A Yang Data Model for PCEP

Draft-ietf-pce-pcep-yang-01

https://github.com/dhruvdhody-huawei/pcep-yang

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## Introduction

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

- Fix all errors as per the yang validator tool
- Stateful PCE synchronization Optimization
- Objective Functions
- Path-Key
Sync Optimization

- Capability
  - Include DB Version
  - Incremental (Delta) Sync
  - Triggered Initial Sync
  - Triggered Re-sync
Sync Optimization

- Local Speaker Entity
- Peer Speaker Entity
- Local DB Version
- Received DB Version per peer
Objective Function

- Support for various objective function codes
- PCEP entity is configured with list of OF it can support.
- List of OF supported by the peer as learned in the Open Message
- As per the manageability consideration of RFC 5541
Path Key

- Configure Path-key and related attributes
- List of Path-key and the confidential path segment (CPS)
- As per the manageability consideration of RFC 5520
Next Step

- Some Open Issues
  - TLS configurations in authentication
  - Need for more notifications / rpc (?)

- Is it time to stop adding new PCEP features and freeze?
  - Work on making sure the completeness of current feature-set now?

- More reviews
  - Direct contribution on github are welcome!
Thank You!