Next Steps for CCWG

Why specify new CCs?

A specification can help implementers, operators, and other interested parties to develop a shared understanding of how the algorithm works and how it is expected to behave in various different scenarios or configurations.

A specification can help potential contributors understand the algorithm, which can make it easier for them to suggest improvements and/or identify limitations. Further, the specification can help multiple contributors align on a consensus change to the algorithm.

A specification that is accessible to anyone circumvents the issue that some implementors may be unable to read open source reference implementations due to the constraints of some open source licenses.

Criteria

1. Empirical evidence of safety

2. Stated intent to deploy by major implementations

Pathways to Publication

IETF **CCWG**	IRTF **ICCRG**	**Independent Stream**
Informational	Informational	Informational
Experimental	Experimental	
Proposed Standard		
Internet Standard		

Pathways to Publication

IETF CCWG

Benefit from and willing to update based upon IETF/IRTF review

Empirical evidence of safety

Stated intent to deploy by major implementations

IRTF ICCRG

Incubation
Less mature

Independent Stream

Existing algorithms that aren't going to change based on IETF review

Future Work

New congestion control algorithms

Updating existing specifications to reflect reality

Congestion related topics
    Delay, queueing, pacing, multipath, cross-layer interactions

Future Work

New congestion control algorithms

    BBRv3

    Prague

    HPCC++

    SCReAMv2

Updating existing specifications to reflect reality

    Rate-limited senders

    Reno

Charter