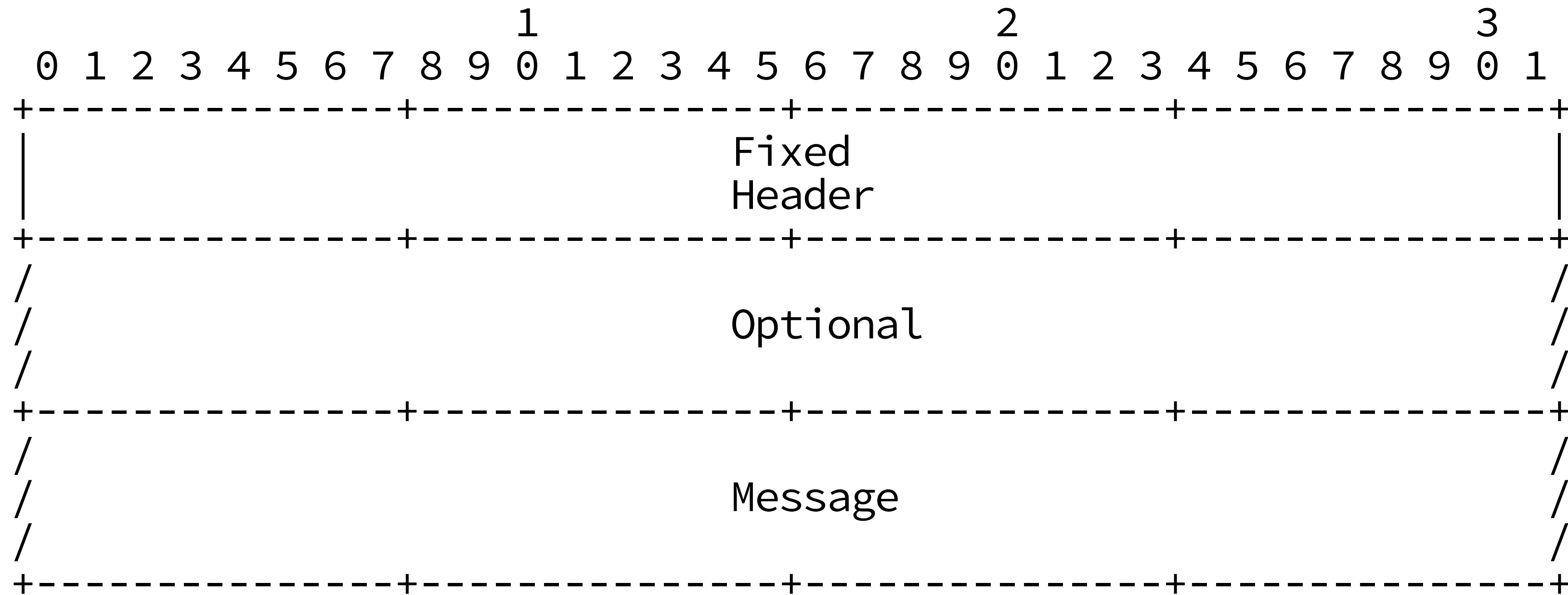


# CCN Packet Formats

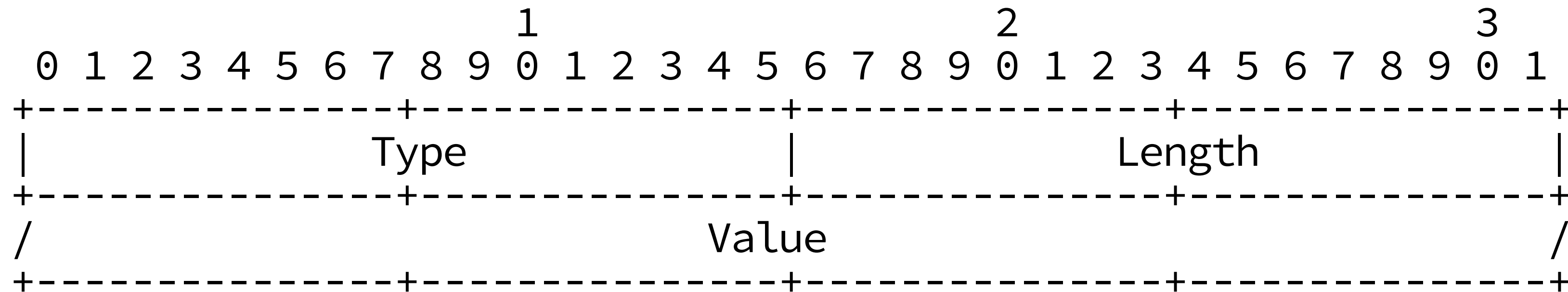
ICNRG Interim Meeting - Paris  
2014-09-27

