A Lower Effort
Per-Hop-Behavior
draft-bless-tsvwg-le-phb-00

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Motivation

• First idea around since 1999 (lower than best-effort PHB draft-bless-diffserv-lbe-phb)

• Main objective: **protect best-effort traffic from Lower Effort (LE) traffic**
  • LE for low priority background traffic, e.g., backups, web crawler, software updates and OS upgrades
  • Easy to deploy: no parameters, no traffic conditioning necessary, no trust issues
  • Internet-2 came up with QBone Scavenger Service 2001

• After some discussion in DiffServ WG: **RFC 3662 „A Lower Effort Per-Domain Behavior for Differentiated Services“ (2003)**
Why again?

• Wrong choice of DiffServ Codepoint (DSCP)
  • RFC 3662 suggested to re-use AF PHB or CS-1 (Class Selector 1) – normally (by RFC 2474) means better than Best-Effort (BE)
  • RFC 4594 recommended to use CS-1

• Unclear whether CS-1 is actually treated better or worse than BE in a DS domain

• Issues came up with
  • RTCweb QoS Draft: draft-tsvwg-rtcweb-qos
  • DiffServ Intercon Draft: draft-tsvwg-diffserv-intercon
Actions...

- I-D rephrases RFC 3662 as Per-Hop Behavior
- I-D allocates a dedicated DSCP for LE, e.g., 000010
  - Removes ambiguity
- Would update RFCs 3662, 4594
- Maybe very late changes to
  - draft-ietf-tsvwg-rtcweb-qos
  - draft-ietf-tsvwg-diffserv-intercon
- Will correct, revise and submit v01 draft