DSCP and ECN Monitoring in TWAMP

draft-hedin-ippm-type-p-monitor-02

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Changes from -00

- Welcome Steve Baillargeon
- Title more accurately reflects subject
- Changed formats:

S-DSCP	S-ECN

Sender DSCP and ECN field format

- S-DSCP-ECN follows S-TTL field in Reflected TWAMP Test packet in unauthenticated, authenticated and encrypted modes
- Thus if DSCP-ECN Monitoring and Symmetrical Size to be used, Padding Length for Session-Sender in unauthenticated mode MUST be >= 28 octets

Changes from -00 (cont.)

- Consideration of DSCP handling by Session-Reflector:
  - The Session-Reflector MUST extracts the S-DSCP-ECN value from the DSCP and ECN values of received packets;
  - The Session-Reflector MUST transmit each reflected test packet with DSCP set to the negotiated/ provisioned value;
  - If the negotiated/provisioned DSCP value is not known (e.g. TWAMP Light), the choice of the DSCP is implementation specific. For instance, Session-Reflector MAY copy the DSCP value from the received test packet and set it as DSCP in a reflected packet.

Changes from -00 (cont.)

- Consideration for TWAMP Light

  Appendix I of [RFC5357] does not explicitly state how value of Type-P descriptor synchronized between Session-Sender and Session-Reflector and whether different values considered as error condition and should be reported. We assume that by some means, e.g. CLI, Session-Sender and Session-Reflector of given TWAMP-Test session informed to use the same DSCP value. Same means, i.e. configuration, could be used to inform Session-Reflector to support DSCP and ECN monitoring mode by copying data from received TWAMP test packets. Then Session-Sender may be informed to use Sender DSCP and ECN field in reflected TWAMP test packet.

Next steps

- Solicit comments & feedback from the WG
- WG adoption