

EVPN Inter-Domain Option-B Solution

draft-rabadan-bess-evpn-inter-domain-opt-b-08

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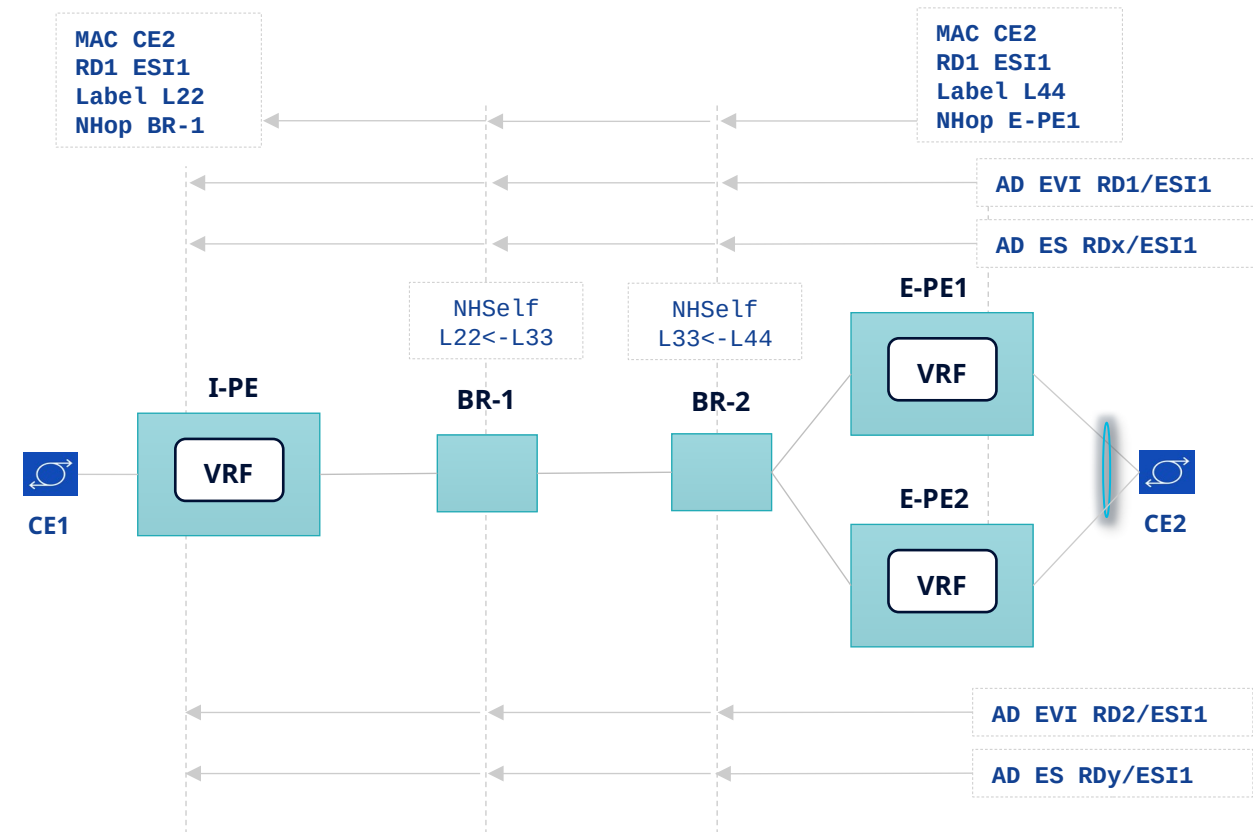
Agenda

1. Changes in revision 08
2. Next-steps

The EVPN A-D per ES route identifier issue

And changes in rev 08

- The **absence of an egress PE identifier** on the A-D per ES creates issues in EVPN procedures
 - Per ES mass-withdraw (illustrated on the right) (RFC7432)
 - MH Aliasing and Backup path (RFC7432)
 - AC-Influenced DF Election capability (RFC8584)
 - EVPN E-Tree Egress filtering of BUM originated from a leaf (RFC8317)
- **Multiple options** were provided by the document earlier, rev 08:
 - Converges on a single solution (based on the Egress PE Identifier) and specifies its procedures
 - Reorganizes the document for clarity



