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**Group Specification**

Network Functions Virtualisation (NFV) Release 5;

Reliability;

Specification of availability and reliability requirements in NFV automation

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# Foreword

This Group Specification (GS) has been produced by ETSI Industry Specification Group <long ISGname> (<short ISGname>).

# Modal verbs terminology

In the present document "**shall**", "**shall not**", "**should**", "**should not**", "**may**", "**need not**", "**will**", "**will not**", "**can**" and "**cannot**" are to be interpreted as described in clause 3.2 of the [ETSI Drafting Rules](https://portal.etsi.org/Services/editHelp!/Howtostart/ETSIDraftingRules.aspx) (Verbal forms for the expression of provisions).

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# 1 Scope

This work item specifies requirements to maintain availability and reliability of NFV-based services in the face of challenges caused by NFV-MANO automation functions. The impact of functions such as policy management, intent management and MDAF are considered.

# 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.

Referenced documents which are not found to be publicly available in the expected location might be found at [https://docbox.etsi.org/Reference](https://docbox.etsi.org/Reference/).

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The following referenced documents are necessary for the application of the present document.

[1]

## 2.2 Informative references

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The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

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

# 3 Definition of terms, symbols and abbreviations

## 3.1 Terms

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

## 3.2 Symbols

For the purposes of the present document, the [following] symbols [given in ... and the following] apply:

## 3.3 Abbreviations

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

# Overview

Editor’s Note: This clause provides an overview of how automation may impact NFV availability and reliability.

# 5 Use Cases

Editor’s Note: This clause introduces the use cases related to maintaining the availability and reliability of NFV-based services in response to challenges posed by automation. The use cases can refer to IFA041, IFA047, IFA050 and REL013. The use cases will be structured by lifecycle phases: Design, deployment, scaling, healing, optimization, etc.

## 5.1 Introduction

## 5.2 Use Case#1

### 5.2.1 Problem Statement

Editor’s Note: This clause clarifies the availability and reliability problems for use case#1.

5.2.2 Flow Description

Editor’s Note: This clause describes the flow of solutions to the problems proposed in use case#1.

5.2.3 Conclusion

Editor’s Note: This clause analyzes missing capabilities of related NFV-MANO automation function and proposes a conclusion.

## 5.N Use Case#N

# 6 Requirements

Editor’s Note: This clause specifies the requirements based on the conclusions of clause 5. Requirements are related to new interfaces or changes to existing interfaces.

## 6.1 Introduction

## 6.2 Interface #1

## 6.N Interface #N

# Annex (informative): Change History

| Date | Version | Information about changes |
| --- | --- | --- |
| March 2023 | 0.0.1 | First draft, introducing the document skeleton and scope. |
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# History

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| **Document history** | | |
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