IETF Hackathon: <Cefore>

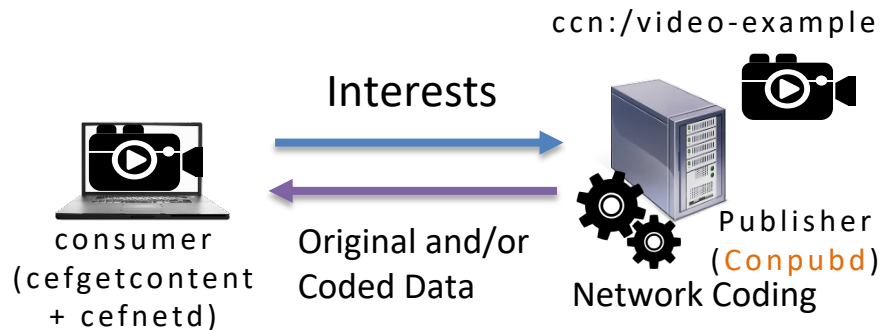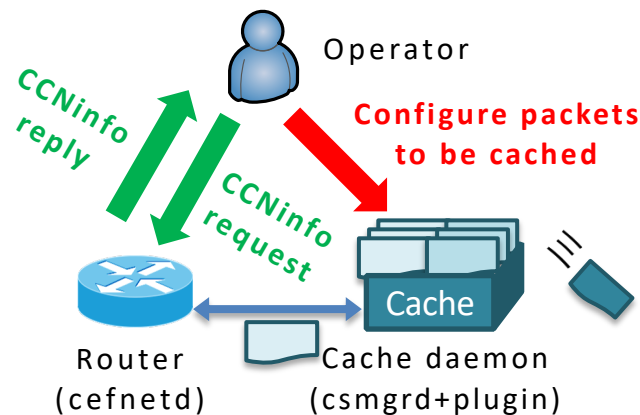## IETF 106
Nov. 16-17, 2019
Singapore

Hackathon Plan

- ICNRG (Information-Centric Networking RG)
  - RFC8569(CCNx Semantics)/RFC8609(CCNx Messages)
- What's Cefore?
  - Open-source software enabling CCN communications.
    - https://cefore.net
- Enhancing Cefore functionalities in the context of the drafts:
  - CCNinfo:
    - https://tools.ietf.org/html/draft-irtf-icnrg-ccninfo-02
  - Network Coding for CCN/NDN:
    - https://tools.ietf.org/html/draft-irtf-nwcrg-nwc-ccn-reqs-02

Achievements

- What we did:
  - Implementing
    - In-network cache controller using CCNinfo
    - Content Producer (Conpubd) using Network Coding
- Achievements:
  - Building and testing the basic plugin modules
  - Need to make more flexible naming scheme and deal with interest packet losses.

Operator

CCNinfo reply

CCNinfo request

Configure packets to be cached

Cache

Router (cefnetd)

Cache daemon (csmgrd+plugin)

ccn:/video-example

Interests

consumer (cefgetcontent + cefnetd)

Original and/or Coded Data

Publisher (Conpubd)

Network Coding

Wrap Up

Team members:

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First timers @ IETF/Hackathon:

https://cefore.net