



INTERNATIONAL TELECOMMUNICATION UNION

**ITU-T**

TELECOMMUNICATION  
STANDARDIZATION SECTOR  
OF ITU

**F.20**

**OPERATIONS AND QUALITY OF SERVICE  
TELEGRAPH SERVICES**

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**THE INTERNATIONAL GENTEX SERVICE**

**ITU-T Recommendation F.20**

(Extract from the *Blue Book*)

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## NOTES

1 ITU-T Recommendation F.20 was published in Fascicle II.4 of the *Blue Book*. This file is an extract from the *Blue Book*. While the presentation and layout of the text might be slightly different from the *Blue Book* version, the contents of the file are identical to the *Blue Book* version and copyright conditions remain unchanged (see below).

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

## **Recommendation F.20**

### **THE INTERNATIONAL GENTEX SERVICE**

The CCITT,

*unanimously declares*

- (1) that the following provisions should be adopted for the gentex service;
- (2) that Administrations should make arrangements for their offices to apply these provisions.

#### **1 General**

1.1 The gentex network is made up of telegraph offices, switching centres and telegraph channels, interconnecting the offices to switching centres and the switching centres to each other.

1.2 The gentex network is operated by fully automatic switching.

1.3 Gentex signalling shall be in accordance with CCITT Recommendations relative to telegraph switching technique.

#### **2 Call-numbers and answer-back codes**

2.1 Unless other arrangements are made, the call-number dialled by a gentex office to call a gentex office in another country is made up of:

- the prefix giving access to the called country from the calling country;
- the call-number of the called office, which must comprise figures only, up to a maximum of 8 figures; the call from the national network or another number especially selected for the purpose.

2.2 The answer-back codes of the equipment used in the gentex service are made up of 20 signals.

2.3 The composition of answer-back codes shall be in accordance with the provisions of Recommendation F.21.

#### **3 Equipment of positions in telegraph offices**

3.1 Transmitting or receiving positions in the gentex service shall be equipped with tape-printing or page-printing teleprinters using International Telegraph Alphabet No. 2, possessing an answer-back unit and able to work, if necessary, in simplex.

3.2 Positions shall be equipped for the following:

- the setting-up of calls;
- the clearing of calls;
- reception of the bell (figure J) signal;
- an alarm or transmission of the clearing signal if the paper runs out.

3.3 As far as possible, these positions shall also be equipped to signal the following:

- equipment out of service;
- tape broken;
- faulty tape feed.

3.4 In an office, the positions used in the gentex service can be grouped into those specializing in transmission and those specializing in reception. Administrations shall arrange this specialization so that the incoming grade of service shall not be less than the CCITT recommended limits.

3.5 Both-way and incoming-only positions in the same office shall all have a common call-number. When one of these positions is engaged or faulty, a call arriving at that office shall be directed to a free position in the same group.

#### 4 Routing lists

4.1 All countries taking part in the gentex service shall draw up a routing list containing information about the routing of traffic, and shall supply this list to the ITU for distribution to the other countries concerned. This list shall comprise:

- a) the telegraph offices connected to the gentex network. The sign  $\diamond$  shall precede the name of every office taking part in telegram transmission only, but available for a direct call when service correspondence has to be exchanged;
- b) offices that, while not connected, normally deal with a fair amount of international traffic.

4.2 Routing lists should be of the A4 size (210 × 297 mm) and should contain the following information:

- a) in the first column, the alphabetical list of the offices chosen in accordance with § 4.1 above (names of telegraph offices connected to the gentex network are in heavy type);
- b) in the second column, the call-number of the gentex office to be called for routing traffic to the office shown in the first column, with no restriction sign (a space is left in this column for inserting the prefix or prefixes to obtain access to the country concerned);
- c) in the third column, the answer-back codes of the offices connected to the gentex network, or of the gentex office serving an office that is not connected to this network (without the characteristic letter or letters of the specialized receiving positions);
- d) in the fourth column, the service hours of offices connected to the gentex network or of the gentex office serving an unconnected office, or in the indication *office* which *merely transmits*; service hours are given in local time. Some office work different hours on Sundays and public holidays, in which case the column is sub-divided and a list of public holidays is given at the beginning of the list. The abbreviations used in this column have the following meanings:  
  
N = office permanently open (day and night),  
P = office with extended service,  
– = office closed;
- e) in the fifth column, the name of the gentex office that should be called for alternative routing when the office given in the third column is closed, out of order or engaged. This information may also be provided in the preliminary note.

4.3 This list shall be preceded by a preliminary note indicating the routing of telegrams to offices not mentioned in the list.

4.4 When certain important gentex offices possess specialized positions to deal with service notes and advices, or specialized positions for the reception of fault notices, the call-numbers and answer-back codes of such positions shall appear in an annex to the routing list.

4.5 If a gentex exchange is equipped with an automatic test-phrase transmitter (with or without distortion) the call-number of such a transmitter shall also be indicated in this annex.

