# IETF Hackathon: SWiF Codec

IETF 106
16-17 November, 2019
Singapore

## Hackathon goals

Our 4th Hackathon

- 1- design a reference, open-source, free codec
  - RLC-like first, RLNC-like in a second step
  - facilitate FEC tests and adoption
- 2- challenge our "generic API" I-D

## Team @ ietf106

#### A unique 100% French-speaking team (once again):

- Cédric Adjih (part time)
- Oumaima Attia
- Vincent Roca (lead)
- Oumaima and Cédric did a lot since previous hackathon... unlike me.
   Thanks !

### Achievements

- encoder done
- decoder starts decoding, result seems okay
- C demo application almost done
- python wrapper for tests/demos almost done

## Achievements (2)

- fixed 1 issues in "generic API" I-D
  - stupid void\* instead of void return type
- 4 open points remain from ietf105:

```
encoder_reset_coding_window() usefulness / esi_t type / callback at session end? / swif_encoder_get_coding_window_information() format
```

## Next steps

- 5<sup>th</sup> hackathon at IETF107/Montreal
  - code cleanup/unitary tests/applications
  - better documentation in the I-D: how to use it?

- we'll then be ready for the RLNC-like codec
  - @IETF108? Before?