The Egress PE Identifier

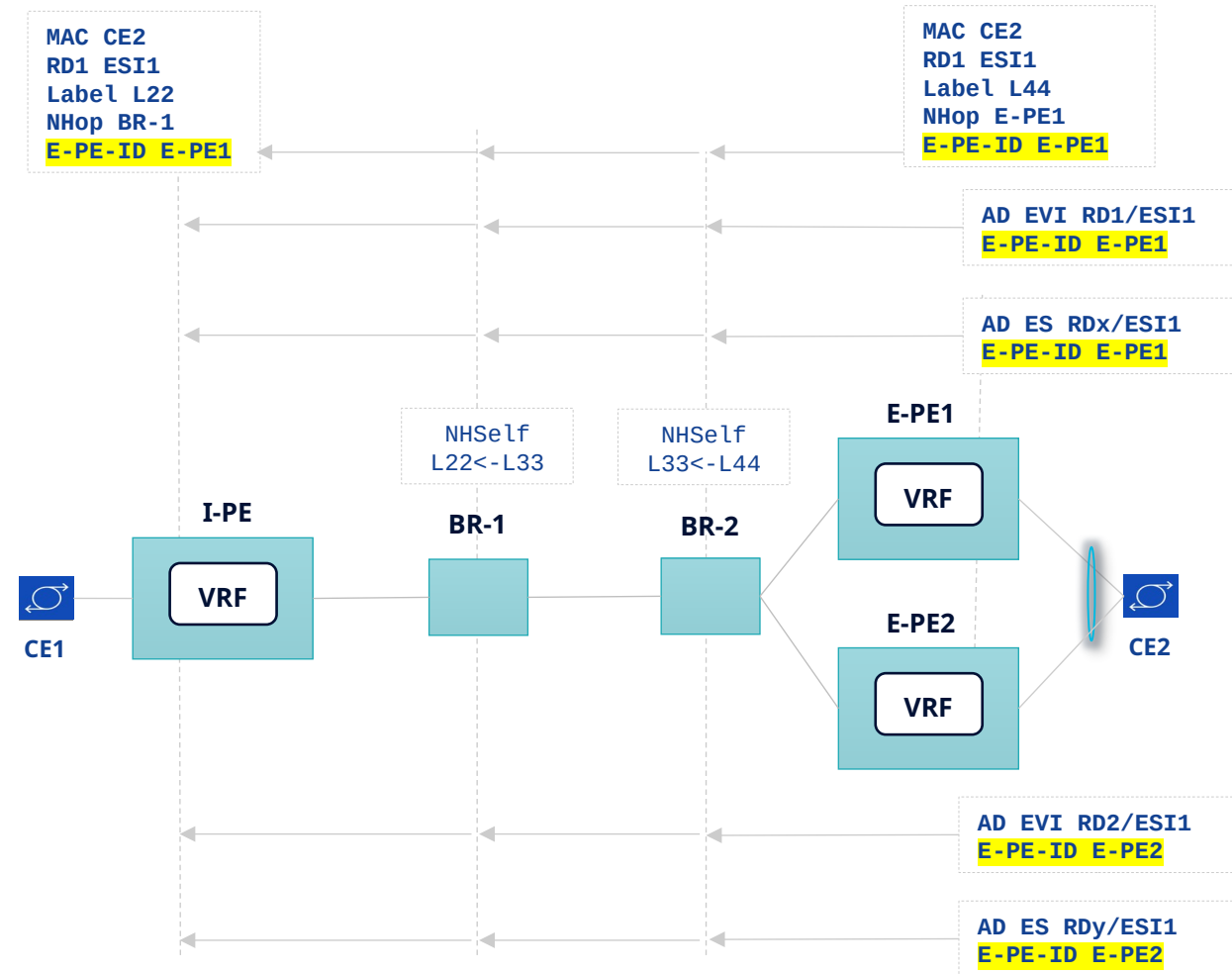
Sub-TLV in the BGP TEA Tunnel Encapsulation TLV

- Structure

- Composed of three subfields: Reserved, Address Family, and Address
- Encodes the unique PE IP address
- Sub-TLV usage defined following draft-hares-idr-bess-tea-templates

- Procedures

- Advertised by the egress PE, matching the NLRI next hop
- Allows the ingress PE to correlate MAC/IP and IP Prefix routes with A-D per-ES routes, enabling mass-withdraw
- Also used with other routes to support EVPN inter-domain Option B procedures, including:
 - Aliasing / Backup paths
 - DF election
 - AC-DF
 - Split-horizon filtering
 - E-Tree BUM egress filtering



Other changes in rev 08

EVPN Inter-Domain Option-B Solution

- When the Egress PE Identifier is not present in received routes, preventing correlation by the ingress PE, the ingress PE attempts to correlate routes using the Admin subfield of the Route Distinguisher (RD)
- Security Considerations have been updated to account for the new Egress PE ID sub-TLV
- The EVPN Instance RD solution has been moved to an Annex

Next Steps

Document has **sufficient WG interest**

Ready for Working Group adoption

Requesting WG adoption

Thank you