



IMT Atlantique

Bretagne-Pays de la Loire

École Mines-Télécom

SCAN ME



SCHC: A NEW ERA OF INTEROPERABILITY

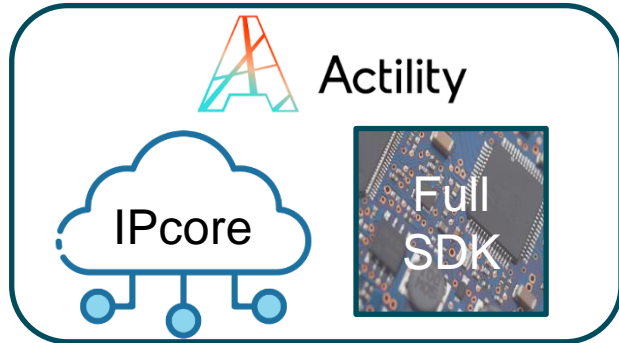
LAURENT TOUTAIN

https://youtu.be/rZ48qsBtt_w



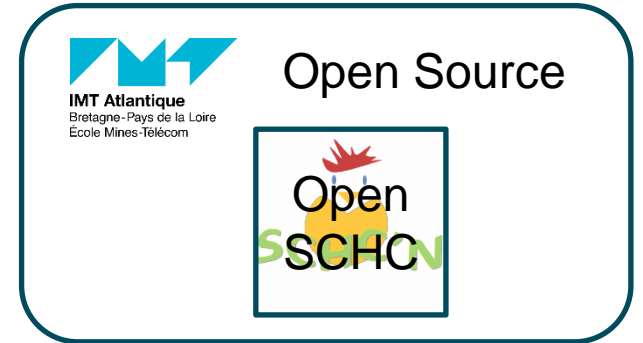
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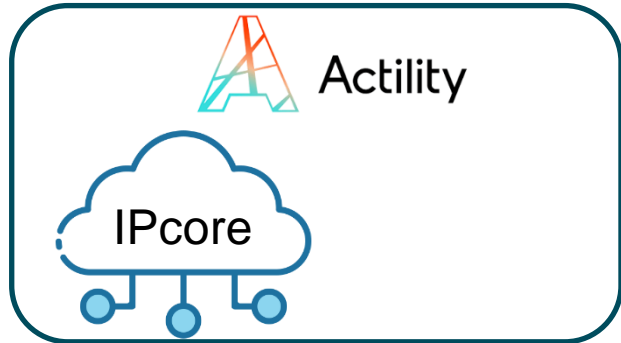
lab.SCHC



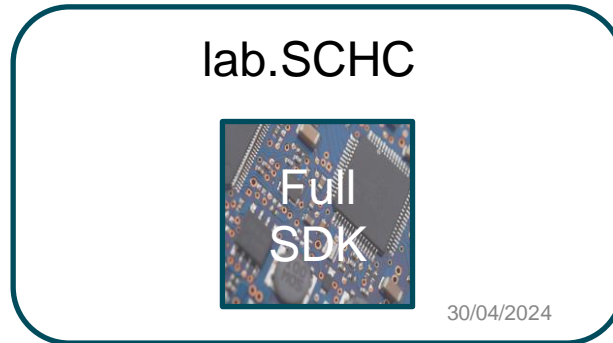
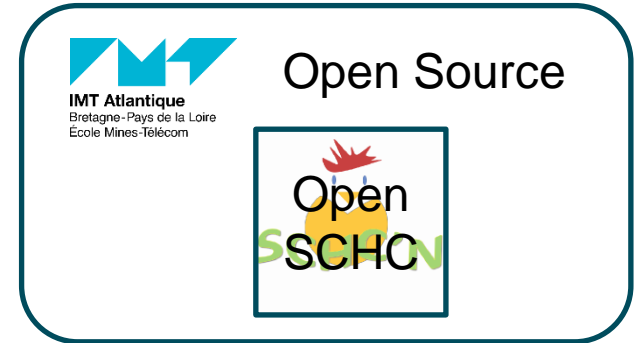
Icon by bearicons

Photo par formulaire [PxHere](#)





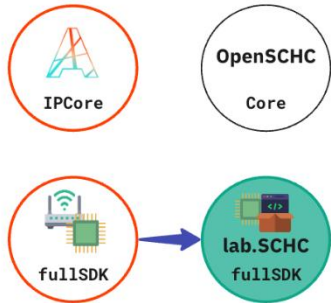
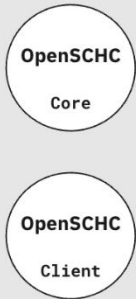
Icon by bearicons





lab.SCHC creation

- Refactor C/D & F/R functionality
- OpenSCHC interoperability
- Github repository setup

