

draft-ietf-l2vpn-evpn-05.txt

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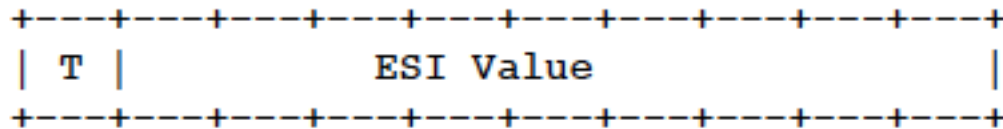
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Changes from Rev04

- Main Changes
 - ESI Format
 - MAC Route
 - Ethernet A-D per ES Route
 - Added Security Section

Ethernet Segment Identifier



- Expanded ESI format to allow for the following types:
 - Type 0 (T=0x00) - This type indicates an arbitrary nine-octet ESI value, which is managed and configured by the operator.
 - Type 1 (T=0x01) - When IEEE 802.1AX LACP is used between the Pes and CEs, this ESI type indicates an auto-generated ESI value determined from LACP

Ethernet Segment Identifier – Cont.

- Type 2 (T=0x02) - This type is used in the case of indirectly connected hosts via a bridged LAN between the CEs and the PEs.
- Type 3 (T=0x03) - This type indicates a MAC-based ESI Value that can be auto-generated or configured by the operator.
- Type 4 (T=0x04) - This type indicates an IP-based ESI Value that can be auto-generated or configured by the operator.
- Type 5 (T=0x05) - This type indicates an AS-based ESI Value that can be auto-generated or configured by the operator.

MAC Route

Added optional MPLS Label2 at the bottom of MAC route

RD (8 octets)
Ethernet Segment Identifier (10 octets)
Ethernet Tag ID (4 octets)
MAC Address Length (1 octet)
MAC Address (6 octets)
IP Address Length (1 octet)
IP Address (0 or 4 or 16 octets)
MPLS Label1 (3 octets)
MPLS Label2 (0 or 3 octets)

Ethernet A-D per ES

- Ethernet A-D per ES is used for a number of functions:
 - Mass Withdraw needed for fast convergence
 - Distribution of Split-Horizon label
- To better differentiate this route from the Eth A-D per EVI version, we introduced the MAX-ET (0xFFFFFFFF) for this route
- For the scenarios where the ES includes large number of Ethernet tags and thus large number of RTs such that not all RTs fit in a single route advertisement, then we enable the procedures to be able to send a set of Eth A-D per ES route for a given ES

Next Step

- There will be a version 06 with few more editorial changes
- The authors would like to request for WG LC on version 06