Nacho (Ignacio) Solis  
Ignacio.Solis@parc.com  
Palo Alto Research Center

# Packet Structure



# 2+2 TLV Format



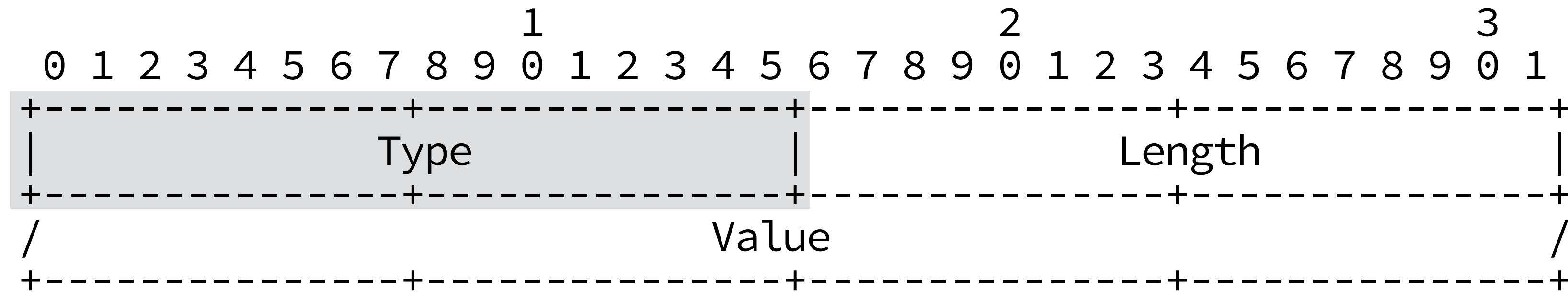
## 2-Byte Type

- Enough for expansion and experiments
- Inherently hierarchical (not many types)
- Fast to jump over (no parsing needed)
- No aliasing (0 vs 00)
- Canonical sorting

## 2-Byte Length

- Don't cover what doesn't fit in a packet
- Enough for large fields like payload
- Fast to jump over (no parsing)
- No aliasing (0 vs 00)
- Canonical sorting