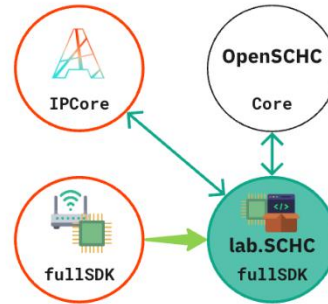


April

Open repository

Development

- Ensure rule interoperability
- Param Sync fn.
- FEC test

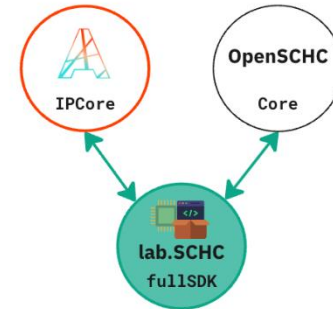


July

IETF

Advanced functionalities

- FOSS SCHC embedded solution
- CORECONF compatibility



November

Full codebase release

New standards impl.

LAB. SCHC/FULLSDK/PLATFORMS

B-L072Z-LRWAN1 (STM32L0)

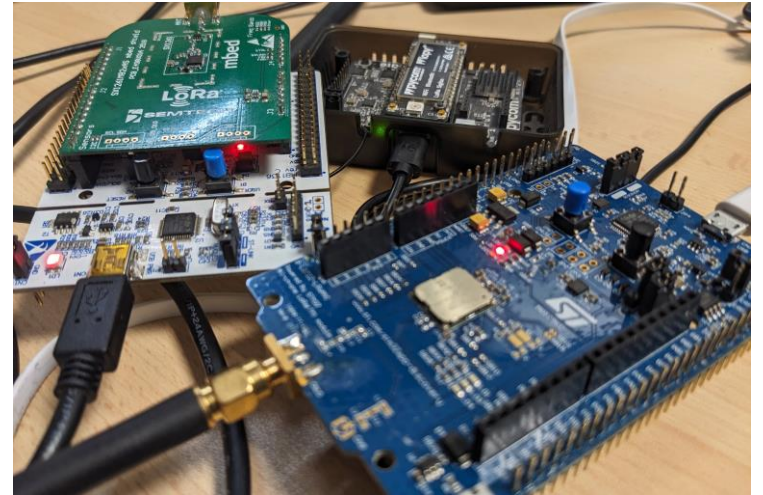
Arm Cortex-M0+

SX1276

NUCLEO-L476RG

Arm Cortex-M4

SX1276 | SX1272 | SX1261



LoRaWAN (Semtech)

LBM (LoRa Basic Modem)

Sigfox

NB-IoT

RisingHF

B-CDMA (Broadband CDMA)

UDP/UDP6

∨ l2

- > at_risinghf
- > at_risinghf_p2p
- > b_cdma
- > common
- > lbm
- > lbm_3.3.0
- > nb_iot_exs82
- > nb_iot_hl78
- > nb_iot_mosh
- > nb_iot_slm
- > semtech
- > semtech_4.4.7
- > sigfox
- > udp
- > udp6



SO FAR

Derivative SDK
compatible with
openSCHC

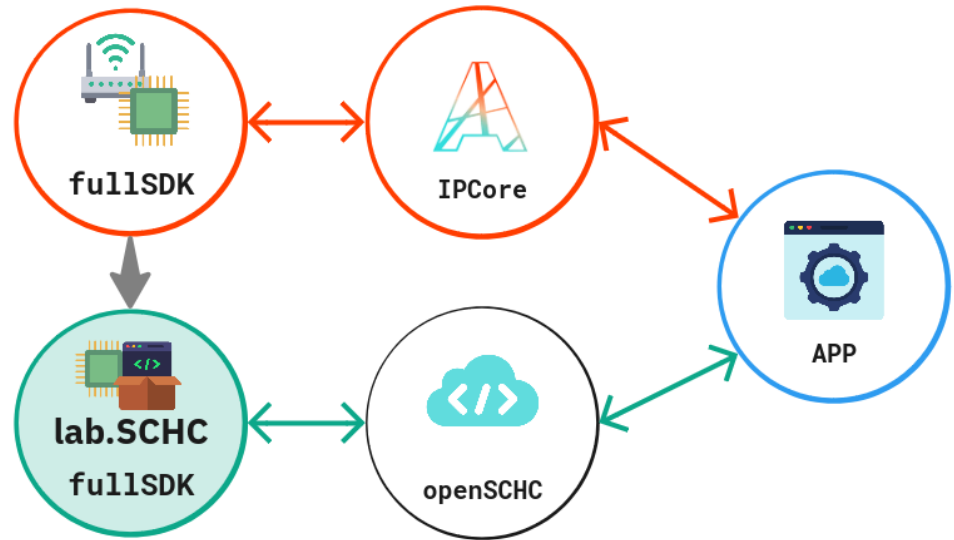
Compression-only example

Next up:

Test F/R

Release github
repository

As per roadmap





IETF 120

See you soon!