

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

draft-hr-spring-intentaware-routing- using-color-02

IETF 117

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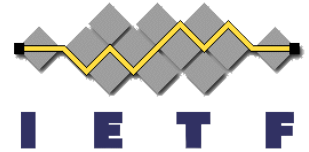
A. Gulko EdwardJones M. Khaddam Cox Communications

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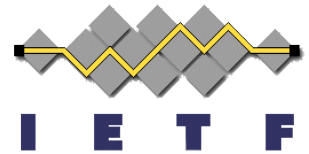
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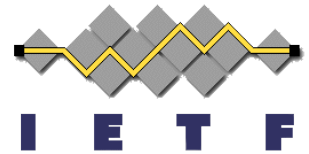
Agenda

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



Multicast Requirements

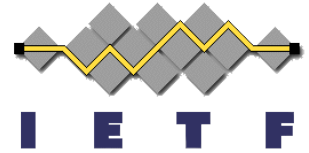
- Ability to create multicast distribution trees that minimize latency metric
- Ability to create multicast distribution trees that avoid nodes located in certain geographical region
- Ability to create multicast distribution trees that provide bandwidth guarantees within as well as across domains
- 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)

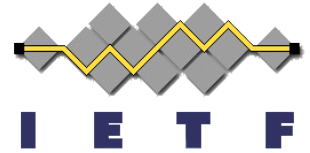
Updates for Review comments

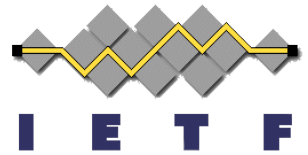


- Intent-awareness extending to customer networks
 - Ability to inform customer edge in case of fallback
 - Indication of intent requirement via DSCP in packet header

Next Steps

- Ready for WG adoption





Thank you