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**5G;
Application of the NG Application Protocol (NGAP)
to non-3GPP access
(3GPP TS 29.413 version 18.2.0 Release 18)**



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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.
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- [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.

5 Non-3GPP access

5.1 Use of the NGAP for non-3GPP access

The following NGAP procedures are used between the Non-3GPP access network node and the AMF:

- PDU Session Management Procedures
 - PDU Session Resource Setup
 - PDU Session Resource Release
 - PDU Session Resource Modify
 - PDU Session Resource Notify
- UE Context Management Procedures
 - Initial Context Setup
 - UE Context Release Request
 - UE Context Release
 - UE Context Modification
- Transport of NAS Messages Procedures
 - Initial UE Message
 - Downlink NAS Transport
 - Uplink NAS Transport
 - NAS Non Delivery Indication
 - Reroute NAS Request
- Interface Management Procedures
 - NG Setup
 - RAN Configuration Update
 - AMF Configuration Update
 - NG Reset
 - Error Indication
 - AMF Status Indication
 - Overload Start
 - Overload Stop
- UE TNLA Binding Procedures
 - UE TNLA Binding Release

The following NGAP procedures are used between the N3IWF node and the AMF:

- Trace Procedures
 - Trace Start

- Trace Failure Indication
- Deactivate Trace

For the NGAP procedures used between the Non-3GPP access network node and the AMF, the Non-3GPP access network node fulfils the behaviour of the NG-RAN node as specified in clause 8 of TS 38.413 [2], with clarifications as specified in Clause 5.3. The text in clause 8 of TS 38.413 [2] referring to Uu should be understood as referring to the Y2 reference point as specified in TS 23.501 [3].

5.2 NGAP messages used for non-3GPP access

The list given below shows the NGAP messages, as specified in TS 38.413 [2] subclause 9.2 (tabular format) and 9.4 (ASN.1 notation) that are used between the Non-3GPP access network node and the AMF.

- PDU SESSION RESOURCE SETUP REQUEST
- PDU SESSION RESOURCE SETUP RESPONSE
- PDU SESSION RESOURCE RELEASE COMMAND
- PDU SESSION RESOURCE RELEASE RESPONSE
- PDU SESSION RESOURCE MODIFY REQUEST
- PDU SESSION RESOURCE MODIFY RESPONSE
- PDU SESSION RESOURCE NOTIFY
- INITIAL CONTEXT SETUP REQUEST
- INITIAL CONTEXT SETUP RESPONSE
- INITIAL CONTEXT SETUP FAILURE
- UE CONTEXT RELEASE REQUEST
- UE CONTEXT RELEASE COMMAND
- UE CONTEXT RELEASE COMPLETE
- UE CONTEXT MODIFICATION REQUEST
- UE CONTEXT MODIFICATION RESPONSE
- UE CONTEXT MODIFICATION FAILURE
- INITIAL UE MESSAGE
- DOWNLINK NAS TRANSPORT
- UPLINK NAS TRANSPORT
- NAS NON DELIVERY INDICATION
- REROUTE NAS REQUEST
- NG SETUP REQUEST
- NG SETUP RESPONSE
- NG SETUP FAILURE
- RAN CONFIGURATION UPDATE
- RAN CONFIGURATION UPDATE ACKNOWLEDGE
- RAN CONFIGURATION UPDATE FAILURE

- AMF CONFIGURATION UPDATE
- AMF CONFIGURATION UPDATE ACKNOWLEDGE
- AMF CONFIGURATION UPDATE FAILURE
- NG RESET
- NG RESET ACKNOWLEDGE
- ERROR INDICATION
- AMF STATUS INDICATION
- OVERLOAD START
- OVERLOAD STOP
- UE TNLA BINDING RELEASE REQUEST

The list given below shows the NGAP messages, as specified in TS 38.413 [2] subclause 9.2 (tabular format) and 9.4(ASN.1 notation) that are used between the N3IWF node and the AMF.

- TRACE START
- TRACE FAILURE INDICATION
- DEACTIVATE TRACE

5.3 Exceptions for NGAP message contents and information element coding when used for non-3GPP access

For the NGAP messages transferred between the Non-3GPP access network node and the AMF, the following exceptions to the specification in TS 38.413 [2] shall be applied:

PDU SESSION RESOURCE SETUP REQUEST message:

- the following IEs shall be ignored, when received:
 - *RAN Paging Priority IE*
 - *UE Aggregate Maximum Bit Rate IE* (except for non-trusted non-3GPP access, trusted non-3GPP access and trusted WLAN access as specified in TS 23.501 [3]).
 - *Notification Control IE* included in the *QoS Flow Level QoS Parameters IE*
 - *Alternative QoS Parameters Set List IE* included in the *QoS Flow Level QoS Parameters IE*
 - *UE Slice Maximum Bit Rate List IE*

