Alliance FTP Manager for IBM i
Solution Brief

Townsend
SECURITY®

Secure FTP Transfer Meets the Most Stringent Compliance Regulations

IBM i customers need to meet regulatory requirements to secure the transfer of data over the Internet and on internal networks. Alliance FTP Manager provides secure FTP (sFTP) and Secure Shell (SSH) transfer support to meet these regulations. Additionally, we have strong PGP Command Line 9 encryption available as an added option.

Alliance FTP Manager can encrypt any file type including DB2 database files (externally described files), flat files (internally described files), IFS files, Save Files, and spooled file reports. PGP encrypted files can be received from any other system including Windows, Linux, UNIX, IBM AIX, Sun Solaris, HP-UX, and IBM z (Mainframe).

First and Foremost

Townsend Security was the first to bring PGP to the IBM i platform in 1999 and continues to be the leader in PGP and AES encryption solutions. No other company can provide the years of experience and depth of knowledge for your IBM i encryption needs.

Improve Security
Encrypt and decrypt on your IBM i without transferring data in the clear to external servers

Enforced Security Policies
Automatically enforce data protection with centrally managed policies

Accelerated Deployment
Start encrypting data automatically without programming

Meet Compliance Reporting Requirements
Records all encryption and file transfer activity to meet compliance reporting requirements

PGP Encryption
PGP Command Line 9 provides cross-platform, standards-based encryption that works with all other PGP solutions

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Introduction

Alliance FTP Manager for IBM i provides strong secure FTP (sFTP), Secure Shell (SSH), and automated operations to meet regulatory requirements to protect sensitive data. Additionally, we offer PGP Command Line 9 encryption as an option for encrypted file transfer. You can satisfy PCI, HIPAA, GLBA, Privacy Notification, and all other data security regulations that require encrypted transfer of your most sensitive data.

Secure FTP

Alliance FTP Manager implements the full specification for secure SSL FTP providing an encrypted and firewall-friendly implementation of encrypted FTP. The Townsend Security SSL FTP solution conforms to the Internet standard RFC2228. Many financial institutions are now requiring that companies use encrypted FTP even when they have encrypted a file with PGP. Alliance FTP Manager provides the automation and command support you need to meet these requirements.

Alliance FTP Manager fully integrates with IBM i's security strategy by using the IBM Digital Certificate Manager for certificate management and SSL communications. This means that you will have full support for IBM secure audit journaling and native IBM i security controls. It also means that Alliance FTP Manager will use the IBM SSL accelerator hardware card to speed up SSL encryption if it is installed in your IBM i server. (IBM Digital Certificate Manager is a no-charge licensed product that comes with your IBM i operating system.)

Secure FTP is fully supported in the Alliance FTP Manager automation features. You can easily transmit any file by copying it to a library managed by Alliance FTP Manager. You can also automatically transmit any file in an IFS directory including files in Windows Networking folders or UNIX NFS directories. To automate receiving files from remote FTP servers the Alliance Auto-Scan facility can periodically connect to an FTP server, list the available files, and pull new files to your IBM i platform.

PGP Encryption

Pretty Good Privacy (PGP) is the de facto standard for secure file encryption at banks, insurance companies, benefits providers, medical insurers and many other Enterprise service providers. Alliance FTP Manager implements industry standard PGP, based on the Internet standard RFC2440. Today hundreds of Alliance FTP

Manager users are encrypting and decrypting files with PGP on the IBM i platform.

Alliance FTP Manager can encrypt any file type including DB2 database files (externally described files), flat files (internally described files), IFS files, Save Files, and spooled file reports. PGP encrypted files can be received from any other system including Windows, Linux, IBM AIX, Sun Solaris, HP-UX, and IBM z (Mainframe).

PGP encryption can be automated using one of several automation facilities in Alliance FTP Manager, or you can use the PGP commands for encryption, decryption, key management, and file signing. The commands and APIs let you extend encryption into any business application. These automation functions let you process decrypted files directly into your applications with no human intervention giving you a 24/7/365 strategy for encryption.

PGP key management is fully implemented on your IBM i platform and there is no need for external key servers or key stores. You can maintain multiple key stores for maximum flexibility, and there is no limit to the number of keys you create or import.

Secure Shell (SSH) sFTP

Secure shell (SSH) is a UNIX application that provides for secure and encrypted command line, telnet, file transfer, and file copy functions. Many companies use the secure FTP (often called sFTP) portion of SSH to protect their data as it moves between servers on a network or to outside servers at a customer or vendor's location.

Alliance FTP Manager implements the IBM OpenSSH application with some additional features for automation, compliance logging, and password controls. You can send and receive files using the Alliance FTP Manager implementation and meet compliance requirements for encrypted transfer.

Alliance FTP Manager provides for full automation of sending and receiving files, and provides full support for compliance logging.

