

draft-ravisingh-mpls-el-for-seamless-mpls-01

Entropy Label for Seamless MPLS

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What is this draft about?

- Providing benefits of entropy label (EL) for e2e MPLS data traffic when:
 - E2e labeled path is made from separate constituent labeled paths (that are individual portions of the e2e labeled path):
 - The constituent labeled paths maybe separate due to their:
 - using different signaling protocols, or
 - being setup independently
 - Not every constituent labeled path supports EL
 - Not every transit router is able to hash deep enough on label stack so as to include entropy label as a hashing input
- Key concept:
 - Entropy Label Capability (ELC) translation rules

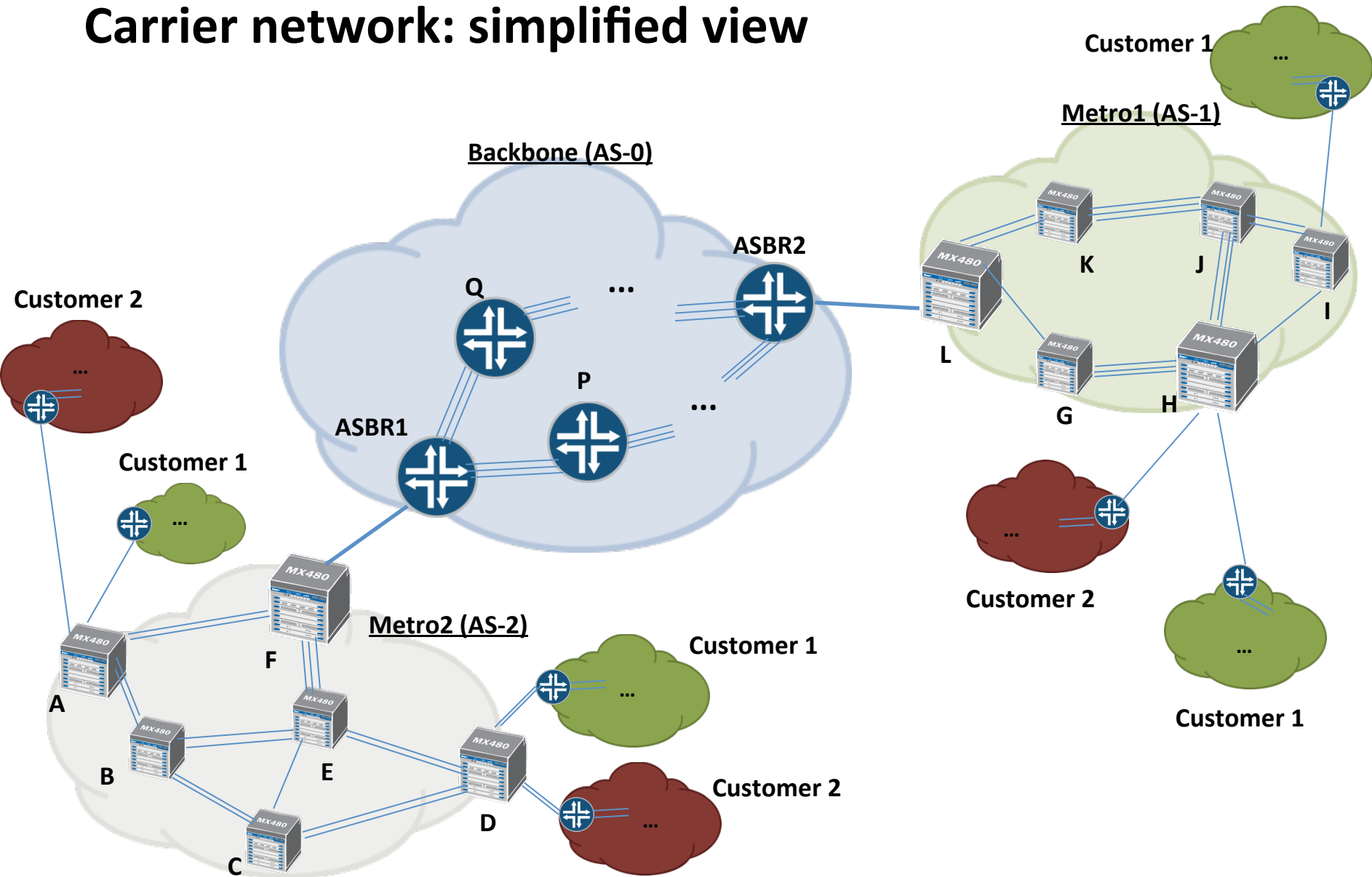
Feedback on “-00” @ IETF-86 (Orlando)

- Is this draft beneficial for deployments?
- What are the use-cases for this draft?

