



INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

Q.86.4

(06/97)

SERIES Q: SWITCHING AND SIGNALLING

Functions and information flows for services in the ISDN –
Supplementary services

Stage 2 description for charging supplementary services: International Freephone Service (IFS)

ITU-T Recommendation Q.86.4

(Previously CCITT Recommendation)

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ITU-T RECOMMENDATION Q.86.4**STAGE 2 DESCRIPTION FOR CHARGING SUPPLEMENTARY SERVICES:
INTERNATIONAL FREEPHONE SERVICE (IFS)****Summary**

Consistent with Recommendation E.152, International Freephone Service (IFS) Stage 1, this Recommendation constitutes the Stage 2 description for the service, including the functional architecture, Intelligent Network-based descriptions for normal IFS and optional features, and allocation of functional entities to physical locations. This Recommendation also provides Q.1200-Series references for information flows, SDL diagrams, and functional entity actions.

Source

ITU-T Recommendation Q.86.4 was prepared by ITU-T Study Group 11 (1997-2000) and was approved under the WTSC Resolution No. 1 procedure on the 5th of June 1997.

FOREWORD

ITU (International Telecommunication Union) is the United Nations Specialized Agency in the field of telecommunications. The ITU Telecommunication Standardization Sector (ITU-T) is a permanent organ of the ITU. The 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 Conference (WTSC), which meets every four years, establishes the topics for study by the ITU-T Study Groups which, in their turn, produce Recommendations on these topics.

The approval of Recommendations by the Members of the ITU-T is covered by the procedure laid down in WTSC Resolution No. 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.

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As of the date of approval of this Recommendation, the ITU had/had not received notice of intellectual property, protected by patents, which may be required to implement this Recommendation. However, implementors are cautioned that this may not represent the latest information and are therefore strongly urged to consult the TSB patent database.

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Recommendation Q.86.4

STAGE 2 DESCRIPTION FOR CHARGING SUPPLEMENTARY SERVICES: INTERNATIONAL FREEPHONE SERVICE (IFS)

(Geneva, 1997)

4 International Freephone Service (IFS)

4.1 Scope

This Recommendation defines the stage 2 service description for the call handling aspects of the international freephone service on the international Public Switched Telephone Network (PSTN). It is also applicable to IFS callers located on ISDNs or private networks directing calls towards IFS customers on the PSTN. It may be applicable to some degree to called IFS customers on ISDNs or private networks.

This Recommendation is specified according to the methodology defined in Recommendation Q.65 (1997).

This Recommendation does not formally describe the relationship between this supplementary service and basic call. Where possible, this information is included for guidance.

"The **international freephone service (IFS)** enables a customer in one country to be assigned one or more special telephone numbers in another country(ies) which allow callers in those countries to call the customer free of charge. All service and call-related charges are paid by the customer. " (4.1/E.152.)

This Recommendation is applicable to the stage 3 Recommendation for the IFS service. The term "stage 3" is also defined in Recommendation I.130. Where the text indicates the status of a requirement (i.e. as strict command or prohibition, as authorization leaving freedom, or as a capability or possibility), this shall be reflected in the text of the relevant stage 3 Recommendations.

Conformance to this Recommendation is met by conforming to the stage 3 Recommendations with the field of application appropriate to the equipment being implemented. Therefore no method of testing is provided for this Recommendation.

4.2 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 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 Recommendations and other references listed below. A list of the currently valid ITU-T Recommendations is regularly published.

- ITU-T Recommendation E.152 (1996), *International freephone service*.
- ITU-T Recommendation Q.1213 (1995), *Global functional plane for intelligent network CS-1*.
- ITU-T Recommendation Q.1214 (1995), *Distributed functional plane for intelligent network CS-1*.

- ITU-T Recommendation Q.1215 (1995), *Physical plane for intelligent network CS-1*.
- ITU-T Recommendation Q.65 (1997), *The unified functional methodology for the characterization of services and network capabilities*.

4.3 Definitions

This Recommendation defines the following terms.

4.3.1 IFS customer: The individual or entity who (or which) obtains an international freephone service from an IFS service provider, and is responsible for payment of all charges due to that IFS service provider.

4.3.2 IFS caller: The person who places a call to an IFS number.

These definitions are extracted from clause 3/E.152.

4.4 Symbols and abbreviations

This Recommendation uses the following symbols and abbreviations:

CCAF	Call Control Agent Function
CCF	Call Control Function
CID	Call Instance Data
CIDFP	Call Instance Data Field Pointer
CLI	Calling Line Identity
FE	Functional Entity
FIFO	First-In-First-Out
IFS	International Freephone Service
IN	Intelligent Network
ISDN	Integrated Services Digital Network
LE	Local Exchange
PNX	Private Network Exchange
PSTN	Public Switched Telephone Network
SCF	Service Control Function
SDF	Service Data Function
SDL	Specification and Description Language
SIB	Service Independent Building Block
SRF	Specialized Resource Function
SSF	Service Switching Function
TE	Terminal Equipment
TR	Transit Exchange

4.5 Description

Not applicable.