PDU SESSION RESOURCE RELEASE COMMAND message:

- the following IEs shall be ignored, when received:
 - *RAN Paging Priority IE*

PDU SESSION RESOURCE MODIFY REQUEST message:

- the following IEs shall be ignored, when received:
 - *RAN Paging Priority IE*
 - *Notification Control IE* included in the *QoS Flow Level QoS Parameters IE*
 - *Alternative QoS Parameters Set List IE* included in the *QoS Flow Level QoS Parameters IE*

INITIAL CONTEXT SETUP REQUEST message:

- the following IEs shall be ignored, when received:
 - *Core Network Assistance Information for RRC INACTIVE IE*
 - *Trace Activation IE* (except for non-trusted non-3GPP access as specified in TS 23.501 [3])
 - *Mobility Restriction List IE*
 - *UE Radio Capability IE*
 - *Index to RAT/Frequency Selection Priority IE*
 - *Emergency Fallback Indicator IE*
 - *RRC Inactive Transition Report Request IE*
 - *UE Radio Capability for Paging IE*
 - *Redirection for Voice EPS Fallback IE*
 - *Location Reporting Request Type IE*
 - *CN Assisted RAN Parameters Tuning IE*
 - *SRVCC Operation Possible IE*
 - *IAB Authorized IE*
 - *Enhanced Coverage Restriction IE*
 - *Extended Connected Time IE*
 - *UE Differentiation Information IE*
 - *NR V2X Services Authorized IE*
 - *LTE V2X Services Authorized IE*
 - *NR UE Sidelink Aggregate Maximum Bit Rate IE*
 - *LTE UE Sidelink Aggregate Maximum Bit Rate IE*
 - *PC5 QoS Parameters IE*
 - *CE-mode-B Restricted IE*
 - *UE User Plane CIoT Support Indicator IE*
 - *Management Based MDT PLMN List IE*
 - *UE Radio Capability ID IE*
 - *UE Aggregate Maximum Bit Rate IE* (except for non-trusted non-3GPP access, trusted non-3GPP access and trusted WLAN access as specified in TS 23.501 [3])
 - *UE Security Capabilities IE*
 - *Time Synchronisation Assistance Information IE*
 - *QMC Configuration Information IE*
 - *Target NSSAI Information IE*
 - *UE Slice Maximum Bit Rate List IE*
 - *5G ProSe Authorized IE*
 - *5G ProSe UE PC5 Aggregate Maximum Bit Rate IE*

- *Network Controlled Repeater Authorized IE*
- *Aerial UE Subscription Information IE*
- *NR A2X Services Authorized IE*
- *LTE A2X Services Authorized IE*
- *NR A2X UE PC5 Aggregate Maximum Bit Rate IE*
- *LTE A2X UE PC5 Aggregate Maximum Bit Rate IE*
- *A2X PC5 QoS Parameters IE*
- *Mobile IAB Authorized IE*
- *5G ProSe PC5 QoS Parameters IE*
- *Notification Control IE* included in the *QoS Flow Level QoS Parameters IE*
- *Alternative QoS Parameters Set List IE* included in the *QoS Flow Level QoS Parameters IE*
- *RG Level Wireline Access Characteristics IE*: the information given within this IE between the W-AGF and the AMF shall be stored in the UE context by the W-AGF as specified in TS 23.316 [6].

UE CONTEXT RELEASE COMPLETE message:

- the following IEs shall be ignored, when received:
 - *Information on Recommended Cells and RAN Nodes for Paging IE*
 - *Paging Assistance Data for CE Capable UE IE*

UE CONTEXT MODIFICATION REQUEST message:

- the following IEs shall be ignored, when received:
 - *RAN Paging Priority IE*
 - *Index to RAT/Frequency Selection Priority IE*
 - *Core Network Assistance Information IE*
 - *Emergency Fallback Indicator IE*
 - *RRC Inactive Transition Report Request IE*
 - *CN Assisted RAN Parameters Tuning IE*
 - *SRVCC Operation Possible IE*
 - *IAB Authorized IE*
 - *NR V2X Services Authorized IE*
 - *LTE V2X Services Authorized IE*
 - *NR UE Sidelink Aggregate Maximum Bit Rate IE*
 - *LTE UE Sidelink Aggregate Maximum Bit Rate IE*
 - *PC5 QoS Parameters IE*
 - *UE Radio Capability ID IE*
 - *UE Aggregate Maximum Bit Rate IE* (except for non-trusted non-3GPP access, trusted non-3GPP access and trusted WLAN access as specified in TS 23.501 [3])
 - *UE Security Capabilities IE*

