



INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

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STANDARDIZATION SECTOR
OF ITU

V.100

DATA COMMUNICATION OVER THE TELEPHONE NETWORK

INTERCONNECTION BETWEEN PUBLIC DATA NETWORKS (PDNs) AND THE PUBLIC SWITCHED TELEPHONE NETWORKS (PSTN)

ITU-T Recommendation V.100

(Extract from the *Blue Book*)

NOTES

1 ITU-T Recommendation V.100 was published in Fascicle VIII.1 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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Recommendation V.100

INTERCONNECTION BETWEEN PUBLIC DATA NETWORKS (PDNs) AND THE PUBLIC SWITCHED TELEPHONE NETWORKS (PSTN)

(Malaga-Torremolinos, 1984)

The CCITT,

considering that

- (a) a data station may have an ingoing or outgoing access to a packet switched public data network (PSPDN) via the national¹⁾ PSTN;
- (b) the transmission characteristics of the data station may not be known at the PSPDN access level;
- (c) in this case, the transmission characteristics have to be negotiated between modems before establishing the connection;
- (d) half-duplex modems as well as full duplex modems may be used;

proposes

that Administrations may optionally introduce the following handshaking procedures including the types of modems to be supported.

1 Procedure description

According to the type of modem (see Table 1/V.100), a half-duplex or a duplex procedure is used.

1.1 Half-duplex procedure

See Figure 1/V.100.

1.1.1 Answer mode modem

- a) Following the transmission of the answer sequence in accordance with Recommendation V.25, the modem shall apply an ON condition to circuit 107, and then transmit a segment S1 in accordance with Table 1/V.100 for 294 ms. Interchange circuits 106 and 109 are in the OFF condition during the procedure.
- b) The modem remains silent until it detects S2 (defined in Table 1/V.100) or the synchronizing signals of a V.27 *ter* modem in the fallback mode.
- c) Then the modem conditions itself to the selected mode or disconnects.

If no response is detected within 2 seconds following the end of the S1 transmission, the modem resumes transmitting S1.

1) International access to a PSPDN via PSTN is not envisaged.