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INTERNATIONAL TELECOMMUNICATION UNION

**ITU-T**

TELECOMMUNICATION  
STANDARDIZATION SECTOR  
OF ITU

**F.180**

(10/96)

**SERIES F: NON-TELEPHONE TELECOMMUNICATION  
SERVICES**

Telematic services – Public facsimile service

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**General operational provisions for the  
international public facsimile service between  
subscribers' terminals (Telefax)**

ITU-T Recommendation F.180

Superseded by a more recent version

(Previously CCITT Recommendation)

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## FOREWORD

The ITU-T (Telecommunication Standardization Sector) is a permanent organ of the International Telecommunication Union (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 (Helsinki, March 1-12, 1993).

ITU-T Recommendation F.180 was revised by ITU-T Study Group 1 (1993-1996) and was approved by the WTSC (Geneva, 9-18 October 1996).

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## 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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## **SUMMARY**

This Recommendation defines the general operational provisions for the international public facsimile service. The revisions to this Recommendation are to align it with the recently agreed changes to the related T-Series Recommendations regarding the deletion of Group 1, Group 2 and A5/A6 size facsimile terminals. Some editorial changes have been made to align the terminology.



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Recommendation F.180

## GENERAL OPERATIONAL PROVISIONS FOR THE INTERNATIONAL PUBLIC FACSIMILE SERVICE BETWEEN SUBSCRIBERS' TERMINALS (TELEFAX)<sup>1</sup>

(revised in 1996)

### 1 General

**1.1** In accordance with the general conditions in Recommendation F.160, facsimile subscribers' terminals may participate in the international public facsimile service operated over the public telecommunication network, provided that their installations are compatible or that compatibility is ensured by the network, in terms of the characteristics specified in the relevant Recommendations.

**1.2** ROAs shall establish the conditions and procedures for connecting facsimile subscriber terminals to the public telecommunication networks in accordance with their regulations. However, terminals with automatic reception should in so far as possible be directly accessible to the calling terminals without manual intervention by an operator at the called subscriber's end (direct connection to the network without a manually served domestic exchange between).

**1.3** Facsimile terminals may be manual, automatic for incoming calls or fully automatic. Automatic reception is desirable. The operating procedures applicable in relations between the different types of terminals are set out in the relevant T-Series Recommendations.

NOTE – The operation of the public international facsimile service between subscribers' terminals and public bureaux (and vice versa) is the subject of Recommendation F.190.

### 2 Conditions of acceptance

**2.1** Calls between subscribers' terminals participating in the international public facsimile service shall in principle be accepted without any limits on duration. Nevertheless, the procedures prescribed for the public networks used shall also apply to the facsimile service between subscribers' terminals.

**2.2** Conditions relating to maximum format, quality of paper to be used and other practical and operational aspects shall be limited and prescribed by the characteristics of facsimile terminals, as laid down in the relevant Recommendations.

### 3 Service and privilege facsimile correspondence

**3.1** In accordance with Recommendations F.17 and D.192, service facsimile documents may be exchanged between the ROAs concerned for the purposes mentioned below:

- to exchange communications between the ROAs concerned for the efficient operation of the service as necessary, including communications in connection with subscribers' requests or enquiries (for example, directory information) with respect to the service;
- by agreement between ROAs, to exchange communications between the ROAs concerned in connection with other telecommunication services, in particular urgent communications which cannot be effected by other telecommunication means, e.g. by international telex or telegram services because they contain diagrammatic material or other material where it is important for the original to be exactly reproduced.

**3.2** Privilege telecommunications may be exchanged by Telefax where appropriate agreements exist. See Recommendation D.193 for the general operational and tariff principles

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<sup>1</sup> See Resolution No. 13, Fascicle I.2, *Blue Book*.

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## 4 Tariffs, refunds and accounting

**4.1** Tariffs, refund of charges and international accounting for the transmission of facsimile documents in the international public facsimile service between subscribers' terminals shall be governed by Recommendation D.71.

## 5 Service name

### 5.1 Telefax

**5.1.1** The public facsimile service between subscriber terminals on a public telecommunication network shall be known as the Telefax service.

**5.1.2** The service shall consist of the Telefax 3 and Telefax 4.

### 5.2 Telefax 3

**5.2.1** Telefax service using Group 3 terminals shall be known as Telefax 3.

**5.2.2** ROAs wishing to establish an international Telefax 3 service shall ensure that all terminals conform to the appropriate Recommendations and that international operational procedures and service quality (see clause 6/F.160) are observed.

