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DCCP User Guide

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User Guide I-D

- This isn't yet the right document (don't read it!)
- We want it to be:
 - Useful to implementors (guidance on how to implement)
 - Useful to users (guidance on how to use)
- It should not be:
 - About how to choose a CCID
 - About relating applications to CCIDs

Ideas for inclusion

- DCCP interactions with the network
 - Firewalls, IPsec, etc
- DCCP feature negotiation
- DCCP Service Code Selection
- The DCCP API
- ... More (what is missing????)

Service Codes

- Why do we have Service Codes?
- Identifies the application-level service of the client
- Middleboxes (firewalls) can use Service Codes to identify applications running on a nonstandard port
 - But, possibility of cheating...
 - What do end hosts do if SC and Port differ?

SC

- 0 (unallocated) [RFC4340]
- 1145656131 ("DISC") [RFC4340]
- 4294967295 (invalid) [RFC4340]
- Private [RFC4340]
- Need to encourage use rather than a value of '0'
 - RTP (soon)
 - Which takes priority? port or SC?
 - We need to avoid "proliferation" of variants!

foo-over-foo-over-DCCP

- Understand what to do for DTLS/DCCP.
- Three options are:
 - Common SC for each type of DTLS content
 - A SC that indicates DTLS
 - SC to show each type of DTLS content
- i.e. Does DTLS, RTP, etc, get one or many codes?

Taking this forward

- DCCP interactions with the network
- DCCP feature negotiation
- DCCP Service Code Selection
- The DCCP API
- We need authors, comments, and experience