



Integration that makes sense

Protocol Proxy: Secure B2B Communications Server

Business Integration Technology's Solution to Network Security and Complexity

Protocol Proxy is a lightweight replacement to standard protocol services (FTP, SFTP, HTTP, HTTPS) that is deployable in the DMZ.

This allows you to eliminate the need to open "holes" in the firewall of the secure internal network while still being able to service a wide variety of standard messaging protocols. **NO** connections are made from the DMZ to the secure internal network, thus keeping the internal network safe.



All messages stored in proxy are retrieved from the internal network via the REST Web Service interface, regardless of which incoming protocol was used to store the message. This allows your customers to use whichever protocol they prefer while you only use a single protocol, REST Web Service, to retrieve messages. REST Web Services require only standard HTTP, so they are accessible to any system or language capable of making HTTP requests.

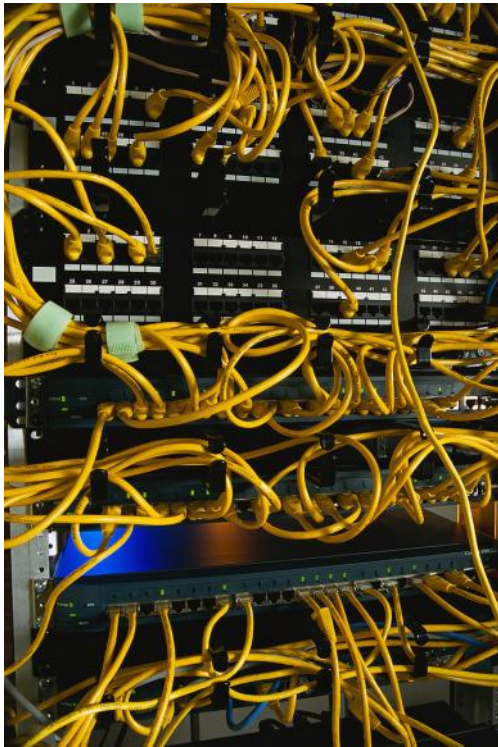
Not only does proxy help keep your internal network secure, it also secures your data as well by encrypting the data before storing it in an encrypted database. This means you no longer have to worry about plain text messages sitting on your FTP server in the insecure external network (DMZ). Proxy accomplishes this by transparently using an encrypted database instead of accessing the file system. For example, when a user logs into proxy via FTP they can use the standard FTP commands to store and retrieve files; however they are not actually interacting with the file system.

Proxy simplifies user account management as well by centralizing all protocol accounts. Since proxy users are non OS level accounts and proxy doesn't actually access the file system, you can run the proxy process as a non privileged user on non privileged ports for even more security.

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Features

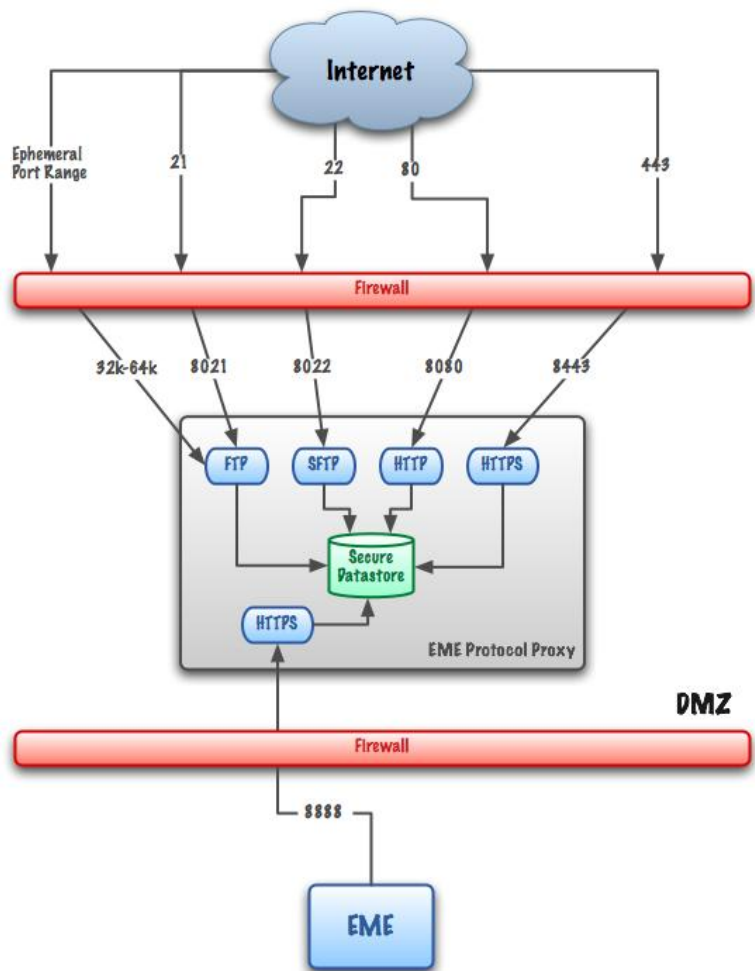
- Proxy message store access via a simple REST Web Service interface
- REST Web Services are accessible to any system or language capable of making HTTP requests
- Switch external customers' protocols without internal coding changes
- Extensible, Spring-enabled for easy customization
- Highly secure - encrypts each message before storing it in an encrypted database
- Easy, centralized account management for all supported protocols
- Proxy users are **NOT** operating system level accounts
- Proxy can be run as non-privileged user on non-privileged ports