### 5.3 Telefax 4

**5.3.1** Telefax service using Group 4 terminals shall be known as Telefax 4.

**5.3.2** ROAs wishing to establish an international Telefax 4 service shall ensure that all terminals conform to the appropriate Recommendations and that international operational procedures and service quality (see clause 6/F.160 and clause 6/F.184) are observed.

## 6 Directories

### 6.1 Compilation of directories

**6.1.1** As far as possible, each ROA shall publish a directory of its subscribers participating in the Telefax service at least once a year.

NOTE – Some ROAs may wish to provide the directory as an annex to another publication. Additionally, some may wish to place an identifying mark against entries in telephone directories to indicate Telefax subscribers.

**6.1.2** Directories should not be larger than 210 × 297 mm (A4).

**6.1.3** The directories sent to ROAs shall be set up in roman letters. When the directory is written in a language other than that used in the country to which it is sent, it shall contain an explanatory note to facilitate its use. This note shall be drawn up in whatever official language of the Union has been agreed upon by the ROAs concerned.

**6.1.4** The call number published shall be that which the calling subscriber has to select in order to obtain the called subscriber in accordance with the procedure prescribed in his own country.

### 6.2 Contents of directories

**6.2.1** As far as possible, directories shall contain at least, in alphabetical order of subscribers' names (subscribers of the same name being classified in the alphabetical order of the places where they are located):

- Column 1: subscriber's name and address, including the locality.
- Column 2: group of facsimile machine according to characteristics specified by the ITU-T, i.e.:
  - 3 or 4; or
  - 4/3 in the case of interworking between Groups 4 and 3 terminals.



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- Column 3: national call number of the facsimile subscriber's terminal, i.e.:
  - trunk code in parentheses ( );
  - subscriber's number (followed by an extension number if the terminal is connected to a PABX).

For a model, see Table 1.

**Table 1/F.180**

<b>Subscriber's name and address, including the locality 1</b>	<b>Facsimile equipment 2</b>	<b>Call number 3</b>
Laboratoires Durant Analyses médicales Rue Bellevue 108 1205 GENÈVE	3	(022) 56 12 14
Editions Petite Indienne Chemin du Baladin 91 1944 VILLEBRUNE	4/3	(031) 26 05 87

**6.2.2** It would be desirable for the directory also to contain supplementary information of assistance to the subscriber, as follows:

- telephone numbers for customer services such as faults, enquiries, test centre, sales departments;
- user procedures, both for national and international calls;
- general information about facsimile terminals, i.e. compatibility matters, facilities (unattended operation, serial numbering, etc.);
- information on any Bureaufax service provided by the ROA (general information, list of offices including call numbers, opening hours, tariffs, Bureaufax – Telefax interworking);
- information on public Telefax stations (general information, places, addresses, call numbers, opening hours, tariffs).

**6.2.3** It would be desirable for the directory to contain other lists of subscribers:

- classified according to type of business;
- in order of terminal identification.

### **6.3 Supply of directories**

**6.3.1** Each ROA publishing a directory shall supply, free of charge, to the ROAs with which it has Telefax relations a sufficient number of copies of its directories to meet the requirements of operating the service. This number shall be fixed in advance by mutual agreement and shall be regarded as applicable until a request to change it is received. Such request must be made not later than 1 February each year.

**6.3.2** Each ROA publishing a Telefax directory shall supply, against payment, to the ROAs with which it has Telefax relations a number of its directories to be put on sale. This number shall be fixed in advance by mutual agreement and shall be regarded as applicable until a request to change it is received. Such a request must be made not later than 1 February each year.

**6.3.3** A subscriber wishing to obtain a copy of the Telefax directory of another country must apply to his own ROA. If an ROA receives a direct application for a directory from a subscriber in a foreign country, it must forward the request to the ROA of the subscriber's country.

**6.3.4** An ROA that has supplied directories of its country intended for sale to another ROA shall indicate the equivalent in Special Drawing Rights (SDRs) of the sale price of the directories applied in the country of origin plus any postal charges.

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## 6.4 Accounting arrangements concerning the paid supply of directories for sale

**6.4.1** At least once a year and preferably at the end of the current period of the directories concerned, each ROA that has supplied another ROA with directories for which payment is due shall draw up a special account for the amounts due to it for such directory supplies, including the cost of dispatch, and shall send it to the last-named ROA for settlement. These amounts may be included in the monthly telephone or telex accounts depending on the bilateral arrangements made by ROAs.

**6.4.2** Except where the ROAs have agreed otherwise, no accounts shall be established for the paid supply of directories unless the total number of copies delivered to an ROA for sale exceeds 50. When the number is 50 or less, directories shall be delivered free of charge.

