ETSITS 141 101 V10.5.0 (2025-03)



Digital cellular telecommunications system (Phase 2+) (GSM); Technical Specifications and Technical Reports for a GERAN-based 3GPP system (3GPP TS 41.101 version 10.5.0 Release 10)



Reference RTS/TSGS-0041101va50 Keywords GSM

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 <u>Committee Support Staff</u>.

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.

DECTTM, **PLUGTESTS**TM, **UMTS**TM and the ETSI logo are trademarks of ETSI registered for the benefit of its Members. **3GPP**TM, **LTE**TM and **5G**TM logo are trademarks of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners. **oneM2M**TM 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 <u>ETSI Drafting Rules</u> (Verbal forms for the expression of provisions).

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

Contents

Intell	ectual Property Rights	2			
Legal	l Notice	2			
Modal verbs terminology					
Forev	vord	4			
1	Scope	5			
	References				
3	Abbreviations	5			
4	General	5			
5	Specifications and Reports				
	ex A (informative): Change history				
•					
HISTO	ory	- /			

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 identifies the 3GPP system specifications for Release 10. The specifications and reports of 3GPP Release 10 have a major version number 10 (i.e. 10.x.y). The listed Specifications are required to build a system based on GERAN radio technology.

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 TR 21.900: "Technical Specification Group working methods".

3 Abbreviations

For the purposes of the present document, the terms and definitions given in 3GPP TR 21.905 apply.

4 General

The numbering scheme for specifications is described in 3GPP TR 21.900 [2].

5 Specifications and Reports

The list of Technical Specifications and Technical Reports can be found at https://portal.3gpp.org/Specifications.aspx?q=1&tbid=All&releases=184&draft=False&underCC=True&withACC=False&tech=1&numberNYA=False

NOTE 1: The padlock icon on the right of each row indicates whether or not the documents are intended for adoption by the partner Standards Development Organizations as their own publications. Those with a padlock icon are internal working documents of the 3GPP TSGs.

NOTE 2: "Type" indicates Technical Specification (TS) or Technical Report (TR).

Annex A (informative): Change history

					Change history	
Date	TSG#	TSG Doc.	CR	Rev	Subject/Comment	New version
2001-06	SP-12	SP-010278	-	-	First draft	3GPP TS
						41.103
						version
0004 00 00	OD 40	00.040004			and detectable of some	0.0.0
2001-06-20	SP-12	SP-010384			updates table of specs	0.1.0
2001-09-12	SP-13	SP-010421			updates table of specs	1.0.0
2002-03-04	SP-15 SP-15	SP-020098 SP-020203			updates table of specs; adds columns for freeze info	1.1.0 1.2.0
2002-03-13	SP-15	SP-020203 SP-020274			updates table of specs updates table of specs, minor corrections	2.0.0
2002-06-03	SP-16	SP-020274 SP-020401			updates table of specs, minor corrections updates table of specs, minor corrections	2.0.0
2002-06-11	SP-16	SP-020401			updates table of specs, filliof corrections updates table of specs; sets unknown freeze target dates blank	2.2.0
2002-00-12	SP-16	3F-020411			approved	5.0.0
2002-09	SP-17	SP-020616	001	1	update list of specs; editorial corrections to spec titles	5.1.0
2002-09	SP-18	SP-020818		1		5.2.0
2002-12	SP-19	SP-020633			Correction to list of specs, editorial corrections to spec titles	5.3.0
2003-03	SP-19	SP-030077	003		Correction to list of specs, editorial corrections to spec titles Correction to list of specs	3GPP TS
2003-06	SP-20	SP-030229 SP-030235	004		Renumber from 41.103 to 41.101	41.101
		SP-030235			Renumber from 41.103 to 41.101	version
						5.4.0
						0.4.0
2003-12	SP-22	SP-030574	001		Correction to list of specs, editorial corrections to spec titles	5.5.0
2004-01					Correction to typo in previous line of this table.	5.5.1
2004-01					Correction to typo on cover page	5.5.2
2004-03	SP-23	SP-040221	003		Corrections to list of specifications	5.6.0
2004-06	SP-24	SP-040358			Corrections to list of specifications	5.7.0
2004-09	SP-25	SP-040604	007		Corrections to list of specifications	5.8.0
2004-12	SP-26	SP-040880	009	1	Corrections to list of specifications	6.0.0
2005-03	SP-27	SP-050126	012		Corrections to list of specifications	6.1.0
2005-06	SP-28	SP-050356			Corrections to list of specifications	6.2.0
2005-09	SP-29					
		SP-050462	016		Corrections to list of specifications	6.3.0
2005-12	SP-30	SP-050845	017	1	Corrections to list of specifications	6.4.0
2006-03	SP-31	SP-060167	019		Corrections to list of specifications	6.5.0
2006-09	SP-33	SP-060613	020		Corrections to list of specifications	6.6.0
2006-12	SP-34	SP-060901	021		Correction to list of Specs	6.7.0
2007-03	SP-35	SP-070188	024		Correction to list of Specs	6.8.0
2007-06	SP-36	SP-070344			Correction to list of Specs	6.9.0
2007-09	SP-37	SP-070519	026		Upgrade to Rel-7	7.0.0
2007-12	SP-38	SP-070770	030		Correction to list of Specs	
			034		Update of informative text	7.1.0
2008-12	SP-42	SP-080722	035	1	Correction to list of Specs	7.2.0
2009-03	SP-43	SP-090033	038	1	List of Rel-8 specifications	8.0.0
2009-06	SP-44	SP-090382	039	1	Correction to list of specifications	8.1.0
2009-12	SP-46	SP-090695	044	1	Correction to list of specifications	8.2.0
2010-03	SP-47	SP-10012	045		Update list of specs	9.0.0
2011-03	SP-51				Upgrade on freezing of Release	10.0.0
2011-06	SP-52	SP-110298	047	Correction to list of specifications		10.1.0 10.2.0
2012-03	SP-55	SP-120114	051	1	1 Changes to list of Specs: GERAN systems	
2013-03	SP-59	SP-130155	052		Update to list of specs	10.3.0
2014-06	SP-64 SP-140200 054 Update to list of specs		10.4.0			

Change history							
Date	Meeting	TDoc	CR	Rev	Cat	Subject/Comment	New version
2025-03	SA#107	SP-250233	0062	1	Α	Replacing list with 3GU specifications link	10.5.0

History

	Document history					
V10.0.0	April 2011	Publication				
V10.1.0	July 2011	Publication				
V10.2.0	March 2012	Publication				
V10.3.0	April 2013	Publication				
V10.4.0	July 2014	Publication				
V10.5.0	March 2025	Publication				