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**Digital cellular telecommunications system (Phase 2+) (GSM);
Universal Mobile Telecommunications System (UMTS);
Technical realization of Operator Determined Barring (ODB)
(3GPP TS 23.015 version 14.0.0 Release 14)**



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Foreword

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

This TS describes the network feature Operator Determined Barring which allows a network operator or service provider to regulate access by subscribers to services 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 this TS, 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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1 Scope

The network feature Operator Determined Barring (ODB) allows a network operator or service provider to regulate access by subscribers to services (Circuit/Packet Oriented and Interworking WLAN), by the barring of certain categories of incoming or outgoing calls/ Packet Oriented Services or of roaming. Operator Determined Barring applies to all bearer services and teleservices except the Emergency Call teleservice and Emergency Bearer Services; the teleservice Short Message Point-to-Point is therefore subject to Operator Determined Barring in the same way as circuit-switched calls.

The application of specific categories of Operator Determined Barring to a subscription is controlled by the network operator or service provider, using administrative interaction at the HLR; this interface is not standardised.

1.1 Normative 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 TS 21.905: "Abbreviations and acronyms".
- [2] 3GPP TS 22.041: "Operator Determined Barring".
- [3] 3GPP TS 23.040: "Technical realization of the Short Message Service (SMS)".
- [4] 3GPP TS 23.060: " General Packet Radio Service (GPRS) Service description Stage 2".
- [5] 3GPP TS 29.234: Release 11 "3GPP system to Wireless Local Area Network (WLAN) interworking; stage 3".
- [6] 3GPP TS 23.401: "General Packet Radio Service (GPRS) enhancements for Evolved Universal Terrestrial Radio Access Network (E-UTRAN) access".

1.2 Definitions and abbreviations

Abbreviations used in this specification are listed in 3GPP TS 21.905.

2 Method of realisation

The entities which control the application of Operator Determined Barring (ODB), and the methods used, are described in this clause. Two cases are considered for each type of barring: the effect of administrative action in the HLR to modify the application of the category to a particular subscription, and the effect of the category on the handling of calls or other traffic involving the subscriber.

2.1 Barring of Outgoing Calls or Mobile Originated Short Messages

Barring of outgoing calls or mobile originated short messages includes the categories "outgoing calls" and "outgoing premium rate calls" defined in 3GPP TS 22.041 [2], and the "operator specific barring" category where this is defined by the PLMN operator to apply to outgoing calls or mobile originated short messages.