

# *Specifying New Congestion Control Algorithms*

draft-ietf-tsvwg-cc-alt-00.txt

Sally Floyd, Mark Allman

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# What is the problem?

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- There are many proposed congestion control mechanisms.
- Some TCP implementations use congestion control that has not been through IETF process.
- E.g., Linux and BIC TCP.
- Goals:
  - ▶ Encourage new congestion control mechanisms to go through IETF review.
  - ▶ Give guidelines for considering congestion control mechanisms for Experimental status.

## Since last time ...

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- Numerous changes based on feedback from Microsoft's High-Speed TCP workshop and within the WG
- Added a section giving guidelines for requirements necessary for approval for deployment in the global Internet:
  - ▶ Guideline #1: impact to flows using standard congestion control
  - ▶ Guideline #3: investigating across a range of scenarios
  - ▶ Guideline #4: protection against congestion collapse
  - ▶ Guideline #8: consider deployability

## Since last time ... (cont.)

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- New congestion controllers should be robustness to:
  - ▶ various queuing strategies
  - ▶ middleboxes
- Changed the fairness guideline
  - ▶ new congestion controllers are expected to assess the impact on standard congestion controlled flows
  - ▶ do not comment on how this assessment should be conducted
  - ▶ removed some examples
    - which could be viewed as blessing one way to conduct the assessment

## **Since last time ... (cont.)**

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- Various minor changes for clarity
- Various editorial changes

# Next Step

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- Authors are not aware of remaining unaddressed items
- Additional comments?
- Ready for WGLC?