

# ETSI TS 138 463 V18.0.0 (2024-05)



**5G;  
NG-RAN;  
E1 Application Protocol (E1AP)  
(3GPP TS 38.463 version 18.0.0 Release 18)**



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**Reference**

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

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## 1 Scope

See TS 37.483 [40].

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## 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] -[39]        Void.

[40]            3GPP TS 37.483: "E1 Application Protocol (E1AP)".

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## 3 to 10 Void

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## 11 E1 Application Protocol (E1AP)

See TS 37.483 [40].

## Annex A (informative): Change History

Change history							
Date	Meeting	TDoc	CR	Rev	Cat	Subject/Comment	New version
2018-02	R3 #99	R3-181309	-	-	-	Endorsed skeleton	0.0.0
2018-03	R3 #99	R3-181597	-	-	-	New version capturing agreements from RAN3#99	0.1.0
2018-04	R3 #99b	R3-182531	-	-	-	New version capturing agreements from RAN3#99b	0.2.0
2018-05	R3 #100	R3-183601	-	-	-	New version capturing agreements from RAN3#100	0.3.0
2018-06	RAN#80	RP-181154				Submitted to RAN for approval.	1.0.0
2018-06	RAN#80	-	-	-	-	Specification approved at TSG-RAN and placed under change control	15.0.0
2018-09	RAN#81	RP-181925	0001	3	F	BL CR for TS 38.463 covering agreements from RAN3-AH-1807 and R3-101 Note: CR not based on latest version of the spec. Changes to clause 8.3.2.2 in the CR were implemented in clause 8.3.2.3 in the spec.	15.1.0
2018-12	RAN#82	RP-182451	0002	2	F	NR Corrections (TS 38.463 Baseline CR covering RAN3-101Bis and RAN3-102 agreements)	15.2.0
2019-03	RAN#83	RP-190560	0004	2	F	Correction to Data Forwarding Information IE	15.3.0
2019-03	RAN#83	RP-190555	0005	1	F	Corrections related to Integrity Protection handling at the gNB-CU-UP	15.3.0
2019-03	RAN#83	RP-190554	0007	2	F	Corrections on gNB-CU-UP/gNB-DU-CP Configuration Update	15.3.0
2019-03	RAN#83	RP-190556	0008	2	F	Correction of QoS Flow Mapping Indication	15.3.0
2019-03	RAN#83	RP-190560	0009	1	F	Paging Failure	15.3.0
2019-03	RAN#83	RP-190560	0011	1	F	Release due to pre-emption	15.3.0
2019-03	RAN#83	RP-190560	0013	-	F	Transaction ID in Error Indication procedure	15.3.0
2019-03	RAN#83	RP-190560	0017	1	F	CR to TS 38.463 on inactivity timer over E1	15.3.0
2019-03	RAN#83	RP-190560	0020	1	F	Data volume reporting for MR-DC with 5GC	15.3.0
2019-03	RAN#83	RP-190560	0029	1	F	TS 38.463 ASN.1 corrections	15.3.0
2019-03	RAN#83	RP-190560	0030	-	F	Rapporteur corrections for TS 38.463	15.3.0
2019-03	RAN#83	RP-190611	0035	3	F	S-NSSAI update during EPS to 5GS handover	15.3.0
2019-07	RP#84	RP-191399	0023	2	F	Support of ongoing re-mapping on source side during SDAP mobility	15.4.0
2019-07	RP#84	RP-191399	0028	1	F	TS 38.463 Tabular clean up for Bearer Context messages	15.4.0
2019-07	RP-84	RP-191396	0044	2	F	Correction to DRB 5QI on E1	15.4.0