# Type space



## Flat Type

Simple

No ambiguity

Coordination

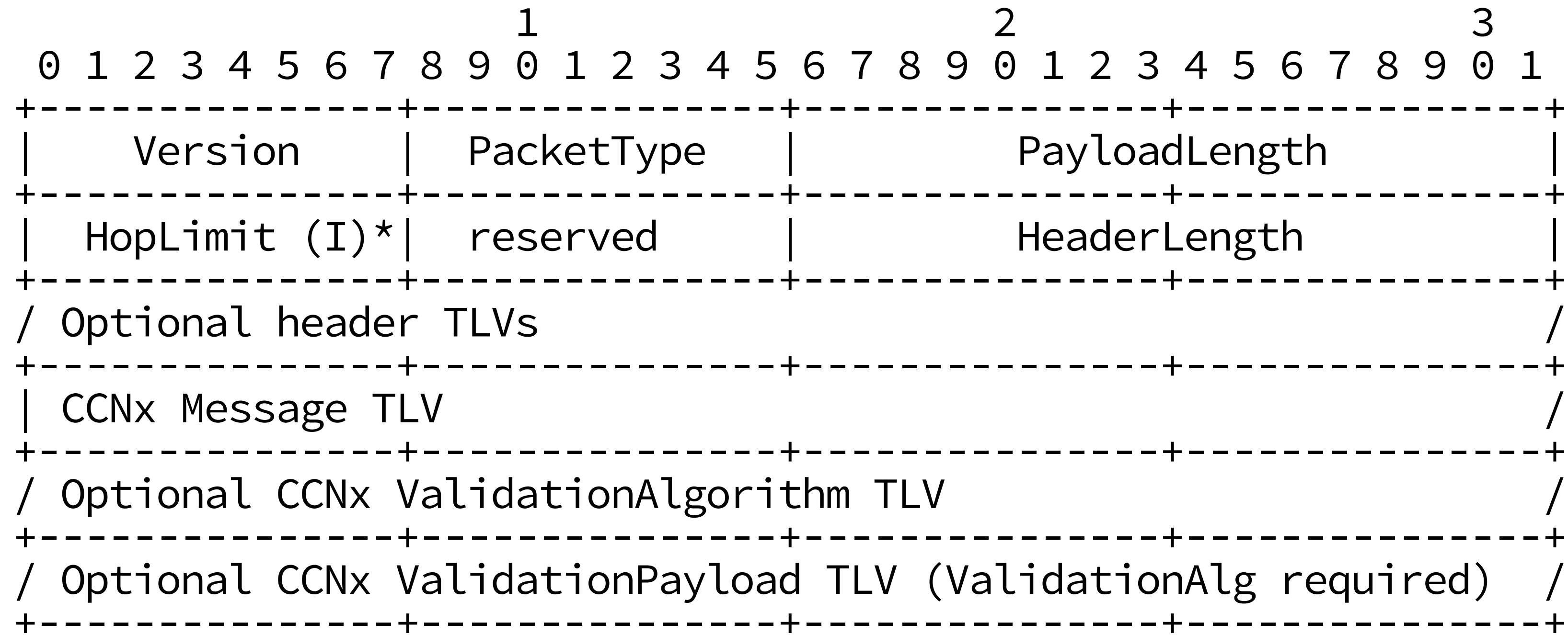
## Hierarchical

Compartmentalization

