

Statement of Compliance towards ETSI GS NFV-MAN 001

Ericsson Service-Aware Policy Controller

STATEMENT OF COMPLIANCE

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1 Introduction

This document describes to what extent the SAPC implementation of Network Functions Virtualisation (NFV) role conforms with the ETSI GS NFV-MAN 001 V1.1.1 (2014-12) standard with the exemptions or additions stated in this document.

2 General Considerations

This document is structured following the chapters of the ETSI GS NFV-MAN 001 V1.1.1 (2014-12) standard.

Please note that the compliance statements for the specifications referenced in the Group Specification (GS) are not in the scope of this SoC.

The following terms explain the columns in the fill-in tables in the document:

Qualifier	Defines whether the implementation of a certain entity is Mandatory (M), Optional (Op) or Conditional (C).
Compliance	Defines whether the implementation of a certain entity is Compliant by the system.
Comment	It may contain additional information.
No requirement (NR)	The GS statement contains general information for the understanding of other statements not applicable to the SAPC (the statements may be applicable for other nodes).

One of the following statements (with the associated interpretation) is given to each of the requirements of the Group Specification:

Not compliant (NC) The GS statement is not fulfilled.

Compliant (C) All of the GS statements are fulfilled.

Partially compliant (PC) Not completely all of the GS statements are fulfilled, the exceptions are described.

In this context, 'is/shall/will' statements are considered as mandatory, 'may' statements are considered as optional, and 'can' statements are considered as conditional.

3 Scope, References and Abbreviations

3.1 Scope

No requirement

3.2 References

No requirement

3.3 Definitions and Abbreviations

3.3.1 Definitions

No requirement

3.3.2 Abbreviations

No requirement

4 NFV Management and Orchestration: objectives and concepts

4.1 Overview

No requirement

4.2 Management and Orchestration aspects of Network Functions Virtualisation Infrastructure

No requirement



- 4.3 Management and Orchestration aspects of Virtualised Network Functions
No requirement
- 4.4 Management and Orchestration aspects of Network Services
No requirement
- 4.5 Other management and orchestration aspects of NFV framework
No requirement
- 4.6 Relation of NFV management and orchestration with existing operations and management systems
No requirement
- 4.7 Administrative Domains
No requirement
- 5 Management and Orchestration architectural framework
 - 5.1 Overview
No requirement
 - 5.2 Principles of NFV-MANO
No requirement

- 5.3 NFV-MANO architectural framework overview
No requirement
- 5.4 NFV-MANO architectural framework functional blocks
No requirement
- 5.5 Other functional blocks
No requirement
- 5.6 Network Controllers
No requirement
- 5.7 NFV-MANO reference points
No requirement
- 5.8 Interfaces description approach
No requirement
- 6 NFV management and orchestration information elements
 - 6.1 Introduction
No requirement
 - 6.2 Network Service information elements
No requirement



6.3 Virtualised Network Function information elements

No requirement

6.3.1 VNF Descriptor (vnfd)

Not compliant

The SAPC VNF descriptor provided is not aligned to the information elements that are described in this section of the document. Currently, the SAPC provides a descriptor used by the Ericsson Cloud Manager.

TOSCA for NFV is aligned to the descriptor shown in this document. The SAPC is planning to provide a descriptor based on TOSCA for NFV.

6.3.2 VNF Record (vnfr)

No requirement

6.4 Virtual Link information elements

No requirement

6.5 Virtualised Network Function Forwarding Graph information elements

No requirement

6.6 Physical Network Function information elements

No requirement

6.7 VNF Instantiation input parameter

No requirement

6.8 Network Service Instantiation Input Parameters

No requirement

7 NFV-MANO interfaces

No requirement

7.1 Interfaces concerning Network Services

No requirement

7.2 Interfaces concerning Virtualised Network Functions

No requirement

7.3 Interfaces concerning virtualised resources

No requirement

7.4 Policy administration interface

No requirement

7.5 Network Forwarding Path management interface

No requirement

7.6 NFVI hypervisor management interface

No requirement

7.7 NFVI compute management interface

No requirement

7.8 NFVI networking management interface

No requirement



- 7.9 Interfaces exposed between different service providers
No requirement
- 8 Annex A (informative): VNF Instance management and orchestration case study
 - 8.1 A.1 IMS MRF management and orchestration case study
No requirement
 - 8.2 A.2 Network Service fault Management case study
No requirement
- 9 Annex B (informative): VNF lifecycle management
 - 9.1 B.1 Introduction
No requirement
 - 9.2 B.2 VNF Package on-boarding flows
No requirement
 - 9.3 B.3 VNF instantiation flows
No requirement

- 9.4 B.4 VNF instance scaling flows
No requirement
- 9.5 B.5 VNF instance termination flows
No requirement
- 9.6 B.6 NFV fault management
No requirement
- 10 Annex C (informative): Network Service lifecycle management flows
- 10.1 C.1 Introduction
No requirement
- 10.2 C.2 Network Service on-boarding flows
No requirement
- 10.3 C.3 Network Service instantiation flows
No requirement
- 10.4 C.4 Network Service instance scaling
No requirement
- 10.5 C.5 Network Service instance update flows due to VNF instance modification
No requirement



- 10.6 C.6 Network Service instance termination flows
No requirement
- 10.7 C.7 VNF Forwarding Graph lifecycle management flows
No requirement
- 11 Annex D (informative): Orchestration flows
 - 11.1 D.1 Introduction
No requirement
 - 11.2 D.2 NFVI-PoP setup and configuration
No requirement
 - 11.3 D.3 Resources provisioning/de-provisioning
No requirement
- 12 Annex E (informative): VNFD/NSD representations using TOSCA
 - 12.1 E.1 Describing IMS MRF with TOSCA
No requirement

13 Annex F (informative): YANG/XML VNFD & NSD model

13.1 F.1 Use Cases of Network Service with Physical Network Functions

No requirement

13.2 F.2 Examples

No requirement

13.3 F.3 YANG schema

No requirement

14 Annex G (informative): TM Forum SID service model

No requirement

15 Annex H (informative): Open Virtualisation Format

No requirement



16 Annex I (informative): Other information

16.1 I.1 OpenStack

No requirement

17 Annex J (informative): Authors & contributors

No requirement