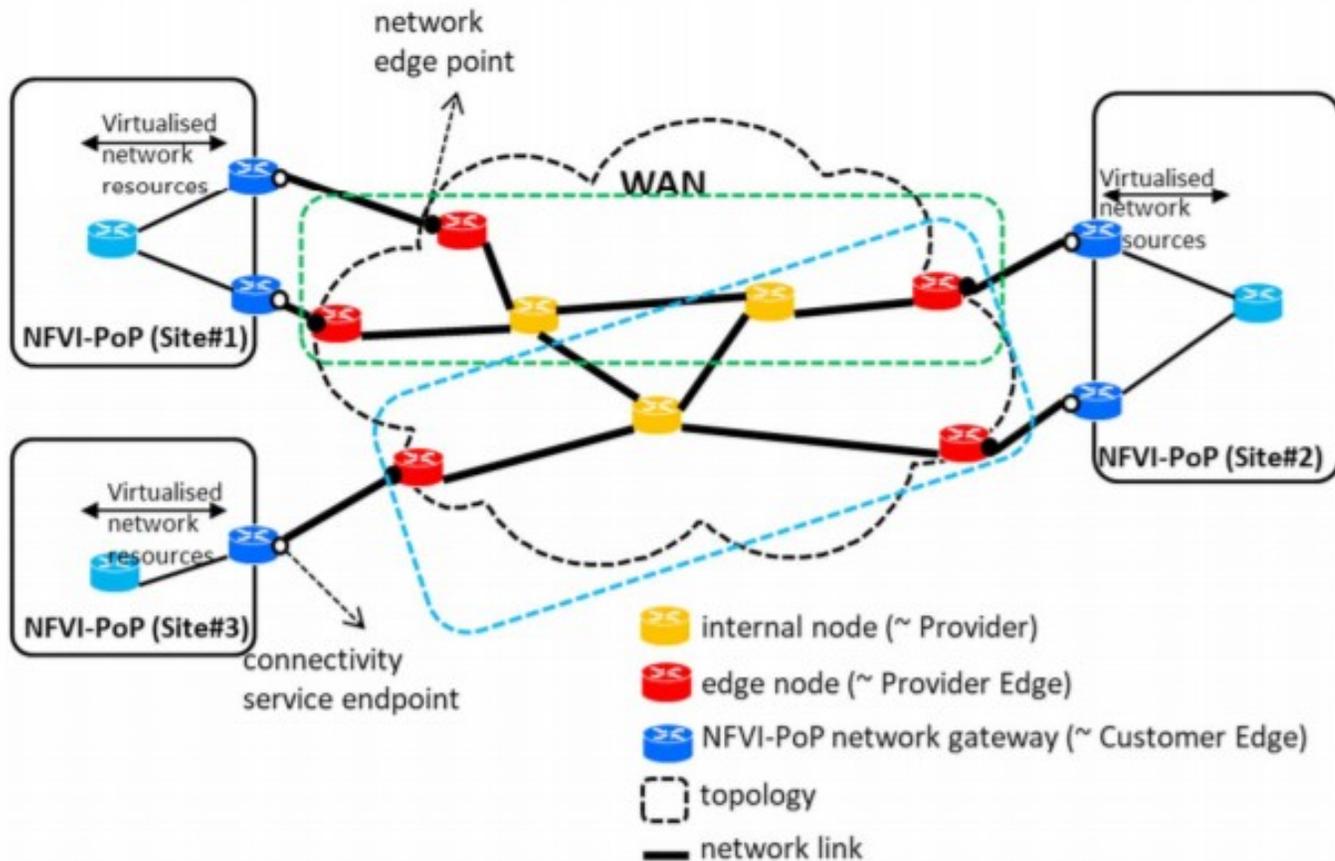


ETSI NFV LIAISON ON MULTI-SITE CONNECTIVITY SERVICES

27.09.2019

To: TEAS & CCAMP

MULTI SITE CONNECTIVITY NETWORK FRAMEWORK AND CONCEPTS



ETSI GS NFV-IFA 032 V3.3.1 (2019-09)

Network Functions Virtualization (NFV) Release 3; Management and Orchestration; Interface and Information Model Specification for Multi-Site Connectivity Services

GS NFV-IFA 032 specifies the interfaces for management of multi-site connectivity services, produced by a WAN Infrastructure Manager (WIM). The specification also describes the operations and the information elements that are exchanged over these interfaces.

