

TSVWG IDs that may be of Interest

draft-ietf-tsvwg-le-phb

draft-ietf-tsvwg-ecn-experimentation

draft-fairhurst-tsvwg-datagram-plpmtud

G Fairhurst
(TSVWG Chairs)

Lower Effort PHB/DSCP

draft-ietf-tsvwg-le-phb-02

Lower Effort class

- Scavenger traffic, software update, download
- e.g., using Lebat congestion control
- RFC4594 suggested LE using DSCP: **001 000** (CS1)

TSVWG is defining a **new** standard DSCP

Need to avoid other DSCPs being marked as LE!

- Some operators still bleaching the top 3 bits of DSCP
- See TSVWG slides at IETF-99 (Prague)

TSVWG considering DSCP: 000 001 or 000 101

- This means using **IANA DSCP Pool 3**

Changes to ECN

draft-ietf-tsvwg-ecn-experimentation

Changes, including:

Obsolete old use of ECT(1)

Allow experiments with ECT(1)

Don't interpret CE as loss-equivalent

Enables other work in tcpm:

– ABE: draft-ietf-tcpm-alternativebackoff-ecn

– ECN++: draft-ietf-tcpm-generalized-ecn

Enables L4S work in tsvwg:

– draft-ietf-tsvwg-l4s-arch

– draft-ietf-tsvwg-ecn-l4s-id

– draft-ietf-tsvwg-dualq-coupled

PLPMTUD for datagram transports

draft-fairhurst-tsvwg-datagram-plpmtud

TCP can discover a Path MTU:

- ICMP-based Path Too Big Messages (PMTUD)
- MSS-Clamping (by middle boxes)
- PLPMTUD (verification by packet probes)

Challenges for doing this for datagram transports:

- Blackhole problems...
- What is a good PMTU probe message?
- How to start with a “sensible” effective PMTU?
- How to react to a lost probe?
- How to know the current effective PMTU is too small? ...

PLPMTUD for datagram transports

draft-fairhurst-tsvwg-datagram-plpmtud

PLPMTUD for datagram transports:

- Define a set of probe mechanisms & algorithm
- Specify PLPMTUD for SCTP
- Specify PLPMTUD for UDP-Options
 - (draft-ietf-tsvwg-udp-options)
- ... other datagram methods
- ... could work for tunnel transports ??!!%%

Currently individual draft - to be discussed Friday

TSVWG meets Friday

9:30-11:30 Friday Morning session I, Collyer