

# Principles of the Document Interchange Protocol for CCITT Telematic Services

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The capabilities of the Recommendation by the CCITT

## Introduction

**D**OCUMENT HANDLING—that is, creation, revision, interchange, printing, filing, retrieval, and reprocessing of documents—is one of the main activities in the office world. The term *document* refers, in the broader sense, to human-understandable information used to support and control office procedures. It also includes messages and other kinds of information not usually considered to be a document.

One of the basic requirements for efficient document handling, by electronic means, is the integration of document processing and communications. This integration was one of the main guidelines in the development of the Telex service. Terminals and systems within the Telex service offer creation, processing, transmission, and reproduction of typewritten documents. The basic repertoire of the Telex graphic character comprises all letters, symbols, and figures (109 characters in all) that occur in those languages using the Latin alphabet. The control functions have been selected in such a manner that layouts produced on office typewriters can be transmitted and reproduced identically [1-4].

Statistical surveys by the German Bundespost had shown that about a half of 46 million letters, transported every day in Germany, can be transmitted by telecommunication means, and that approximately 7 million pure text letters are suitable for transmission by the Telex service.

Documents may, however, also contain several kinds of images—for example, letterheads, logos, form layouts, signatures, handwritten annotations, and diverse graphics.

Efficient local handling, interchange, creation, and reprocessing of mixed text/image documents requires structuring aids and interchange protocols. Recognizing this need, the main international standardization bodies (ISO, ECMA, and CCITT) have been developing appropriate concepts in close cooperation. CCITT has elaborated the Document Interchange Protocol for the Telematic services as the Recommendation T.75 [5] and has defined the main characteristics of mixed mode terminals in Recommendation T.72 [6]. (The capabilities of which will be presented in this paper.)

## The Protocol Architecture for Telematic Services

The layered protocol architecture of the Telematic services lines up with the ISO OSI Basic Reference Model. The transport-oriented protocols for layers 1 to 4 are laid down in CCITT Recommendation L.70 (formerly S.70) and the session layer protocol in T.62 (formerly S.62) [7,8].

In their present form, the T.70 protocols provide for access to circuit- and packet-switched data networks, as well as to public-switched analog telephone networks. Accordingly, the recommended physical interfaces are X.21 or X.21 bis for data networks and V.24 for telephone networks. The L.70 protocols can easily be extended to achieve the access to Integrated Services Digital Network (ISDN).

The T.62 protocol comprises all session functions needed for bulk-data-transfer and interactive applications. The main part of this protocol is compatible with the Basic Activity Subset (BAS) of the generalized ISO session protocol. The T.62 Interactive Session Protocol offers the same functions as the Basic Combined Subset (BCS) of the generalized ISO session protocol [9,10].

The T.70 and T.62 protocols are used for reliable transfer of Telex, Facsimile Group 4, and Mixed Mode documents. Due to their general concept, they apply equally well to a wide range of other applications, such as message handling, file transfer, and database access [11].

The Document Interchange Protocol, scanning structuring aids for transmission and creation of documents, is embedded in the Telematic protocol architecture as shown in Fig. 1.

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