

nuBridges Exchange™

Secure, reliable, auditable file transfer. Any protocol, any volume, any file size – inside or outside the enterprise.

nuBridges Exchange is a Managed File Transfer software suite that enables enterprises to transmit critical business information internally and externally with best-in-class security, reliability and interoperability.

Globalization, increased competition and compliance demands are creating new challenges for enterprises. To meet these challenges and gain competitive advantage, today's enterprise must be collaborative, responsive and agile. This requires secure, reliable and integrated communication among the people, systems and applications that enterprises rely on to create, use and move business-critical, sensitive and regulated information.

Fortunately we are entering a new era for Managed File Transfer (MFT) solutions. These solutions are improving real-time collaboration in secure, high-availability environments, reducing data security risks, enabling integration with critical business applications, and reducing the cost and complexity of moving large volumes of information.

nuBridges Exchange stands out in this new generation of MFT solutions with its wide-range of features, including:

- Comprehensive security and support for best practice encryption standards
- Full auditing and logging capabilities
- Service Oriented Architecture (SOA) interfaces
- Guaranteed file delivery
- Supports scheduled and ad hoc file transfers
- Business Process Optimization (BPO) workflow automation
- Intuitive web-based interface for ease of use and automation
- Scalable to meet evolving business needs
- Multi-platform/multi-protocol support



The dashboard, an intuitive, easy-to-use web-based user interface, provides a central point for viewing a wide range of information maintained about individual users, departments and trading partners, along with all file transfer and security-related information. Information can be viewed in a variety of formats, such as this graphic snapshot of one business partner's file transfer activities over seven days.

nuBridges Exchange meets the file transfer challenges faced by today's enterprises that need to:

- Transfer information faster, store it in more databases and applications, share it with more partners and protect it like never before
- Meet compliance, audit and governance requirements
- Control costs and mitigate risk
- Standardize on a single integrated file transfer solution for internal and external data exchanges that is platform-, vendor- and application-neutral
- Maintain visibility in real-time into all file movements
- Leverage open standards
- Support legacy infrastructures



Via the dashboard, you can monitor transaction activity in real-time. View transactions by protocol, status, result, file size and more. All easily configured and changed on-the-fly without the need to restart services.

“The demand for secure, managed file transfer is exploding. So many different pressures are all pointing in one direction. New functionality for both traditionally scheduled file transfers and ad hoc file transfers is changing business processes and saving organizations money.”

Carol Baroudi
Aberdeen Group, 2009

“Secure/Managed File Transfer:
Why Best in Class
Organizations Are Saying
It’s a Must Have.”

Security

Security is built into nuBridges Exchange, providing document-and transport-level encryption and decryption regardless of whether the document is at rest or in transport. The way nuBridges Exchange handles encryption/decryption is easily configurable. For example, if a file transfer is configured to use PGP, nuBridges Exchange will grab the file and encrypt it with the PGP key that was specified for that file transfer. Keys used can be specified at a trading partner level.

The reverse is true for file transfers that are configured to decrypt upon receipt. For example, a customer may configure nuBridges Exchange to automatically PGP decrypt files received by Trading Partner A or only decrypt files by Trading Partner A that are received into a particular mailbox.

Customers may also encrypt files after a file is received by calling a third party encryption routine. For example, nuBridges Exchange can be configured to call an encryption routine as soon as a file is received – either from a business partner or a file that is added to the customer’s internal network (such as an ERP system that might generate files or reports on a network file server).

nuBridges Exchange provides the ability for all inbound traffic to be screened; allowing only validated and verified information to be brought into the enterprise. Data is allowed into the DMZ before being allowed into the enterprise. This restricts inbound traffic from having access to production systems and limits the required openings in the firewall. In addition, streaming file delivery ensures that files do not touch the iron in the DMZ, an additional layer of data protection.

Keys are centrally managed from within the user interface. Public meta data such as key expiration is stored in the database so that information on keys can be easily reported on. Keys can be stored on the same application server that the rest of nuBridges Exchange components reside, or on a different server per deployment requirements (such as a hardened appliance). nuBridges Exchange loads the keys used for encryption or decryption during the actual file transfer and purges the key information at completion of the encryption/decryption, avoiding the need to cache (and thus make vulnerable) sensitive key data.

Compliance and Auditability

To meet the requirements of a host of regulations and standards, nuBridges Exchange automatically tracks all file transfers so that audits can be conducted at any time, based on pre-configured criteria. Detailed business activity tracking is built into the auditing systems so even multi-step activities are recorded. An audit log contains information that describes when each file was sent, where it was sent, to whom it was sent and who initiated the transfer. All logged information is visible on the GUI interface.

