PROBLEM STATEMENT FOR INTER-DOMAIN INTENT-AWARE ROUTING USING COLOR

draft-hr-spring-intent-aware-routing-using-color-02

IETF 117

S. Hegde, Juniper Networks
D. Rao, Cisco Systems

S. Sangli, C. Bowers Juniper Networks Inc.
S. Agrawal C. Filsfils K. Talaulikar Cisco Systems
K. Patel Arrcus, Inc J. Uttaro
B. Decraene Orange A. Bogdanov BT
L. Jalil Verizon X. Xu China Mobile
A. Gulko Edward Jones M. Khaddam Cox Communications
LM. Contreras Telefonica
D. Steinberg Lapishills Consulting Limited
J. Guichard Futurewei W. Henderickx Nokia
Agenda

- Updates from last version
  - Multicast Requirements
  - Comments received on mailing list
- Next steps
Multicast Requirements

- Ability to create multicast distribution trees that minimize latency metric
- Ability to create multicast distribution trees that avoid nodes located in certain geographical region
- Ability to create multicast distribution trees that provide bandwidth guarantees within as well as across domains
- Ability to create multicast distribution trees that use subset of the topology
Multicast Transport

- mLDP
- RSVP-TE P2MP
- SR-MPLS Tree SIDs
- SRv6 Tree SIDs
- Native IPv4/IPv6 forwarding (networks without MPLS enabled)
Updates for Review comments

• Intent-awareness extending to customer networks
  • Ability to inform customer edge in case of fallback
  • Indication of intent requirement via DSCP in packet header
Next Steps

- Ready for WG adoption
Thank you