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

International routing plan

Service principles when public circuit-switched international telecommunication networks interwork with IP-based networks

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FOREWORD

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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.

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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.

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Recommendation E.370

SERVICE PRINCIPLES WHEN PUBLIC CIRCUIT-SWITCHED INTERNATIONAL TELECOMMUNICATION NETWORKS INTERWORK WITH IP-BASED NETWORKS

Summary

This Recommendation defines the principles applicable to international public correspondence services provided by IP-based networks interworking with the ITU-defined, circuit-switched, public, international telecommunication networks (for example, the PSTN, ISDN and PLMN).

This Recommendation is applicable to those cases where the IP-based network is implemented by a separate service provider (e.g. ROA) from the service provider of the public, circuit-switched international telecommunication network. It does not cover the case where IP technology is integrated within the international telecommunication network of a single service provider.

Recommendation E.370

SERVICE PRINCIPLES WHEN PUBLIC CIRCUIT-SWITCHED INTERNATIONAL TELECOMMUNICATION NETWORKS INTERWORK WITH IP-BASED NETWORKS

1 Introduction

There is an increased availability of Internet Protocol (IP)-based networks on an international and a national basis. Users of these IP-based networks expect to be able to be connected with users of public, circuit-switched, international telecommunications networks. In order to ensure that the needs of both IP-based network users and circuit-switched, international telecommunication network users are met, principles of interworking between IP-based networks and the circuit-switched, international telecommunication networks are presented in this Recommendation.

2 Scope

This Recommendation defines the principles applicable to IP-based networks interworking with the ITU-defined, circuit-switched, international telecommunication networks (for example, the PSTN, ISDN and PLMN) for the purposes of providing international telecommunications services.

This Recommendation does not cover the case where IP is used as a transport technology within the international telecommunication network of a single service provider.

3 References

The following ITU-T Recommendations and other references contain provisions which, through reference in this text, constitute provisions of this Recommendation. At the time of the publication, the editions indicated were valid. All Recommendations and other references are subject to revision. All users of this Recommendation are therefore encouraged to investigate the possibility of applying the most recent edition of the Recommendation and other references listed below. A list of the current valid ITU-T Recommendations is regularly published.

- ITU-T Recommendation E.105, International Telephone Service
- ITU-T Recommendation E.106, International Emergency Preference Scheme
- ITU-T Recommendation E.164, The international public telecommunication numbering plan
- ITU-T Recommendation H.323, Packet-based multimedia communications systems

4 Definitions

IP-based network: a network in which the Internet Protocol is used as the ISO layer 3 protocol (OSI Reference Model).

5 Abbreviations

For the purpose of this Recommendation, the following abbreviations are used:

DTMF	Dual Tone Multi-Frequency
IP	Internet Protocol