

Service Function Chaining (SFC)

IETF 90
Toronto

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:**
 - By participating with the IETF, you agree to follow IETF processes.
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 - You understand that meetings might be recorded, broadcast, photographed, and publicly archived.

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)

- Introduction
- SFC Requirements Discussion
- SFC Architecture Discussion
- SFC Encapsulation
- SFC OAM Framework
- SFC Open Source
- SFC Use Cases
- Closing

Agenda (Detailed)

- Introduction (WG-chairs) – [10 minutes]
 - Agenda Bashing, Note-well, etc.
 - SFC Problem Statement Progression
- SFC requirements discussion – [20 minutes]
 - SFC requirements (Ron Parker) – [10 minutes]
 - <http://datatracker.ietf.org/doc/draft-boucadair-sfc-requirements/>
 - SFC requirements Q&A (open-mic) – [10 minutes]
- SFC architecture discussion – [20 minutes]
 - SFC architecture merge (Carlos Pignataro) – [10 minutes]
 - <http://datatracker.ietf.org/doc/draft-merged-sfc-architecture/>
 - SFC architecture Q&A (open-mic) – [10 minutes]
- SFC encapsulation – [30 minutes]
 - Network Service Headers (Paul Quinn) - [10 minutes]
 - <http://datatracker.ietf.org/doc/draft-quinn-sfc-nsh/>
 - Service Chain Header (Ron Parker) - [10 minutes]
 - <http://datatracker.ietf.org/doc/draft-zhang-sfc-sch/>
 - SFC encapsulation Q&A (open-mic) – [10 minutes]

Agenda (Detailed) Cont.

- SFC Operations, Administration and Maintenance Framework- [30 minutes]
 - SFC OAM framework (Sam Aldrin) - [10 minutes]
 - <http://datatracker.ietf.org/doc/draft-aldrin-sfc-oam-framework/>
 - SFC OAM requirements / framework (Ramki Krishnan) - [10 minutes]
 - <http://datatracker.ietf.org/doc/draft-krishnan-sfc-oam-req-framework/>
 - SFC OAM Q&A (open-mic) - [10 minutes]
- SFC Open Source – [15 minutes]
 - ODL SFC implementation (Reinaldo Penno) - [15 minutes]
 - <http://datatracker.ietf.org/doc/draft-rijsman-sfc-metadata-considerations/>
- SFC use cases – [20 minutes]
 - SFC generic use cases (Hongyu Li) – [10 minutes]
 - <http://datatracker.ietf.org/doc/draft-liu-sfc-use-cases/>
 - SFC use case Q&A (open-mic) – [10 minutes]
- Closing (WG chairs) - [5 minutes]
 - Actions & Next Steps

WG Status

- Problem statement
 - WGLC completed; revision required for several editorial updates
 - Next step: send to IESG for publication
- IPR discussion on list
 - We note there is IPR; continue to proceed as chartered
- Broadband liaison
 - Outstanding AI to provide a formal response to BBF from the SFC chairs

SFC Requirements

- **Objective:** Discuss as a WG how to progress requirements
- **Questions to answer:**
 - Is it critical to have standalone requirements?
 - What kind of requirements need to be documented?
 - Does a separate requirements document make sense?

SFC Architecture

- **Objective:** Find path to single WG document for architecture.
- **Questions to answer:**
 - What is the status of the architecture document merge?
 - What gaps need filling from other existing documents?
 - What other documents fall under the umbrella of architecture and should be merged into the single architecture document?

SFC Encapsulation

- **Objective:** Discuss WG progress of the SFC encapsulation
- **Questions to answer:**
 - What documents exist as candidates for the SFC encapsulation
 - What are the key differences between existing documents

SFC Open Source

- **Objective:** Present a working SFC implementation as a start to investigation into the control / management plane requirements that need to be addressed as part of the SFC charter and reported back to OPS.

SFC Use Cases

- **Objective:** Review use case progression.
- **Questions to answer:**
 - Are further documents needed?
 - What content is in additional documents that is missing from existing WG documents?