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GROUP SPECIFICATION

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

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ETSI

650 Route des Lucioles
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

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1 Scope

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

2 References

2.1 Normative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

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[2] ETSI GS NFV-SEC 012 (V3.1.1): "Network Functions Virtualisation (NFV) Release 3; Security; System architecture specification for execution of sensitive NFV components".

[3] Recommendation ITU-T X.733: "Information technology - Open Systems Interconnection - Systems Management: Alarm reporting function".

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[i.1] ETSI GS NFV 003: "Network Functions Virtualisation (NFV); Terminology for Main Concepts in NFV".

[i.2] ETSI GS NFV-MAN 001: "Network Functions Virtualisation (NFV); Management and Orchestration".

[i.3] ETSI GR NFV-IFA 022: "Network Functions Virtualisation (NFV) Release 3; Management and Orchestration; Report on Management and Connectivity for Multi-Site Services".

[i.4] IETF RFC 8453: "Framework for Abstraction and Control of TE Networks (ACTN)".

NOTE: Available at https://tools.ietf.org/html/rfc8453.

[i.5] IETF RFC 8454: "Information Model for Abstraction and Control of TE Networks (ACTN)".

NOTE: Available at https://tools.ietf.org/html/rfc8454.

[i.6] ETSI GS NFV-SEC 006 (V1.1.1): "Network Functions Virtualisation (NFV); Security Guide; Report on Security Aspects and Regulatory Concerns".

[i.7] ETSI GS NFV-SEC 014 (V3.1.1): "Network Functions Virtualisation (NFV) Release 3; NFV Security; Security Specification for MANO Components and Reference Points".

[i.8] ETSI GS NFV-IFA 031 (V3.2.1): "Network Functions Virtualisation (NFV) Release 3; Management and Orchestration; Requirements and interfaces specification for management of NFV-MANO".

[i.9] ETSI GS NFV-IFA 005 (V3.2.1): "Network Functions Virtualisation (NFV) Release 3; Management and Orchestration; Or-Vi reference point - Interface and Information Model Specification".

[i.10] ISO/IEC 9646-7: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".

3 Definition of terms, symbols and abbreviations

3.1 Terms

For the purposes of the present document, the terms given in ETSI GS NFV 003 [i.1] and the following apply:

NOTE: A term defined in the present document takes precedence over the definition of the same term, if any, in ETSI GS NFV 003 [i.1].

Multi-site Connectivity Service (MSCS): connectivity service abstracting the details of information regarding the connections between two or more NFVI-PoP (site) network endpoints

Multi-site Network Connection (MSNC): provisioned multi-site network connectivity enabling the data forwarding between two or more network edge points

NOTE: In the present document, the network edge points represent the ingress/egress ports of the network(s) in between the NFVI-PoPs (sites).

Multi-Site Network Service (MSNS): network service whose constituent Network Functions/Network Services are deployed in more than one site

site: NFVI Point of Presence (NFVI-PoP), as defined in ETSI GS NFV 003 [i.1].

3.2 Symbols

Void.

3.3 Abbreviations

For the purposes of the present document, the abbreviations given in ETSI GS NFV 003 [i.1] and the following apply:

NOTE: An abbreviation defined in the present document takes precedence over the definition of the same abbreviation, if any, in ETSI GS NFV 003 [i.1].

Mscs	Multi-site connectivity service
MSNC	Multi-site Network Connection

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