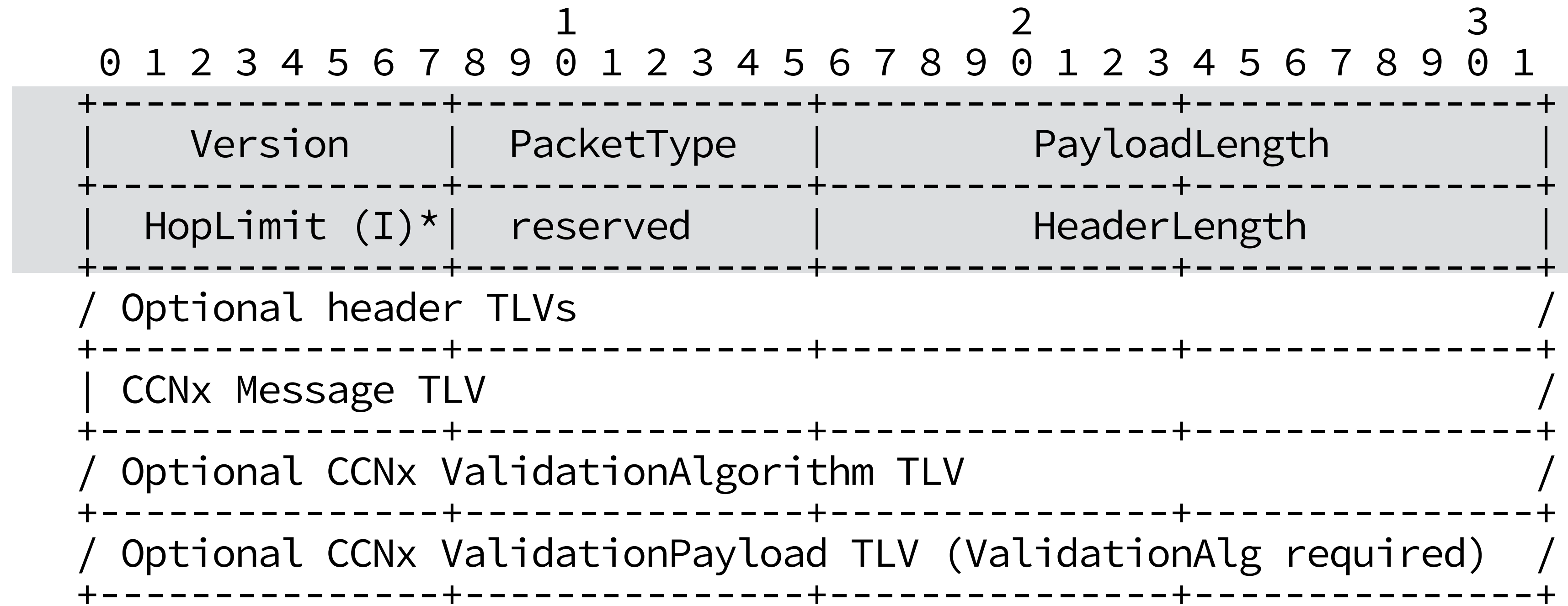
Typespace for name components

Vendor/App specific

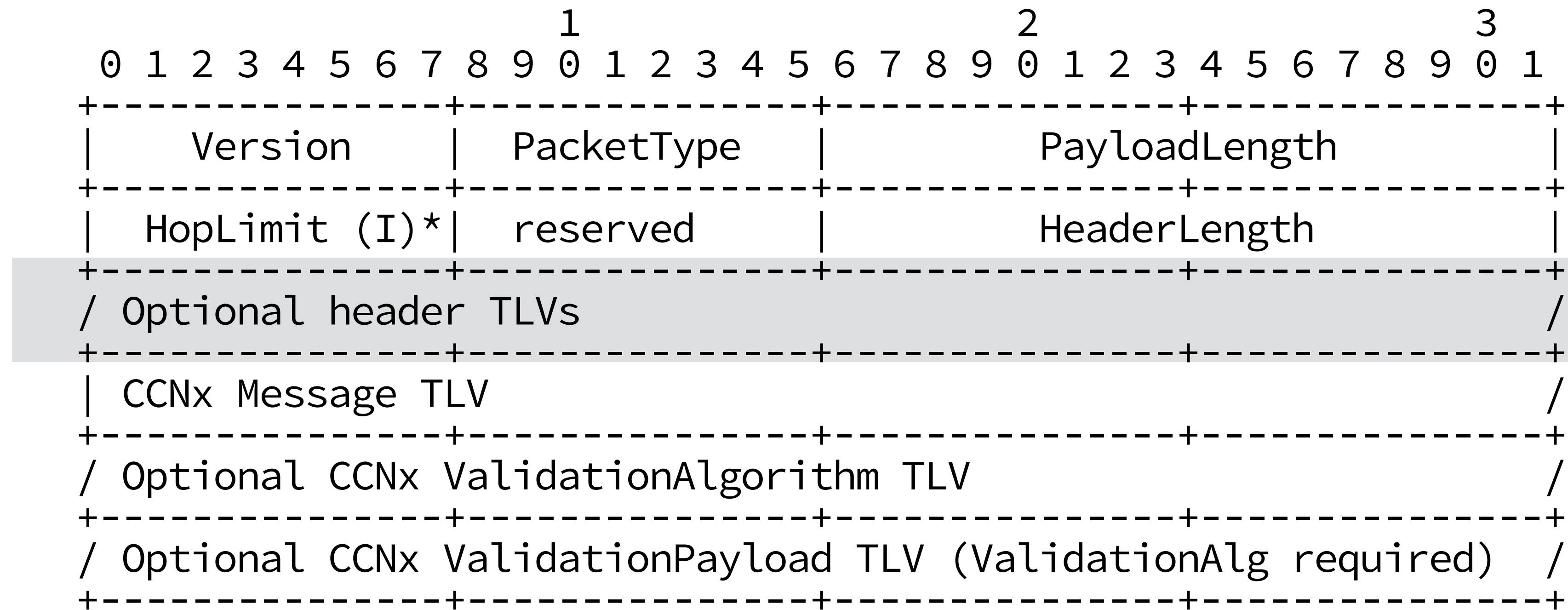
# CCN Packet



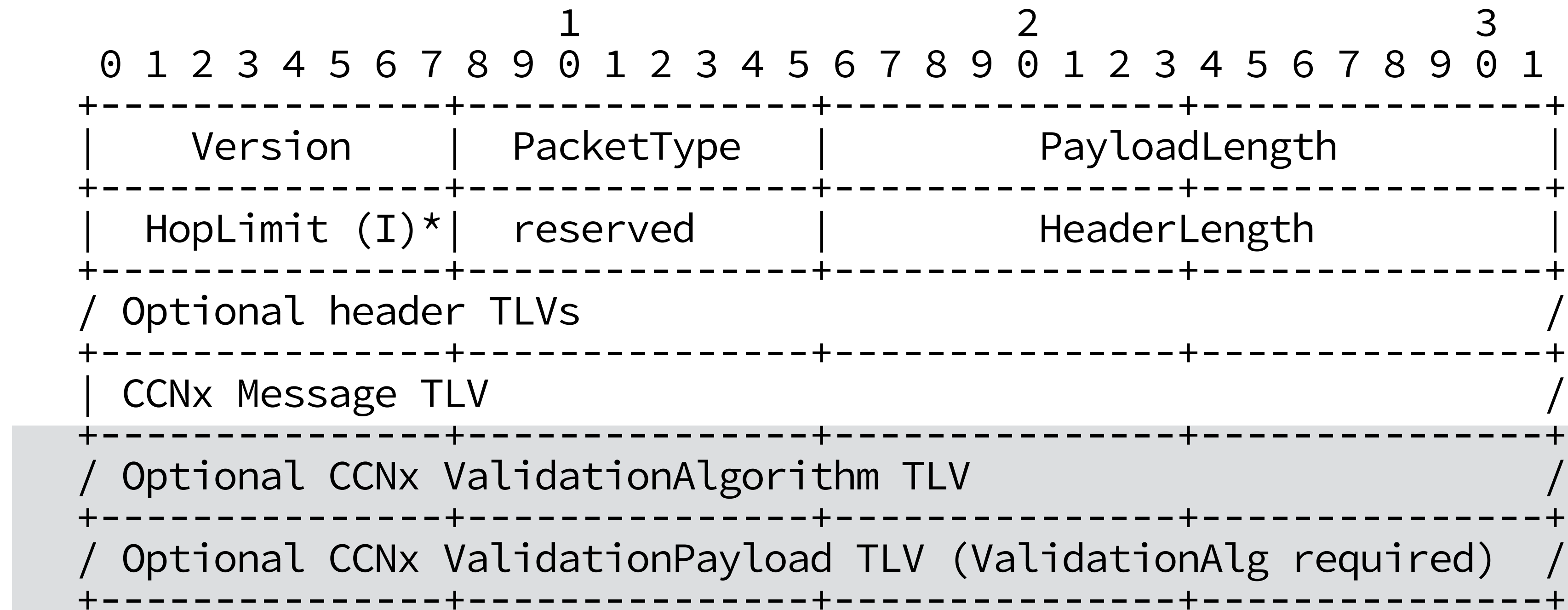
