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**Digital cellular telecommunications system (Phase 2+);
Universal Mobile Telecommunications System (UMTS);
Universal Geographical Area Description (GAD)
(3GPP TS 23.032 version 13.0.0 Release 13)**

3GPP A GLOBAL INITIATIVE
GSM® GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS

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Contents

Foreword

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

The present document defines an intermediate universal Geographical Area Description within the 3GPP system.

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:

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- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
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1 Scope

The present document defines an intermediate universal Geographical Area Description which subscriber applications, GSM or UMTS services can use and the network can convert into an equivalent radio coverage map.

For GSM or UMTS services which involve the use of an "area", it can be assumed that in the majority of cases the Service Requester will be forbidden access to data on the radio coverage map of a particular PLMN and that the Service Requester will not have direct access to network entities (e.g. BSC/BTS or RNC/Node B).

The interpretation by the PLMN operator of the geographical area in terms of cells actually used, cells that are partly within the given area and all other technical and quality of service aspects are out of the scope of the present document.

This specification also provides a description of velocity that may be associated with a universal Geographical Area Description when both are applied to a common entity at a common time.

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

[2] GSM 04.07: "Digital cellular telecommunications system (Phase 2+); Mobile radio interface signalling layer 3 General aspects".

[3] Military Standard WGS84 Metric MIL-STD-2401 (11 January 1994): "Military Standard Department of Defence World Geodetic System (WGS)".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the following definitions apply.

Service Requester: Entity, which uses the Geographical Area Description in any protocol to inform the network about a defined area.

Target: Entity whose precise geographic position is to be described.

3.2 Abbreviations

For the purposes of the present document, the abbreviations given in GSM 01.04 [1] and the following apply.

GAD	Geographical Area Description
GPS	Global Positioning System
WGS	World Geodetic System