



# Datagram Congestion Control Protocol dccp

Aaron Falk

[falk@isi.edu](mailto:falk@isi.edu)

To subscribe:

[dccp-request@ietf.org](mailto:dccp-request@ietf.org)



# Agenda

1. Agenda Bashing	Falk	5 min
2. Charter Review	Falk	15 min
3. First Milestone: Requirements/functional summary	Floyd	30 min
4. Spec Changes	Kohler	30 min
5. Open Issues from List	Kohler	20 min
6. Implementation Reports		20 min
7. Adjourn		



# Charter Review

- DCCP should enable
  - Unreliable data flow
  - Congestion control within flow
- While avoiding
  - Packet overhead or end-node processing
  - TCP's reliability or in-order processing



# Within Scope

- Functions that are difficult or impossible to add at higher or lower layers. E.g.,
  - Security
  - Multi-homing/mobility
- Support for IPv4 & IPv6



# More on Security

- Need Denial of Service (DoS) attack resistance for
  - Servers
  - Connections
  - (non-cryptographic)



# Out of Scope

- Multicast



# Getting started

- *An “abbreviated functional requirement validation”...*
- Is the proposed protocol suitable?
  - If yes, are modifications needed?
  - If no, start formal requirements process



# Specific Application Issues

- Is DCCP an acceptable protocol for use with...
  - RTP
  - Security management protocols (e.g., IKE, JFK)?
- Do these applications pose additional requirements?





# Milestone Summary

SEPT 02	Functional Summary/ “problem statement”	
DEC 02	Decision on current protocol	
APR 03	DCCP protocol definition w/ applicability statement	Proposed Standard
APR 03	Congestion Control Profiles (TCP-like & TFRC)	Proposed Standards
JUN 03	User guide	Informational RFC