Intelligent Firewall Negotiation

When you exchange files with a company outside of your network, the file transfer session must pass through your company's firewall, and then through a second firewall that protects the remote company's network. This multiple-firewall configuration is very common and can present special problems for encrypted FTP sessions. Alliance FTP

Manager implements multiple features to help you solve firewall negotiation issues.

The Alliance FTP Manager SSL FTP implementation provides support for the Clear Command Channel (CCC) command. After a password has been authenticated by the remote FTP server, the connection can be decrypted to allow the firewall to handle the FTP transfer. This strategy is used by many banks and better FTP solutions.

When a remote FTP server does not support the CCC command, Alliance FTP Manager provides extended functions to allow the FTP session to continue. These functions are called "Intelligent Firewall Negotiation." You can use intelligent firewall negotiation in the automation functions.

Automated Transfer

Alliance FTP Manager provides several automation functions to help you exchange files without human intervention. The library scan function provides you with the ability to define one or more libraries to be monitored for file transfers. You only need to copy a file into the library and Alliance FTP Manager completes the entire FTP session including any encryption that is needed.

The Directory Scan function provides the same automation for files in IBM i IFS directories. Alliance FTP Manager can encrypt and transfer any file in an IFS directory, and automatically archive it. The directory scan facility supports normal IFS directories as well as Windows Network folders, UNIX Network File System (NFS) mounted directories, QDLS folders, and remote IBM i directories through the QFileSvr.400 directory.
Lastly, the Alliance FTP Manager auto-scan facility can connect to any number of remote FTP servers and automatically pull files to your local system where they can be processed into your business applications.

Hub Configuration Support of IBM i, Windows, Linux, and UNIX

Most IBM i customers run applications on Microsoft Windows, Linux, and UNIX servers. Alliance FTP Manager can provide a centralized hub for all of your file transfer activity. With the use of Windows Networking and UNIX NFS, Alliance FTP Manager can pull files from your Windows, Linux, and UNIX servers and send them to vendors and customers. When Alliance FTP Manager receives files from remote systems it can decrypt and save them to Windows, Linux, and UNIX systems. This approach provides for a hub-and-spoke configuration of centralized FTP transfer.

Compliance Logging

Alliance FTP Manager creates audit trails of all file transfer activity and provides reports for compliance monitoring. You can meet PCI, HIPAA, Sarbanes-Oxley, and other data security regulations that require monitoring of system activity.

The optional Alliance LogAgent solution for the IBM i can help you manage all of your system logging requirements. Alliance LogAgent extracts logs from the IBM security audit journal QAUDJRN, formats them to the syslog standard, and sends them to a log collection or SIM product.

High Availability and Mirroring

Alliance FTP Manager is compatible with a variety of high availability products including Vision, iTera, MIMIX, and Data Mirror. You can securely mirror the application to a high availability server or to a disaster recovery site.

Supported Standards

Alliance FTP Manager implements encryption and file transfer in alignment with a variety of open standards. The PGP option is compatible with the OpenPGP standard documented in RFC2440. The secure SSL FTP solution is compatible with RFC2228. The Secure Shell SSH sFTP solution is based on the OpenSSH implementation which is a proposed Internet standard. The optional Alliance LogAgent system logging solution implements the system log format based on RFC3164.

Banks, Insurance Companies, Benefits Providers

Alliance FTP Manager is compatible with a wide variety of banks, insurance companies, authorization networks, benefits providers, medical claims services, and EDI networks. The following is a partial list:

Banks:	Bank of America, Wachovia, Wells Fargo, US Bank, State Street, ABN Amro, CitiGroup, JPMorgan Chase, BankOne, and others.
Medical:	Blue Cross Blue Shield, State of California, State of Florida, Hewitt Associates, ZirMed, WebMD, and others.
Services:	Merrill Lynch, Fidelity, ADP, Frick, TALX, eTRAFX, AllTel, Bell South, and others.
Networks:	GXS, Inovis, Sterling, IBM Advantis (now GXS), Pantellos, and others.
Authorization:	Visa, American Express, ADS, Chase Paymentech, First Data, ValueLink, and others.

Customer Support

Our customer support team brings years of experience helping IBM i customers connect to their vendors and customers. In most cases you will be able to connect to your trading partner during the evaluation phase. The customer support team will help you with additional connections as you increase your automation of secure data transfer.

Implementation Services

For customers with minimal IT staff, or who lack uncommitted resources, the services group at Townsend Security can implement secure data exchange for you. Contact your account manager for more information.

Townsend Security

Townsend Security provides data encryption & tokenization, key management, secure communications, and compliance logging solutions to Enterprise customers on a variety of server platforms including IBM i, IBM z, Windows, Linux, and UNIX. The company can be reached on the web at www.townsendsecurity.com, or (800) 357-1019.