

E.161.1 (09/2008)

TELECOMMUNICATION STANDARDIZATION SECTOR OF ITU

SERIES E: OVERALL NETWORK OPERATION, TELEPHONE SERVICE, SERVICE OPERATION AND HUMAN FACTORS

International operation – Numbering plan of the international telephone service

Guidelines to select Emergency Number for public telecommunications networks

Recommendation ITU-T E.161.1

T-U-T



ITU-T E-SERIES RECOMMENDATIONS

OVERALL NETWORK OPERATION, TELEPHONE SERVICE, SERVICE OPERATION AND HUMAN FACTORS

INTERNATIONAL OPERATION	
Definitions	E.100-E.103
General provisions concerning Administrations	E.104-E.119
General provisions concerning users	E.120-E.139
Operation of international telephone services	E.140-E.159
Numbering plan of the international telephone service	E.160-E.169
International routing plan	E.170-E.179
Tones in national signalling systems	E.180-E.189
Numbering plan of the international telephone service	E.190-E.199
Maritime mobile service and public land mobile service	E.200-E.229
OPERATIONAL PROVISIONS RELATING TO CHARGING AND ACCOUNTING IN THE INTERNATIONAL TELEPHONE SERVICE	
Charging in the international telephone service	E.230-E.249
Measuring and recording call durations for accounting purposes	E.260-E.269
UTILIZATION OF THE INTERNATIONAL TELEPHONE NETWORK FOR NON- TELEPHONY APPLICATIONS	
General	E.300-E.319
Phototelegraphy	E.320-E.329
ISDN PROVISIONS CONCERNING USERS	E.330-E.349
INTERNATIONAL ROUTING PLAN	E.350-E.399
NETWORK MANAGEMENT	
International service statistics	E.400-E.404
International network management	E.405-E.419
Checking the quality of the international telephone service	E.420-E.489
TRAFFIC ENGINEERING	
Measurement and recording of traffic	E.490-E.505
Forecasting of traffic	E.506-E.509
Determination of the number of circuits in manual operation	E.510-E.519
Determination of the number of circuits in automatic and semi-automatic operation	E.520-E.539
Grade of service	E.540-E.599
Definitions	E.600-E.649
Traffic engineering for IP-networks	E.650-E.699
ISDN traffic engineering	Е.700-Е.749
Mobile network traffic engineering	E.750-E.799
QUALITY OF TELECOMMUNICATION SERVICES: CONCEPTS, MODELS, OBJECTIVES AND DEPENDABILITY PLANNING	
Terms and definitions related to the quality of telecommunication services	E.800-E.809
Models for telecommunication services	E.810-E.844
Objectives for quality of service and related concepts of telecommunication services	E.845-E.859
Use of quality of service objectives for planning of telecommunication networks	E.860-E.879
Field data collection and evaluation on the performance of equipment, networks and services	E.880-E.899
OTHER	E.900-E.999

For further details, please refer to the list of ITU-T Recommendations.

Recommendation ITU-T E.161.1

Guidelines to select Emergency Number for public telecommunications networks

Summary

The purpose of Recommendation ITU-T E.161.1 is to provide guidance to help Member States who are in the process of selecting a single emergency number for the first time, or selecting a secondary alternative emergency number for public telecommunications networks.

Source

Recommendation ITU-T E.161.1 was approved on 23 September 2008 by ITU-T Study Group 2 (2005-2008) under the WTSA Resolution 1 procedure.

FOREWORD

The International Telecommunication Union (ITU) is the United Nations specialized agency in the field of telecommunications, information and communication technologies (ICTs). The ITU Telecommunication Standardization Sector (ITU-T) is a permanent organ of ITU. ITU-T is responsible for studying technical, operating and tariff questions and issuing Recommendations on them with a view to standardizing telecommunications on a worldwide basis.

The World Telecommunication Standardization Assembly (WTSA), which meets every four years, establishes the topics for study by the ITU-T study groups which, in turn, produce Recommendations on these topics.