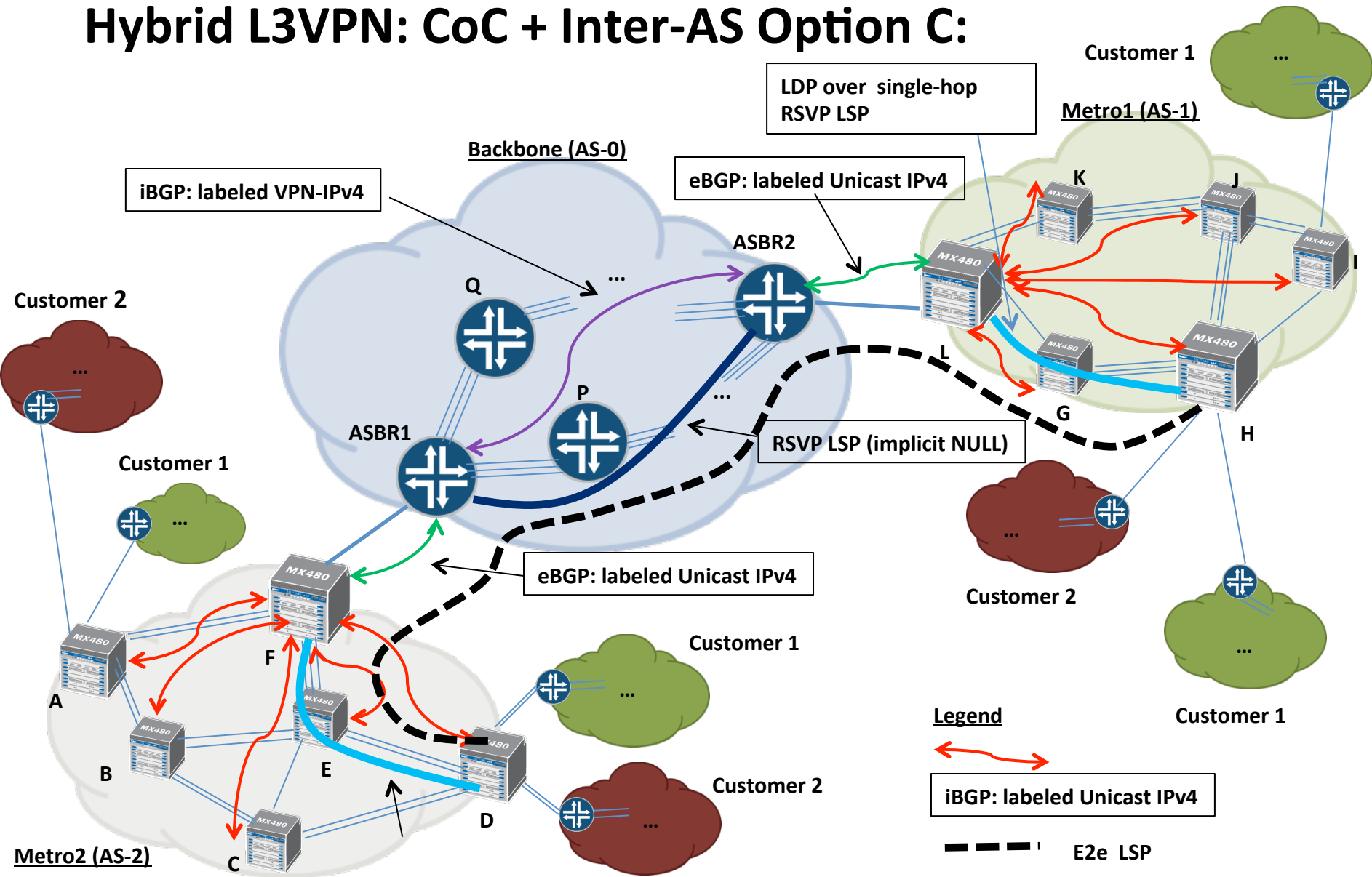
New in “-01”

- Use-cases:
 - Following use-cases for this draft are listed
 - Inter-AS L3VPN/BGP-VPLS
 - CoC L3VPN
 - GMPLS LSP stitching
- Central theme of the use-cases:
 - Carry through the same EL from e2e ingress LER to egress LER where possible, rather than have to do multiple insert-EL/remove-EL steps along the e2e path
 - Carry through the EL even on those constituent labeled paths (of the e2e LSP) whose ingress/egress LERs are not EL-capable

Carrier network: simplified view



Hybrid L3VPN: CoC + Inter-AS Option C:



Addressing: Feedback on “-00” @ IETF-86 (Orlando)

- **Is this draft beneficial for deployments? :YES** because:
 - Operators will not (be able to) turn-on/deploy EL in all of their routers/networks at the same time
 - Undesirable to insert-EL/remove-EL multiple times along e2e path
 - Desirable to get benefits of EL even on those constituent labeled paths that are not EL-capable
 - The above are enabled by the “EL-capability translation rules” listed in this draft
- **What are the use-cases for this draft?**
 - Covered in earlier slides
 - See section 6 in draft

Next steps?

- Soliciting any more feedback
- Progressing in the WG