

# Requirements For Service Function Chaining

draft-boucadair-sfc-requirements

M. Boucadair ([mohamed.boucadair@orange.com](mailto:mohamed.boucadair@orange.com))

C. Jacquenet ([christian.jacquenet@orange.com](mailto:christian.jacquenet@orange.com))

Y. Jiang ([jiangyuanlong@huawei.com](mailto:jiangyuanlong@huawei.com))

**R. Parker ([Ron Parker@affirmednetworks.com](mailto:Ron_Parker@affirmednetworks.com))**

C. Pignataro ([cpignata@cisco.com](mailto:cpignata@cisco.com))

K. Naito ([naito.kengo@lab.ntt.co.jp](mailto:naito.kengo@lab.ntt.co.jp))

# Why this document is needed?

- The SFC Problem Statement document identifies a set of issues encountered in operational networks
- Operators are seeking for solutions to solve those issues...while not increasing the complexity of network management operations (including hidden complexity)
- An effort is therefore required to help ***identifying what are the core SFC functionalities vs. optional features***
- Have a ***reference for the design phase***

# Changes since last IETF

- Group the requirements into functional subsections
  - [3.1](#). Instantiating and Invoking Service Functions . . . . . [3](#)
  - [3.2](#). Chaining Service Functions . . . . . [4](#)
  - [3.3](#). MTU Requirements . . . . . [5](#)
  - 3.4. Independence from the Underlying Transport Infrastructure Requirements . . . . . [6](#)
  - [3.5](#). Traffic Classification Requirements . . . . . [6](#)
  - [3.6](#). Data Plane Requirements . . . . . [7](#)
  - [3.7](#). OAM Requirements . . . . . [8](#)
  - [3.8](#). Recovery and Load Balancing Requirements . . . . . [10](#)
  - 3.9. Compatibility with Legacy Service Functions Requirements 11
  - [3.10](#). QoS Requirements . . . . . [11](#)
  - [3.11](#). Security Requirements . . . . . [11](#)
- Introduce some new requirements (e.g., statistics and counters)
- Several other edits

# Next Step

- Authors request adoption as a WG item
- Questions?