# Static Header



# Optional Headers

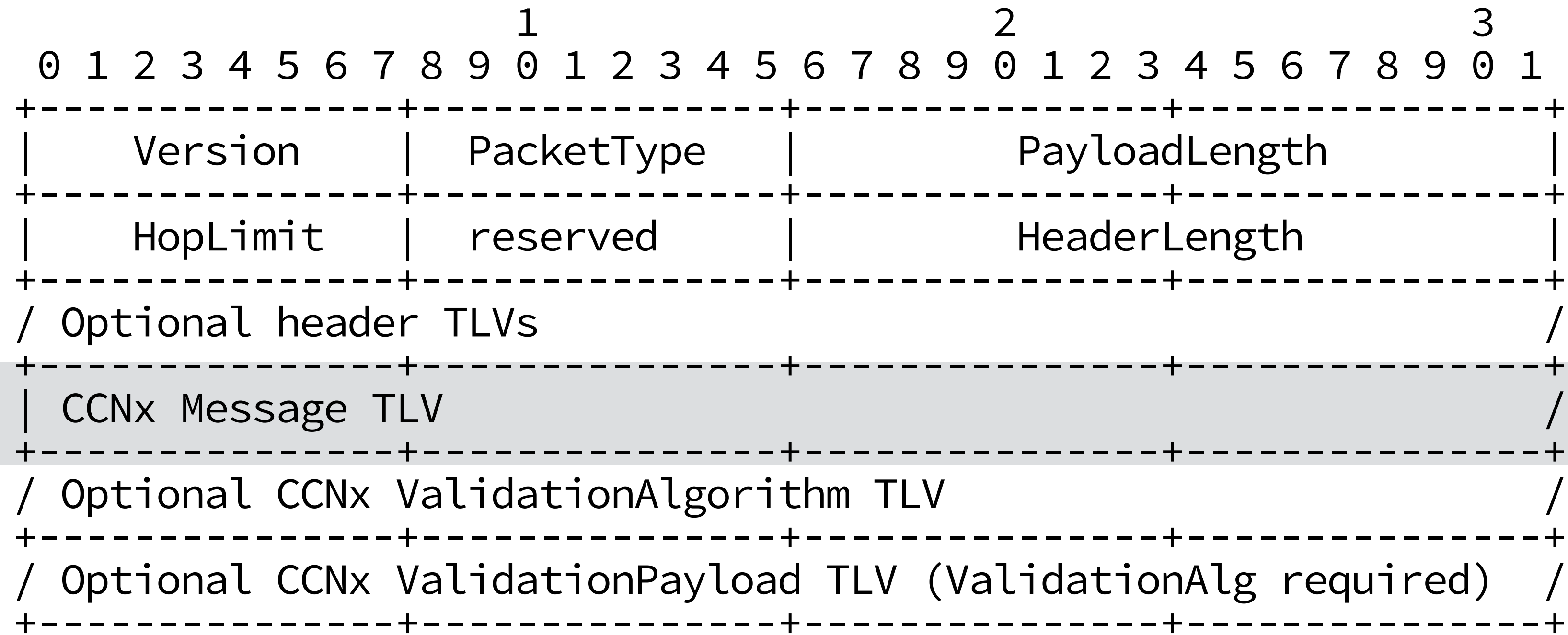


# Validation

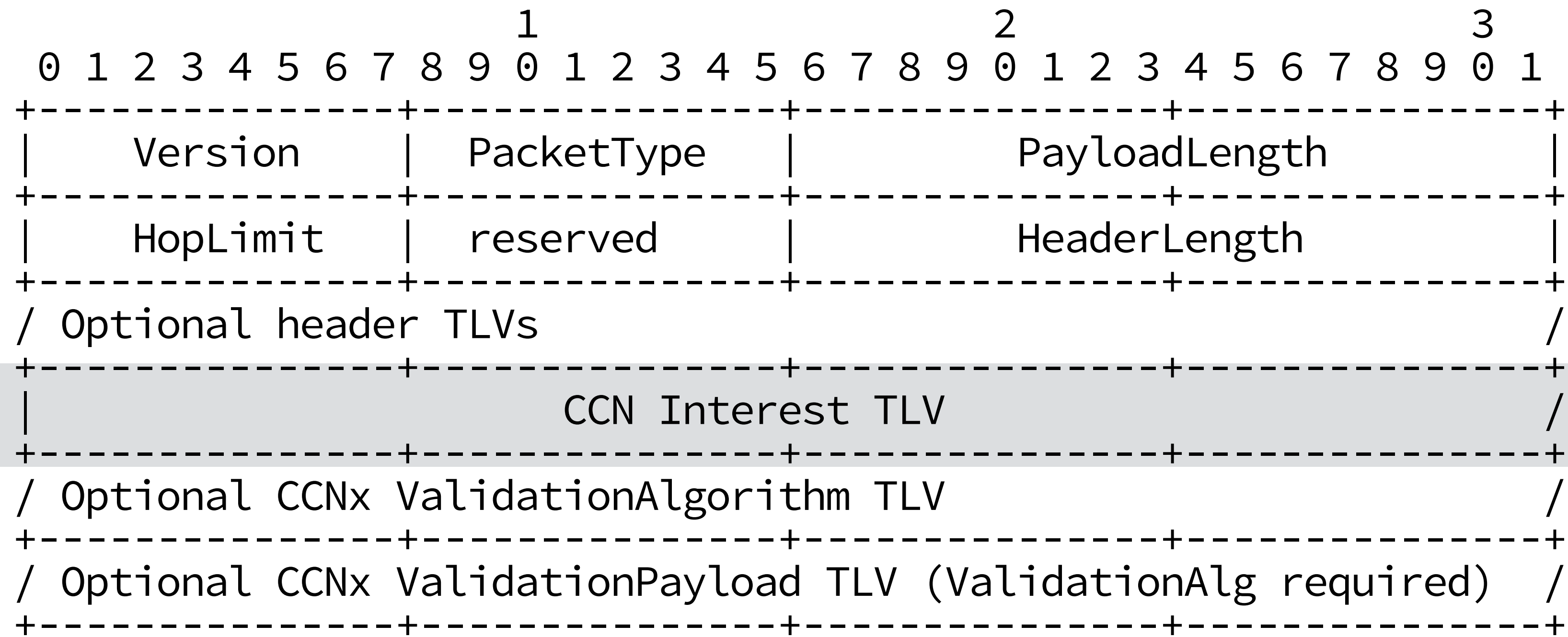




