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**Digital cellular telecommunications system (Phase 2+) (GSM);
Technical Specifications and Technical Reports
for a GERAN-based 3GPP system
(3GPP TS 41.101 version 18.0.0 Release 18)**



Reference

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Keywords

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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).

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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 16. The specifications and reports of this Release have a major version number 16 (i.e. 16.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 [1] apply.

4 General

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

5 Specifications and Reports

NOTE 1: The "for publication?" column of the table below indicates whether or not the documents are intended for adoption by the partner Standards Development Organizations as their own publications. Those marked "no" are internal working documents of the 3GPP TSGs.

NOTE 2: Some of the algorithm specifications in the 35.-series are available only under licence.

NOTE 3: "Type" indicates Technical Specification (TS) or Technical Report (TR).

NOTE 4: For definition of "freezing" of specifications (last two columns), see 3GPP TS 21.900 [2].

The list of Technical Specifications and Technical Reports can be found at:

www.3gpp.org/dynareport/SpecList.htm?release=Rel-16&tech=1.

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 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-020098 | | | updates table of specs; adds columns for freeze info | 1.1.0 |
| 2002-03-13 | SP-15 | SP-020203 | | | updates table of specs | 1.2.0 |
| 2002-06-03 | SP-16 | SP-020274 | | | updates table of specs, minor corrections | 2.0.0 |
| 2002-06-11 | SP-16 | SP-020401 | | | updates table of specs, minor corrections | 2.1.0 |
| 2002-06-12 | SP-16 | SP-020411 | | | updates table of specs; sets unknown freeze target dates blank | 2.2.0 |
| | SP-16 | | | | approved | 5.0.0 |
| 2002-09 | SP-17 | SP-020616 | 001 | 1 | update list of specs; editorial corrections to spec titles | 5.1.0 |
| 2002-12 | SP-18 | SP-020833 | 002 | 1 | Correction to list of specs, editorial corrections to spec titles | 5.2.0 |
| 2003-03 | SP-19 | SP-030077 | 003 | 1 | Correction to list of specs, editorial corrections to spec titles | 5.3.0 |
| 2003-06 | SP-20 | SP-030229 | 004 | | Correction to list of specs | 3GPP TS 41.101 version 5.4.0 |
| | | SP-030235 | | | Renumber from 41.103 to 41.101 | |
| 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 | 005 | | 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 | 013 | | Corrections to list of specifications | 6.2.0 |
| 2005-09 | SP-29 | SP-050470 | 014 | | Change instances of Release 5 to Release 6 | 6.3.0 |
| | | SP-050462 | 016 | | Corrections to list of specifications | |
| 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 | 025 | | 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 | 7.1.0 |
| | | | 034 | | Update of informative text | |
| 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 |
| 2012-03 | SP-55 | SP-120114 | 051 | 1 | Changes to list of Specs: GERAN systems | 10.2.0 |
| 2013-03 | SP-59 | SP-130155 | 052 | | Update to list of specs | 10.3.0 |
| 2013-03 | SP-59 | SP-130155 | 053 | | Update to list of specs | 11.0.0 |
| 2014-06 | SP-64 | SP-140200 | 55 | | Update to list of specs | 11.1.0 |

| Change history | | | | | | | |
|----------------|---------|-----------|------|-----|-----|--|---------------|
| Date | Meeting | TDoc | CR | Rev | Cat | Subject/Comment | New version |
| 2016-03 | SA#71 | SP-160129 | 0057 | | F | Update to list of specs | 12.0.0 |
| 2016-05 | | | | | | Deletion of blank table in clause 5 | 12.0.1 |
| 2016-12 | SA#74 | SP-160972 | 0058 | 1 | F | Update to list of specs | 13.0.0 |
| 2017-03 | SA#75 | | | | | Promotion to Release 14 without technical change | 14.0.0 |
| 2017-06 | SA#76 | SP-170458 | 0059 | | F | Replace list of specs with pointer to web page showing up to date list | 14.1.0 |
| 2018-06 | SA#80 | | | | | Promotion to Release 15 without technical change | 15.0.0 |
| 2018-06 | | | | | | Include v15.0.0 line accidentally omitted from change history | 15.0.1 |
| 2020-07 | SA#88-e | | | | | Upgrade on freezing of Release 16. | 16.0.0 |
| 2022-03 | SA#95-e | | | | | Upgrade on freezing of Release 17. | 17.0.0 |
| 2024-03 | SA#103 | - | - | - | - | Update to Rel-18 version (MCC) | 18.0.0 |

History

| Document history | | |
|-------------------------|----------|-------------|
| V18.0.0 | May 2024 | Publication |
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