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# Foreword

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

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

Version x.y.z

where:

x    the first digit:

1    presented to TSG for information;

2    presented to TSG for approval;

3    or greater indicates TSG approved document under change control.

y    the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.

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

# 1        Scope

The present document specifies the procedures of the Wireless LAN control plane protocol (WLCP) for trusted WLAN access to EPC which is used between User Equipment (UE) and Trusted WLAN Access Gateway (TWAG) for multi-connection mode as specified in 3GPP TS 23.402 [2].

This document also defines the message format, information elements coding, error handling and system parameters applied by the WLCP protocol.

# 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 TS 23.402: "Architecture Enhancements for non-3GPP accesses".

# 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:

Editor's note: Add symbols if there is any.

## 3.3 Abbreviations

For the purposes of the present document, the abbreviations given in 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].

TWAG        Trusted WLAN Access Gateway
WLCP        Wireless LAN control plane protocol

# 4 General

Editor's note: This subclause specifies general functionality of WLCP based on 3GPP TS 23.402 [2].

# 5 Wireless LAN control plane protocol Procedures

Editor's note: This subclause specifies the procedures of WLCP based on 3GPP TS 23.402 [2].

# 6 Handling of unknown, unforeseen, and erroneous protocol data

Editor's note: This subclause specifies handling of error case in WLCP.

# 7 Message functional definitions and contents

Editor's note: This subclause specifies WLCP message functional definitions and contents.

# 8 General message format and information elements coding

Editor's note: This subclause defines WLCP general message format and information elements coding.

# 9 List of system parameters

Editor's note: This subclause specifies related system parameters in WLCP, e.g. system timer.

# Annex <X> (informative):
# Change history

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