Requirements

- JDK 1.5+
- 2.4 compatible servlet container (Tomcat 5.1.25+ recommended)
- Linux or other suitable server OS recommended

Simple Use Case

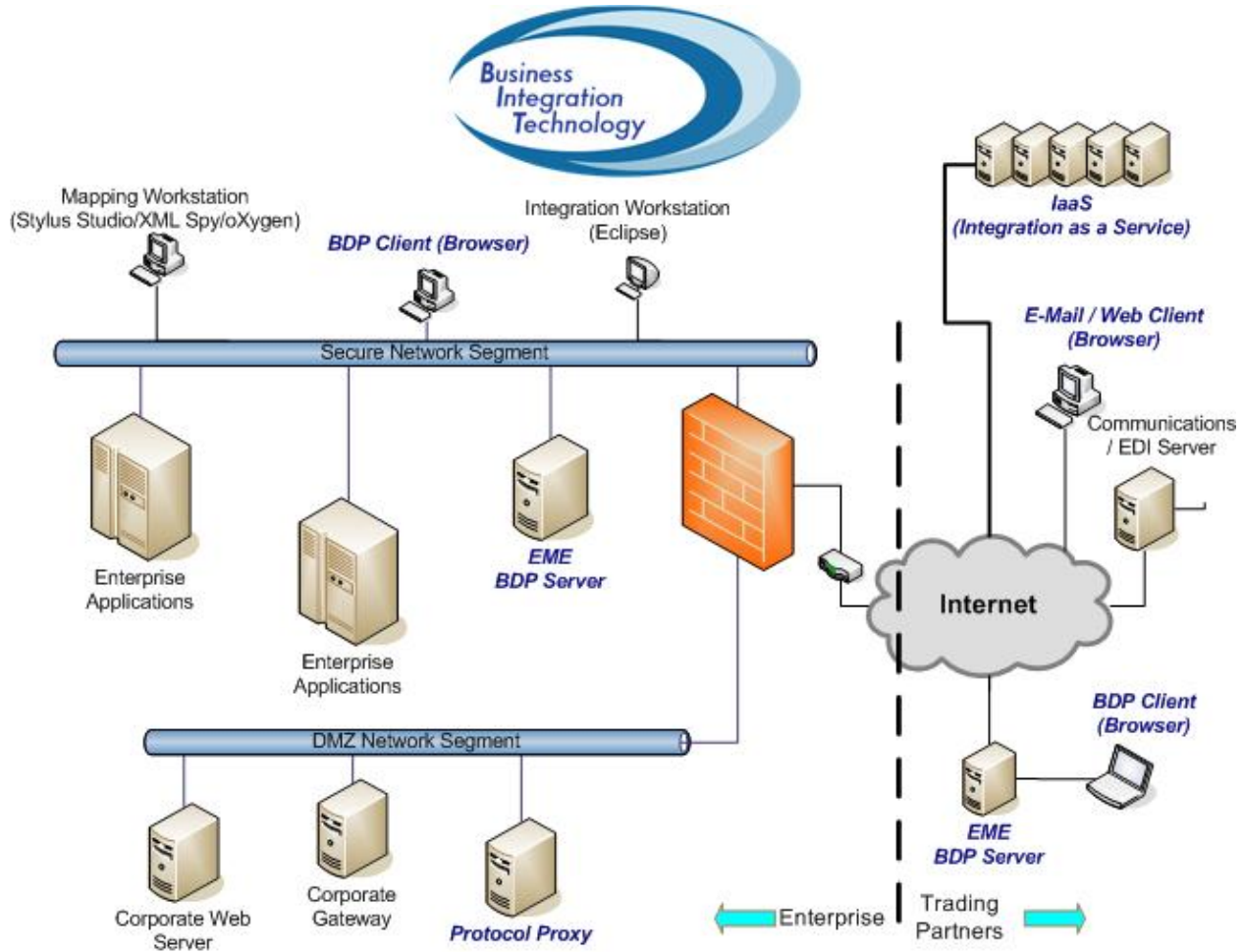
- User logs in via FTP
- User uploads file to proxy
- Proxy encrypts message before storing in secure database
- Client inside firewall queries proxy via REST Web service for message
- Client inside firewall processes message
- Client inside firewall calls REST web service when done processing message
- Proxy removes message from secure database



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Protocol Proxy is part of the BIT B2B Integration Product Suite



About Business Integration Technology, Inc.

Business Integration Technology Inc. (BIT) is a leader in B2B integration technology for transportation, logistics and supply chain management. BIT designs and implements highly cost-effective business-to-business connections that eliminate the costs of doing business with paper, phone and fax, bringing innovative value to shippers, carriers, 3PLs and companies looking to improve cycle time and reduce cost.

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