PCEP extensions for BIER-TE

draft-chen-pce-bier-09

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Introduction

• This document specifies extensions to the Path Computation Element Protocol (PCEP) that allow a stateful PCE to compute and initiate the path for the BIER-TE.
Extensions

- **BIER Capability Advertisement.**
  - Defines a new Path Setup Type (PST) for BIER.
  - Defines the BIER-TE-PCE-CAPABILITY sub-TLV to exchange BIER capability.
- **The SRP Object**
  - Defines a new Path Setup Type (PST=TBD2) for BIER-TE.
- **END-POINTS Object**, two options:
  - Reuses the P2MP END-POINTS object body for IPv4 and END-POINTS object body for IPv6 (Object-Type 4) which is defined in [RFC8306].
- **Objective Functions**
  - Defines a new Objective Function for path calculation.
- **ERO Object**
  - Defines an BIER-TE-ERO subobjects to carry a adjacencies BitStrings, BSL, subdomain and SI.
- **RRO Object**
  - Defines an BIER-TE-RRO subobjects to reports an BIER-TE to PCE.
Update

• Merge draft-chen-pce-bier-te-path-01, and add Huaimo Chen and Aijun Wang as co-authors.
• Add the Objective Functions

**Objective Function Code: TBD3**

*Name: Minimum Bit Sets (MBS)*

*Description:* Find a path represented by BitPositions that has the minimum number of bit sets.

• Add the RRO Object

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Next Step

• Comments welcome.
• It’s in WG adoption queue. WG adoption 😊

Thanks!