## 7 Interworking between services

**7.1** Interworking between Telefax 4 and Telefax 3 services must be provided (see also 5.1.4.2/F.184).

**7.2** Interworking between the Telefax and Bureaufax service is dealt with in Recommendation F.190.

**7.3** Interworking with other services: for further study.

**7.4** For Group 3 facsimile, a capability to operate at a rate of 64 kbit/s over the Integrated Services Digital Network (ISDN) is provided as a standardized option. There are two technical solutions for this option. One, based on G4 protocol, is defined in Annex F/T.4 and called Group 3 64 kbit/s option F (G3F) which interworks with G4 terminals directly. The other, based upon the T.30 ECM protocol, is defined in Annex C/T.30 and called Group 3 64 kbit/s option C which does not interwork directly with G4/G3F.

Interworking between G3C terminals and G3F/G4 terminals may be provided by multiple mode terminals using the procedure defined in Annex F/T.90.

**7.5** Table 2 shows a comparison of the basic and standardized optional features which have been defined for Group 3 and Group 4.

**Table 2/F.180**

Feature	Group 3			Group 4
	Group 3	G3C option	G3F option (Note 3)	
Resolution				
1728 pels × 3.85 l/mm	Basic			—
200 pels/in × 100 l/in	Option			—
1728 pels × 7.7 l/mm	Option			—
200 pels/in × 200 l/in	Option		Basic	
1728 pels × 15.4 l/mm	Option			—
200 pels/in × 400 l/in	Option			—
240 pels/in × 240 l/in	—		Option	
300 pels/in × 300 l/in	Option			
16 pels/mm × 15.4 l/mm	Option			—
400 pels/in × 400 l/in	Option			
Coding Schemes				
MH (Rec. T.4)	Basic			—
MR (Rec. T.4)	Option			—
MMR (Rec. T.6)	Option		Basic	
JBIG (Rec. T.82)	Option			
JPEG (Rec. T.81)	Option			

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Table 2/F.180 (concluded)

Feature	Group 3			Group 4
	Group 3	G3C option	G3F option (Note 3)	
Applied networks				
PSTN	Basic (Note 1)	–		–
ISDN 3.1 kHz audio using T/A	Option (Note 1)	Basic		–
ISDN 64 kbit/s unrestricted	–	Basic		Basic (Note 1)
CSPDN	–	–	–	Basic (Note 1)
PSPDN	–	–	–	Basic (Note 1)
Interworking	G3 (Note 2)	G3, G3C (Note 2)	G3, G3F, G4 (Note 2)	G3F, G4 (Note 2)
ECM	Option – multiple selective reject		Basic – Go – Back N	
Page sizes A4	Basic			
A3	Option			
B4	Option			
Coded character mode	Option			–
Mixed mode – simple	Option			–
Mixed mode – processable	Option			–
Binary File Transfer	Option			Option
Basic transfer mode	Option			Further study
Document transfer mode	Option			Further study
EDI	Option			Further study
Selective polling	Option			Further study
Sender identity	Option			Further study
Password for reception	Option			Further study
Sub-addressing	Option			Further study
Subscriber identification	Option – 20 numerical digits		Basic – 24 alpha-numeric maximum characters	
– Indicates feature not available				
NOTE 1 – Only one of the mentioned networks is necessary for a specific terminal.				
NOTE 2 – For Group 3 facsimile, a capability to operate at a rate of 64 kbit/s over the Integrated Services Digital Network (ISDN) is provided as a standardized option. There are two technical solutions for this option. One, based on G4 protocol, is defined in Annex F/T.4 and called Group 3 64 kbit/s option F (G3F) which interworks with G4 terminals directly. The other, based upon the T.30 ECM protocol, is defined in Annex C/T.30 and called Group 3 64 kbit/s option C which does not interwork directly with G4/G3F. Interworking between G3C terminals and G3F/G4 terminals may be provided by multiple mode terminals using the procedure defined in Annex F/T.90.				
NOTE 3 – For the G3F option, optional features may be available only in either G3 or G4 mode of operation.				

## 8 Public Telefax stations (public Telefax booths)

**8.1** A public Telefax station is an equipment comprising the facsimile terminal and the access to the network which an ROA places at the disposal of the public for the operation of the Telefax service.

**8.2** Public Telefax stations are operated in the same way as Telefax subscribers' terminal and form an integral part of the Telefax service.

**8.3** Where necessary, public Telefax stations are listed in the Telefax directory (see clause 6).

**8.4** The ROAs establish the conditions under which public Telefax stations are placed at the disposal of users.



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