

#33: Performance Monitoring - Threshold Data Association

Status	EXECUTED
Stakeholders	
Outcome	
Due date	
Owner	Daniela Spreafico

Decision

A new attribute is required:

performanceMonitoringThresholdList -> List of Thresholds for PM counters supporting TCAs.

Yang tree representation of the performanceMonitoringThresholdList :

```
| +--rw performance-monitoring-threshold * [counter granularity]
|   | +--rw counter identityref
|   | +--rw granularity g:granularity-period-type
|   | +--rw lower? uint64
|   | +--rw upper? uint64
```

The attributes should be added object classes as follows:

- airInterfaceRxConfiguration / performanceMonitoringThresholdList
- airInterfaceDiversityConfiguration / performanceMonitoringThresholdList
- ethernetContainerConfiguration / performanceMonitoringThresholdList

Please note that the existing "airInterfaceConfiguration" object class remains untouched, but will get the status "deprecated" based on [Issue #25](#).

01.07.2018 Note:

Text had been copied from former entry "#30, #33, #34: PerformanceMeasurementControl".

Changes to the UML were not precisely described.

Some descriptions could not be implemented, e.g. because assumed changes (issues#25) could not be implemented before.

Actual changes to the UML are described in <https://tr532.bugtracker.openmicrowave.com/view.php?id=33>

Background

Content of the Mantis Bugtracker

Description	<p>The request is to manage the thresholds used to raise or clear a Threshold Cross Alarm (TCA) on Performance counters (es , ses and cses).</p> <p>On the current ONF TR-532 1.0 model these thresholds are not foreseen.</p> <p>A TCA alarm related to a counter should be raised (and cleared) on an MW_AirInterface_pac instance according to an <counter>HighThr (for alarm raise) and <counter>LowThr (for alarm clear) values, specific for each counter and for each period type (15m, 24h), predefined or user configured.</p> <p>A first proposal could be to add a new class, PerformanceThresholdData, that is a list of elements (PerformanceThresholdDataList) containing the following attributes:</p> <ul style="list-style-type: none">- granularityPeriod- esHighThr- esLowThr- sesHighThr- sesLowThr- csesHighThr- csesLowThr <p>The key of each element on PerformanceThresholdDataList is a simple identifier (integer value). 2 elements, one for each granularityPeriod , will contain predefined values not modifiable. Other elements (till a max number according to device capability)) could be created with values provided by operator. A new attribute (read-write), ThresholdDataReference, should be added to AirInterfaceCurrentPerformance/ current-performance-data-list to associate the instance of CurrentData (15m or 24h) to an instance of PerformanceThresholdDataList.</p> <p>As alternative proposal the thresholds could be added to MW_AirInterface_pac::AirInterfaceConfiguration class:</p> <ul style="list-style-type: none">- es15mHighThr- es15mLowThr- ses15mHighThr- ses15mLowThr- cses15mHighThr
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