PR-SCTP Policies

Randall Stewart (randall@lakerest.net)
Michael Tüxen (tuexen@fh-muenster.de)
PR-SCTP

• Specified in RFC 3758
• multiple PR-SCTP policies
• Defining a PR-SCTP policy us a sender side only issue.
• RFC 6458 (SCTP Socket API) also allows multiple policies
• Specifies only one: PR_SCTP_TTL
New Policy: PR_SCTP_RTX

• Limits the number of retransmissions for each DATA chunk of a user message.
• Takes timer based and fast retransmissions into account.
• Using 0 provides service similar to UDP.
• Used by RTCWeb.
New Policy: PR_SCTP_PRIO

• Assigns a priority to user messages.
• In case of a buffer shortage on the sender side, lower priority messages get abandoned in favour of higher priority ones.
• Used by IPFIX.
Status of the ID

- Socket API considerations are included.
- Implemented in FreeBSD for multiple years.
- Statistic counters were added based on feedback from FORCES.
- Comments are very welcome.
- Ready for WG adoption?