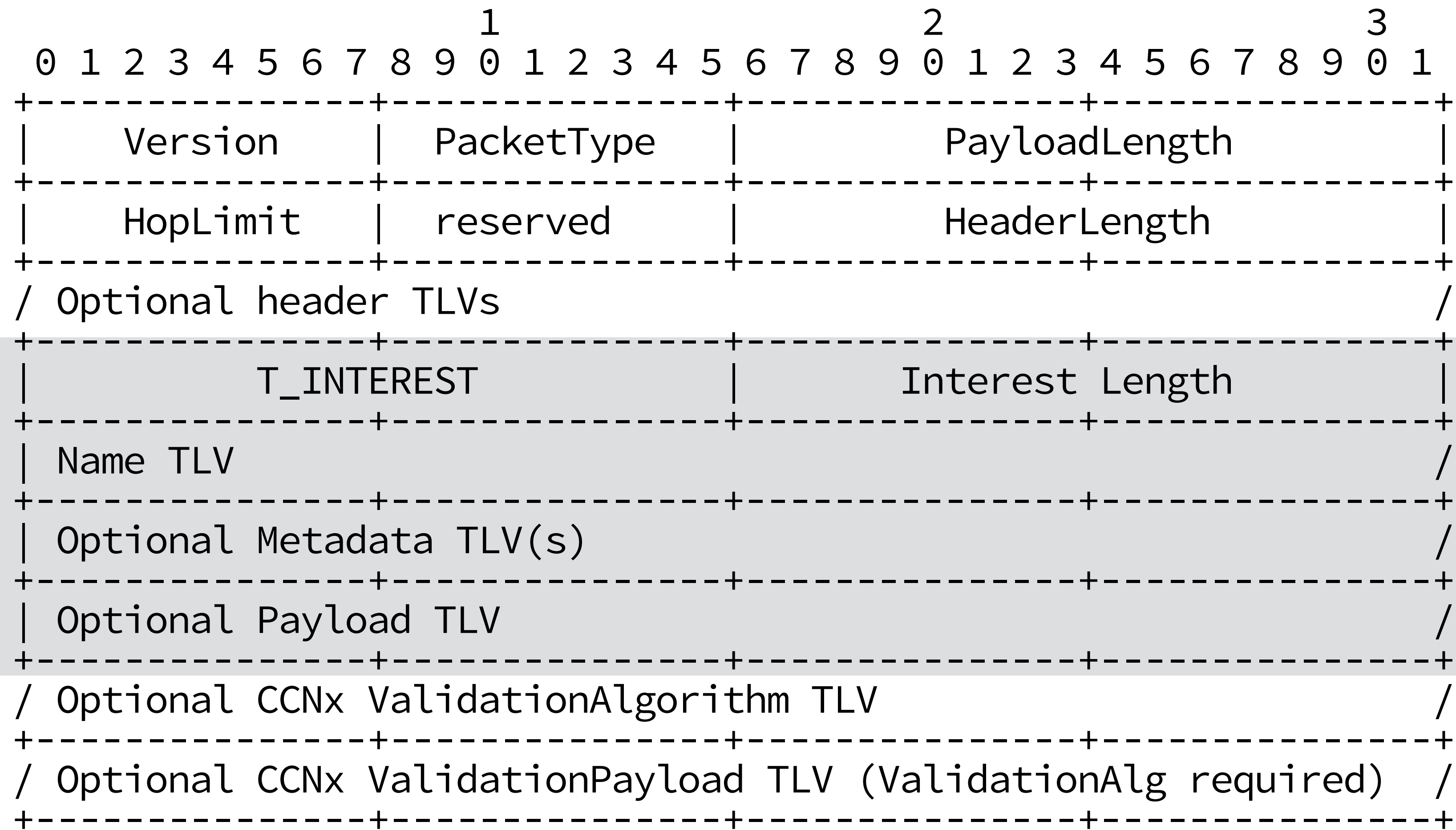
# CCN Message



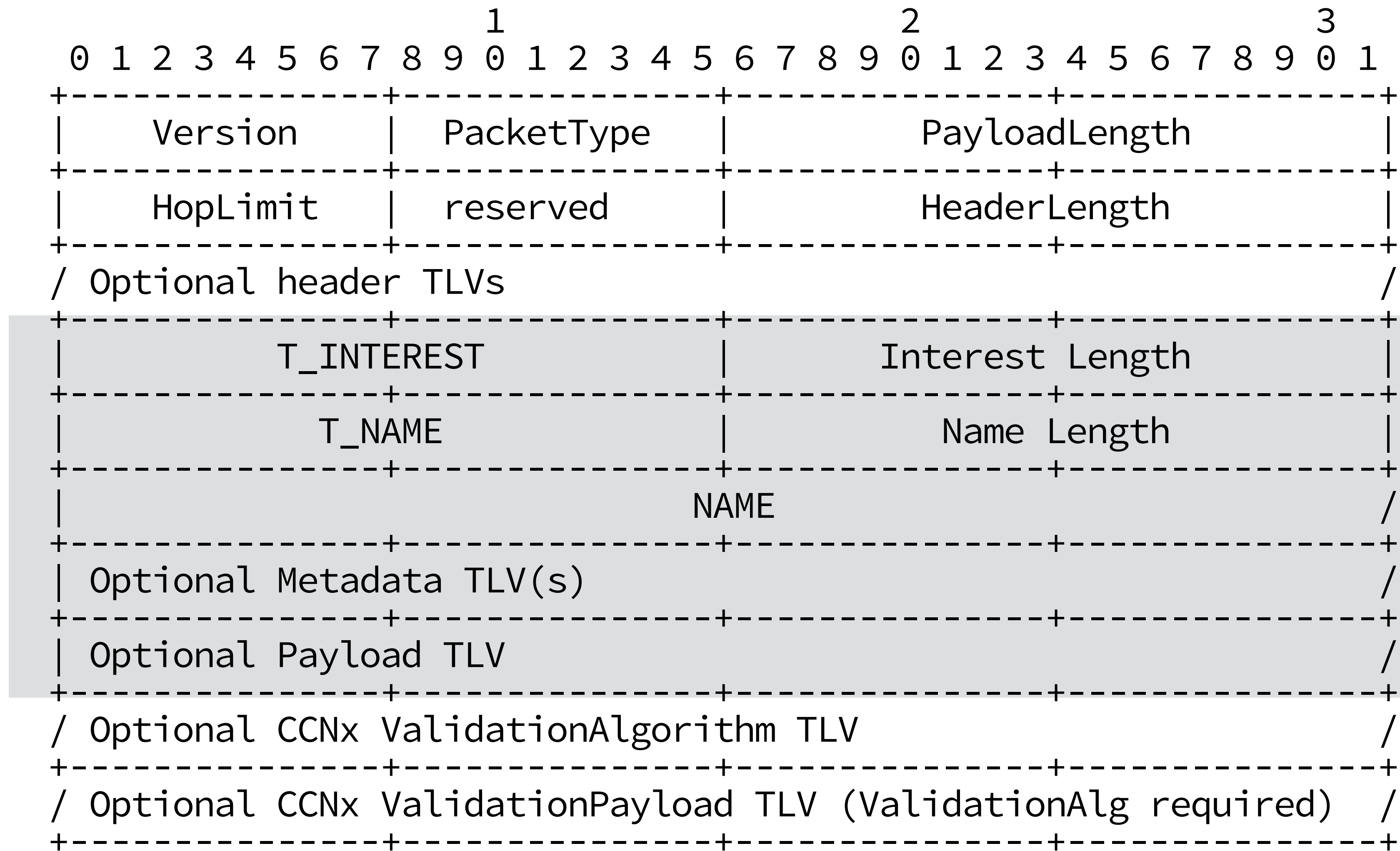
# Interests



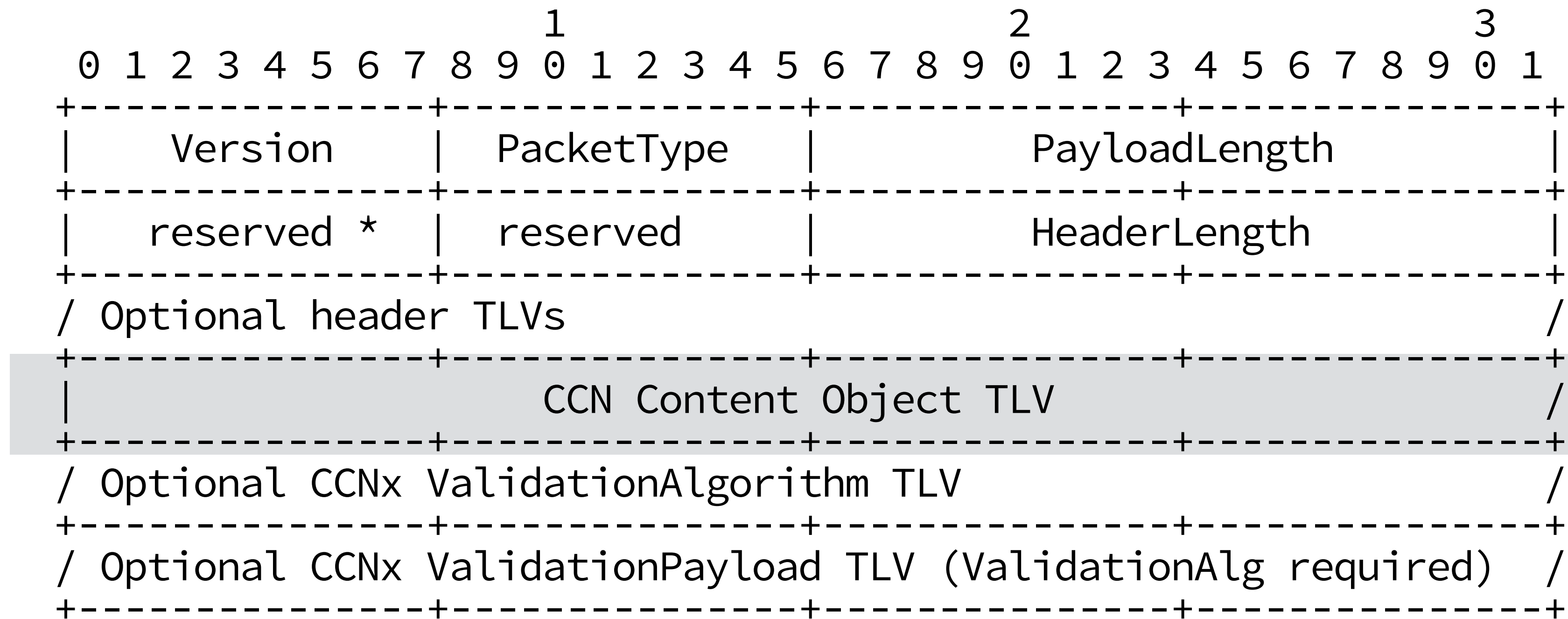
