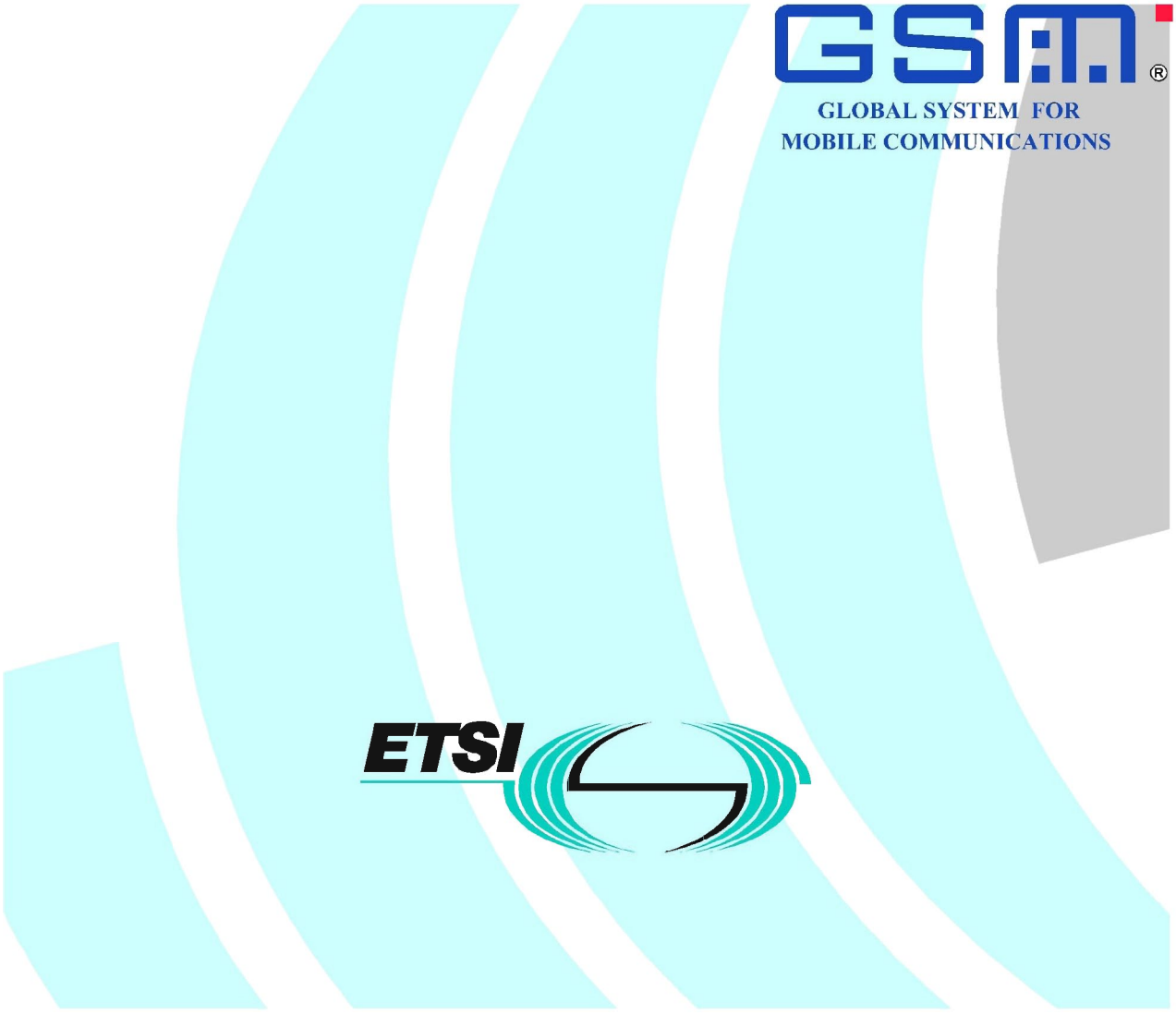
Technical Specification

Digital cellular telecommunications system (Phase 2+); Physical layer on the radio path; General description (GSM 05.01 version 6.1.1 Release 1997)



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Foreword

This ETSI Technical Specification (TS) has been produced by the Special Mobile Group (SMG) of the European Telecommunications Standards Institute (ETSI).

This TS is an introduction to the 05 series of the digital mobile cellular and personal communication systems operating in the 900 MHz (P-GSM, E-GSM, R-GSM) and 1 800 MHz band (GSM 900 and DCS 1 800).

The contents of this TS are subject to continuing work within SMG and may change following formal SMG approval. Should SMG modify the contents of this TS it will then be republished by ETSI with an identifying change of release date and an increase in version number as follows:

Version 6.x.y

where:

6 indicates release 1997 of GSM Phase 2+

y the third digit is incremented when editorial only changes have been incorporated in the specification;

x the second digit is incremented for all other types of changes, i.e. technical enhancements, corrections, updates, etc.

1 Scope

This ETSI Technical Specification (TS) is an introduction to the 05 series of the GSM technical specifications for GSM and DCS 1 800. It is not of a mandatory nature, but consists of a general description of the organization of the physical layer with reference to the technical specifications where each part is specified in detail. It introduces furthermore, the reference configuration that will be used throughout this series of technical specifications.

1.1 Normative references

References may be made to:

a) specific versions of publications (identified by date of publication, edition number, version number, etc.), in which case, subsequent revisions to the referenced document do not apply; or

b) all versions up to and including the identified version (identified by "up to and including" before the version identity); or

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d) publications without mention of a specific version, in which case the latest version applies.

A non-specific reference to an ETS shall also be taken to refer to later versions published as an EN with the same number.

[1] GSM 01.04: "Digital cellular telecommunications system (Phase 2+); Abbreviations and acronyms".

[2] GSM 03.03: "Digital cellular telecommunications system (Phase 2+); Numbering, addressing and identification".

[3] GSM 03.20: "Digital cellular telecommunications system (Phase 2+); Security related network functions".

[4] GSM 03.22: "Digital cellular telecommunications system (Phase 2+); Functions related to Mobile Station (MS) in idle mode and group receive mode".

[5] GSM 04.03: "Digital cellular telecommunications system (Phase 2+); Mobile Station - Base Station System (MS - BSS) interface; Channel structures and access capabilities".

[6] GSM 04.08: "Digital cellular telecommunications system (Phase 2+); Mobile radio interface layer 3 specification".

[7] GSM 04.21: "Digital cellular telecommunications system (Phase 2+); Rate adaption on the Mobile Station - Base Station System (MS-BSS) Interface".

[8] GSM 05.02: "Digital cellular telecommunications system (Phase 2+); Multiplexing and multiple access on the radio path".

[9] GSM 05.03: "Digital cellular telecommunications system (Phase 2+); Channel coding".

[10] GSM 05.04: "Digital cellular telecommunications system (Phase 2+); Modulation".

[11] GSM 05.05: "Digital cellular telecommunications system (Phase 2+); Radio transmission and reception".

[12] GSM 05.08: "Digital cellular telecommunications system (Phase 2+); Radio subsystem link control".

[13] GSM 05.10: "Digital cellular telecommunications system (Phase 2+); Radio subsystem synchronization".

[14] GSM 03.30: "Digital cellular telecommunications system; Radio network planning aspects".

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