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TERMINAL EQUIPMENT AND PROTOCOLS FOR TELEMATIC SERVICES

TELETEX REQUIREMENTS FOR INTERWORKING WITH THE TELEX SERVICE

ITU-T Recommendation T.390

(Extract from the *Blue Book*)

NOTES

1 ITU-T Recommendation T.390 was published in Fascicle VII.5 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.

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**TELETEX REQUIREMENTS FOR INTERWORKING
WITH THE TELEX SERVICE**

(Malaga-Torremolinos, 1984)

1 General

1.1 Scope

1.1.1 Recommendation F.200 lays down the provisions for the operation of the automatic international Teletex service. In particular, Recommendation F.200 defines the basic service requirements and principles for interworking between Teletex and telex services via a conversion facility (CF).

1.1.2 Recommendation T.60 defines the requirements for terminal equipment used in the international Teletex service, including the interworking with telex terminals, and the conversion table to the telex repertoire in case of interworking.

1.1.3 Recommendation T.61 defines the character repertoire and the coded character sets for the Teletex service.

1.1.4 Recommendation T.62 defines the end-to-end control procedures to be used within the Teletex service as well as between a Teletex terminal and a Teletex/telex conversion facility (CF).

1.1.5 Recommendation T.70 defines the network-independent basic transport service applicable to Teletex terminals, as well as between a Teletex terminal and a CF.

1.1.6 This Recommendation defines the requirements additional to Recommendation T.62 for use between a Teletex terminal and a CF to provide interworking between Teletex and telex services, using store-and-forward principles, in the following cases:

- a) when the CF and Teletex terminal are in the same country, with message transfer in either direction;
- b) when the CF and Teletex terminal are in different countries, with message transfer in the CF to Teletex terminal direction. This is subject to bilateral agreement.

Note 1 – Due to practical operational difficulties such as charging, message transfer in the direction from a Teletex terminal to a CF in another country is not considered in this Recommendation.

Note 2 – The requirements of interconnection of CFs for the international interworking between Teletex and telex services are for further study.

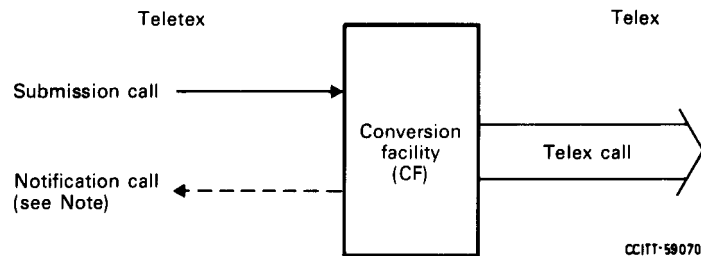
Note 3 – The real-time conversion operation is not considered in this Recommendation.

1.1.7 The provisions in this Recommendation are independent of the means and procedures for communication between the CF and the telex network. These are covered in Recommendation F.200.

1.2 Basic Teletex/telex interworking model

1.2.1 As illustrated in Figure 1/T.390 and in the single-message case, the communications between a CF and a Teletex terminal for the transfer of a message from Teletex to telex may consist of two calls, namely:

- a) a submission call initiated by a Teletex terminal to transfer to the CF a message prepared in the telex mode as per Recommendations F.200 and T.60, and related control information;
- b) a notification call initiated by the CF in which delivery or non-delivery information may be provided. This call is mandatory if the telex call is unsuccessful but optional if the telex call succeeds.



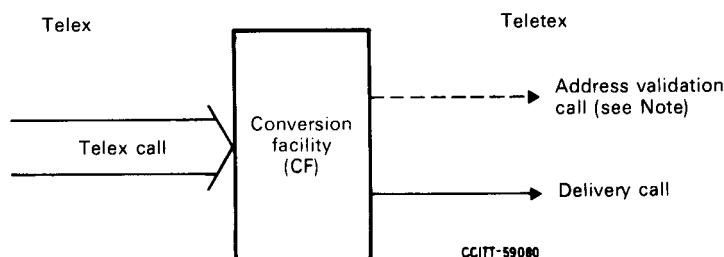
Note — A notification call is mandatory if the telex call is unsuccessful but optional if the telex call succeeds (see § 4.3.1).

FIGURE 1/T.390

Interworking model with message transfer from Teletex to telex

1.2.2 As illustrated in Figure 2/T.390, the communications between a CF and a Teletex terminal for the transfer of a message from telex to Teletex may consist of two calls, namely:

- a) an address validation call initiated by the CF to validate the called Teletex number. The requirement for this call is a national matter;
- b) a delivery call initiated by the CF to transfer to the Teletex terminal a message received from the telex terminal.



Note — The requirement for this call is a national matter (see Figure 2/F.201).

FIGURE 2/T.390

Interworking model with message transfer from telex to Teletex

1.2.3 For transferring additional control information between the Teletex terminal and the CF, *control documents* are used. A control document may be associated with one or more normal documents. This set will be called a *message*. All these normal documents should be in telex mode and shall be delivered by the CF as a single *telex message*. The control document need not be prepared in telex mode. An acknowledgement control document will refer to a message and not to individual documents.

2 Session elements of procedure

2.1 The session elements of procedure shall be in accordance with Recommendation T.62. However, the following qualifications shall apply:

2.1.1 The values of mandatory parameters used during session establishment shall be as given in Table 1/T.390.

2.1.2 The value of the “terminal identifier of the calling terminal” parameter in the CSS of the delivery call depends on whether the CF and Teletex terminal are in the same or different countries.

2.1.2.1 When the CF and Teletex terminal are in the same country, it may be either the terminal identification of the CF or, alternatively, the terminal identifier derived from the calling telex answerback (A/B) in one of the following forms in which optional fields are enclosed in parentheses:

8 – = <A/B>

8<TDC> – = <A/B>

8 < TDC > – < A/B number > (– < A/B machine identity >) = (< A/B subscriber >)

Note 1 – <A/B> is the value of the answerback received from the telex terminal after the deletion of the CR LF characters, if present.

Note 2 – < TDC > is the value of the Recommendation F.69 “telex destination code” of the originating network.

Note 3 – < A/B number > is the subscriber number part of the received < A/B >, as described in Note 1, which conforms to Recommendation F.60.

Note 4 – < A/B machine identity > is the optional machine identity part of the received < A/B >, as described in Note 1, which conforms to Recommendation F.60.

Note 5 – < A/B subscriber name > is the optional subscriber name part of the received < A/B >, as described in Note 1, which conforms to Recommendation F.60. This may also include the telex network identification code.

TABLE 1/T.390

Mandatory parameter values during session establishment

T.62 parameters	Call type			
	Submission	Notification	Address validation	Delivery
Terminal identifier of the calling terminal (in CSS)	TTX's TID	CF's TID	CF's TID	See § 2.1.2
Terminal identifier of the called terminal (in RSSP)	CF's TID	TTX's TID	TTX's TID	TTX's TID
Date and time	Submission call originating date and time by TTX	Notification call originating date and time by CF	Address validation call originating date and time by CF	Delivery call originating date and time by CF
Service identifier	Teletex	Teletex	Teletex	Teletex

TID Terminal Identification

TTX Teletex Terminal

CF Conversion facility

2.1.2.2 When the CF and Teletex terminal are in different countries, it shall be the terminal identification of the CF in accordance to the format specified in Recommendation F.201. The calling telex answerback shall be contained in the text of the normal document in the format and at the point at which it was obtained by the CF.