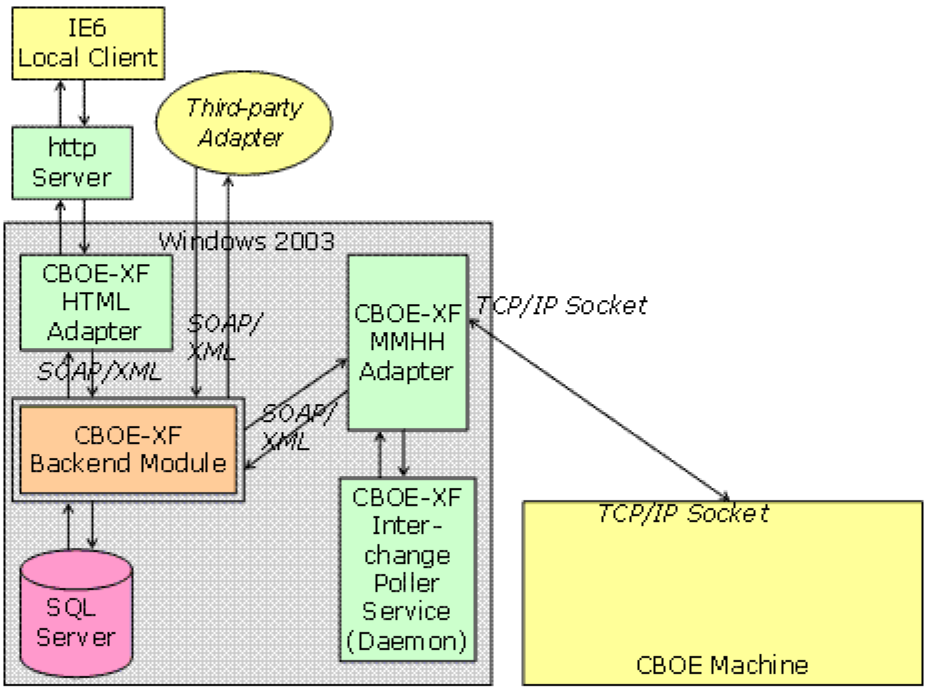
... *putting IT in Perspective.*

Project Name	**CBOE/XF**
Description	**CBOE Interface for VC++ Trading Application**
Customer	**OLM IL**
Size	**4 Man-years**
Technology	**VC++, SQL Server, SOAP/XML, Web Services**



CBOE-XF is a generic web-service based implementation of a wrapper around the MMHH datafeed of the Chicago Board Options Exchange (CBOE). The system allows any third-party system to send orders to CBOE and receive trade bust/confirmation notices. The system backend is implemented with a SOAP/XML based web-services interface. The backend interfaces with 3 types of clients:

CBOE-XF Adapter	This is the adapter for the MMHH Interface
HTML Adapter	This adapter enables local editing and viewing of Trade messages
Third-party Adapter	This piece is to be developed by the customer or another vendor to integrate a third-party system with CBOE-XF

Outward Transmissions: CBOE-XF allows client applications to consume web-services produced by it for submission of orders, amendments and cancellations to CBOE.

Inward Transmissions: CBOE-XF receives updates from CBOE (unsolicited messages) and can pass them to the third-party app either through a callable stub or MSMQ or as a web-service consumer. These include Unsolicited ETN messages, trade-busts and confirmations.