2019-07	RP-84	RP-191399	0049	2	F	Multiple SCTP associations over E1	15.4.0
2019-07	RP-84	RP-191399	0050	2	F	Rapporteur's editorial corrections for TS 38.463	15.4.0
2019-07	RP-84	RP-191399	0051	-	F	E1AP failure messages correction	15.4.0
2019-07	RP-84	RP-191399	0052	1	F	New UL TNL Information clarification	15.4.0
2019-07	RP-84	RP-191399	0053	4	F	UE Identification over E1	15.4.0
2019-07	RP-84	RP-191394	0057	2	F	CR to 38.463 on deconfiguring PDCP duplication	15.4.0
2019-07	RP-84	RP-191399	0062	2	F	Clarification on security indication in the modification procedure over E1 interface	15.4.0
2019-07	RP-84	RP-191399	0064	2	F	Clarification on counter check procedure	15.4.0
2019-07	RP-84	RP-191397	0065		F	Correction of Network Instance	15.4.0
2019-07	RP-84	RP-191399	0073	1	F	Activity Notification Level in Bearer Context Modification Request E1AP	15.4.0
2019-07	RP-84	RP-191394	0075	1	F	PDCP SN length and RLC mode related clean-up over To Be Modified structure in Bearer Context Modification procedure	15.4.0
2019-07	RP-84	RP-191399	0084	-	F	Bearer Context Release Request Cause	15.4.0
2019-07	RP-84	RP-191399	0085	-	F	Clarification on Bearer Context Setup and Bearer Context Modification failures	15.4.0
2019-07	RP-84	RP-191396	0086	1	F	PDU session split for E1	15.4.0
2019-07	RP-84	RP-191399	0091	-	F	Rapporteur's editorial corrections for TS 38.463	15.4.0
2019-07	RP-84	RP-191399	0092	1	F	Rapporteur's ASN.1 corrections for TS 38.463	15.4.0
2019-07	RP-84	RP-191399	0095	1	F	CR to 38.463 on adding Cause when remove DRB and PDU Session	15.4.0
2019-07	RP-84	RP-191399	0097	-	F	Rapporteur's ASN.1 corrections for TS 38.463	15.4.0
2019-09	RP-85	RP-192168	0094	2	F	CR to 38.463 on Security Indication	15.5.0
2019-09	RP-85	RP-192166	0098	1	F	Correction of security indication	15.5.0
2019-09	RP-85	RP-192166	0111	1	F	Clarification for TNLA removal	15.5.0
2019-09	RP-85	RP-192168	0122	2	F	Correction of semantic descriptions in TS 38.463 (rapporteur)	15.5.0
2019-12	RP-86	RP-192915	0158	1	F	Correction of S-NSSAI coding	15.6.0
2019-12	RP-86	RP-192915	0174	2	F	UL Data Split Threshold correction	15.6.0
2019-12	RP-86	RP-192915	0476	1	F	Correction to DRB to Setup	15.6.0
2019-12	RP-86	RP-192913	0033	7	F	Trace function support for E1AP	16.0.0
2019-12	RP-86	RP-192913	0089	4	B	Introduction of Additional RRM Policy Index (ARPI)	16.0.0
2019-12	RP-86	RP-192913	0096	3	B	Retainability measurements for DRBs and QoS flows	16.0.0
2019-12	RP-86	RP-192913	0163	1	C	Extending the MDBV Range	16.0.0
2019-12	RP-86	RP-193212	0473	4	F	Support for setting up IPsec a priori in E1	16.0.0
2020-03	RP-87-e	RP-200477	0481	4	B	E2E delay measurement for Qos monitoring for URLLC	16.1.0
2020-03	RP-87-e	RP-200425	0487	-	F	E1AP correction of F1 Support for IPsec Setup	16.1.0
2020-03	RP-87-e	RP-200425	0488	-	F	Rapporteur's corrections for TS 38.463	16.1.0
2020-03	RP-87-e	RP-200425	0489	-	D	Rapporteur's editorial corrections for TS 38.463	16.1.0



