Service Function Chaining (SFC) Control Plane Components & Requirements
draft-ietf-sfc-control-plane-08

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Outline

- What's in?
- What's out?
- Adopted Rationale
- Major Milestones
- What's Next?

What's in?

- "Control Plane Mechanisms: A document will be developed **to describe requirements for conveying information between control or management elements and SFC implementation points**. All protocol extension work resulting from these requirements should be carried out in the working group responsible for the protocol being modified in coordination with this working group, but may be done in this working group under a revised charter after agreement with all the relevant WG chairs and responsible ADs." *(SFC WG Charter)*

What's Out?

- Does not specify a new protocol, a protocol extension, a protocol profile

- Does not include criteria to select among candidate solutions

- Does not specify any flow exchange to illustrate the comprehensive SFC operation
  - Instead, it focuses on the required information to be conveyed via each control interface
  - Note that sketching a comprehensive flow exchange is also a function of deployment considerations that are out of scope.

Adopted Rationale

- Clarify what is meant by « SFC implementation points »

- Define an SFC Control Architecture
  - Identify a set of control interfaces to interact with SFC-aware elements to establish, maintain or recover SFCs
  - Provide generic recommendations such as SFC Control Plane Bootstrapping, liveness detection, etc.
  - Both distributed and centralized approaches are in scope

Major Milestones

- **Avril/May 2016: WGLC passed**
  - -05 & -06 versions to integrate WGLC comments
- June 8th, 2016: Sent to the IESG
- August 23rd, 2016: Receive the AD review
- August 25th, 2016: Submit -07 to integrate some of the comments received from Alia
- November 2016: ??

AD's Review

- Changes to address the comments from Alia:
  - Clarify why no flow exchanges are included in the draft
  - Add new text about SFC dynamics + update the text about the timeless of SFC control (whenever appropriate)
  - Add an introduction text to the reference architecture
  - Add some text to precise that metadata/encapsulation supported by underlying SFC data elements is also part of the information that can be gathered
  - Precise that a validity timer may be associated with SFC forwarding entries
  - Cite an example to migrate an SFP (make-before-break) + precise this is deployment-specific
  - Add new text to indicate that the load information can be communicated to a head-end
  - ..and other edits

- **Alia, are you happy with the changes and the clarification provided in the mailing list?**

Dave's Comment

- "I'd like to see a data model for the information conveyed on each interface"
  - Editor: This can be defined in a companion data model document (e.g., YANG module for SFC Control). Extracting those pieces of data from the CP requirement I-D is straightforward.
  - ***Opinions?***

Lucy's Comment

- Add some text about the semantic of MD#1 mandatory context field

- Resolution
  - The text about semantics is already covered in -06/07 for all MD types.
  - A clarification was added in -08 to precise those considerations valid for MD#1.

What's Next?

- The floor is yours!