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**Group REPORT**

Network Function Virtualisation (NFV);

Location, locstamp and timestamp;

Report on location, timestamping of VNFs;

[Release #]

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# Foreword

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

# Modal verbs terminology

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# Executive summary

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# Introduction

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# 1 Scope

The present document …

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# 2 References

## 2.1 Normative references

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## 2.2 Informative 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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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] <Standard Organization acronym> <document number><version number/date of publication>: "<Title>".

[i.2] etc.

# 3 Definitions, symbols and abbreviations

## 3.1 Definitions

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

**<defined term>:** <definition>

**EXAMPLE:** text used to clarify abstract rules by applying them literally

NOTE: This may contain additional information.

## 3.2 Symbols

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

* definition with a tab. Use the **EX** style for the last term.

<1st symbol> <1st Explanation>

<2nd symbol> <2nd Explanation>

## 3.3 Abbreviations

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

<1st ACRONYM> <Explanation>

<2nd ACRONYM> <Explanation>

# 4 Requirements, Assumptions and Principles (or Problems statement Location and Timestamp in NFV)

Editor notes: Virtualisation of network application is creating a new paradigm, as the location and timestamp management for application can be impacted by the choice of hardware’s, OS, Hypervisor and VNF.

## 4.1 Requirements on timestamp based on regulations

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### 4.1.2 Financial market regulation (timestamp of transaction, especially in high speed trading)

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### 4.3.2 For third party (Investigation team (internal/external); IPR owners, Content licensing...)

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## 4.6 Principles

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### 4.6.2 Location definition

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Annex A:
European Securities and Markets Authority: regulatory technical and implementing standards RTS 25 on clock synchronisation (informative)

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Annex B:
DHS requirements for critical infrastructure and GNSS (informative)

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OR

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