

Diffserv Yang Model

<http://www.ietf.org/id/draft-asechoud-netmod-diffserv-model-01.txt>

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Topics

- Status
- Changes since last revision
- Open Issues
- Questions

Status

- Collaboration Cisco, Ciena, Huawei, Juniper
- Bi-weekly meeting to bring closure on open issues
- Based on the discussions, revised version:

<https://tools.ietf.org/html/draft-asechoud-netmod-diffserv-model-01>

Changes since last revision

- Added Filter and Actions
- Flexible Configuration Model
- Limited YANG Features
- Statistics

Ipv6 Flow Label

module: ietf-diffserv-classifier

+--rw classifiers

+--rw classifier-entry* [classifier-entry-name]

+--rw classifier-entry-name string

:

+--rw filter-entry* [filter-type filter-logical-not]

+--rw filter-type identityref

:

+--rw (filter-param)?

:

+--:(flow-label)

+--rw flow-label-cfg* [flow-label-min flow-label-max]

+--rw flow-label-min uint32

+--rw flow-label-max uint32

ECN & WRED Profile ID

```
module: ietf-diffserv-policy
++rw policies {policy-template-support}?
  ++rw policy-entry* [policy-name]
    ++rw policy-name      string
    :
    ++rw classifier-entry* [classifier-entry-name]
    :
    ++rw classifier-action-entry-cfg* [action-type]
      ++rw action-type          identityref
      ++rw (action-cfg-params)?
      :
      +--:(algorithmic-drop)
      :
      +--:(random-detect)
        ++rw diffserv-action:random-detect-cfg {aqm-wred-support}?
        :
        +--rw diffserv-action:ecn-enabled?
        +--rw diffserv-action:wred-profile*
          +--rw diffserv-action:wred-profile-id
          +--rw diffserv-action:wred-dscp*
```

Boolean
[wred-profile-id]
uint16
[dscp-min dscp-max]

Flexible Configuration Model

- Classifier Entries and Actions
- Classifier Entries can be
 - referred to as separate objects
 - can be configured Inline
- Defined as a separate features
- Minimum set of features exposed

Open Issues

- AQM Support on only leaf node in Scheduling hierarchy
- Per Interface Statistics with Hierarchical Configuration
- Flow label supported?
- Child Policy Supported?

Questions?