DCCP Encapsulation for NAT Traversal

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Background

• Draft was idle for a while
  – Discussion on general directions for UDP encapsulation
  – Common mechanism vs. protocol specific documents
• Topic raised again in Hiroshima
  – Need something done rather soon
  – Other past RFCs to specify UDP encapsulation for protocol X
    – Adopted based on strong support on the mailing list
• Should be aligned with related SCTP work
Draft Outline

• Modified “DCCP-NAT” header inside UDP datagrams
  – No support for short sequence numbers
  – No checksum or checksum coverage fields

• Partial checksums indicated by UDP length

• Short discussion on ECN and PMTU discovery

• Signaling the use of DCCP-NAT in SDP
For Discussion...

• Recent changes
  – Checksum coverage using UDP length
  – ECN and PMTU discovery considerations
  – Simplification of SDP definitions

• Other comments
  – Worth considering a straight encapsulation mode
  – Should discuss drawbacks of UDP encapsulation
Next Steps

• Desire to move forward swiftly
  – If there are open issues, solve by next version
  – Then, if everything looks ok, issue (DCCP) WGLC

Please read the draft and send comments to the DCCP mailing list