Service Function Chaining (SFC)

IETF 102
Montreal

WG Chairs:
Jim Guichard (jguichard1966@gmail.com)
Joel Halpern (jmh@joelhalpern.com)
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.

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Agenda (Brief)

• Introduction & Agenda Bashing
• In Situ OAM and Proof of Transit items
• Service Chaining over Segment Routing and MPLS
• NSH Explicit Congestion Control
• Identification of Ovlary OAM
• Name Based Service Function Forwarder
• Multi-Domain SFC and ALTO
• AOB/Closing
Agenda (Detailed, 1/3)

• Introduction (WG-chairs) - [10 minutes]
  – Agenda bashing, note-well, (WG-chairs) - [10 minutes]

• NSH Encapsulation for In-situ OAM Data (Frank Brockners) - [10 minutes]

• Proof of Transit (Frank Brockners) - [10 minutes]

• Ordered Proof of Transit Discussion (Diego Lopez) - [10 minutes]
  – [Discussion about extensions to the proof-of-transit draft]
Agenda (Detailed, 2/3)

• Segment Routing for Service Chaining (Francois Clad) - [10 minutes]

• NSH and Segment Routing Integration for Service Function Chaining (SFC) (Jim Guichard) - [10 minutes]

• MPLS Encapsulation for SFC NSH (Andrew Malis) - [10 minutes]

• Network Service Header (NSH) Explicit Congestion Notification (ECN) Support (Donald Eastlake) - [10 minutes]
Agenda (Detailed, 3/3)

• Identification of Overlay Operations, Administration, and Maintenance (OAM) (Greg Mirsky) - [10 minutes]
• Name-Based Service Function Forwarder (nSFF) component within SFC framework (Dirk Trossen) - [10 minutes]
• Multi-domain Service Function Chaining with ALTO (Qiao Xiang / Danny Alex Lachos Perez - remote) - [10 minutes]

• AOB

• Closing (WG chairs) - [5 minutes]
WG Progress Summary

• Several areas of progress since IETF 100:
  – RFC 8393 ‘Operating the Network Service Header (NSH) with Next Protocol “None”’ published.
  – Draft-ietf-sfc-proof-of-transit adopted
  – Draft-ietf-sfc-hierarchical approved by IESG for publication as an RFC

• Work needed – many
  – Draft-ietf-sfc-nsh-tlv
  – Security