6MAN WG

Segment Routing IPv6

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Current SR-IPv6 Drafts

- draft-ietf-spring-ipv6-use-cases (SPRING WG)
  - describes the SR-IPv6 use cases

- draft-previdi-6man-segment-routing-header (6MAN WG)
  - describes a new type of the Routing Header (SRH)

- draft-vyncke-6man-segment-routing-security (6MAN WG)
  - describes the security mechanisms applied to the SRH

Segment Routing for IPv6 Dataplane

- Draft-previdi-6man-segment-routing-header
  - Version 06
  - Addressed multiple comments on 6man mailing list
  - Clarification on the Adjacency Segment (Adj-SID)
  - Policy List elements (0 to 3)
  - Fixed typo on SR endpoint algorithm
  - Fixed references

Implementations

- Multiple implementations exist and interoperability has been demonstrated during IETF90, IETF91, IETF92
- Demo available this week at BnB
- Initially based on draft-previdi-6man-segment-routing-header-05.txt
  - Now based on version 06 with reversed Segment List
  - Cisco,
    Comcast,
    Ecole Polytechnique (Paris),
    UCLouvain (LLN, Belgium)
- Demonstrated interoperability between multiple, independent IPv6 Segment Routing implementations (routers and hosts)
- Illustrate interoperability between SR and non-SR capable routers and hosts
- Illustrate how SR can be leveraged for video content delivery through SR capable caches

Adoption ?

- Same question asked during IETF92:
  - Due to:
    - stage of SR-IPv6 protocol extension
    - interoperable implementations
    - use cases being addressed
    - interest from network operators
  - The authors, would like the WG to consider the adoption as WG item:
    - draft-previdi-6man-segment-routing-header
    - draft-vyncke-6man-segment-routing-security

Questions?

Thanks!