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 Ledbat congestion control
- RFC4594 suggested LE using DCSP: 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
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:

- 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