

Unicast Hellos in Babel

RFC 6126 bis

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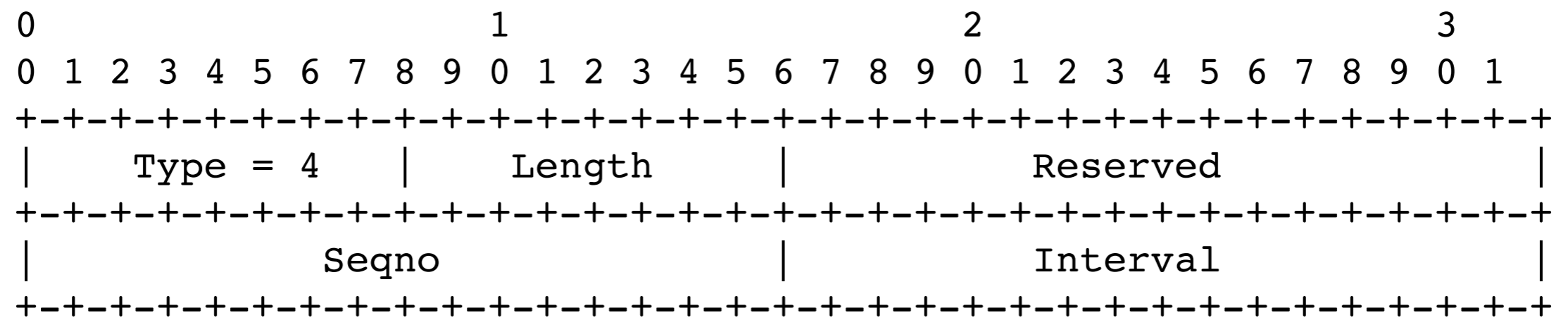
[draft-ietf-babel-rfc6126bis](#)

Motivation

- Links with bad multicast performance
- Point-to-point unicast links
- Unicast security (DTLS, IPsec)

Problem

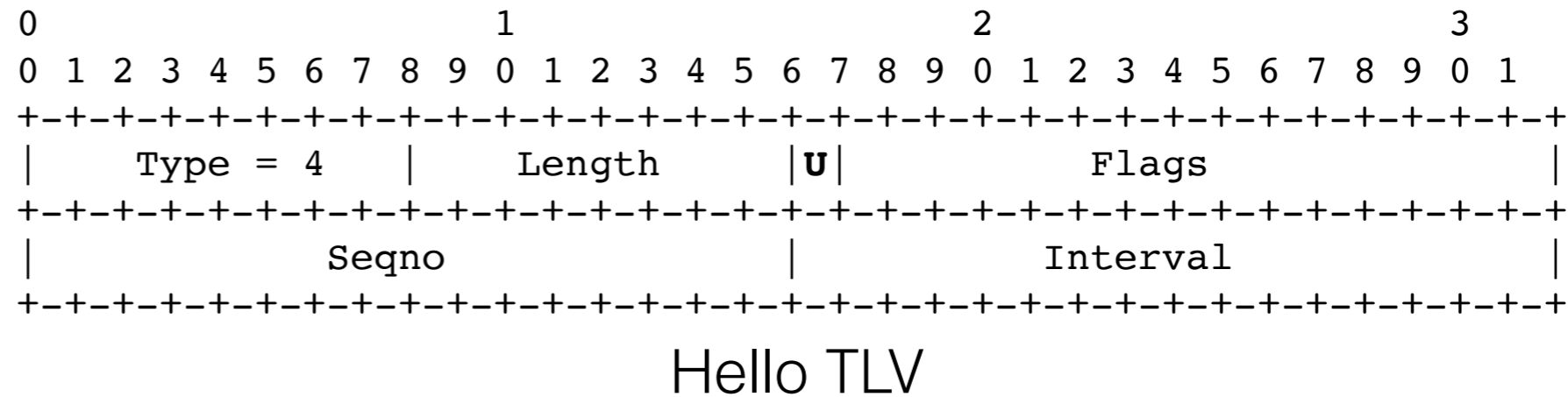
- Seqno and Interval are per interface
- Cannot send Hello to only one neighbor



Hello TLV

Solution

- Reserved → Flags
- UNICAST Flag
- Seqno & Interface
 - per-interface
 - per-neighbour



Interoperability

- Multicast hellos are backwards compatible
- What is mandated?
 - Understand UNICAST flag
- What is not mandated?
 - No need to send both

Implementation changes

- Add seqno, interval, hello history, timer to Neighbor Table
- Changes to cost computation

Unscheduled Hellos

- Interval = 0, no promise of any following Hello
- Still increment seqno
- Should not be used for neighbor acquisition
- Allows implementation to only send scheduled periodic Hellos of one type but still send other type

Questions?