Synopsis
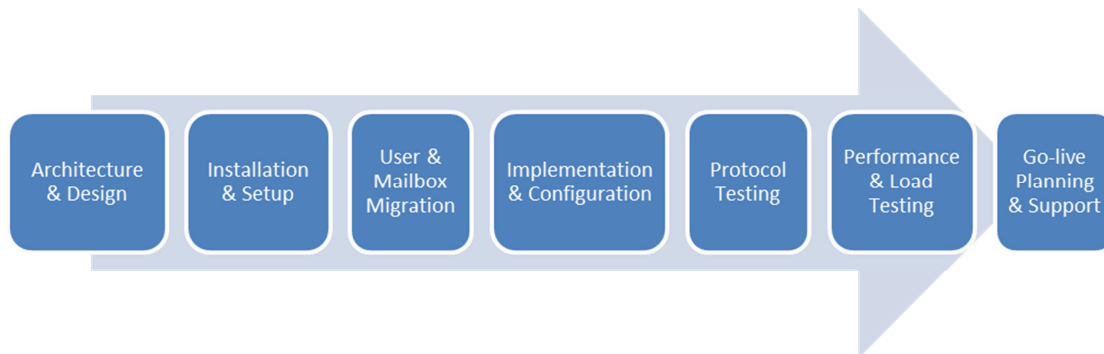
Our client, a premier financial services institution, was looking to migrate from IBM Sterling Connect:Enterprise UNIX to IBM Sterling File Gateway.

Business Case

- Migrate to a modern and fully supported B2B platform
- Move away from UNIX scripting to a business process based solution
- Pick up new capabilities such as AS2, AS3, Web Portals, Web Services, and modern security features
- Fault-tolerant and scalable (clustered) managed file transfer platform

We were brought in to ensure an efficient and successful migration to help them meet their business case objectives. Using our migration methodology and custom toolsets, we were able to help them with a design that would support their current needs and grow with them in the future, quickly and easily migrate users and mailboxes with our import utility, ensure a fully tested and tuned system and manage a smooth go-live process. Please see below for more information on our approach.

GenuCom C:E UNIX to SFG Migration Methodology Phases

Architecture & Design → Installation & Setup → User & Mailbox Migration → Implementation & Configuration → Protocol Testing → Performance & Load Testing → Go-live Planning & Support

Architecture & Design Approach

- *Environment Design* - VMWare hardware virtualization, Red Hat Enterprise Linux, Oracle 11g Enterprise, and clustered IBM Sterling File Gateway
- *SFG Extensions* – Ability to poll external B2B servers, SOAP and Web Services support, and automated CEU user/mailbox migration
- *Protocol Testing* – Utilized GenuCom B2B test environment for AS2, Connect Direct, FTP, HTTP, and SFTP testing
- *Performance Testing* – Use of GenuCom tools for protocol performance testing

Installation & Setup

- *Pre-install check* – Verification of system, database, and IBM pre-requisites
- *Installation* – Installation of multiple IBM Sterling File Gateway nodes
- *Cluster configuration* – Configuration of the multiple nodes into a Sterling File Gateway cluster

User & Mailbox Migration Utility

- *C:E UNIX Resource Export* – C:E UNIX resources (users and mailboxes along with passwords) were exported into a CSV file using C:E utilities
- *SFG Resource Import* – Developed SFG utility to iterate over the CSV file containing C:E UNIX resources to create SFG users and mailboxes

Note: Approximately 1200 users/mailboxes were migrated from C:E UNIX to SFG. The automation of resource migration saved significant time and dollars.

Implementation & Configuration

- *Protocol Configuration* – AS2, Connect Direct, FTP, HTTP, SFTP, & SOAP setup in a clustered configuration
- *Route Design & Development* – Setup & configuration of routes and routing rules
- *Development of SFG Extensions* – Design & Development of SFG Extensions:
    - Ability to poll an end point (Connect Direct, File System, FTP, SFTP)
    - Added ability to deliver payload to multiple destinations
    - Added support for SOAP and Web Services
- *Content based Routing* – Ability to route based on file content
- *myfilegateway Branding* – Sterling myfilegateway portal rebranding allowed the client to use its logos, images, and coloring scheme

Protocol Testing

- *AS2* - Organization and partner profile setup, document exchange, and MDN verification
- *Connect Direct and Secure Plus* - CD setup, data exchange
- *FTP/S* - FTP adapter setup with and without SSL and file transfers using both active and passive modes
- *HTTP/S* - myfilegateway portal deployment with SSL configuration, Web Services enablement
- *SFTP* - Adapter setup and configuration

Performance and Load Testing

- Automated load generation
- Simulate multiple client connections
- Peak, stress, and endurance tests
- Capture and analysis of key performance indicators

- Performance tuning and verification

Go-live Planning and Support

- Go-live Checklist
- Go-live Communication Plan
- Execution of Go-live Tasks
- 24x7 Go-live Support

Other Capabilities

- Sterling Control Center Installation and Configuration
- Sterling Secure Proxy Installation and Configuration
- Perimeter Server Setup and Configuration
- Assistance with Firewall and Load Balancer Verification
- LDAP Setup and Configuration