The approval of ITU-T Recommendations is covered by the procedure laid down in WTSA Resolution 1.

In some areas of information technology which fall within ITU-T's purview, the necessary standards are prepared on a collaborative basis with ISO and IEC.

NOTE

In this Recommendation, the expression "Administration" is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

Compliance with this Recommendation is voluntary. However, the Recommendation may contain certain mandatory provisions (to ensure e.g., interoperability or applicability) and compliance with the Recommendation is achieved when all of these mandatory provisions are met. The words "shall" or some other obligatory language such as "must" and the negative equivalents are used to express requirements. The use of such words does not suggest that compliance with the Recommendation is required of any party.

INTELLECTUAL PROPERTY RIGHTS

ITU draws attention to the possibility that the practice or implementation of this Recommendation may involve the use of a claimed Intellectual Property Right. ITU takes no position concerning the evidence, validity or applicability of claimed Intellectual Property Rights, whether asserted by ITU members or others outside of the Recommendation development process.

As of the date of approval of this Recommendation, ITU had not received notice of intellectual property, protected by patents, which may be required to implement this Recommendation. However, implementers are cautioned that this may not represent the latest information and are therefore strongly urged to consult the TSB patent database at <u>http://www.itu.int/ITU-T/ipr/</u>.

© ITU 2009

All rights reserved. No part of this publication may be reproduced, by any means whatsoever, without the prior written permission of ITU.

CONTENTS

Page

1	Scope			
2	References			
3	Definitions			
	3.1	Terms defined elsewhere	1	
	3.2	Terms defined in this Recommendation	1	
4	Abbreviations and acronyms			
5	Single initial Emergency Number			
6	Selection of a second alternative Emergency Number			
7	Emergency Numbers for mobile networks			
	7.1	PLMNs based on GSM/UMTS system	2	
Bibliography				

Recommendation ITU-T E.161.1

Guidelines to select Emergency Number for public telecommunications networks

1 Scope

This Recommendation is intended for use by Member States who are in the process of selecting:

- a) a single emergency number for the first time
- b) a secondary alternative emergency number.

Either emergency number will be made available to users and subscribers, and therefore the mapping of these numbers to technology requirements is considered out of scope of this Recommendation.

In the long run, this Recommendation will contribute to globally harmonized emergency numbers.

2 References

None.

3 Definitions

3.1 Terms defined elsewhere

This Recommendation uses the following terms defined elsewhere:

3.1.1 emergency call [b-ITU-T Q-Sup.47]: A call requesting emergency services. A caller is given a fast and easy means of giving information about an emergency situation to the appropriate emergency organization (e.g., fire department, police, ambulance). Emergency calls will be routed to the emergency services in accordance with national regulations.

3.1.2 country [b-ITU-T E.164-Sup.3]: A specific country, a group of countries in an integrated numbering plan or a specific geographical area.

3.1.3 universal subscriber identity module (USIM) [b-3GPP TR 21.905]: An application residing on the UICC used for accessing services provided by mobile networks, which the application is able to register on with the appropriate security.

3.2 Terms defined in this Recommendation

This Recommendation defines the following terms:

3.2.1 emergency number: A non-E.164 number allocated in the national numbering plan to enable emergency calls. Normally, the emergency number is a short code.

3.2.2 short code: String of digits in the national numbering plan, as defined by the national Numbering Plan Administrator which can be used as a complete dialling sequence on public networks to access a specific type of service/network. The short code is referred to as a non-E.164 number, and its length is normally shorter than a subscriber number.

1

4 Abbreviations and acronyms

This Recommendation uses the following abbreviations and acronyms:

GSM Global System for Mobile communications

IM IP Multimedia

ISIM IM Services Identity Module

ME Mobile Equipment

- PLMN Public Land Mobile Network
- SIM Universal Subscriber Identity Module
- UICC Universal Integrated Circuit Card
- UMTS Universal Mobile Telecommunications System
- USIM Universal Subscriber Identity Module

5 Single initial Emergency Number

A Member State that is planning to introduce an emergency number could use either 112 or 911, in adherence with applicable regulations concerning emergency numbers (e.g., the usage of 112 for EU Member States [b-EU 91/396/ECC]).

