# IETF-101 LONDON

# BFD PERFORMANCE MEASUREMENT

## DRAFT-AM-BFD-PERFORMANCE-00

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# Motivation

BFD assumes low-latency and low-jitter links.

BUT,

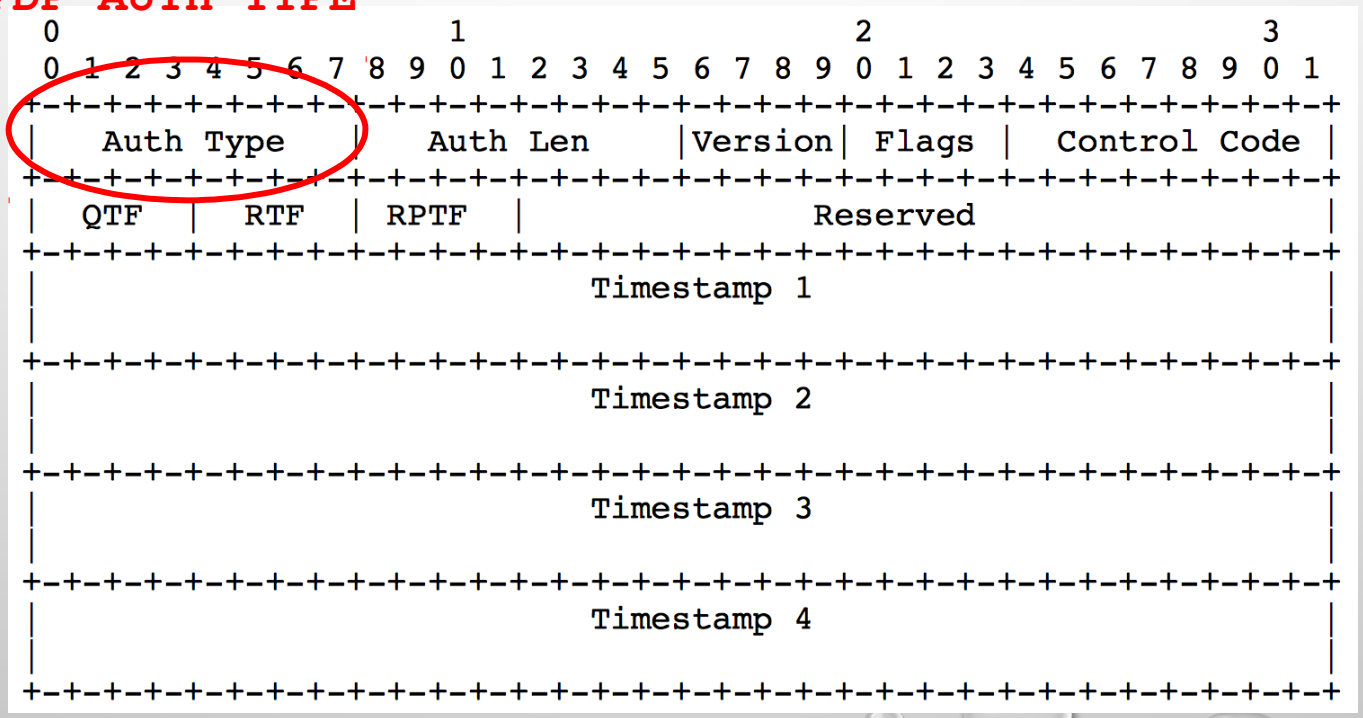
- In trans-oceanic or satellite links, the link latency and jitter can be significant.
- In NGSO satellites (O3b, SpaceX, OneWeb) and mobile platforms, the latency can vary over time.

Continuous link performance measurement allows **automation** of tuning BFD intervals to **optimize** the detection interval

# OPERATION

Leverages the delay measurement method defined in RFC 6374

**BFDP-AUTH-TYPE**



# Requesting WG adoption

Key benefits:

- Study tuning of BFD intervals based on link characteristics.
- Self-contained mechanism since measurement is within BFD without using extra frames.
- Some WAN links (satellite, specifically) are sensitive to amount of non billable traffic.

Unresolved issues:

- Overloaded BFD Auth Type. BFD v1 is not extendible.
- How the measured performance is translated to BFD interval is implementation specific
- 5880 does not define mechanisms for determining the intervals based on link characteristics.