

# ICN LoWPAN

draft-irtf-icnrg-icnlowpan-06

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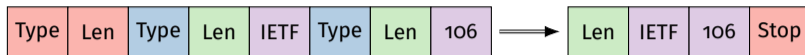
November 18, 2019

## Draft Update (05 $\Rightarrow$ 06)

- ▶ Fix wrong HopID range: (1 ... 128) to (1 ... 127) (thanks to Junxiao Shi)
- ▶ Fix editorial typos (thanks to Junxiao Shi)
- ▶ Reference draft-gundogan-ccnx-timetlv in Sec. 7

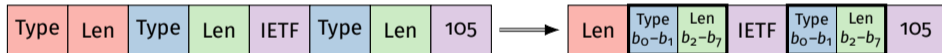
# Discussion: Stateless Name Compression for NDN and CCNx

- ▶ Current state: *GenericNameComponents* only



- ▶ Component length is limited to  $1 \leq x \leq 15$
- ▶ Requires 1 octet per 2 components

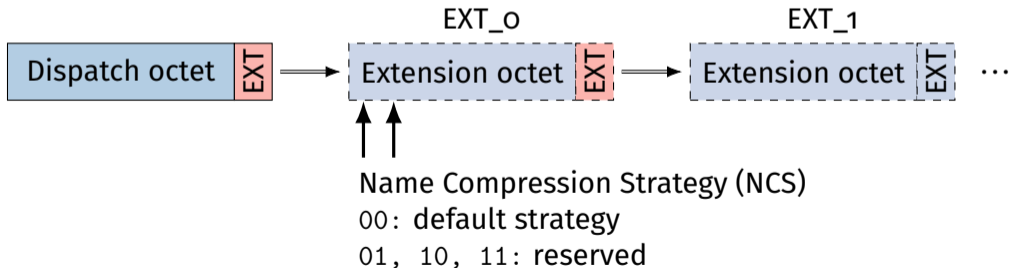
- ▶ Alternative: Frequently used component types



- ▶ Allows for 4 component types and a component length of up to 63
- ▶ Requires 1 octet per 1 component
- ▶ Comments & concerns of Junxiao Shi:
  - ▶ List of frequently used types might change in future and depends on scenario
  - ▶ Make list of types configurable by administrator and exchange via CID
  - ▶ Make number of bits for TYPE and LEN configurable by administrator

# Stateless Name Compression Extensibility

- ▶ Extension octets allow for extensibility of base dispatch
- ▶ Sophisticated compression schemes can be defined in future documents (e.g., dictionary-based)



**Ready for RG last call?**