

ETSI TS 103 147 V1.1.1 (2013-06)



**Railway Telecommunications (RT);
GSM-R Core Network Redundancy**

(<https://standards.iteh.ai>)

Document Preview

[ETSI TS 103 147 V1.1.1 \(2013-06\)](https://standards.iteh.ai/catalog/standards/etsi/371ba123-4422-4a61-8f8b-a2ddc31f7b6a/etsi-ts-103-147-v1-1-1-2013-06)

<https://standards.iteh.ai/catalog/standards/etsi/371ba123-4422-4a61-8f8b-a2ddc31f7b6a/etsi-ts-103-147-v1-1-1-2013-06>

Reference

DTS/RT-0026

Keywords

GSM-R, railways

ETSI

650 Route des Lucioles
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C
Association à but non lucratif enregistrée à la
Sous-Préfecture de Grasse (06) N° 7803/88

(<https://standards.iteh.ai>)
Document Preview

Important notice

Individual copies of the present document can be downloaded from:

<http://www.etsi.org>

The present document may be made available in more than one electronic version or in print. In any case of existing or perceived difference in contents between such versions, the reference version is the Portable Document Format (PDF). In case of dispute, the reference shall be the printing on ETSI printers of the PDF version kept on a specific network drive within ETSI Secretariat.

Users of the present document should be aware that the document may be subject to revision or change of status. Information on the current status of this and other ETSI documents is available at

<http://portal.etsi.org/tb/status/status.asp>

If you find errors in the present document, please send your comment to one of the following services:

http://portal.etsi.org/chaicor/ETSI_support.asp

Copyright Notification

No part may be reproduced except as authorized by written permission.
The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 2013.
All rights reserved.

DECTTM, PLUGTESTSTM, UMTSTM and the ETSI logo are Trade Marks of ETSI registered for the benefit of its Members.
3GPPTM and LTETM are Trade Marks of ETSI registered for the benefit of its Members and
of the 3GPP Organizational Partners.
GSM[®] and the GSM logo are Trade Marks registered and owned by the GSM Association.

Contents

Intellectual Property Rights	4
Foreword.....	4
Introduction	4
1 Scope	5
2 References	5
2.1 Normative references	5
2.2 Informative references	5
3 Definitions and abbreviations.....	6
3.1 Definitions	6
3.2 Abbreviations	6
4 General description.....	7
4.1 Basic concept.....	7
4.2 Technical Requirements	7
4.3 System Architecture	8
5 Components of GSM-R Core Network Redundancy	8
5.1 Intra-domain connection of RAN nodes to multiple CN nodes (RANflex)	8
5.1.1 Main concept	8
5.1.2 References specifying RANflex	9
5.2 Coexistence of VGCS/VBS and RANflex	9
5.2.1 Main concept	9
5.2.2 References specifying "Coexistence of VGCS/VBS and RANflex"	10
5.3 GCSMSC and GCR Redundancy for VGCS/VBS	12
5.3.1 Main concept	12
5.3.2 References specifying "GCSMSC and GCR Redundancy for VGCS/VBS"	13
Annex A (informative): Bibliography.....	16
History	17