

ETSI TS 138 460 V19.0.0 (2025-10)



**5G;
NG-RAN;
E1 general aspects and principles
(3GPP TS 38.460 version 19.0.0 Release 19)**



ReferenceRTS/TSGR-0338460vj00

Keywords5G

ETSI

650 Route des Lucioles
F-06921 Sophia Antipolis Cedex - FRANCE

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

Siret N° 348 623 562 00017 - APE 7112B
Association à but non lucratif enregistrée à la
Sous-Préfecture de Grasse (06) N° w061004871

Important notice

The present document can be downloaded from the
[ETSI Search & Browse Standards application](#).

The present document may be made available in electronic versions and/or in print. The content of any electronic and/or print versions of the present document shall not be modified without the prior written authorization of ETSI. In case of any existing or perceived difference in contents between such versions and/or in print, the prevailing version of an ETSI deliverable is the one made publicly available in PDF format on [ETSI deliver repository](#).

Users should be aware that the present document may be revised or have its status changed,
this information is available in the [Milestones listing](#).

If you find errors in the present document, please send your comments to
the relevant service listed under [Committee Support Staff](#).

If you find a security vulnerability in the present document, please report it through our
[Coordinated Vulnerability Disclosure \(CVD\)](#) program.

Notice of disclaimer & limitation of liability

The information provided in the present deliverable is directed solely to professionals who have the appropriate degree of experience to understand and interpret its content in accordance with generally accepted engineering or other professional standard and applicable regulations.

No recommendation as to products and services or vendors is made or should be implied.

No representation or warranty is made that this deliverable is technically accurate or sufficient or conforms to any law and/or governmental rule and/or regulation and further, no representation or warranty is made of merchantability or fitness for any particular purpose or against infringement of intellectual property rights.

In no event shall ETSI be held liable for loss of profits or any other incidental or consequential damages.

Any software contained in this deliverable is provided "AS IS" with no warranties, express or implied, including but not limited to, the warranties of merchantability, fitness for a particular purpose and non-infringement of intellectual property rights and ETSI shall not be held liable in any event for any damages whatsoever (including, without limitation, damages for loss of profits, business interruption, loss of information, or any other pecuniary loss) arising out of or related to the use of or inability to use the software.

Copyright Notification

No part may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm except as authorized by written permission of ETSI.

The content of the PDF version shall not be modified without the written authorization of ETSI.

The copyright and the foregoing restriction extend to reproduction in all media.

© ETSI 2025.
All rights reserved.

Intellectual Property Rights

Essential patents

IPRs essential or potentially essential to normative deliverables may have been declared to ETSI. The declarations pertaining to these essential IPRs, if any, are publicly available for **ETSI members and non-members**, and can be found in ETSI SR 000 314: *"Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards"*, which is available from the ETSI Secretariat. Latest updates are available on the [ETSI IPR online database](#).

Pursuant to the ETSI Directives including the ETSI IPR Policy, no investigation regarding the essentiality of IPRs, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in ETSI SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

Trademarks

The present document may include trademarks and/or tradenames which are asserted and/or registered by their owners. ETSI claims no ownership of these except for any which are indicated as being the property of ETSI, and conveys no right to use or reproduce any trademark and/or tradename. Mention of those trademarks in the present document does not constitute an endorsement by ETSI of products, services or organizations associated with those trademarks.

DECT™, **PLUGTESTS™**, **UMTS™** and the ETSI logo are trademarks of ETSI registered for the benefit of its Members. **3GPP™**, **LTE™** and **5G™** logo are trademarks of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners. **oneM2M™** logo is a trademark of ETSI registered for the benefit of its Members and of the oneM2M Partners. **GSM®** and the GSM logo are trademarks registered and owned by the GSM Association.

Legal Notice

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

The present document may refer to technical specifications or reports using their 3GPP identities. These shall be interpreted as being references to the corresponding ETSI deliverables.

The cross reference between 3GPP and ETSI identities can be found at [3GPP to ETSI numbering cross-referencing](#).

Modal verbs terminology

In the present document "**shall**", "**shall not**", "**should**", "**should not**", "**may**", "**need not**", "**will**", "**will not**", "**can**" and "**cannot**" are to be interpreted as described in clause 3.2 of the [ETSI Drafting Rules](#) (Verbal forms for the expression of provisions).

"**must**" and "**must not**" are **NOT** allowed in ETSI deliverables except when used in direct citation.

Contents

Intellectual Property Rights	2
Legal Notice	2
Modal verbs terminology.....	2
Foreword.....	4
1 Scope	5
2 References	5
3 to 8 Void.....	5
Annex A (informative): Change history	6
History	7

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

See TS 37.480 [8].

