

draft-boutros-bess-evpn-auto-provisioning-01

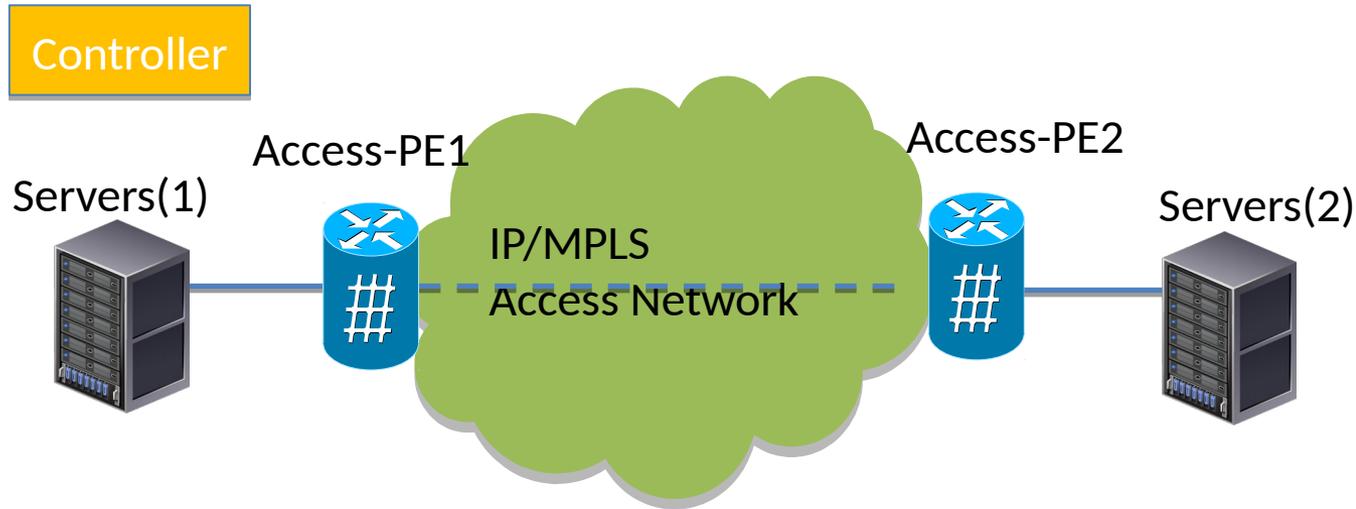
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What is this about?

This document describes how EVPN can be extended to discover what L2 or L3 services to be enabled on a given PE/NVE, based on first sign of life FSOL packets received on the PE/NVE ports. An EVPN route based on the FSOL packets will be sent to a controller to trigger a push of the related L2/L3 or subscriber service configuration to be provisioned on the PE/NVE and on the switch ports.

EVPN Auto Provisioning



Access PE/NVE nodes trunk ports will be associated with a default EVPN instance.

Based on FSOL packet received from Servers, an EVPN MAC/IP Advertisement route will be sent to the controller.

- ESI value will be encoded to contain the access port number and the Ethernet Tag(s) associated with the FSOL packet.
- IP and MAC fields will be set based on the source IP and MAC information on the FSOL packet.
- Controller checks the policy may perform authentication, and pushes down to the PE/NVE node or set of PE/NVE nodes(s) the L2/L3 or subscriber service to be provisioned.

FSOL can be a received Inclusive Multicast route for a non existing EVPN service/EVI.

Ethernet Segment identifier encoding

New ESI to encode the Trunk port, and up to 2 vlan tags.



Comments?

Next steps

- Seeking more comments.

Thank you