A YANG DATA MODEL FOR PCEP

draft-ietf-pce-pcep-yang-02
https://github.com/dhruvdhody-huawei/pcep-yang

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## Introduction

<table>
<thead>
<tr>
<th>Yang Data Model</th>
<th>Management of PCEP speakers</th>
<th>Configurations</th>
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<tbody>
<tr>
<td></td>
<td>PCEP as per RFC 5440</td>
<td>State</td>
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<tr>
<td>Extensions</td>
<td></td>
<td>Aligned to PCEP MIB</td>
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<tr>
<td>Statistics</td>
<td></td>
<td>Stateful PCE, SR, SVEC, OF, GCO, P2MP...</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Moved as a separate model</td>
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<td></td>
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<td>Augments the base model</td>
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</tbody>
</table>
Recent Changes

• A new “ietf-pcep-stats” module that augments “ietf-pcep”

• Changes in other models
  • ietf-te
  • ietf-key-chain

• Fixed various issues
  • x-path validation failures
  • Use of when statement v/s must statement

• RPC for trigger re-sync
  • So that operator can have a mechanism to trigger session re-synchronization
Statistics

A separate module that augments ietf-pcep’s state!
Grouping Changes in other models.

```bash
++-ro path-keys {path-key}?
  |  +-ro path-keys* [path-key]
  |     +-ro path-key     uint16
  |     +-ro cps
  |     |  +-ro explicit-route-objects* [index]
  |     |     +-ro explicit-route-usage?  identityref
  |     |     +-ro index             uint32
  |     |     +-ro (type)?
  |     |     |  +-:(ip-address)
  |     |     |     +-ro ip-address-hop
  |     |     |     |      +-ro address?  inet:ip-address
  |     |     |     |      +-ro hop-type?  te-hop-type
  |     |     |  +-:(as-number)
  |     |     |     +-ro as-number-hop
  |     |     |     |      +-ro as-number?  binary
  |     |     |     |      +-ro hop-type?  te-hop-type
  |     |     |  +-:(unnumbered-link)
  |     |     |     +-ro unnumbered-hop
  |     |     |     |      +-ro router-id?  inet:ip-address
  |     |     |     |      +-ro interface-id?  uint32
  |     |     |     |      +-ro hop-type?  te-hop-type
  |     |     |  +-:(label)
  |     |     |     +-ro label-hop
  |     |     |     |      +-ro value?
  |     |     |     |      rt-types:generalized-label
  |     |     |     |  +-:(sid)
  |     |     |     |     +-ro sid-hop
  |     |     |     |     |      +-ro sid?
  |     |     |     |      rt-types:generalized-label
```
Questions..

• Model
  • The pcep model has ‘config’ & ‘state’ constrainers separated from the inception.
  • We *prefer* to keep it that way!
    • Are there any motivations to change that?
    • What is the impact when revised-data-store is ready?

• Notifications
  • Draft has some notifications related to PCEP session up/down or overload.
  • We prefer to keep them!
    • Are there motivations to remove even the most basic ‘notifications’ from the model?
To Do

• Adding TLS support for PCEPS
  • Discussion is on-going with netconf authors of –
    • ietf-tls-client
    • ietf-tls-server
    • Which were updated recently!
  • We would be using the groupings defined in these model.

• Plan to put an update out SOON.
Thank You!