

# Service Function Chaining (SFC)

IETF 104

Prague

WG Chairs:

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# Note Well

- This summary is only meant to point you in the right direction, and doesn't have all the nuances. The IETF's IPR policy is set forth in BCP 79; please read it carefully.
- **The brief summary:**
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For further information, talk to a chair, ask an Area Director, or review the following:

BCP 9 (on the Internet Standards process)

BCP 25 (on the Working Group processes)

BCP 78 (on the IETF Trust)

BCP 79 (on Intellectual Property Rights in the IETF)

# Agenda (Brief)

- Agenda Bashing
- SFC ECN
- SFC OAM
- SFC YANG
- AOB
- Closing

# Agenda (Detailed)

- Introduction (WG-chairs) - [10 minutes]
  - Agenda bashing, note-well, (WG-chairs) - [10 minutes]
- Network Service Header (NSH) Explicit Congestion Notification (ECN) Support (Donald Eastlake) - [15 minutes]
  - <https://tools.ietf.org/html/draft-ietf-sfc-nsh-ecn-support-00>
- Active OAM for Service Function Chains in Networks (Greg Mirsky) - [15 minutes]
  - <https://tools.ietf.org/html/draft-ietf-sfc-multi-layer-oam-02>
- NSH Encapsulation for In-situ OAM Data (Frank Brockners) - [15 minutes]
  - <https://tools.ietf.org/html/draft-ietf-sfc-ioam-nsh-01>

# Agenda (Detailed) Cont.

- Proof of Transit (Frank Brockners) - [15 minutes]
  - <https://tools.ietf.org/html/draft-ietf-sfc-proof-of-transit-02>
- SFC Consistency OAM (Ao Ting) - [15 minutes]
  - <https://tools.ietf.org/html/draft-ao-sfc-oam-path-consistency-05>
  - <https://tools.ietf.org/html/draft-ao-sfc-oam-return-path-specified-03>
- SFC YANG (Ao Ting) - [15 minutes]
  - <https://tools.ietf.org/html/draft-ao-sfc-yang-00>
- Closing (WG-chairs) - [5 minutes]

# WG Status

- <https://datatracker.ietf.org/doc/draft-ietf-sfc-nsh-dc-allocation/> will expire soon due to lack of WG interest – why ?
- <https://datatracker.ietf.org/doc/draft-ietf-mpls-sfc-encapsulation/> approved by IESG for publication as Informational RFC
- <https://datatracker.ietf.org/doc/draft-guichard-spring-nsh-sr/> presented in SPRING WG and likely to be adopted
- WG has a commitment to work on security improvements but so far only POT work in this space – how do we proceed?

# draft-ietf-sfc-serviceid-header-02

- Specifies a TLV to disseminate a subscriber identifier to upstream SFs
- Inherits the same security considerations from RFC7576 and RFC8300
  - Like any NSH TLV, the information is not leaked outside an administrative domain
- During the review of RFC 8459, security ADs were concerned with the **lack of integrity protection mechanism** for TLVs
  - The same concern is likely to be raised for this specification
- Should the authors investigate a **solution specific** to this I-D? e.g.,
  - Generate an EDCSA signature for a subscriber identifier
  - The subscriber identifier + Signature are conveyed in NSH
  - SFC nodes validate the signature using the public keys
- Or ???
- Your feedback is needed!