Conveying Vendor-Specific Information in PCEP extensions for Stateful PCE.

draft-dhody-pce-stateful-pce-vendor-07

Cheng Li, Huawei
Haomian Zheng, Huawei
Siva Sivabalan, Cisco
What is Vendor-Specific Information?

• The Vendor Information can be arbitrary, proprietary information such as vendor-specific constraints during path computation.

• Enterprise Number uniquely identifies the organization responsible for the definition of the content and meaning of the Vendor-Specific Information.

• By definition, this implies inability to interoperate at the functional level between vendors unless there is some cooperation.
History of Vendor-Specific Information

- **RFC 7150**
  - VENDOR-INFORMATION Object & TLV

- **RFC 7470**
  - Obsoletes 7150
  - New codepoint for TLV

- **This I-D**
  - Extend support for Stateful PCE by including VENDOR-INFORMATION Object in PCRpt, PCUpd & PCInitiate messages
  - *The TLV was already supported*

- **RFC 7150**
  - VENDOR-INFORMATION Object & TLV

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  - The VENDOR-INFORMATION TLV can be used by any PCEP object that allows optional TLVs
  - The VENDOR-INFORMATION Object support in PCReq and PCRep messages
Stateful PCE Messages

**<PCInitiate Message> ::= <Common Header>**

Where:

**<PCE-initiated-lsp-list> ::= <PCE-initiated-lsp-request>**

**<PCE-initiated-lsp-request> ::= (|)**

**<PCE-initiated-lsp-instantiation>**

**<PCE-initiated-lsp-deletion>**

Where:

**<vendor-info-list> ::= <VENDOR-INFORMATION>**

**<vendor-info-list>**

**<attribute-list>**

**<attribute-list>**

**<RFC8281>**

**<PCUpd Message> ::= <Common Header>**

Where:

**<update-request-list> ::= <update-request>**

**<update-request> ::= <SRP>**

**<LSP>**

**<vendor-info-list>**

**<RFC8231>**

**<PCRpt Message> ::= <Common Header>**

Where:

**<state-report-list> ::= <state-report>[<state-report-list>]**

**<state-report> ::= [<SRP>]**

**<LSP>**

**<path>**

**[<vendor-info-list>]**

**<RFC8231>**

**<path>**

Questions & Next Steps

• This I-D extend support for the existing VENDOR-INFORMATION Object to the Stateful Messages
  • Is this useful?
  • Is the approach take by this I-D correct?

• Straight-forward & Intuitive...
  • Candidate for WG adoption?

• Thanks!