

PCEP Extensions for Service Segment Support in Segment Routing

draft-dw-pce-service-segment-routing-00

Qin Wu(bill.wu@huawei.com)

Dhruv Dhody (dhruv.ietf@gmail.com)

PCEP Extensions for Service Segment support

- **Objective**

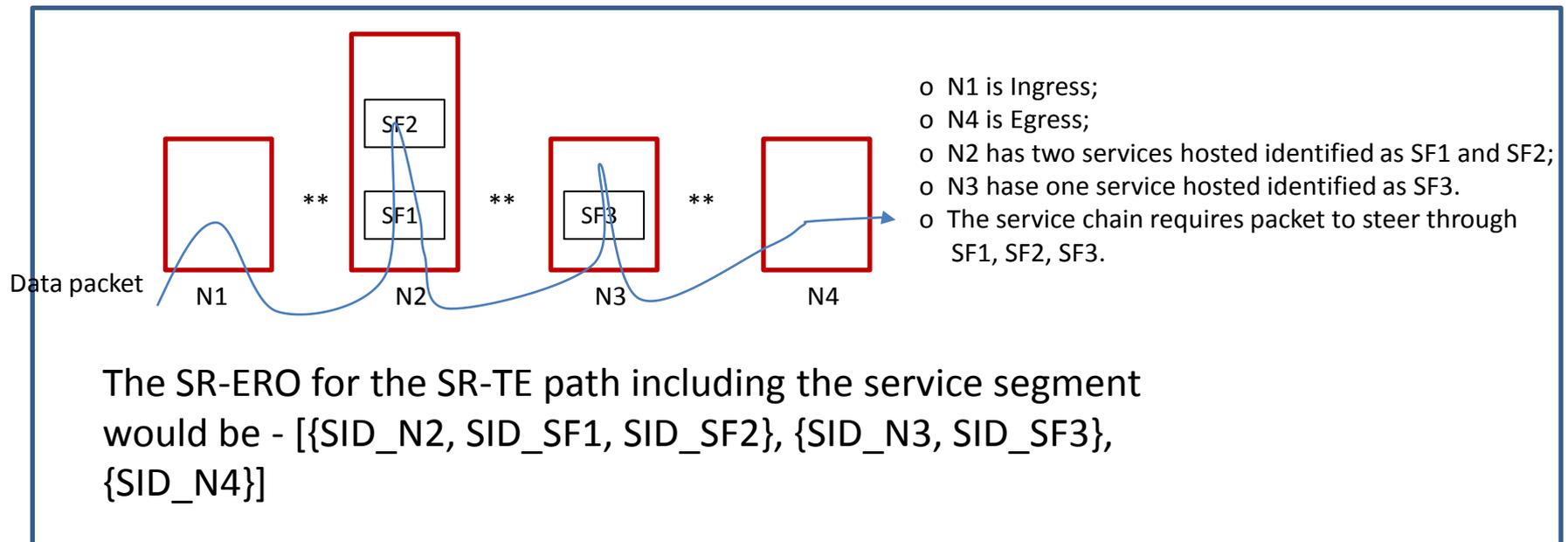
- allow a stateful PCE to compute and instantiate SR-TE paths that have service functions (SF) (or service segments) involved.

- **Motivation**

- An SR-TE path is defined as a path that consists of one or more SID(s) where each SID is associated with the identifier that represents the node or adjacency corresponding to the SID.
- Extends the SR-TE path to use Service-SID(s) in the path hasn't been discussed.
- There is a case where it is required to steer the packet through a set of SR node and specific treatment or SF (DPI, firewall..) offered by SR node(s) in the path.

Our proposal for service segment support

- In the [[I-D.ietf-pce-segment-routing](#)], an SID represents either a nodal segment representing a path to a node or adjacency segment representing path over a specific adjacency.
- In our draft, we allow SID also can represent a service segment representing a specific treatment or SF.



Next Step

- [\[I-D.ietf-pce-segment-routing\]](#) has been sufficient discussed in the past meeting and has be adopted as a WG draft.
- This draft is complimentary to [\[I-D.ietf-pce-segment-routing\]](#) and provide additional small extension.
- Accepted as WG doc or merged with [\[I-D.ietf-pce-segment-routing\]](#) ?