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] – [7] Void

[8] 3GPP TS 37.480: “E1 general aspects and principles”.

3 to 8 Void

9 E1 general aspects and principles

See TS 37.480 [8].

Annex A (informative): Change history

Change history							
Date	Meeting	TDoc	CR	Rev	Cat	Subject/Comment	New version
2018-02	R3#99	R3-181037	-	-	-	Skeleton	0.0.0
2018-02	R3#99	R3-181419	-	-	-	Editorial changes	0.1.0
2018-03	R3#99	R3-181596				Agreed text proposal R3-181425 on TEID allocation added to section 5.2; Agreed text proposal R3-181427 on Bearer Context management function and procedure added to section 5.1.2 and 6.2.	0.2.0
2018-04	R3#99bis	R3-181844	-	-	-	gNB-CU-CP / gNB-CU-UP is agreed as a formal name	0.3.0
2018-04	R3#99bis	R3-182498	-	-	-	E1 interface management function further detailed; gNB-CU-UP E1 Setup, gNB-CU-CP E1 Setup, gNB-CU-UP Configuration Update, gNB-CU-CP Configuration Update, E1 Release (FFS) introduced.	0.3.0
2018-04	R3#99bis	R3-182465	-	-	-	Bearer Context Inactivity Notification Procedure introduced.	0.3.0
2018-05	R3#100	R3-183579				E1 bearer context management function further updated by adding user inactivity notification, DL data arrival detection, data volume reporting and packet duplication.	0.4.0
2018-06	RAN#80	RP-180746				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	4	F	NR Corrections (38.460 Baseline CR covering RAN3-101 agreements)	15.1.0
2018-12	RAN#82	RP-182451	0005	1	F	CR to 38.460 on capacity information transfer via E1 interface	15.2.0
2018-12	RAN#82	RP-182451	0006	1	F	CR to 38.460 on overload information indication over E1	15.2.0
2018-12	RAN#82	RP-182451	0012	1	F	CR to 38.460 on PDCCP suspend indication over E1 interface	15.2.0
2018-12	RAN#82	RP-182451	0014	2	F	CR to 38.460 on notification for default DRB over E1	15.2.0
2018-12	RAN#82	RP-182447	0015	1	F	Introduction of Data Volume Reporting for MR-DC	15.2.0
2019-03	RAN#83	RP-190560	0017	1	F	CR to 38.460 on inactivity notification over E1	15.3.0
2019-07	RAN#84	RP-191399	0020	1	F	CR to 38.460 on clarifications for E1 bearer context management function and TEIDs allocation	15.4.0
2019-12	RAN#86	RP-192913	0021	2	F	Trace function Support over E1 Interface	16.0.0
2020-07	RAN#88-e	RP-201080	0029	5	B	CR to TS 38.460 on support of NPN	16.1.0
2020-07	RAN#88-e	RP-201082	0031	3	B	BLCR to 38.460: Addition of SON feature	16.1.0
2020-07	RAN#88-e	RP-201079	0034	2	B	Support of Ethernet Type	16.1.0
2020-07	RAN#88-e	RP-201075	0035	1	B	TS38.460 Stage2 Introduction of Mobility Enhancement Features	16.1.0
2020-07	RAN#88-e	RP-201074	0036	1	B	Support for Alternative QoS profiles over E1	16.1.0
2020-07	RAN#88-e	RP-201082	0038	1	B	BLCR to 38.460: Addition of MDT feature	16.1.0
2020-07	RAN#88-e	RP-201079	0039	1	B	PDCCP duplication with more than 2 entities for E1 stage 2	16.1.0
2020-12	RAN#90-e	RP-202312	0043	1	F	Introduction of D1 measurement transfer on E1AP	16.2.0
2020-12	RAN#90-e	RP-202312	0044		F	Support of direct data forwarding for inter-system HO	16.2.0
2021-03	RAN#91-e	RP-210231	0045	2	F	CR to 38.460: Supporting IAB function and procedure	16.3.0
2021-12	RAN#94-e	RP-212870	0049	2	F	CR for 38.460 on E1AP handling for unmapped DL QoS flows	16.4.0
2022-03	RAN#95-e	RP-220217	0054	3	F	E1 TS 38.460 specification transfer to TS 37.480	17.0.0
2024-03	SA#103	-	-	-	-	Update to Rel-18 version (MCC)	18.0.0
2025-09	SA#109	-	-	-	-	Update to Rel-19 version (MCC)	19.0.0

History

Document history		
V19.0.0	October 2025	Publication