Integration and Interoperability

nuBridges Exchange integrates with any hierarchical file system to transfer any type of document and supports exchanges among most platforms, including:

- HP/UX
- Linux
- Solaris
- Windows

And nuBridges Exchange supports multiple protocols:

- AS2 client and server (Drummond Group Certified interoperability)
- HTTP client and server with optional SSL
- FTP client and server with SSL or SSH

Implementation and Operation

Configuring information exchanges, protocols, profiles, authorizations and certificates for individuals and groups is fast and accurate – for both internal and external file transfers. From an operational standpoint, nuBridges Exchange uses a completely web-based user interface. It can be accessed using any standard browser (Internet Explorer, Firefox, etc.).

This provides easy end-user access to business, administrative and operational information -- assuming they have the proper credentials based on their role. This includes transaction tracking, exception management, scheduling and organization/resource configuration.

Workflow Automation

nuBridges Exchange includes a host of workflow automation capabilities that are enabled by an SOA interface -- transaction chaining, business activity monitoring (BAM) and business process management (BPM).

SOA Interface

The SOA interface allows enterprises to incorporate file transfer operations/applications into all of their business processes and enable web-based interfaces for user self-service operations such as business partner on-boarding.

Intelligent Routing

Intelligent routing of transactions within the enterprise ensures that documents coming in from trading partners are delivered directly to the intended end point, bypassing intermediate servers and remaining in their secure wrappers all the way to their final destination or multiple destinations. An additional benefit of intelligent routing is that application servers do not have to request files from an intermediate server -- where they may be sitting unprotected in clear text, unless a data protection application is used to automatically encrypt the files when they are writing to disk. What's more, this eliminates another layer of security management, and removes the need for those servers to have an FTP client installed and for scripts to be written requesting and directing files.

Transaction Chaining

Intelligent routing also includes a method to chain these transactions together based on file characteristics. The benefits are numerous including the ability for security methods to be automatically changed -- like from PGP to SSH. For example, a file can be sent to an external trading partner. Once that transaction is complete, the same file can also be sent to an internal finance department on an entirely different application server.

Business Activity Monitoring

Business activity monitoring (BAM), which automatically captures information, is a key component of best-in-class MFT solutions. BAM allows partners to track and monitor all transactions centrally; view near-real-time status of all transactions -- internal or external, regardless of the transport or document type. Not just current activities, but historical ones as well. View transactions by type, file sender and recipient -- and any scheduled activities related to them -- at a glance. Since logs are searchable by data, priority, filename, business partner, category, description and more, retrieval is speedy and accurate.

Business Process Management

The routing component of business process management (BPM) provides the intelligence to look at a transaction and intuitively know how to route a file to the proper destination.

When sending and receiving documents internally, it means reviewing the document routing information, and based on the mailbox or business partner profile to route it to the proper storage location within the network. For external documents, it means sending them using the correct protocol based on the business partner profile and receiving to the proper internal storage location, application and/or user. Scheduling defines tasks on a one-time or recurring basis.

Performance

nuBridges Exchange is designed for ultra-fast performance and supports unlimited file transfer volumes and unlimited trading partners. It supports highly redundant, clustered configurations for 99.99% availability. And its modular architecture automates dynamic scaling and fail-over capabilities and eliminates single point of failure. For load balancing, servers can be added and multiple instances can be run on a server to leverage multi-core CPUs. nuBridges Exchange automatically retries a failed transfer based on a configurable number of re-tries. The system defaults to five retries for all protocols, but this can be overridden at a global or mailbox level.

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About nuBridges, Inc.

nuBridges is a leading provider of software and services to protect sensitive data at rest and in transit, and to transfer data internally or externally with end-to-end security, control and visibility. nuBridges encryption, key management and tokenization, managed file transfer, and B2B integration solutions are used to comply with security mandates and to digitally integrate business processes among enterprises, systems, applications and people. Over 3,000 customers depend on nuBridges secure eBusiness solutions to encrypt millions of credit cards, exchange billions of dollars in B2B transactions and enable countless business-critical file transfers, including Wamart, Amazon.com, Timberland, American Eagle Outfitters, Belk, Bon Ton, Wachovia, Sun Trust, AIG, CheckFree and Verizon. nuBridges is headquartered in Atlanta, Georgia, USA. More information is available at www.nubridges.com.