4.6 Examplex of the first part of a routing list and this annex appear in Tables 1/F.20 and 2/F.20 respectively.

Bureau télégraphique  <i>Telegraph office</i>  Oficina telegráfica	Central gentex desservant le bureau <i>Gentex office serving the office</i> Central géntex que sirve la oficina					Détournement en cas de clôture du service, d'occupation ou de dérangement du central gentex  <i>Alternative routing when the gentex office is closed, engaged or out of order</i>  Desviación en caso de cierre del servicio, de ocupación o de avería de la central géntex	
	Pré- fixe  <i>Pre- fix</i>	N° d'appel  <i>Call No.</i>	Indicatif  <i>Answer-back code</i>	Heures de service (H.E.C.) <i>Service hours (C.E.T.)</i> Horas de servicio (H.E.C.)			
				Lundi au Vendredi  <i>Monday to Friday</i>	Samedi  <i>Saturday</i>		Dimanches et jours fériés  <i>Sundays and holidays</i>
Pre- fijo  N.° de llamada	Distintivo	De lunes a viernes	Sábado	Domingos y días festivos			
1	2	3	4a	4b	4c	5	
Aachen	8311	8311 AACHEN D	N	N	N		
Aalen, Wuertt	7411	7411 ULM D	N	N	N		
Achern, Baden	7511	7511 OFFBG D	07-22	07-22	07-19	7711 FREIB D	
Ahrensburg	2071	2071 HAMB D	N	N	N		
	2031*	2031 HAMB D					
Alfeld, Leine	9111	9111 HAN D	N	N	N		
	9031*	9031 HAN D					
Alsdorf, Rheinl	8311	8311 AACHEN D	N	N	N		
Alsfeld	4911	4911 FULDA D	07-22	07-22	07-21	4811 GSSN D	
Altena, Westf	3111	3111 DTMD D	N	N	N		
	3031*	3031 DTMD D					
Altoetting	5611	5611 TRAUN D	07-22	07-20	07-20	5111 MCHN D 5031* MCHN D	
Amberg, Oberpf	6511	6511 RGSB D	N	N	N		
Andernach	4411	4411 KBLZ D	N	N	N		
Ansbach, Mittelfr	6111	6111 NBG D	N	N	N		
	6031*	6031 NBG D					
Arnsberg, Westf	3811	3811 MESCH D	07-22	07-22	07-22	3111 DTMD D 3031* DTMD D	
Arolsen	9411	9411 KASSEL D	N	N	N		
Aschaffenburg	4071	4071 FFM D	N	N	N		
	4031*	4031 FFM D					
Augsburg	5311	5311 AUGSB D	N	N	N		
Backnang	7111	7111 STGT D	N	N	N		
	7031*	7031 STGT D	N				
Bad Aibling	5111	5111 MCHN D	N	N	N		
	5031*	5031 MCHN D					
Bad Berleburg	3211	3211 SIEGEN D	07-22	07-22	07-22	3111 DTMD D 3031* DTMD D	
Bad Ems	4411	4411 KBLZ D	N	N	N		

\*Positions de réception avec téléimprimeurs sur page – *Receiving positions with page-printers* – Posiciones de recepción con teleimpresores en página.

TABLE 2/F.20

NUMÉROS D'APPEL DES POSITIONS SPÉCIALISÉES EN RÉP. FÉD. D'ALLEMAGNE  
 CALL NUMBERS OF SPECIALIZED POSITIONS IN FED. REP. OF GERMANY  
 NÚMEROS DE LLAMADA DE LAS POSICIONES ESPECIALIZADAS EN REP. FED. DE ALEMANIA

Service  <i>Service</i>  Servicio	Numéro d'appel  <i>Call Number</i>  Número de llamada	Texte des émetteurs d'indicatifs  <i>Text of answer-back codes</i>  Texto de los transmisores de distintivo
1	2	3
Position de renseignement – <i>Information position</i> – Posición de información: Frankfurt am Main ..... Hamburg .....	4058 2058	4058 FFM INF 2058 HAMB INF
Position de réception des avis de dérangement – <i>Position for reception of faulty notices</i> – Posición de recepción de avisos de avería: Frankfurt am Main ..... Hamburg .....	4051 2051	4051 FFM TCHN 2051 HAMB TCHN
Position de mesure de la distorsion arithmique – <i>Position for the measurement of start-stop distortion</i> – Posición de medida de la distorsión aritmética: Frankfurt am Main ..... Hamburg .....	4054 2054	410961 TPRMPL 210961 TPRMPL
Emetteur central de texte avec distorsion – <i>Central transmitter of text with distortion</i> – Transmisor central de texto con distorsión: Frankfurt am Main ..... Hamburg .....	4041 2041	} pas d'émetteur d'indicatif no answer-back code no hay transmisor de distintivo
Emetteur central de texte sans distorsion – <i>Central transmitter of text without distortion</i> – Transmisor central de texto con distorsión: Frankfurt am Main ..... Hamburg .....	4045 2045	

## 5 Telegram routing

5.1 Telegrams to an office that, whether or not connected to the gentex network, appears in the routing list shall be routed using the call number shown in the List.

5.2 Telegrams to an office that does not appear in the routing list shall be routed in accordance with the instructions given at the beginning of the routing list of the country in which the office is located.

## **6 Overflow**

6.1 Administrations may make arrangements for calls to be automatically routed to overflow positions when all the receiving positions of a called office are busy.

## **7 Prohibition of communications with telex subscribers in other countries**

7.1 An office connected to the gentex network shall not, under any circumstances, call a telex subscriber in another country. Where possible this prohibition shall be effected by the switching equipment.

7.2 Arrangements should also be made to prevent telex subscribers from obtaining access to gentex offices.

## **8 Operation of the gentex service**

8.1 The gentex service shall be operated in accordance with provisions in Recommendation F.1.