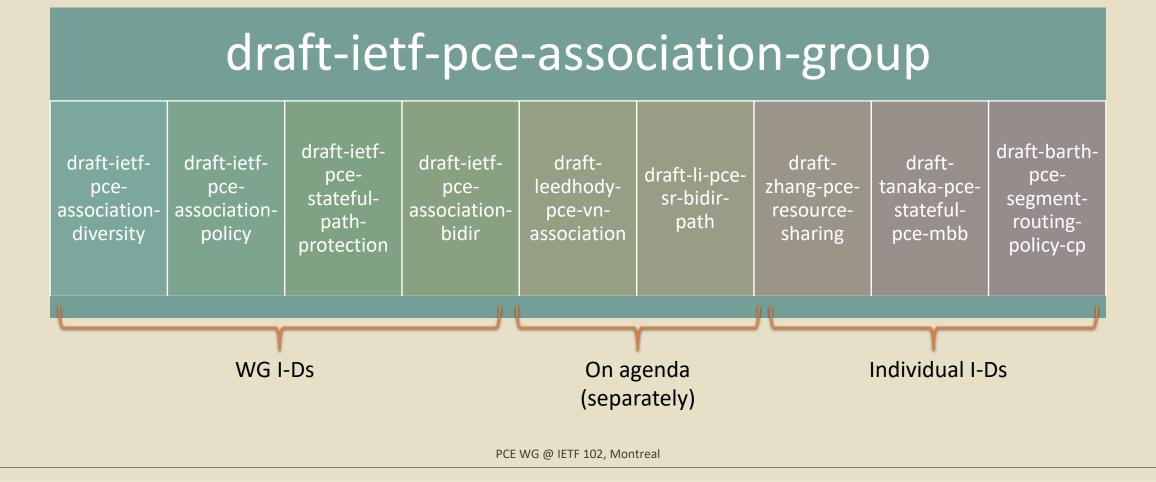
# PCEP ASSOCIATION GROUP

& the "associated" drafts!

Dhruv Dhody, Huawei

### The Association Landscape...



### draft-ietf-pce-association-group-06

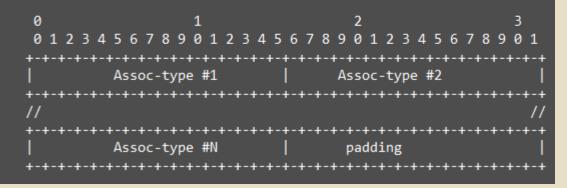
#### Status: WG LC done

- Last update: One pending comment from Cyril to add "capability advertisement/discovery" for the associations is handled.
- Discovery of Supported Association Types
  - A new PCEP ASSOC-Type-List (Association Types list) TLV is defined to be carried in OPEN.
  - The use of ASSOC-Type-List TLV is OPTIONAL.
    - Thus the absence of the ASSOC-Type-List TLV in an OPEN object MUST be interpreted as an absence of information on the list of supported association types (rather than the association-type is not supported).
  - Association type can be marked as 'mandatory'
    - A missing Assoc-type in the ASSOC-Type-List TLV (or missing ASSOC-Type-List TLV) is to be interpreted as the association type is not supported by the PCEP speaker.

The PCEP ASSOC-Type-List TLV has the following format:

#### TYPE: TBD

- LENGTH: N \* 2 (where N is the number of association types)
- VALUE: list of 2-byte association type code points, identifying the association types supported by the sender of the Open message.



### Ready for next step!

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# Now, any I-D that defines a new association type should...

...specify if the association type advertisement is mandatory

• or not!

...state if the association type is dynamic, operatorconfigured or both!

• Operator-configured Association Range needs to be set for 'both'!

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### Update to the WG I-Ds

draft-ietf-pceassociationdiversity-04

draft-ietf-pceassociationpolicy-03 Capability advertisement (mandatory)

- Dynamic and Operator-Configured
  - Operator-configured Association Range must be set
- Other editorial changes...
- Capability advertisement (mandatory)
- Operator-configured

### Update to the WG I-Ds

#### draft-ietf-pce-stateful-path-protection-02

- Capability advertisement (optional)
- Dynamic
- PT field (protection type) as per RFC 4872

#### draft-ietf-pce-association-bidir-01

- Update done by Rakesh based on the comments received during WG adoption
  - Figures and description added for single/doublesided initiation
  - Error handling!

The format of the Path Protection Association TLV (Figure 1) is as follows:

0	1	1	2	3
01234	567896	0123456	7 8 9 0 1 2 3 4 5	678901
+-+-+-+	-+-+-+-+-+	+-+-+-+-+-+-	+-	+-+-+-+-+-+
1	Type = TBD2	2	Length	I
+-+-+++++++++++++++++++++++++++++++++++				
PT	Pat	th Protection	Association Flags	S P
<b>*</b> -+-+ <mark>+</mark> +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+				

PT (Protection Type 6 bits) Flags - Indicates the Protection Type as per [RFC4872]. Following values are currently defined:

- Øx00: Unprotected
- \* 0x01: (Full) Rerouting
- \* 0x02: Rerouting without Extra-Traffic
- 0x04: 1:N Protection with Extra-Traffic
- \* 0x08: 1+1 Unidirectional Protection
- 0x10: 1+1 Bidirectional Protection

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### Others

draft-zhang-pce-resource-sharing-06

• No update

#### draft-tanaka-pce-stateful-pce-mbb-06

- Capability advertisement (mandatory)
- Dynamic
- Error Handling
- Editorial Changes

#### draft-barth-pce-segment-routing-policy-cp-00

- New I-D for associating various candidate SR path belonging to a SR-TE policy
- SR Candidate Path Association Group
- with a TLV to identify SR-TE policy (Color, Destination end-point, Preference)

### Next Step

- This is quite a useful feature..
  - Evident from the list of association types being specified...
- Let get the shepherd reviews done for association group and ship to the IESG
  - We could then decide the order for other association types!

## THANKS!

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