NWCRG status, after 8 ½ years…
(2013 – 2021)

Marie-José Montpetit, Vincent Roca
July 29th, 2021, IETF 111 online meeting
Key events and RFC publications

2013-02
NWCRG launch, Brian/Victor co-chairs
(Lars E. IRTF chair)

2016-10
Vincent new co-chair

2017-09
• Marie-Jose new co-chair
• new RG acronym expansion: “coding for efficient NC”

2017-06
RFC 8406 “Taxonomy” 2018-06

2018-06
RFC 8975 “NC for satellites” 2021-01

2021-01
2021-03 “NC for CCN” sent to IRSG
2021-07 “Coding & CC” sent to IRSG
2021-09 (?) “BATS” to be sent to IRSG

(1st meeting) IETF 86

(last meeting) IETF 111
Three additional RFCs 😊

(1st meeting)  
IETF 86

RFC 8406  
"Taxonomy"  
2018-06

RFC 8975  
"NC for satellites"  
2021-01  
(last meeting)  
IETF 111

2020-01 @ TSVG, but initiated within NWCRG

- RFC 8680: “FECFRAME extension for sliding window codes”
- RFC 8681: “sliding window RLC codes”
- RFC 8682: “TinyMT32 PRNG”
But also controversy

- After 8 years of silent participation to NWCRG/TSVWG (no IPR disclosure), on March 2020 **CodeOn** disclosed a patent against RFC 8681 “Sliding window RLC FEC schemes for FECFRAME”, soon after the RFC being published
  
  [https://datatracker.ietf.org/ipr/4069/](https://datatracker.ietf.org/ipr/4069/)

- Pretty uncomfortable situation
  - MJM listed as co-inventor but convinced IP does not apply to RFC 8681
    [https://mailarchive.ietf.org/arch/msg/nwcrg/n4DeGM_4xRzQChPX7NQ9CUmThvo/](https://mailarchive.ietf.org/arch/msg/nwcrg/n4DeGM_4xRzQChPX7NQ9CUmThvo/)
  - full support of IRSG chair and several NWCRG participants towards MJM
    [https://mailarchive.ietf.org/arch/msg/nwcrg/vk_7y3JyPSWJdXNkCcs3EdOegaY/](https://mailarchive.ietf.org/arch/msg/nwcrg/vk_7y3JyPSWJdXNkCcs3EdOegaY/)
And a few regrets

• no “Random Linear Network Coding” with in-network recoding RFC (!)
  o two I-D initiated by CodeOn, but never finalized
  o BTW CodeOn explained (June 2018) they had no reason disclosure any IPR for this doc
    https://mailarchive.ietf.org/arch/msg/nwcrg/1hMBDR4XLE0cXbj4BOGhW5doYU0/

• no Tetrys RFC
  o an I-D initiated but never finalized

• no “FEC for QUIC” nor “RLC for QUIC” RFC
  o QUIC v1 RFC publication took too long, and lack of resources 😞
And a few regrets (2)

- SWIF (sliding window FEC codec) hackathon project
  - almost done, but not finalized because of lack of resources and difficulties with remote hackathon 😞

https://github.com/irtf-nwcrg/swif-codec
What’s next?

- IRSG processing of
What’s next? (2)

• BATS codes
  o RG LC remains to be done but I-D has already been carefully reviewed (soon to start)
  o then IRSG processing (September?)
• We’re almost done, this is our last meeting, thank you all, it was a pleasure!