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TCMTF

Tunneling Compressed Multiplexed Traffic Flows

Date: Thursday, August 1, 2013

Time: 1520-1650 (Afternoon Session II)

Room: Potsdam 3

Chairs: Gorrry Fairhurst & Janardhan Iyengar

Description:

This transport area BoF aims to create a Working Group to specify the protocol stack, signaling mechanisms and maximum added delay recommendations for tunneling, compressing and multiplexing traffic flows.

The bandwidth (overhead) and latency requirements of small packets are a concern for operators and network users. The interactivity requirements of some services (e.g., VoIP, videoconferencing, telemedicine, online gaming) result in high rates of small packets, to transmit frequent updates over the network, often expecting low delay. Some other non-delay sensitive services also use small packets, (e.g., instant messaging, m2m packets).

When a number of small-packet flows share the same path, bandwidth can be saved by multiplexing multiple flows. This may add a multiplexing delay, which has to be maintained under a threshold to meet delay requirements. RFC4170 (TCRTP) defined a method for grouping VoIP packets considering three different layers: header compression by means of EC RTP; multiplexing by means of PPPMux; tunneling by means of L2TPv3. This BoF explores the need to widen the scope of RFC4170 to consider not only UDP/RTP, but also other protocols.