

# Guidelines for Internet CC draft-fairhurst-tsvwg-cc

Gorry Fairhurst

`gorry@erg.abdn.ac.uk`

# Overview

- The IETF has said much about Congestion Control (CC)
  - Normatively in RFC2814,.... and at least 10 other RFCs
  - More than 40 other informative reference RFCs

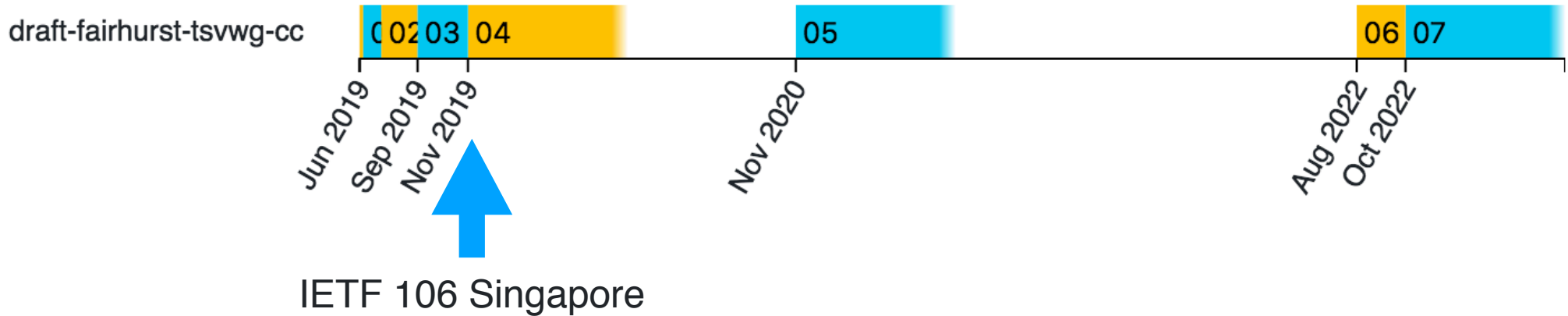
# Overview

- The IETF has said much about Congestion Control (CC)
  - Normatively in RFC2814,.... and at least 10 other RFCs
  - More than 40 other informative reference RFCs
- In 2019, I decided to write ~4 page document on the core things that would encourage a CC to "play well"

# Overview

- The IETF has said much about Congestion Control (CC)
  - Normatively in RFC2814,.... and at least 10 other RFCs
  - More than 40 other informative reference RFCs
- In 2019, I decided to write ~4 page document on the core things that would encourage a CC to "play well"
- Well.... , it took more than 4 pages!

# The story so far



- So in Singapore, the minutes note:
  - 4 people spoke at the Mic encouraging to progress this
  - We would ***gather people to talk*** and ***define this together***

# Principles of Congestion Control

- Transport has changed
- There are still a diversity of Path Characteristics
- **Preventing Persistent Congestion**
  - Starvation, congestion collapse, etc
- **Reacting to Incipient Congestion**
  - Flow multiplexing and capacity sharing

# Draft Revisions

- I rewrote, restructured, and changed things.
- This resulted in 843 lines changed or added.
- Latest -07

# Table of Contents

## draft-fairhurst-tsvwg-cc

1. Introduction . . . . .	3
1.1. Incipient and Persistent Congestion . . . . .	3
1.2. Avoiding the effects of Persistent Congestion . . . . .	4
1.3. Mitigating the effects of Incipient Congestion . . . . .	5
1.4. Current Challenges . . . . .	6
2. Terminology . . . . .	7
3. Author's Note on Additional Material . . . . .	8
4. Requirements from the RFC Series . . . . .	8
5. Principles of Congestion Control . . . . .	11
5.1. Preventing Persistent Congestion . . . . .	11
5.2. Reacting to Incipient Congestion . . . . .	12
6. Acknowledgements . . . . .	18



# Questions to WG



- In 2019 I asked:
- Will / has anyone read this?
- Does anyone care?
  - Who will help me? ... or should I spend my time otherwise?