

Differentiated Services Quality of Service Policy Information Base

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Changes From Previous Draft

- Removed the 802 PIB and references to it.
- Removed section 3.4 about mapping DSCP to CoS.
- Changes to conform to model and MIB.
 - Changed ACE/ACL to filter/filtergroup.
 - Changed policing to metering
- Several changes to conform to changes and improvements to SPPI.
 - Uniqueness, PIB-ACCESS, PolicyTagId and PolicyTagReference

Changes From Previous Draft (cont.)

- Modified qosActionEntry to have an enumerated type for action (drop mark unchange) and a DSCP. Removed the reference to another meter.
- Moved the IP classification group to the Framework PIB.
- Moved qosIfTypeTable and qosIfTypeRoleComboTable to the Framework PIB (and changed the names).
- Combined two tables qosIfQueueSetAssignTable and qosIfDscpAssignTable into one.

Simplifications to the DiffServ Model

- There are no counter objects (they don't make sense for downloaded policy).
- Droppers have pointers back to classifier elements; the PIB uses DSCP to determine drop preferences.
- There are no algorithmic dropper tables. The PIB specifies taildrop and wred queues.

Simplifications to the DiffServ Model (cont.)

- Meters are always specified in terms of a token bucket.
- There is no DSCPMarkActionTable as the DSCP attribute is in the action.
- There is a fixed interconnection of datapath elements. E.g., it is not possible to connect a marker between a classifier and meter. Marking is always associated with the action.

Additional Work

- Hierarchical queues
- Shaping (lift restriction of action
PolicyReferenceId's type qosActionTable)