

# IS-IS Fast Flooding

ddraft-ietf-lsr-isis-fast-flooding-03

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# Goals recaps

- Improve LSPs exchange rate between two neighbors
  - Sync LSDB faster and reliably between two neighbors
- How:
  - Get rid of fixed (old) timers/parameters
  - Adapt to neighbor's speed (slower when required)
    - Flow Control
    - Congestion Control

# Draft contribution (1)

- Signaling of Flooding Parameters ( § 4)
  - Flooding Parameters TLV in Hello or PSNP
- (Improved) Behavior on the receiver side
  - Send PSNP faster on P2P ( § 5.1)
    - Provides faster feedback loop to the sender
  - Packet Prioritization ( § 5.2)
    - IIH > SNP > LSP (> less critical protocols)

# Draft contribution (2)

- Provides two congestion control algo ( § 6)
  - A sender can unilaterally choose a different algorithm to use.
  - Extensions defined in [Section 4](#) and [Section 5](#) are generic and are designed to support different sender-side algorithms.

# Latest changes (00→02)

- IANA allocated code points (TLV 21)
- New sub-TLV to advertise the Receive Window
- [HTML diff](#)

# Latest changes (02→03)

- The DIS plays a special role in flooding
  - Consider increasing LAN priority of fast flooders
- Added a note that draft focus on Pt-Pt Links
- New section on LSP pacing
  - Inspired/copied from RFC 9002 (QUIC Congestion Control)
- Editorial: some word/sentences replaced by word/sentences from RFC 9002
- [HTML diff](#)

# Status

- Draft is stable
- Two implementations
  - Performance improvements of one implementation reported at IETF 111 interim meeting
- Ready for WG last call