2020-04						Editorial correction to the ASN.1	16.1.1
2020-07	RP-88-e	RP-201082	0142	12	B	Addition of SON features	16.2.0
2020-07	RP-88-e	RP-201079	0154	11	B	Introduction of NR_IIoT support to TS 38.463	16.2.0
2020-07	RP-88-e	RP-201077	0162	6	B	BL CR to 38.463: Support for IAB	16.2.0
2020-07	RP-88-e	RP-201080	0468	7	B	Introduction of Non-Public Networks for TS38.463	16.2.0
2020-07	RP-88-e	RP-201082	0477	6	B	Addition of MDT features	16.2.0
2020-07	RP-88-e	RP-201079	0478	4	B	Support of Ethernet Header Compression	16.2.0
2020-07	RP-88-e	RP-201075	0490	5	B	Baseline CR for introducing Rel-16 NR mobility enhancement	16.2.0
2020-07	RP-88-e	RP-201085	0498	-	D	Rapporteur's editorial corrections for TS 38.463	16.2.0
2020-07	RP-88-e	RP-201091	0500	2	A	Correction of the Old QoS Flow List update during HO	16.2.0
2020-07	RP-88-e	RP-201092	0502	2	A	PDCP Status Report indication in PDCP-Configuration	16.2.0
2020-07	RP-88-e	RP-201074	0511	-	B	Introducing alternative QoS profiles to E1AP	16.2.0
2020-07	RP-88-e	RP-201090	0512	4	F	Correction of S-NSSAI range	16.2.0
2020-09	RP-89-e	RP-201953	0514	3	F	Correction for SN Terminated (option 3x) GBR bearer establishment	16.3.0
2020-09	RP-89-e	RP-201949	0521	2	F	Correction for TS38.463 on Unsuccessful Operation and Abnormal Conditions of MLB	16.3.0
2020-09	RP-89-e	RP-201949	0522	1	F	Correction on Industrial IOT Rel-16 DC+CA duplication for E1AP	16.3.0
2020-09	RP-89-e	RP-201953	0525	1	A	Correction on reusing Source TEID at Handover	16.3.0
2020-09	RP-89-e	RP-201950	0526	3	F	Need of D1 for QoS monitoring for URLLC	16.3.0
2020-09	RP-89-e	RP-201949	0532	1	F	TS38.463 Extend the CHO Usage and Support Intra-SN/inter-UP CPC case	16.3.0
2020-09	RP-89-e	RP-201953	0536	1	F	Rapporteur's corrections for TS 38.463	16.3.0
2020-09	RP-89-e	RP-201953	0537	-	D	Rapporteur's editorial corrections for TS 38.463	16.3.0
2020-09	RP-89-e	RP-201947	0551	1	F	CR on clarification of QoS Mapping Information over E1 for Rel-16 IAB	16.3.0
2020-09	RP-89-e	RP-201955	0554	-	F	Corrections to 38.463 on node name type	16.3.0
2020-12	RP-90-e	RP-202312	0555	1	F	Support of direct data forwarding for inter-system HO	16.4.0
2020-12	RP-90-e	RP-202310	0556	3	F	Correction on DSCP Derivation in IAB-donor node	16.4.0
2020-12	RP-90-e	RP-202313	0562	1	F	Introduction of reporting frequency for QoS monitoring for URLLC	16.4.0
2020-12	RP-90-e	RP-202311	0566	-	F	Correction on Industrial IOT Rel-16 PDCP duplication for E1AP	16.4.0
2021-03	RP-91-e	RP-210240	0568	2	F	Update on QoS monitoring control	16.5.0
2021-03	RP-91-e	RP-210231	0583	2	D	CR to 38.463 Correction on IAB UP TNL Address Update	16.5.0
2021-06	RP-92-e	RP-211335	0577	2	F	Inter-system indicator for Bearer Context Setup	16.6.0
2021-06	RP-92-e	RP-211337	0585	-	F	Private Message Definition	16.6.0
2021-06	RP-92-e	RP-211338	0602	4	C	Maximum number of NR-CGI over E1 [EXT_NRCGI_E1]	16.6.0
2021-09	RP-93-e	RP-211877	0589	2	F	CR on E1AP handling for unmapped DL QoS flows	16.7.0
2021-09	RP-93-e	RP-211877	0612	1	A	Correction of PDU Session level Data Forwarding Information and QoS Flow list	16.7.0
2021-09	RP-93-e	RP-211879	0614	2	F	Restricting the number of DL EHC contexts	16.7.0
2021-09	RP-93-e	RP-211881	0622		F	Correction for UL Data Notification over E1	16.7.0
2021-09	RP-93-e	RP-211873	0632	1	F	Data forwarding address allocation for handover	16.7.0
2021-09	RP-93-e	RP-211873	0636	1	F	Support of direct data forwarding for inter-system HO from 4G to 5G	16.7.0
2021-09	RP-93-e	RP-211881	0638		F	Issue for Intra gNB-CU-UP DAPS HO	16.7.0
2021-12	RP-94-e	RP-212866	0644	3	F	DAPS Inconsistencies	16.8.0
2021-12	RP-94-e	RP-212870	0645	1	F	Adding reference for coding of Common Network Instance	16.8.0
2021-12	RP-94-e	RP-212864	0653	1	F	Direct data forwarding indication for intra-5GS handover	16.8.0
2021-12	RP-94-e	RP-213019	0656	1	F	Correction of QoS Mapping Information IE in E1AP message for IAB (CR to TS38.463, R16)	16.8.0
2021-12	RP-94-e	RP-212866	0657	1	F	E1 impact to support to stop CHO early data forwarding	16.8.0
2021-12	RP-94-e	RP-212870	0662	2	F	Correction CR for 38.463 on lossless intra-system HO with QoS flow remapping in CP-UP separated scenario	16.8.0
2022-03	RP-95-e	RP-220279	0651	2	F	Dynamic ACL over E1 CR 38.463	16.9.0
2022-03	RP-95-e	RP-220278	0672	1	F	Downlink unmapped QoS flows for E1	16.9.0
2022-03	RP-95-e	RP-220276	0673	1	F	Correction on support of Pre-shared key derivation for IAB-donor-CU-UP	16.9.0
2022-03	RP-95-e	RP-220279	0675	2	A	Security indication in the modification procedure over E1 interface	16.9.0
2022-03	RP-95-e	RP-220277	0676		F	CR for 38.463 on fixing DAPS HO handling inconsistency during Bearer Context Modification procedure	16.9.0
2022-03	RP-95-e	RP-220282	0682	-	F	Offered GBR in NR-DC	16.9.0
2022-03	RP-95-e	RP-220217	0665	2	F	E1AP specification transfer to TS 37.483	17.0.0
2024-03	SA#103-	-	-	-	-	Update to Rel-18 version (MCC)	18.0.0

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# History

<b>Document history</b>		
V18.0.0	May 2024	Publication