Standard ECMA-277

PISN - Circuit Emulation Specification - Emulation of Basic Access by ATM Networks

(June 1998)

This Standard specifies the functions for the emulation of a basic access over ATM, thus providing an efficient way to connect existing N-ISDN terminal equipment to a PINX over a digital ATM section. Such an ATM connection can be either a (semi-)permanent connection, but might also be a switched virtual connection as defined in related ATM Forum specifications.

The objective of this Standard therefore is to specify a mapping scheme for the three types of basic access information (two B channels: the B1 and B2 channels, the D channel as well as maintenance/control/status information) into ATM cells. Part of the maintenance/control/status information has to be terminated by an IWU and has to be substituted by other information applicable at the ATM connection. A reference configuration lays down that the point of emulation has to be placed at the network side of an extension line.

This Standard specifies the static mapping of basic access information to ATM cells.

This Standard complements the work of the ATM Forum on circuit emulation services for higher bandwidth.

This Standard applies for private networks, however, it is also suitable for public networks.

The following files are provided in this set of CD-ROMs:

File name	Size (Bytes)	Content
ECMA-277.PDF	88'754	Acrobat PDF file
ECMA-277.PSC	500'043	Corresponding PostScript file

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