

ETF technical environment:

The development environment consists of:

Category	Vendor	Product Name	Development/ Implementation Computing Platform
Development	IBM	Rapid Application Developer v 7.1	Windows XP
Development	Ehelp	RoboHelp	Windows/Linux
Development	GNU (Open Source)	CVS Code Repository	Linux
Analysis & Design	IBM	R.U.P. Methodology (Rational Rose)	Windows XP
Testing	RADVIEW	WebLOAD	Windows
Testing	IBM	WebSphere Application Server V 6.1	Linux

ETF's application architecture consists of:

Component	Product
Presentation (Web) Tier	JSP, HTML, XML, Struts, Spring, Spring JDBC.
Business (Application) Tier	Simple Java Objects
Persistence (Date) Tier	DAO, Hibernate
Web Server	IBM HTTP
Application Server	WebSphere V6.1
GUI	IE Explorer 7.0 or Firefox 2.0
Server Side Language	Java 1.5
Software Configuration Management	Rapid Application Developer V7.1
Automated Testing Tools	WebLOAD
Data Modeling	ERWIN
Ehelp	RoboHelp
Methodology	Rational Unified Process
Industry Standards	J2EE 1.5
Integrated Development Environment	Rapid Application Developer V7.1
Protocol	HTTP, LDAP, HTTPS, FTP, TCP/IP
Esearch	Search Engine
XML Tools	Rapid Application Developer V7.1
Usability Guidelines	ADA
Workflow	Step2000 V8.2
Imaging	Content Manager V8.3
Messaging	JMS/MQ Series
Reporting	AFP, Isis, IBM InfoPrint Server, Crystal Reports, JASPER

ETF's deployment environment consists of:

Category	Vendor	Product name	Development/ Implementation Computing Platform
Software packaging	Apache	ANT Build Scripts	Windows XP
Deployment	IBM	WebServer (IBM HTTP Server) V 6.1	Linux
Deployment	IBM	WebSphere Application Server V6.1	Linux
Deployment	IBM	DB2 for z/OS 8	z/OS
User Acceptance Testing	Microsoft	IE 7.0	Windows/Linux
	Netscape	Fire fox 2.0	