable
- o AggrMeasureTable

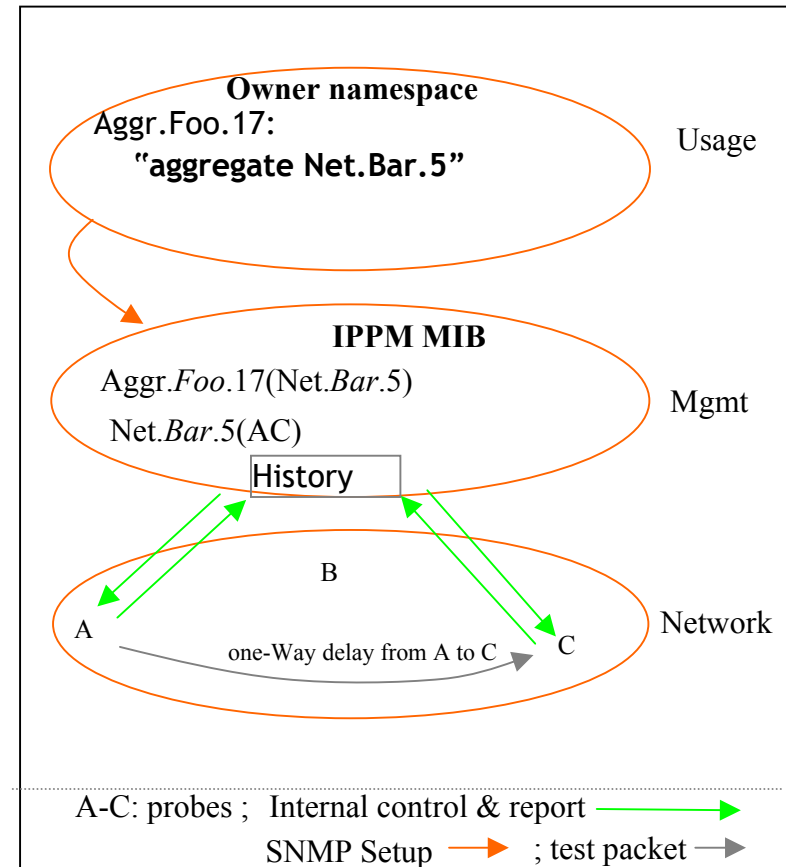


IPPM Proxy architecture



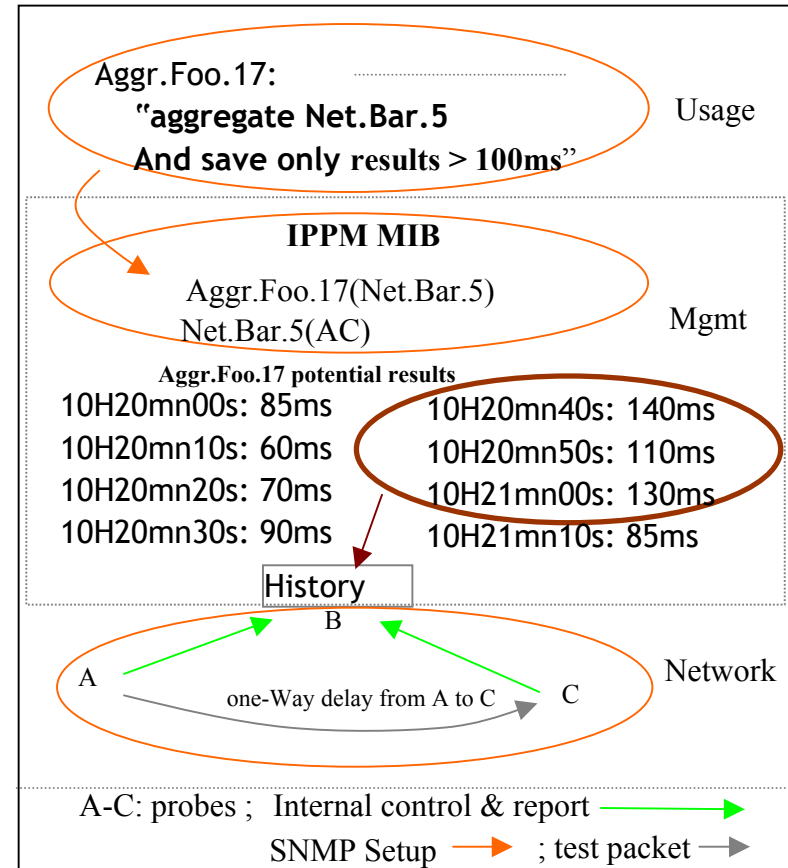
Aggregation

- Aggregation of
 - Network measures
 - Aggregated measures
- Sharing measures



History size Limitation

- 2 Thresholds, 5 filters:
 - UpAndDown
 - <
 - >
 - In
 - out



Issue #1:memory optimization

SNMP objects use much more memory than the value itself. Polling Short-lived entries requires too many bandwidth and makes the table instable:

- How to limit the size of the history ?
- How to reduce the polling frequency ?

Proposal:

- When the buffer of a measure wraps optionally save its results in a file and Inform the application of the Url of the file.

Issue #2: NetMeasureTable access

Access definition:

" The IppmNetMeasureTable is mandatory, and its content is read only. It means that the measurement software handles the table internally. The setup of the network measure is not permitted through the IPPM REPORTING MIB. As an example, OWAP provides a setup protocol to setup and tear down networks measures. "

Andy Comment:

This goes entirely against the spirit of SNMP to contain a configuration table that is populated in an unspecified manner, and not allowing SNMP to be used for configuration. These objects should be read-create with a MIN-ACCESS of read-only.

Proposal:

Put their MAX-ACCESS as read-create with a MIN-ACCESS of read-only ?

Summary

- IPPM MIB specification simplified
- Usage
 - aggregation
 - filtering
- Specify the History buffers mechanism management and (a first) last call ?