CCN lite

v0.1.0   released July 27, 2013

http://ccn-lite.net

- A „reduced, lightweight, interoperable" CCNx implementation
- core logic has less than 1000 lines of C, is reused 1:1 for

  UNIX user space, Linux kernel, C++ wrapper for OMNeT

- ISC license
- fragment support (format is coordinated with PARC, not yet officialized)
- hooks for traffic ctrl at Interest/Content as well as Frame level
- Deltas to PARC's `ccnd`:

  no crypto, no interest exclusion fields, no repo, no TCP faces, no ...

- Interop scenarios

  content access: ccnpeek—*tcp*—ccnd—*udp*—ccnl

  SYNC: ccnr—*tcp*—ccnd—*udp*—ccnl—*eth*—ccnl—*udp*—ccnd—*tcp*—ccnr

  mgmt protocol: ccn-light-ctrl—*udp*—*ccnl*

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- Fragmentation of CCNx objects:
    - Discussion with PARC, also CISCO, since more than 1y
    - Three discussion areas: representation, style, ops
        - *representation*: ccnb vs TLV1 vs TLV2 vs ...
        - *fragmentation style*: hop-by-hop vs mit-to-end, extensions
        - *ops*: „face control protocol", similar to LCP in PPP?
    - Beside defining DTAGs: need std `ethtype` value

- Interop and conformance – this discussion should start now
    - Levels: no crypt, no cache, ...
    - Management protocol: configuration and status query
    - Routing ...