Datagram Congestion Control (DCCP)

Design Review (a new thing)

Pointers

All slides are available at

http://www.icir.irg/kohler/dccp/ietf57

Mailing list:

http://www1.ietf.org/mailman/listinfo/dccp

Meeting Format & Ground Rules

Or, how does this thing work?

Background

- DCCP spec is settling, but not finished
- Written review of spec (nearly) completed on mailing list
- Implementations happening this summer
- Plan WGLC this fall
- We probably should have had this review a little earlier

But it's not too late to make significant changes

What are we doing?

- This is a technical design review
- Want to surface issues from a crossdisciplinary audience

Look for

Faulty assumptions Particularly in apps/upper layers

- Poor design decisions
- Unnecessary functions or complexity
- Implementation, deployment risks

Design Review Agenda

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Meeting Objectives & Rules	5 min
Charter Review	5 min
Spec Review	40 min
<i>Expert Reviewer</i> Comments	10 min
Discussion	45 min
Reviewer Feedback	10 min
Closeout – Next steps	5 min

Who's Who?

- Several roles interplay
- Quick definitions follow

Running the meeting

WG chair (Aaron) & AD (Allison)

Tracking time

- Monitoring process
- Making sure comments are heard and captured

Presenting the spec

 Spec authors (Eddie assisted by Sally & Mark)

 Giving quick run-through of the spec for non-experts
 Clarifying intent

Design Reviewers

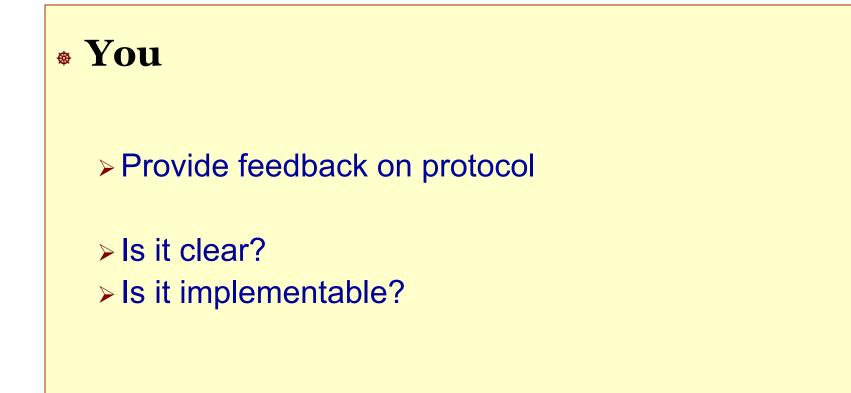
- Magnus Westerlund (multimedia)
- Steve Bellovin (security)
- Rob Austein (architecture)
 - Evaluating spec
 - Considering feedback from room
 - Making (written & verbal) recommendation: What must be done for the spec to proceed?

Expert Reviewers

- Greg Minshall (transport)
- Jonathan Rosenberg (multimedia)

Conducting detailed written spec review (sent to list)

The Room



Meeting Scope

In Scope

- Questions of clarification
- Suggestions of error, poor design choice

out of Scope

- >WG charter
- Problem statement, e.g., macro goals of the protocol

Ground Rules

 Only reviewers ask questions during spec walkthrough

in the interest of time

 If you raise a substantive issue, please followup with a short note to the list

> to ensure correct capture of name & issue

If you think an issue is a showstopper, say so
note it, don't fix it in this meeting

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DCCP Charter Review

What are we trying to accomplish?

Protocol Objectives

- Establishment, teardown & maintenance of un-reliable packet flow
- Congestion control for that flow

Charter Guidance

- Minimize packet overhead
- Be simple, avoid unnecessary higher layer functions
- Enable other functions to be layered on top



- IPv4 and IPv6
- Non-cryptographic mechanisms for DoS protection
- Multi-homing/Mobility

Deliverables

- Publish Protocol and CCID Spec as Standards-track RFCs
- Publish Example API as Informational RFC

WG Schedule

- 6/03 expert review for spec
- 6-8/03 implementations
- ietf-57 spec design review
- 9-11/03 incorporate review and implementation feedback into spec
- 10/03 collaborate with avt wg on API
- ietf-58 prepare for wg last call
- 11/03 wg last call for spec, CCIDs
 - 12/03 wg last call on API

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