draft-ravisingh-mpls-el-for-seamless-mpls-02

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

New in “-01”

- **Beneficial: Central theme of the use-cases:**
  - Carry through the same EL from e2e ingress LER to egress LER where possible:
    - Undesirable to insert-EL/remove-EL multiple times along e2e path
  - Carry through the EL even on those constituent labeled paths (of the e2e LSP) whose ingress/egress LERs are not EL-capable:
    - Desirable to get benefits of EL even on those constituent labeled paths that are not EL-capable
  - Operators will not (be able to) turn-on/deploy EL in all of their routers/networks at the same time
- **Use-cases:**
  - Following use-cases for this draft are listed (see slides from IETF88 for picture-illustrations)
    - Inter-AS L3VPN/BGP-VPLS
    - CoC L3VPN

New in “-02”

- **Clarified use of terminology:**
  - “Concatenated LSPs” instead of “stitched LSPs” to avoid confusion with GMPLS stitching

- **Previously received comments have been addressed**

Next steps:

- **Summary:**
  - All received comments have been addressed
  - Draft has valid deployment utility
  - There are other drafts citing this draft as a reference
    - draft-akiya-mpls-entropy-lsp-ping
    - draft-kini-mpls-spring-entropy-label

- **Requesting:**
  - WG adoption
  - Assignment of a document shepherd