Applicability of ACTN to Network Slicing
draft-king-teas-applicability-actn-slicing-10

Authors

D. King - daniel@olddog.co.uk

J. Drake - jdrake@juniper.net

H. Zheng - zhenghaomian@huawei.com

A.   Farrel - adrian@olddog.co.uk

Contributors

Y. Lee - younglee.tx@gmail.com

M. Boucadair - mohamed.boucadair@orange.com

S. Belotti - sergio.belotti@nokia.com

D. Ceccarelli - daniele.ceccarelli@ericsson.com

Motivation

- This document outlines the applicability of ACTN to network slicing in a Traffic Engineering (TE) network that utilizes IETF technology.
  - It also identifies the features of network slicing not currently within the scope of ACTN and indicates where ACTN might be extended.
  - It provides the requirements for network slicing in the context of ACTN as per
    - draft-ietf-teas-ietf-network-slice-framework

- Demonstrates the applicability of the ACTN Framework (rfc8453) for network slicing and topology abstraction methods, hierarchical topologies, and virtual network layers.
  - Management Components for ACTN and Network Slicing
  - ACTN Virtual Network for Network Slice Aggregation
  - Access Points and Virtual Network Access Points
  - Dual-Homing Scenario

- Includes discussion on ACTN Network Slicing Manageability and Security
  - Policy aspects
  - Securing CNC-MDSC Interface (CMI)
  - Securing MDSC-PNC Interface (MPI)

- Appendix includes an example of the MDSC and PNC functions integrated in a Service/Network Orchestrator

What next for the I-D?

- ACTN is a TEAS technology, and TEAS is now working on network slicing.
  - There has been some interest in how to achieve network slicing using TEAS, and the authors felt the I-D would be useful
  - Initially published in June 2017
  - Good mix of ACTN stakeholders, operators and vendors
  - draft-ietf-teas-ietf-network-slice-framework has a section on ACTN applicability, and draft-ietf-teas-ietf-network-slice-definition references ACTN for terminology.

- The merged slicing framework (draft-ietf-teas-ietf-network-slices) has a section on realizing network slices and references this applicability draft to save several pages of text.

- Currently on version 10 of the document
  - Latest versions of the I-D have been synched with draft-ietf-teas-ietf-network-slice-framework and draft-ietf-teas-enhanced-vpn

- What to do with the document?
  - Option 1: Drop the document and move the useful contents into another I-D, if so which one?
  - Option 2: Adopt to TEAS WG and have the WG help develop and publish the I-D.
  - Option 3: Do nothing.