Crosslayer Indications for Transport Protocols
<draft-sarolahti-tsvwg-crosslayer-00>
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Background

• Several related BOFs in the past
• TERNLI Bar-BOF in IETF-66
  • “IETF does not have a good collective memory”
• Recent experience from the Quick-Start work
  • Many problems are common with other similar schemes
• Informative overview of the past work could be useful
  • Not specifying new protocols
  • Document and classify the known problems in crosslayer mechanisms
  • Some background for future proposals of new crosslayer schemes and BOFs
Overview

• Focusing on mechanisms that require network interaction
• Classification of cross-layer communication mechanisms
  • In-band vs. Out-of-band
  • Router support
    1) Require support from all routers?
    2) Use information from some routers?
    3) Exchanging information just between the end-hosts?

• Past work
  • Not going to be a full research index of all past work
  • Focusing on IETF work (BOFs, Internet-Drafts, RFCs)
  • Referencing selected interesting papers

• Description of known problems
• Discussion of possible future steps
Next Steps

• Wanted to get -00 version out quickly to hear first impressions
  • Next version to add missing sections from the -00 version

• Feedback has been positive
  • Taxonomy could be organized differently
  • Consider IEEE 802.1au that standardizes ECN-like mechanism in 802.x space
  • Text on IP tunnels could use some work
  • Terminology should be clarified
  • Pointers to related work
  • Editorial notes

• Further community feedback and contributions would be useful
• Should this be a tsvwg working group draft?