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Technical Report

3rd Generation Partnership Project;

Technical Specification Group Radio Access Network;

Study on NR QoE management and optimizations for diverse services

(Release 17)

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***3GPP***

Postal address

3GPP support office address

650 Route des Lucioles - Sophia Antipolis

Valbonne - FRANCE

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

Internet

http://www.3gpp.org

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# Foreword

This Technical Report has been produced by the 3rd Generation Partnership Project (3GPP).

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x the first digit:

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z the third digit is incremented when editorial only changes have been incorporated in the document.

# Introduction

A new SI “Study on NR QoE management and optimizations for diverse services” was approved for Release 17 at the 3GPP TSG RAN #86 meeting in [2]. The SI aims to study the potential RAN side solution for supporting a generic framework for triggering, configuring, measurement collection and reporting in NR for various 5G use cases.

# 1 Scope

The present document captures the results of study on NR QoE management and optimizations for diverse services in RP-193256 [2]. It identifies to study the framework for triggering, configuring, collection and reporting of NR QoE measurement and study the potential impact on the related interface (e.g. F1, NG, Xn interface).

# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non‑specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[2] 3GPP RP-193256: " New SID: Study on NR QoE management and optimizations for diverse services "

# 3 Definitions, symbols and abbreviations

## 3.1 Definitions

For the purposes of the present document, the terms and definitions given in 3GPP TR 21.905 [1] and the following apply. A term defined in the present document takes precedence over the definition of the same term, if any, in 3GPP TR 21.905 [1].

## 3.2 Symbols

For the purposes of the present document, the following symbols apply:

## 3.3 Abbreviations

For the purposes of the present document, the abbreviations given in 3GPP TR 21.905 [1] and the following apply. An abbreviation defined in the present document takes precedence over the definition of the same abbreviation, if any, in 3GPP TR 21.905 [1].

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# 4 General

# 5 5G services, QoE metrics and UE KPI information

Editor note: Description of typical 5G services (e.g. VR/AR, URLLC), QoE metrics and UE KPI information for certain services (e.g. latency for URLLC service)

# 6 Potential NR QoE solutions and procedures

Editor note: Description of potential NR QoE solutions and procedures, including but not limited to reuse Trace or MDT Functionality/Framework.

# 7 Potential Impacts on NR specifications

Editor note: Description of potential Specification impact, according to the potential solutions of NR QoE.

# 8 Conclusion

# Annex <X>:

# Change history

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| **Change history** |
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