draft-geib-tsvwg-diffserv-intercon
IETF 90, Toronto

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Private discussions David Black, Fred Baker and Ruediger Geib (in progress):

- RFC 2474 and RFC 2475 on DSCP remarking for ingress traffic:
  - RFC 2474: Packets received with an unrecognized codepoint SHOULD be forwarded as if they were marked for the Default behavior, and **their codepoints should not be changed**. Such packets MUST NOT cause the network node to malfunction.
  - RFC 2475: Ingress nodes must condition all other inbound traffic to ensure that the DS codepoints are acceptable; packets found to have unacceptable codepoints must either be discarded or must have their DS codepoints modified to acceptable values before being forwarded. For example, **an ingress node receiving traffic from a domain with which no enhanced service agreement exists may reset the DS codepoint to the Default PHB codepoint** [DSFIELD].
  - Consequently, an interdomain agreement must specify how all DSCPs are treated by the receiving domain. That includes the treatment of unrecognized codepoints.

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- DiffServ and MPLS (in scope for diffserv-intercon):
  - RFC5127 indicates how to transmit different DSCPs as part of an MPLS Treatment Aggregate. This has now been picked up by diffserv-intercon.
  - The MPLS Short Pipe Model (pen-ultimate hop popping), interacts with a DiffServ aware domain transporting non tunneled traffic (see next slide).

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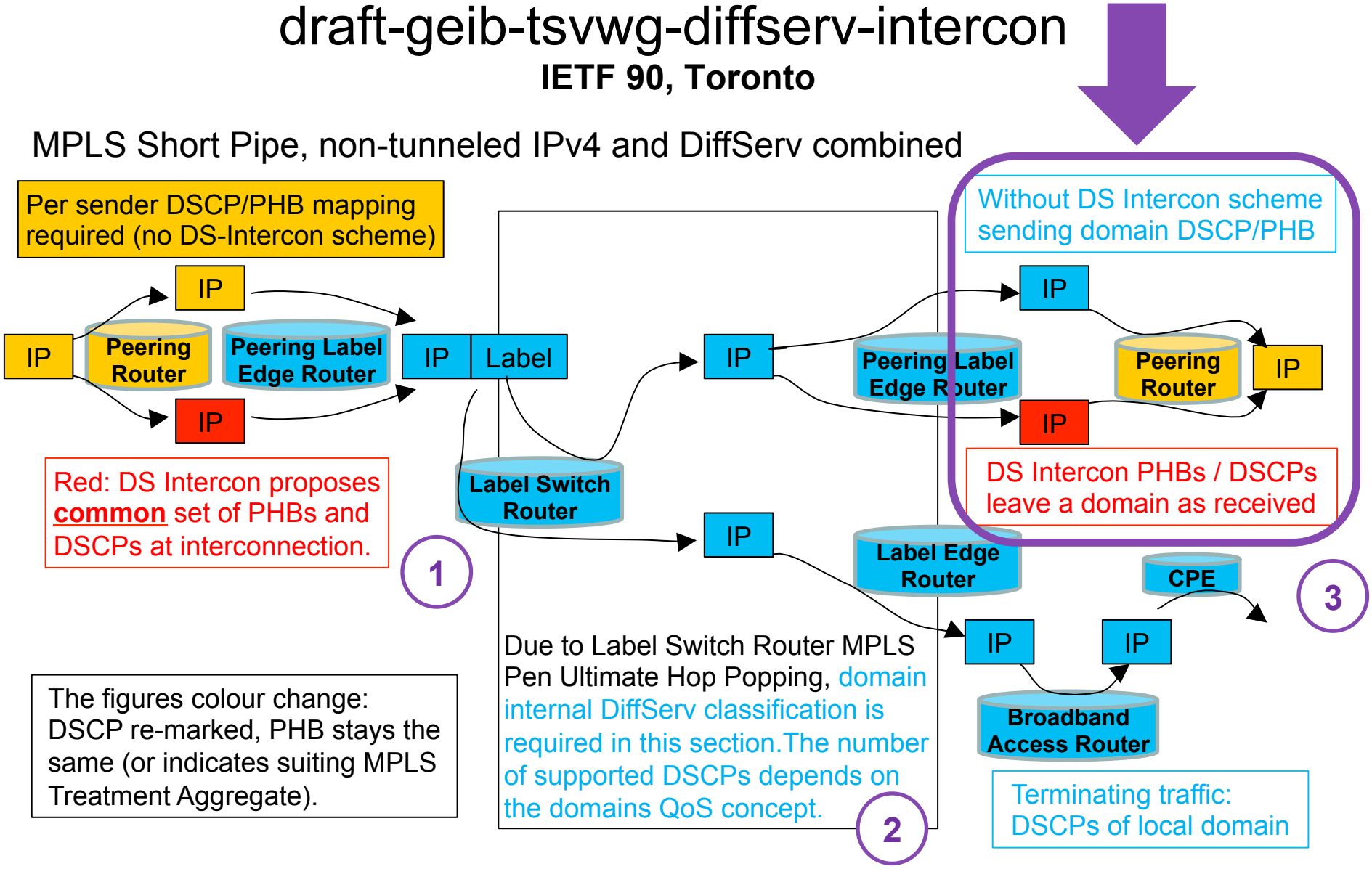
MPLS Short Pipe, non-tunneled IPv4 and DiffServ combined



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Next Steps

Current Target: Informational RFC

Slides are ahead of draft – will update draft to pick up rest of this material and discussion

Need to add discussions of IP tunneling aspects, IPv6 and MPLS based L3 VPNs.

Will document any open issues that remain.

Will solicit feedback from other carriers on their DiffServ deployments

Consult TSVWG how to make progress – will probably ask for draft adoption in Honolulu