

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

E.212

Amendment 1
(02/2007)

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

International operation – Maritime mobile service and
public land mobile service

The international identification plan for mobile
terminals and mobile users

**Amendment 1: Annexes to the international
identification plan for mobile terminals and
mobile users**

ITU-T Recommendation E.212 (2004) – Amendment 1

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	E.700–E.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.

ITU-T Recommendation E.212

The international identification plan for mobile terminals and mobile users

Amendment 1

Annexes to the international identification plan for mobile terminals and mobile users

Summary

This amendment introduces new annexes to ITU-T Rec. E.212.

Source

Amendment 1 to ITU-T Recommendation E.212 (2004) was approved on 8 February 2007 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. 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

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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 <http://www.itu.int/ITU-T/ipr/>.

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CONTENTS

	Page
Annex B – Principles for the assignment of mobile network codes (MNCs) within geographic MCCs	1
Annex C – Procedures for the assignment of an additional MCC to a country	3
Annex D – Use of mobile subscriber identification number (MSIN) within geographic MCCs.....	4

ITU-T Recommendation E.212

The international identification plan for mobile terminals and mobile users

Amendment 1

Annexes to the international identification plan for mobile terminals and mobile users

Add new Annexes B, C and D as follows:

Annex B

Principles for the assignment of mobile network codes (MNCs) within geographic MCCs

- 1) MNCs are to be assigned to permit the most effective and efficient use of a finite resource in order to defer, as long as practical, the need to request additional MCC resources.
- 2) MNCs are only to be assigned to, and used by, public networks offering public mobility services or to service providers for the purpose of achieving compatibility with networks that have mobility services.
- 3) A country's designated administrator may assign one MNC within a MCC allocated to that country by the ITU-T to the applicant if the applicant demonstrates compliance with the criteria established by the administrator. The administrator may assign additional MNCs if the applicant meets the criteria for additional assignments established by the national administrator, e.g., testing, national roaming, another mobile system, etc.
- 4) The assignment of MNCs to small geographic areas within a country is not recommended because it is not an efficient or effective use of the MNC resource.
- 5) MSINs are to be assigned by the MNC assignee to their subscribed mobile users. A mobile user may have multiple IMSIs.
- 6) IMSIs are a public resource. The assignment of any portion of an IMSI (i.e., MNC, MSIN) does not imply ownership of the resource by either the entity to which it is assigned or by the administrator.
- 7) Should an assignee transfer control of all or a portion of its business using its assigned MNC under an existing arrangement, then the use of the assigned MNC may be transferable by the administrator to the new service provider.
- 8) As required, applicants for MNCs must comply with all applicable regulations relative to the provisioning of public mobility services.

- 9) The MNC administrator should:
 - a) Assign MNCs in a fair, timely and impartial manner to any applicant that meets the criteria for assignment.
 - b) Assign MNCs on a first-come, first-served basis from the available pool of unassigned MNCs.
 - c) Make all assignments based on the procedures and criteria as detailed in assignment guidelines/conventions/regulations/laws.
- 10) MNC reclamation principles:
 - a) The MNC administrator may reclaim the resource if any of the principles or criteria for assignment is no longer fulfilled.
 - b) An MNC resource that is reclaimed may be available for assignment within a specified period of time. The MNC may be reassigned, if feasible, if a limited number of MSINs have been assigned by the former service provider. Duplicate MSINs within a reassigned MNC should not be permitted.

Annex C

Procedures for the assignment of an additional MCC to a country*

- 1) An Administration may request the assignment of an additional mobile country code (MCC) in writing to the Director of TSB.
- 2) An Administration may apply for a subsequent MCC when an existing MCC is approaching exhaust.
- 3) The Administration must provide substantiated information that this resource is approaching exhaust. Exhaust is defined as having less than 20% of the MNC resource available within an MCC, and the administration should notify the ITU TSB.
- 4) An additional assignment will be based on confirmation that the existing resource is being used in an efficient manner, e.g., the MNCs are assigned in an efficient and effective manner.
- 5) The written request should be submitted and signed by the Administration. This written request should include a planned date of implementation so that the ITU Operational Bulletin can be updated accordingly.
- 6) At the time of application, an Administration may also request the reservation of up to one additional MCC for future use. This reservation should be on an exception basis and the Administration should provide compelling evidence for the need for such a reservation. The evidence should demonstrate why the additional assigned MCC is not sufficient to address the emerging need for E.212 resources.
- 7) These procedures may be updated depending on the future needs and requirements of Administrations, the telecommunications industry, and the availability of unassigned E.212 MCC resources.
- 8) Designated administrators can notify the ITU TSB of MNC assignments according to the form published on <http://www.itu.int/ITU-T/inr/forms/mnc.html>.

* Whenever the term country is used in this annex, it identifies a specific country, a group of countries in an integrated numbering plan or a specific geographical area.

Annex D

Use of mobile subscriber identification number (MSIN) within geographic MCCs

As a general practice, many operators and service providers are using the initial or leading digits of the MSIN for allocating the resource. For example, they may use these digits of the MSIN to provide for:

- operational efficiencies;
- internal numbering planning;
- regulatory compliance;
- hardware and software accommodation;
- sharing the MNC resource amongst providers;
- identification of HLRs;
- identification of geographic areas.

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