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General Packet Radio Service (GPRS);
Serving GPRS Support Node (SGSN)
- Visitors Location Register (VLR);
Gs interface layer 3 specification
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Foreword

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

The present document specifies procedures used between the Serving GPRS Support Node (SGSN) and the Visitors Location Register (VLR) for co-ordination between GSM circuit switched services and GSM packet data services within the 3GPP system.

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Introduction

The present document specifies or references the procedures to provide co-ordination between the GSM circuit switched services controlled at the Visitors Location Register (VLR) and the GSM packet switched services controlled at the Serving GPRS Support Node (SGSN). The procedures specified in the present document are intended to optimise the use of the resources when an MS supports both GSM circuit switched services and GSM packet switched services.

1 Scope

The present document specifies or references procedures used on the Serving GPRS Support Node (SGSN) to Visitors Location Register (VLR) interface for interoperability between GSM circuit switched services and GSM packet data services.

The present document specifies the layer 3 messages and procedures on the Gs interface to allow coordination between databases and to relay certain messages related to GSM circuit switched services over the GPRS subsystem.

The functional split between VLR and SGSN is defined in 3GPP TS 23.060 [8]. The required procedures between VLR and SGSN are defined in detail in the present document.

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.
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- 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*.

2.1 Normative references

- [1] [Void]
- [1a] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
- [2] [Void]
- [3] [Void]
- [4] [Void]
- [5] 3GPP TS 23.003: "Numbering, addressing and identification".
- [6] 3GPP TS 23.007: "Restoration procedures".
- [6a] 3GPP TS 23.018: "Basic Call Handling; Technical realization".
- [7] [Void]
- [8] 3GPP TS 23.060: "General Packet Radio Service (GPRS); Service description; Stage 2".
- [8a] 3GPP TS 23.401: "General Packet Radio Service (GPRS) enhancements for Evolved Universal Terrestrial Radio Access Network (E-UTRAN) access".
- [9] [Void]
- [10] [Void]
- [11] 3GPP TS 24.008: "Mobile radio interface Layer 3 specification; Core network protocols; Stage 3".
- [11a] 3GPP TS 44.018: "Mobile radio interface layer 3 specification; Radio Resource Control Protocol".
- [12] 3GPP TS 44.064: "Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) layer specification".