

CLEO Protocol Comparison Chart

Protocols assist file transfer by outlining a standard procedure for regulating data transmission between partners. Each protocol listed below has its own set of advantages and limitations. Depending on your business needs and trading partner requirements, one or many of the protocols may be appropriate for your business. All of the protocols listed below are supported in **CLEO VLTrader™** and **CLEO LexiCom.™**

Standard File Transfer Protocols	Privacy		Authentication			Integrity*	Non-Repudiation		Message Size	Compression*	Speed	Restart	Certified	Firewall Friendly	Architecture
	Transport Encryption	Payload Encryption*	Username & Password	Client Authentication	Session Authentication		Receipt	Signing*							
SMTP									Sm		High			Yes	Peer-to-Peer
MLLP									Sm - Med		High			Yes	Peer-to-Peer
SMTPs	Yes			Yes					Sm		High			Yes	Peer-to-Peer
OFTP			Yes				Yes		Sm - Med		Med	Yes		Yes	Client-Server
FTP			Yes						Sm - Lg		High	Yes			Client-Server
HTTP			Yes						Sm - Med		High			Yes	Client-Server
FTPs	Yes		Yes	Yes					Sm - Lg		High	Yes			Client-Server
HTTPs	Yes		Yes	Yes					Sm - Med		High			Yes	Client-Server
SSH FTP	Yes		Yes	Yes		Yes		Yes	Sm - Lg		Med	Yes		Yes	Client-Server
AS3	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Sm - Med	Yes	Med		Yes		Client-Server
RNIF	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Sm	Yes	Med			Yes	Peer-to-Peer
ebMS 2.0	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Sm - Med	Yes	Med		Yes	Yes	Peer-to-Peer
AS2	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Sm - Lg	Yes	Med	Yes	Yes	Yes	Peer-to-Peer
OFTP2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Sm - Lg	Yes	Med	Yes		Yes	Client-Server
Web Services	Functionality varies widely. These items are controlled by the WSDL and Security Policy set by the server.														Client-Server
Proprietary Protocols															
<i>fasp™</i>	Yes		Yes	Yes					Sm - Lg		Very High	Yes			Client-Server
IBM® WebSphere® MQ	Yes		Yes	Yes					Sm - Med		Med			Yes	Client-Server

Notes:
*PGP packaging can be added to all of the above protocols to provide payload encryption, integrity, signing and compression.