

Traffic and Travel Information (TTI) — TTI messages via cellular networks —

Part 8: GSM-specific parameters

ICS 35.240.60

National foreword

This Draft for Development is the official English language version of CEN/TS 14821-8:2003.

This publication is not to be regarded as a British Standard.

It is being issued in the Draft for Development series of publications and is of a provisional nature because technology in this area is rapidly evolving. It should be applied on this provisional basis, so that information and experience of its practical application may be obtained.

Comments arising from the use of this Draft for Development are requested so that UK experience can be reported to the European organization responsible for its conversion to a European standard. A review of this publication will be initiated 2 years after its publication by the European organization so that a decision can be taken on its status at the end of its 3-year life. Notification of the start of the review period will be made in an announcement in the appropriate issue of *Update Standards*.

According to the replies received by the end of the review period, the responsible BSI Committee will decide whether to support the conversion into a European standard, to extend the life of the Technical Specification or to withdraw it. Comments should be sent in writing to the Secretary of BSI Technical Committee EPL/278, Road transport informatics, at British Standards House, 389 Chiswick High Road, London W4 4AL, giving the document reference and clause number and proposing, where possible, an appropriate revision of the text.

A list of organizations represented on this committee can be obtained on request to its secretary.

Cross-references

The British Standards which implement European publications referred to in this document may be found in the *BSI Catalogue* under the section entitled “International Standards Correspondence Index”, or by using the “Search” facility of the *BSI Electronic Catalogue* or of British Standards Online.

Summary of pages

This document comprises a front cover, an inside front cover, the CEN/TS title page, pages 2 to 14, an inside back cover and a back cover.

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English version

**Traffic and Travel Information (TTI) - TTI messages via cellular
networks - Part 8: GSM-specific parameters**

This Technical Specification (CEN/TS) was approved by CEN on 10 May 2001 for provisional application.

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

CEN members are required to announce the existence of this CEN/TS in the same way as for an EN and to make the CEN/TS available. It is permissible to keep conflicting national standards in force (in parallel to the CEN/TS) until the final decision about the possible conversion of the CEN/TS into an EN is reached.

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Foreword

This document (CEN/TS 14821-8:2003) has been prepared by Technical Committee CEN/TC 278 " Road transport and traffic telematics " and the secretariat of which is held by NEN, in collaboration with Technical Committee ISO/TC 204 " Transport information and control systems ".

This CEN/TS was prepared by Working Group 7 of CEN TC278. In the field of Traffic and Traveller Information, the innovative rate is high, with many research and development projects under way in many countries, and there is a need to establish prospective standards which allow manufacturers to introduce competitive products to the market in the knowledge that they can accommodate the future issues of the standard(s) without fundamental change to equipment.

No known national technical specifications (identical or conflicting) exist on this subject.

CEN/TS 14821 consists of eight parts; one part describing the framework and seven parts providing detailed specifications of all components, protocols and services that are within the scope of CEN/TS 14821.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to announce this CEN Technical Specification: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.

Introduction

Traffic and Traveller Information (TTI) may be disseminated through a number of services or means of communication, covering static displays, portable terminals and in-vehicle equipment.

For all such services, the data to be disseminated, and the message structure involved in the various interfaces, require clear definition and standards formats in order to allow competitive products to operate with any received data.

This CEN/TS focuses on an application data specification whereby data is produced at a central location and is disseminated via a cellular radio network. It addresses the data specifications for both downlink and uplink existing between a central location and randomly located vehicles. It enables messages to be exchanged between different systems and service providers adopting a variety of applications specifications.

Other technical specifications are being produced by the CEN TC278 Working Group 4 to cover TTI dissemination via other means or services. This set of specifications is named GATS (Global Automotive Telematics Standard). GATS provides the modular framework for implementing such traffic telematics services on an open technology platform and is network - independent. In many details definitions are necessary to ensure interoperability. Therefore, in this network specific part of the standard those detailed definitions are given. With the development of future mobile communication systems towards UMTS / IMT2000 the bottleneck of narrow-band data communication might fade. Due to its modular structure, the GATS framework and applications are prepared for that due to its network-independence. The same holds for emerging technologies for positioning which today is almost exclusively based on GPS.

Other relevant standard developments are, independent from telematics, the application-independent Wireless Application Protocol (WAP), enabling mobile access to the Internet. It is understood that these emerging technologies might fit into the framework of telematics applications in future WAP-versions. For the time being, GATS already today independently from WAP enables access to telematics services. Utilisation of GATS on a WAP protocol stack and identifying necessary adaptation of WAP specifications (if any) is currently under investigation of the appropriate groups within WAP-Forum and GATS-Forum.