- *Time Synchronisation Assistance Information IE*
- *QMC Configuration Information IE*
- *QMC Deactivation IE*
- *UE Slice Maximum Bit Rate List IE*
- *Management Based MDT PLMN Modification List IE*
- *5G ProSe Authorized IE*
- *5G ProSe UE PC5 Aggregate Maximum Bit Rate IE*
- *5G ProSe PC5 QoS Parameters IE*
- *Network Controlled Repeater Authorized IE*
- *Aerial UE Subscription Information IE*
- *NR A2X Services Authorized IE*
- *LTE A2X Services Authorized IE*
- *NR A2X UE PC5 Aggregate Maximum Bit Rate IE*
- *LTE A2X UE PC5 Aggregate Maximum Bit Rate IE*
- *A2X PC5 QoS Parameters IE*
- *Mobile IAB Authorized IE*
- if this is the first message received from a new AMF, the N3IWF shall identify the old AMF and the UE using the received *RAN UE NGAP ID*, release the UE-associated logical NG-connection to the old AMF and create a new UE-associated logical NG-connection to the new AMF.
- *RG Level Wireline Access Characteristics IE*: the information given within this IE between the W-AGF and the AMF shall be stored in the UE context by the W-AGF as specified in TS 23.316 [6].

UE CONTEXT MODIFICATION RESPONSE message:

- the following IEs shall be ignored, when received:
 - *RRC State IE*

INITIAL UE MESSAGE message:

- the following IEs shall be ignored, when received:
 - *IAB Node Indication IE*
 - *CE-mode-B Support Indicator IE*
 - *LTE-M Indication IE*
 - *EDT Session IE*
 - *NPN Access Information IE*
 - *RedCap Indication IE*
 - *Mobile IAB Node Indication IE*
- *RRC Establishment Cause IE*: the information given within this IE is to indicate the Establishment cause for non-3GPP access as specified in TS 24.502 [7].
- *Selected PLMN Identity IE*: the information given within this IE provides the selected PLMN ID for untrusted non-3GPP access as specified in TS 23.502 [4].

- *Authenticated Indication IE*: the information given within this IE between the W-AGF and the AMF is to indicate that the FN-RG has been authenticated by the wireline 5G access network as specified in TS 23.316 [6].
- *Selected PLMN Identity IE*: the information given within this IE contains the PLMN Identity for wireline access as specified in TS 23.316 [6], or for trusted non-3GPP access as specified in TS 23.502 [4].
- *Selected NID IE*: the information given within this IE contains the NID which, together with the *Selected PLMN Identity IE*, indicates the SNPN identity for wireline access as specified in TS 23.316 [6], or for trusted/untrusted non-3GPP access as specified in TS 23.502 [4].

DOWNLINK NAS TRANSPORT message:

- the following IEs shall be ignored, when received:
 - *RAN Paging Priority IE*
 - *Mobility Restriction List IE*
 - *Index to RAT/Frequency Selection Priority IE*
 - *SRVCC Operation Possible IE*
 - *Enhanced Coverage Restriction IE*
 - *Extended Connected Time IE*
 - *UE Differentiation Information IE*
 - *CE-mode-B Restricted IE*
 - *UE Radio Capability IE*
 - *UE Capability Info Request IE*
 - *End Indication IE*
 - *UE Radio Capability ID IE*
 - *UE Aggregate Maximum Bit Rate IE* (except for non-trusted non-3GPP access, trusted non-3GPP access and trusted WLAN access as specified in TS 23.501 [3])
 - *Target NSSAI Information IE*

UPLINK NAS TRANSPORT message:

- *TNGF Identity Information IE*: the information given within this IE between the TNGF and the AMF contains a list of identifiers of NG-U terminations at TNGF as specified in TS 23.502 [4].
- *TWIF Identity Information IE*: the information given within this IE between the TWIF and the AMF contains a list of identifiers of NG-U terminations at TWIF as specified in TS 23.502 [4].
- *W-AGF Identity Information IE*: the information given within this IE between the W-AGF and the AMF contains a list of identifiers of NG-U terminations at W-AGF as specified in TS 23.316 [6].

NG SETUP REQUEST message:

- the following IEs shall be ignored, when received:
 - *Default Paging DRX IE*
 - *NB-IoT Default Paging DRX IE*

NG SETUP RESPONSE message:

- the following IEs shall be ignored, when received:
 - *IAB Supported IE*

- *Mobile IAB Supported IE*

RAN CONFIGURATION UPDATE message:

- the following IEs shall be ignored, when received:
 - *Default Paging DRX IE*
 - *NB-IoT Default Paging DRX IE*

OVERLOAD START message:

- *AMF Overload Response IE*: if the *Overload Action IE* is included, the contained information is used to identify the related signalling traffic corresponding to the Establishment cause for non-3GPP access as specified in TS 24.502 [7].
- *Slice Overload Response IE*: if the *Overload Action IE* is included, the contained information is used to identify the related signalling traffic corresponding to the Establishment cause for non-3GPP access as specified in TS 24.502 [7].

