QoS YANG Module

Ebben Aries,
Aseem Choudhary,
Mahesh Jethanandani,
Norm Strahle

Quick Overview of Design

* **Three levels of models:**
  * **Base infrastructure:**
    * Classifier, Action, Policy, Target
      * Frameworks and building blocks
  * **Diffserv**
    * Currently defining diffserv, but base infrastructure could be used for other CoS implementations, e.g. MPLS, 801.2p
  * **Vendor specific**
    * Typically, vendors would augment base and diffserv models

Significant Changes Since Rev 00

* **Meter definition in Action Module:**
  Removed generic meter type and added one-rate-two-color meter. Some associated modifications to all 3 meter types. Moved color-aware to vendor specific.

* **Queue Grouping in Action Module:**
  Removed "always drop", moved queue size handling to vendor specific.

* **Target module stats:**
  Generic meter stats removed, added stats for the one-rate-two-color meter.

* **Second Vendor Example added:**
  Example demonstrates usage of inline classifier, meter reference, additional policy types for queues and schedulers.

Open Issues:

* **Reading stats:**
  Several open issues on queue stats, meter stats, classifier stats.

* **Binding Policies to Interfaces:**
  Issues with binding multiple policies of same type, defining
  different policy types, e.g. v4, v6

* **Defining what goes into each level of design:**
  Continued discussion on what can go into the base modes, what will
  fall into DiffServ model and what will have to go into the vendor
  specific model.

Future Direction:

* **Continued Work on Open Issues:**

* **Work with Owners of draft-chen-rtgwg-qos-yang:**

    Planned discussions to determine commonality/overlap of alternative qos draft from RTGWG. Hope to discuss during this IETF.

* **Would Like Review From Other Vendors**

Q&A