6 Selection of a second alternative Emergency Number

A Member State that is planning to introduce a second alternative emergency number could use either 112 or 911, or both, which should be routed to the existing emergency number. A second alternative emergency number facilitates, for example, emergency calling by travellers visiting the country.

7 Emergency Numbers for mobile networks

This clause give examples of how emergency numbers are used in terminals and identity module cards (e.g., SIM) for different kinds of mobile networks (PLMNs).

7.1 PLMNs based on GSM/UMTS system

For mobile equipment (ME) based on the GSM/UMTS system, there is a built-in recognition of the emergency numbers 112 and 911. If the SIM/USIM/ISIM card is not present in the ME, then, in addition to 112 and 911, the following national numbers will act in a similar way as national emergency numbers: 000, 08, 110, 999, 118 and 119 [b-3GPP TS 22.101]. It will be left to the Member State to decide whether the public telecommunications network accept emergency calls without the SIM/USIM/ISIM.

Bibliography

[b-ITU-T Q-Sup.47]	ITU-T Q-series Recommendations – Supplement 47 (2003), <i>Emergency</i> services for IMT-2000 networks – Requirements for harmonization and convergence.
[b-ITU-T E.164-Sup.3]	Recommendation ITU-T E.164 – Supplement 3 (2004), Operational and administrative issues associated with national implementations of the ENUM functions.
[b-EU 91/396/ECC]	EU Decision 91/396/EEC, Council Decision of 29 July 1991 on the introduction of a single European emergency call number. < <u>http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=CELEX:31991D0396:EN:HTML</u> >
[b-CEPT T/SF 1]	CEPT Recommendation T/SF 1 (The Hague 1972, revised at Puerto de la Cruz 1974, at Málaga-Torremolinos 1975, at Stockholm 1976 and by correspondence 1990), <i>Long term standardisation of national numbering plans</i> . < <u>http://www.ero.dk/7B962FB7-DA48-42ED-B1B9-</u> <u>AAE027EACF6F?frames=no&</u> >
[b-3GPP TR 21.905]	3GPP TR 21.905 V8.0.0 (2007-03), Vocabulary for 3GPP specifications. < <u>http://www.3gpp.org/ftp/Specs/html-info/21905.htm</u> >
[b-3GPP TS 22.101]	3GPP TS 22.101 V8.7.0 (2007-12), Service aspects, Service principles (Release 8). < <u>http://www.3gpp.org/ftp/Specs/html-info/22101.htm</u> >

SERIES OF ITU-T RECOMMENDATIONS

- Series A Organization of the work of ITU-T
- Series D General tariff principles
- Series E Overall network operation, telephone service, service operation and human factors
- Series F Non-telephone telecommunication services
- Series G Transmission systems and media, digital systems and networks
- Series H Audiovisual and multimedia systems
- Series I Integrated services digital network
- Series J Cable networks and transmission of television, sound programme and other multimedia signals
- Series K Protection against interference
- Series L Construction, installation and protection of cables and other elements of outside plant
- Series M Telecommunication management, including TMN and network maintenance
- Series N Maintenance: international sound programme and television transmission circuits
- Series O Specifications of measuring equipment
- Series P Telephone transmission quality, telephone installations, local line networks
- Series Q Switching and signalling
- Series R Telegraph transmission
- Series S Telegraph services terminal equipment
- Series T Terminals for telematic services
- Series U Telegraph switching
- Series V Data communication over the telephone network
- Series X Data networks, open system communications and security
- Series Y Global information infrastructure, Internet protocol aspects and next-generation networks
- Series Z Languages and general software aspects for telecommunication systems