TRACE START message:

- the following IE shall be ignored, when received:
 - *MDT Configuration IE*

The *Global RAN Node ID IE* in the applicable NGAP messages includes the following IEs as specified in TS 38.413 [2]:

- *Global N3IWF ID IE* for the untrusted non-3GPP access.
- *Global TNGF ID IE* for the trusted non-3GPP access.
- *Global TWIF ID IE* for the trusted WLAN access.
- *Global W-AGF ID IE* for the wireline 5G access.

The *User Location Information IE* in the applicable NGAP messages includes the following IEs as specified in TS 38.413 [2]:

- *N3IWF User Location Information IE* for the untrusted non-3GPP access.
- *TNGF User Location Information IE* for the trusted non-3GPP access.
- *TWIF User Location Information IE* for the trusted WLAN access.
- *W-AGF User Location Information IE* for the wireline 5G access.

The *Security Key IE* in the applicable NGAP messages includes the K_{N3IWF} , or the K_{TNGF} , or the K_{TWIF} , or the K_{WAGF} as specified in TS 33.501 [5].

The *RAN UE NGAP ID IE* in the applicable NGAP messages identifies the UE association over the NG interface within the N3IWF node, or the TNGF node, or the TWIF node, or the W-AGF node, as specified in TS 38.413 [2].

5.4 Handling of NGAP messages not specified to be applicable between the Non-3GPP access network node and AMF

If the Non-3GPP access network node or the AMF receive an NGAP message not listed in section 5.2 as being applicable between the Non-3GPP access network node and AMF, the receiving node shall act according to the criticality defined for the elementary procedure and ignore the message or discard the message and send an ERROR INDICATION message indicating that the procedure is not supported, as specified in in TS 38.413 [2].

Annex A (informative): Change history

Change history							
Date	Meeting	TDoc	CR	Rev	Cat	Subject/Comment	New version
2018-04	R3#99bis	R3-181817	-	-	-	TS skeleton	0.0.1
2018-04	R3#99bis	R3-182522	-	-	-	covering agreements of RAN3#99Bis	0.1.0
2018-05	RAN#100	R3-183589	-	-	-	covering agreements of RAN3#100	0.2.0
2018-06	RAN#80	RP-180755	-	-	-	For approval	1.0.0
2018-06	RAN#80		-	-	-	Specification approved at TSG-RAN and placed under change control	15.0.0
2018-12	RP-82	RP-182447	0001	-	F	Add the UE TNLA Binding release and overload control procedures	15.1.0
2019-07	RP-84	RP-191394	0002	1	F	N2 AMF mobility	15.2.0
2019-09	RP-85	RP-192166	0004	1	F	Correction of N3IWF key	15.3.0
2020-07	RP-88-e	RP-201092	0005	-	F	Selected PLMN ID for untrusted non-3GPP access	15.4.0
2020-07	RP-88-e	RP-201081	0003	11	B	CR for introducing WWC in RAN	16.0.0
2020-09	RP-89-e	RP-201954	0007	1	A	Update the list of IEs that is not applicable to non-3GPP access	16.1.0
2020-12	RP-90-e	RP-202310	0008	1	F	Add the support for updating RG Level Wireline Access Characteristics	16.2.0
2020-12	RP-90-e	RP-202313	0010	1	F	Handling OVERLOAD START message in the N3IWF	16.2.0
2021-09	RP-93-e	RP-211872	0011	1	F	Ignoring the notification control for WWC	16.3.0
2022-03	SA#95-e					Promotion to Release 17 without technical change	17.0.0
2022-06	RAN#96	RP-221150	0013		A	Clarify the UE Security Capabilities IE not applicable to non-3GPP access	17.1.0
2022-09	RAN#97-e	RP-222201	0014	1	F	Update for Rel-17 NGAP IEs not applicable to non-3GPP access	17.2.0
2023-03	RAN#99	RP-230593	0015	-	F	Correction of ULI for non-3GPP access	17.3.0
2023-12	RAN#102	RP-233840	0017	6	B	Support of the enhanced NPN phase 2	18.0.0
2024-03	RAN#103	RP-240646	0025	1	A	Trace functionality extension in N3IWF for non-3GPP access scenarios	18.1.0
2024-03	RAN#103	RP-240646	0026	1	F	Update on NGAP IEs that are not applicable to non-3GPP access	18.1.0
2024-06	RAN#104	RP-241113	0031	-	D	Rapporteur correction on IEs of INITIAL CONTEXT SETUP REQUEST message	18.2.0

History

Document history		
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