

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

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

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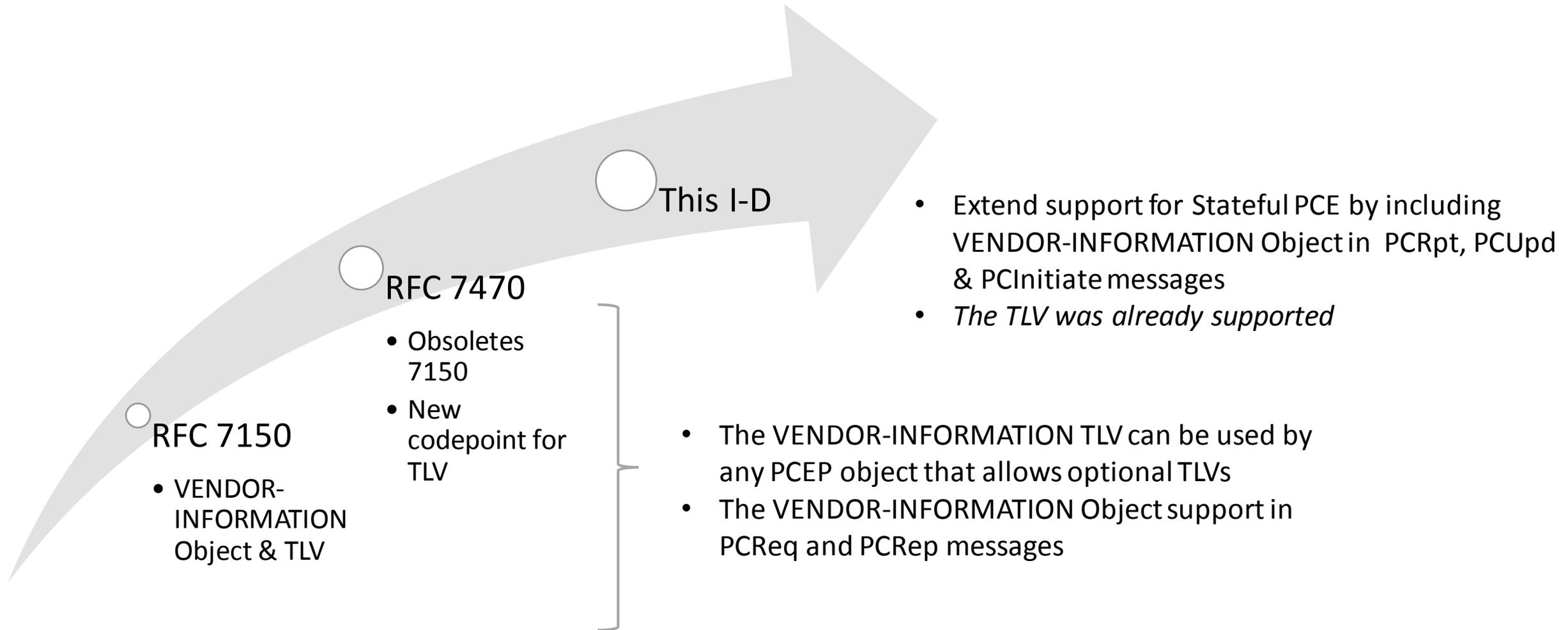
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# What is Vendor- Specific Information?

- 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



# Stateful PCE Messages

```
<PCRpt Message> ::= <Common Header>  
                    <state-report-list>
```

Where:

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

```
<state-report> ::= [  
    <SRP>  
    <LSP>  
    <path>  
    [  
        <vendor-info-list>  
    ]
```

Where:

```
<vendor-info-list> ::= <VENDOR-INFORMATION>  
                    [  
                        <vendor-info-list>  
                    ]
```

<path> is defined in [RFC8231].

```
<PCUpd Message> ::= <Common Header>  
                    <update-request-list>
```

Where:

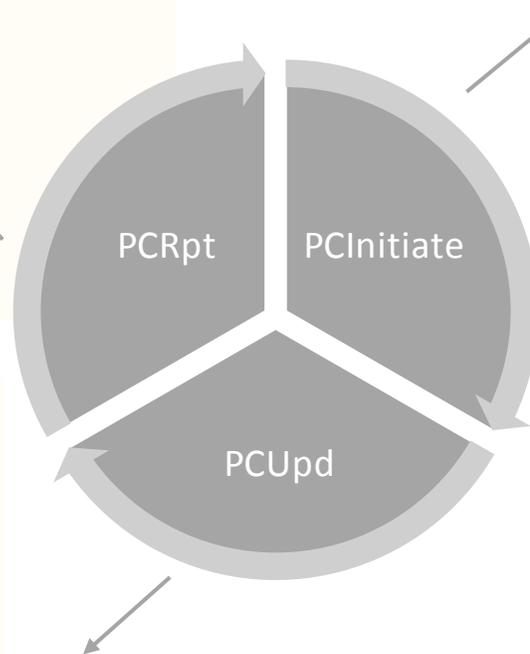
```
<update-request-list> ::= <update-request>  
                        [  
                            <update-request-list>  
                        ]
```

```
<update-request> ::= <SRP>  
                    <LSP>  
                    <path>  
                    [  
                        <vendor-info-list>  
                    ]
```

Where:

```
<vendor-info-list> ::= <VENDOR-INFORMATION>  
                    [  
                        <vendor-info-list>  
                    ]
```

<path> is defined in [RFC8231].



```
<PCInitiate Message> ::= <Common Header>  
                        <PCE-initiated-lsp-list>
```

Where:

```
<PCE-initiated-lsp-list> ::= <PCE-initiated-lsp-request>  
                            [  
                                <PCE-initiated-lsp-list>  
                            ]
```

```
<PCE-initiated-lsp-request> ::=  
    (<PCE-initiated-lsp-instantiation>|  
     <PCE-initiated-lsp-deletion>)
```

```
<PCE-initiated-lsp-instantiation> ::= <SRP>  
                                       <LSP>  
                                       [  
                                           <END-POINTS>  
                                           <ERO>  
                                           [  
                                               <attribute-list>  
                                               [  
                                                   <vendor-info-list>  
                                               ]  
                                           ]
```

Where:

```
<vendor-info-list> ::= <VENDOR-INFORMATION>  
                    [  
                        <vendor-info-list>  
                    ]
```

<PCE-initiated-lsp-deletion> and <attribute-list> is as per [RFC8281].

# 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!