

ETSI TS 129 413 V17.5.0 (2025-03)



5G;
Application of the NG Application Protocol (NGAP)
to non-3GPP access
(3GPP TS 29.413 version 17.5.0 Release 17)

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1 Scope

The present document describes the applicability of NG Application Protocol (NGAP) messages and procedures, defined in 3GPP TS 38.413 [2], to non-3GPP access. A general description for non-3GPP access can be found in 3GPP TS 23.501 [3], 3GPP TS 23.502 [4], and 3GPP TS 23.316 [6].

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 38.413: "NG-RAN; NG Application Protocol (NGAP)".
- [3] 3GPP TS 23.501: "System Architecture for the 5G System".
- [4] 3GPP TS 23.502: "Procedures for the 5G System".
- [5] 3GPP TS 33.501: "Security architecture and procedures for 5G system".
- [6] 3GPP TS 23.316: "Wireless and wireline convergence access support for the 5G System (5GS)".
- [7] 3GPP TS 24.502: "Access to the 3GPP 5G Core Network (5GCN) via Non-3GPP Access Networks (N3AN)".

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].

5G-RG	5G Residential Gateway
FN-RG	Fixed Network Residential Gateway
N3IWF	Non-3GPP InterWorking Function
TNAP	Trusted Non-3GPP Access Point
TNGF	Trusted Non-3GPP Gateway Function
TWIF	Trusted WLAN Interworking Function
W-AGF	Wireline Access Gateway Function

4 Principles for the use of NGAP for non-3GPP access

4.1 General

TS 23.501 [3] specifies the NGAP used between the Non-3GPP access network node and the AMF. The Non-3GPP access network node is either a Non-3GPP InterWorking Function (N3IWF), or a Trusted Non-3GPP Gateway Function (TNGF), or a Trusted WLAN Interworking Function (TWIF), or a Wireline Access Gateway Function (W-AGF). NGAP is used as specified in TS 38.413 [2] with clarifications or additions as specified in Clause 5.