# Interests



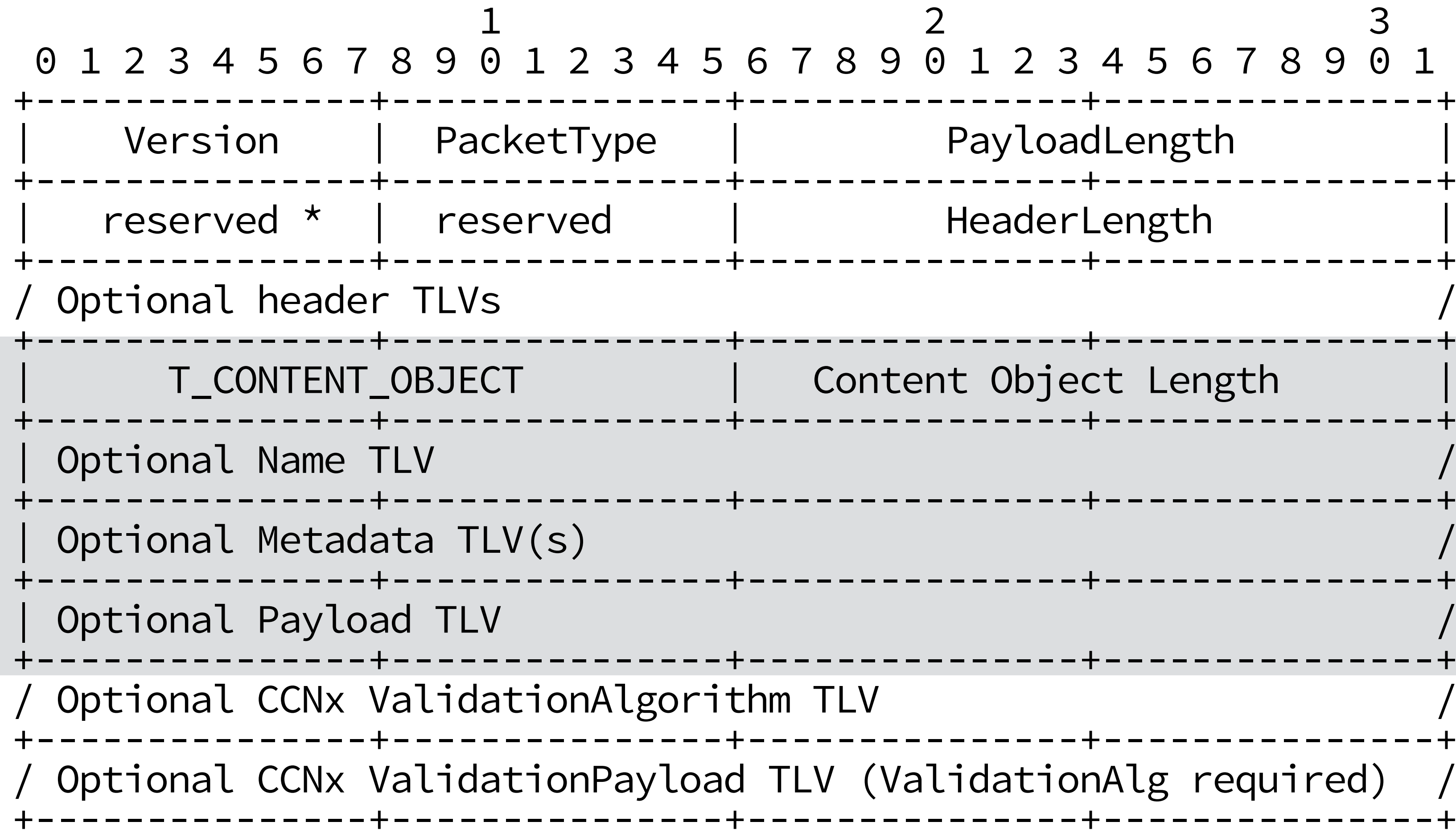
# Interests



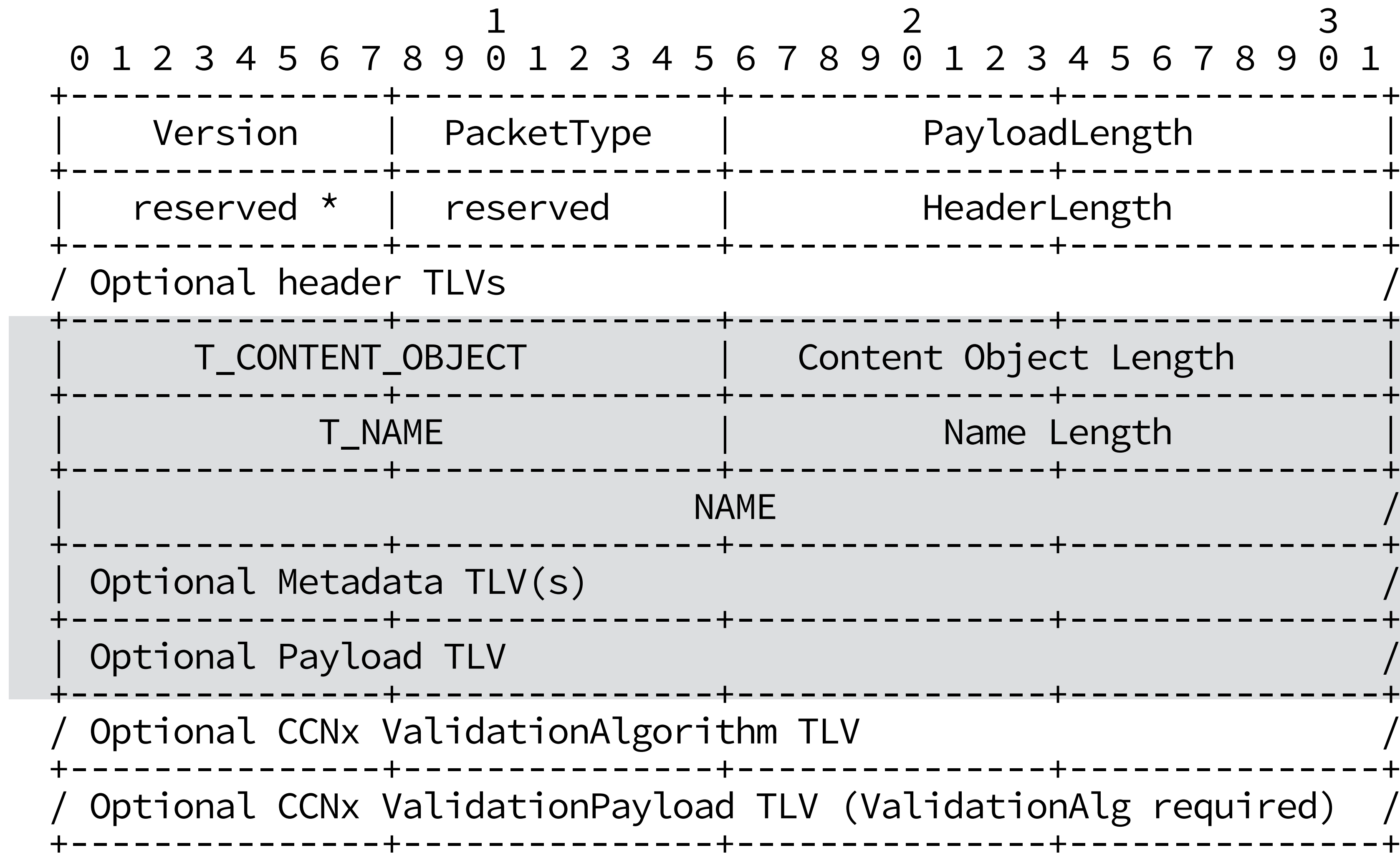
# Content Packet



# Content Objects



# Content Objects



# Agreement Topics

Static header agreement

TLV agreement

Parsing agreement

Type agreement



Nacho (Ignacio) Solis  
Ignacio.Solis@parc.com  
Palo Alto Research Center