QoS YANG Model

http://www.ietf.org/id/draft-ietf-rtgwg-qos-model-08

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Status

- Reduced the use of “feature” statements from 19 to 5
- Reduced the number of modules by 2
- Added Operational data to the model
- An example of QoS Classifier and Policy configuration is added in Appendix
- Taken care of more YANG Doctors comments
- Revised version:
QoS Yang Modules

- Diffserv Policy
- Queue Policy
- Scheduling Policy
- QoS Oper
- QoS Action
- Traffic Policy (Base Policy, Classifier, Target)
New Policy Augmentation Example

1. Define a new policy type: ‘Policy-forwarding’
2. Define classification criterion: ‘flow-tag <0-7>’
3. Define new actions: ‘next-hop <ip-address>’
4. Augment Classification to Traffic Policy:
   ```
   augment ".../policy:filter" {
     when ".. policy:type = policy-forwarding"
     case route-tag:
       uses route-tag
   }
   ```
5. Augment Action to Traffic Policy:
   ```
   augment ".../policy:action-params" {
     when ".. policy:type = policy-forwarding"
     case next-hop:
       uses next-hop
   }
   ```
QoS Operational Module

• qos-interface-statistics container is augmented to ietf-interfaces module

• It has per direction QoS Counters and contains tagged/untagged counters

• Named (tagged) counters are further divided as:
  • Aggregated Counters
  • Non-aggregated Counters

• QoS Counter types:
  • Classifier Counters
  • Meter Counters
  • Queue Counters
Next Steps

• Address remaining YANG Doctors comments received in the WG