DGR/NFV-SOL017 "PROTOCOLS AND DATA MODELS"

ETSI ISG NFV would like to notify to the IETF TEAS WG about the start of the work in the ETSI NFV SOL working group of analysing protocol and data model solutions aiming at fulfilling the requirements and information model about "multi-site connectivity services" specified in the published ETSI GS NFV-IFA 032

In the work item, a number of existing (or in progress) protocol and data model solutions are being considered. The expectation is that the IETF Abstraction and Control of TE Networks (ACTN) will also be analysed. In our understanding, the scope of functionality of the interfaces exposed by the WIM in the GS NFV-IFA 032 can potentially map to the functionality offered by the ACTN framework.

Currently, the DGR/NFV-SOL017 is in an "early draft" status. Ongoing drafts of the DGR/NFV-SOL017 are available in the "NFV Open Area" accessible via <https://docbox.etsi.org/ISG/NFV/Open/Drafts>.

WIM INTERFACE BASICS

- MSCS Management interface
 - create/query/update/terminate
 - subscribe/notify/query sub/terminate sub
 - Create/query/update/terminate reservation
 - Capacity Management interface
 - Capacity query, create/query/delete threshold
 - Topology/Node/link/Edge information Query
 - Fault Management interface
 - Subscribe/Notify/Query Sub/Terminate Sub/Get alarm list/Ack alarms
 - Performance Management interface
 - PMJob create/delete/query
 - Threshold create/query/delete
 - Subscribe/notify/terminate sub/query sub
- 

MAPPING NFV WIM WITH ACTN

NFVO SouthBound Interface

Transport network architecture mapping ACTN:

- Network controller = PNC
- WIM = MDSC
- NFVO = CNC

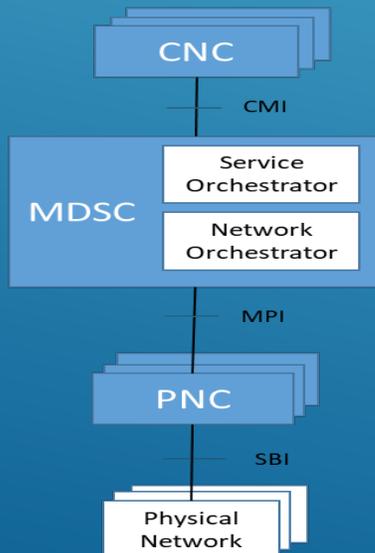


Table A.2.2.1-1: Terminology mapping between the present document specification and IETF ACTN

ETSI GS NFV-IFA 032 (the present document)	IETF ACTN
Network edge link (LinkInfo with isNetworkEdgeLink=true)	Access link
NFVI-PoP network gateway (see note 1)	Customer Node
Network link	Link
Network node	Node
Network node (where NodeInfo has one or more networkEdgePointId)	Operator Node
Network Edge Point	Operator Node port
Network Topology	TE Topology
MSNC	TE Tunnel
Connectivity Service Endpoint (see note 2)	Access Point or VN Endpoint (from IETF RFC 8454 [Error! Reference source not found.])
MSCS	Virtual Network (VN)
MSCS Endpoint	VN Access Point (VNAP)
NOTE 1: Not specified explicitly in the present document, but it maps to the NFVI-PoP network gateway or CE router (see clause 4.3).	
NOTE 2: The ACTN's Access Point is a logical identifier that identifies an access link in between the customer and operator nodes and it is used for the setup of the VN. Similarly, the Connectivity Service Endpoint fulfils the same role, but in addition, the Connectivity Service Endpoint also identifies the endpoint from the customer node's perspective.	

NEXT STEPS AND ACTIONS REQUIRED

In order to determine the feasibility to analyse the IETF ACTN and the schedule of completion of the DGR/NFV-SOL017, the ETSI ISG NFV would welcome receiving more information about the:

- The relevant RFC and Internet Drafts for IETF ACTN.
- The status (completed, ongoing) of the specifications, and if ongoing, the expected dates of completion and/or stable draft.

AND:

- In the eventuality in which the ETSI NFV ISG identifies additional requirements that are not currently addressed in the ACTN framework and models, can you please provide us the information on the possible options to inject these requirements in the current ACTN drafts work.

Date of next ETSI meetings:

02-06 Dec 2019 – NFV#28

17-21 Feb 2020 – NFV#29