draft-ietf-srv6ops-srv6-deployment-02

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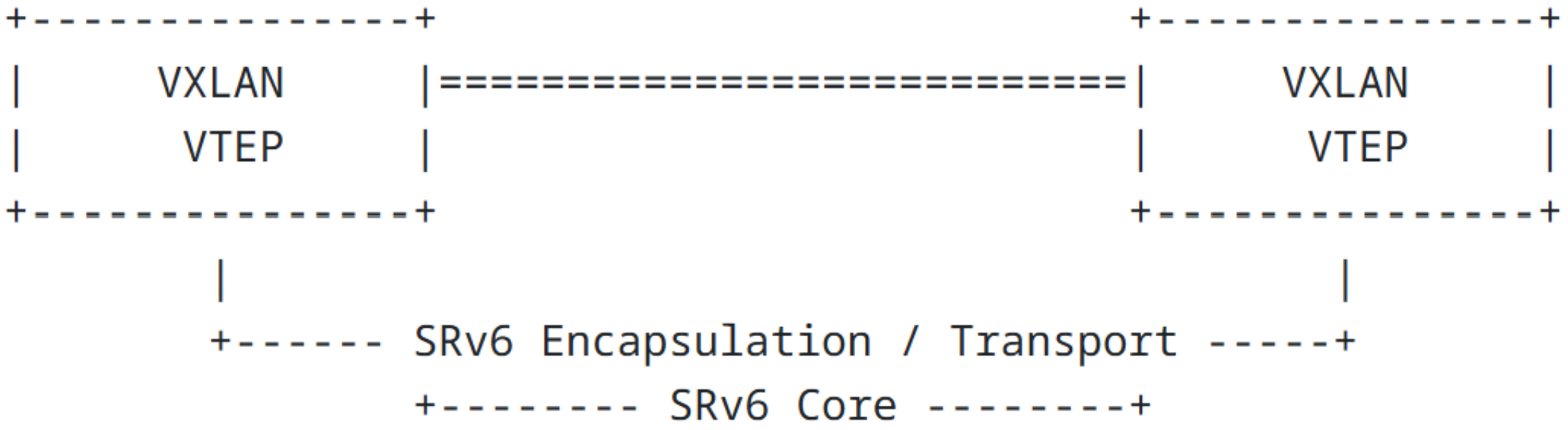
Changes in -02

- Less MPLS/SR-MPLS focused
  - “MPLS/SR-MPLS to SRv6” changed to “existing data-plane technologies
    (e.g. MPLS, SR-MPLS or overlay encapsulations such as VXLAN) to SRv6”
  - “migrated from MPLS/SR-MPLS to SRv6” to “evolving toward SRv6 from prior transport or overlay technologies”.
- Gradual vs Direct Evolution rewrite
  - While both gradual and direct strategies are viable, direct migration from MPLS to SRv6 avoids the operational overhead of an intermediate SR-MPLS phase and results in a cleaner, single-step architectural evolution.
- Included new VXLAN to SRv6 section

New VXLAN Section

- VXLAN packets are encapsulated within SRv6 headers
- Gradually introduce SRv6 capabilities at the edges
- Existing VTEPs can be upgraded to support SRv6 encapsulation for north-south traffic, while east-west traffic may continue using native VXLAN



Migration Steps

1. **Upgrade VTEPs to support IPv6 and SRv6 encapsulation while continuing VXLAN forwarding.**

2. **Assign SRv6 locators and SIDs for all ingress and egress VTEPs and SRv6 transit nodes.**

3. **Deploy SRv6 core infrastructure on the existing IP/MPLS network.**

4. **Enable SRv6 encapsulation on VTEPs and steer some VXLAN traffic over SRv6 transport paths.**

5. **Migrate VXLAN traffic to SRv6 paths by modifying VTEP policies to encapsulate traffic in SRv6.**

6. **Validate traffic flows, TE policies and service SLAs.**

Next steps

- Keep making progress on comments already received.
  - Ex: How to migrate certain sections of a network at a time when we can't migrate the entire network to SRv6.
- Update based on today’s feedback.