HCTC MIB

1. draft-ray-hc-tc-00 presented to ATOMMIB working group, which deferred adoption of said draft to ADSLMIB working group. So…

2. used in draft-ietf-adslmib-vdsl-00 mib

3. simply combines RFC2493 and RFC2856

4. needs a home

5. I need a co-author

6. Example

HCPerfIntervalCount ::= TEXTUAL-CONVENTION
STATUS current
DESCRIPTION
"A counter associated with a performance measurement in a previous 15 minute measurement interval. In the case where the agent has no valid data available for a particular interval the corresponding object instance is not available and upon a retrieval request a corresponding error message shall be returned to indicate that this instance does not exist.

In a system supporting a history of n intervals with IntervalCount(1) and IntervalCount(n) the most and least recent intervals respectively, the following applies at the end of a 15 minute interval:

- discard the value of IntervalCount(n)
- the value of IntervalCount(i) becomes that of IntervalCount(i-1) for n >= i > 1
- the value of IntervalCount(1) becomes that of CurrentCount
- the TotalCount, if supported, is adjusted.

This count represents a a non-negative integer, which may increase or decrease, but shall never exceed 2^64-1 (18446744073709551615 decimal), nor fall below 0. The The value of a HCPerfIntervalCount object assumes its maximum value whenever the underlying count exceeds 2^641. If the underlying count subsequently decreases below 2^64-1 (due, e.g., to a retroactive adjustment as a result of entering or exiting unavailable time), then the HCPerfIntervalCount object also decreases.

Note that this TC is not strictly supported in SMIv2, because the 'always increasing' and 'counter wrap' semantics associated with the Counter64 base type are not preserved. It is possible that management applications which rely solely upon the (Counter64) ASN.1 tag to determine object semantics will mistakenly operate upon objects of this type as they would for Counter64 objects.

This textual convention represents a limited and short-term solution, and may be deprecated as a long term solution is defined and deployed to replace it."

SYNTAX Counter64