

Using Flex- Algo for Segment Routing based VTN

draft-zhu-lsr-isis-sr-vtn-flexalgo-02

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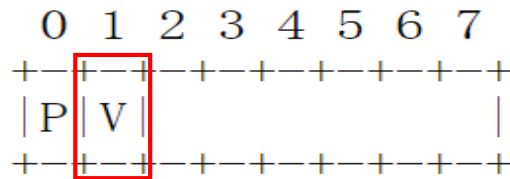
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Recap of Background

- A VTN is a virtual underlay network with a customized topology and a set of network resources
 - Introduced in *draft-ietf-teas-enhanced-vpn* as the underlay of VPN+ services
- SR based VTN is described in *draft-ietf-spring-sr-for-enhanced-vpn*
 - Provides the mechanism and procedures to build SR based VTN using resource-aware SIDs
- In some scenarios, each SR VTN can be associated with a unique Flex-Algo
 - This document describes the Flex-Algo based control plane mechanisms for distributing the topology and resource information of SR VTNs

Mechanisms in this draft

- Flex-Algo ID is reused as the control plane identifier of a VTN
 - Use Flex-Algo to describe the topology constraints for a VTN
 - Use IS-IS SR to advertise algorithm-specific prefix SIDs/SRv6 Locators
- Extend IS-IS L2 bundle to advertise the TE attributes associated with VTN
 - IS-IS L2 bundle is extended for both virtual and physical member links



V flag: indicates the member links are virtual links, thus share fate with the parent L3 interface

- Each VTN is associated with one virtual or physical member link in the bundle
 - Use an Admin Group (color) to correlate the Flex-Algo and the member link
 - The TE attributes and SR SIDs of the member links belong to the VTN

Updates in -02 version

- Clarifies the limitations in the usage of Admin Group constraints in Flex-
Algo Definition when a Flex-Algo ID is used to identify a VTN
 - Only the Include-Any Admin Group rule can be used
- Add descriptions about the usage of the V-flag
- Updates the reference to *draft-ietf-spring-sr-for-enhanced-vpn*
 - That document has been adopted in SPRING WG recently
- Some editorial changes

Next Steps

- The mechanisms and content of this draft are stable
- All the comments received have been resolved
- Authors would like to ask for WG adoption of this document

Thank You