

End-to-End Error Control Protocol

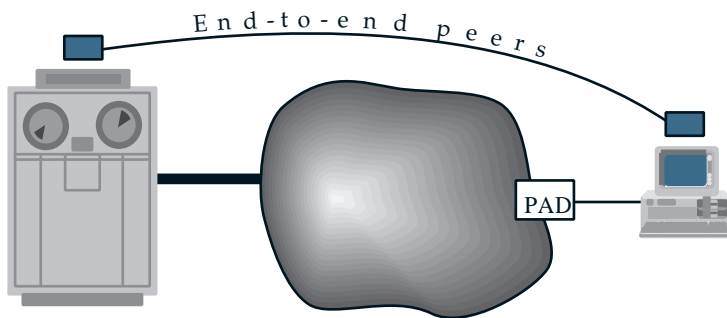
with Optional Data Compression

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Applications

End-to-end error control, with optional compression, for applications such as:

- Graphical front-ends for information services
- Custom client-server remote access programs
- Remote access to local area networks
- Bridges & Gateways



Written in C++ as part of a polymorphic HDLC framework, this driver implements LAPM and is designed to be very small, portable, and device executive independent. It is extremely efficient and configurable to enhance response time and/or throughput.

Verisons are available for both asynchronous (using AFT) and synchronous transmission.

V.42 bis compression option[†]

Data compression is available with the driver. The compression module is CCITT V.42 bis compliant, offering up to a 4:1 compression ratio. Unlike other compression schemes, V.42 bis never expands data.

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Reasonable source code license terms.

Estimated sizes

LAPM approx. 20k, + 10k RAM for frame buffer
V.42 bis 8k + from 20k to 32k RAM for dictionary

Environments

- Linkable library (MetroWerks, Borland, Microsoft, Microtech)
- PC TSR (callable directly or via INT 14 or NASI)
- Windows DLL
- Macintosh Communications Toolbox Connection Tool
- Embedded in any peripheral using any executive
- SUN Unix
- VAX VMS
- Windows NT

Asynchronous transmission uses Start/Stop HDLC (ISO 3309), also known as the Asynchronous Framing Technique (AFT).

Parameters

Default window size (k) 15
Default max frame size (N401) 128
Retry Timer (T401) dynamically determined
Idle Timer (T403) 10 x T401

Negotiation ISO 8885 (XID)

AFT Transparency Modes

DLE-FLAG Level 0
XON/XOFF Level 1
All control codes Level 2
Eight-bit (in combination with above)

Additional Features

- Supports entry/exit of error control on the fly.
- Special detection, transparency, and processing hooks facilitate operations over public network (X.3) PADs worldwide.

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[†]V.42 bis may require an additional license from IBM, Unisys, and British Telecom.