



*"The main objective for SEB Group IT is to provide standardised, high quality, and cost efficient IT services to the business. This objective was being achieved with the exception of the area of file transfers. The Spazio MFT/S and File Governance suites have allowed us to start to centralise file transfer operations, manage and audit file transfers and focus on a single solution in order to get control of and reduce costs. The Spazio MFT/S and File Governance suites are highly recommended."*

*Joachim Bergström  
SEB Group IT Integration  
Platform Owner*

## **The Company**

SEB Group is a North European financial banking group focusing on large companies, institutions and private individuals.

## **The Challenge**

SEB needed a secure MFT solution which would meet both short and long term requirements for internal and external B2B file transfer. Protocol bridging, including IBM WebSphere MQ, and compliance were also key requirements.

## **The Solution**

Establish a usable common platform that is secure and easy to use. SEB selected Primeur's Spazio Managed File Transfer / Secure (MFT/S) combined with Spazio File Services Governance.

## **The Benefits**

- Cost efficiency through the consolidation of different file transfer platforms
- One IT platform
- Easy to start for new projects
- A single secure platform for various file transfer needs, both internal and external
- Centrally managed and operated

## **Implementing a Secure and Compliant MFT solution at a corporate level for Internal and B2B File Transfers**

### **The Company**

The SEB Group is a North European financial group for 400,000 corporate customers and institutions, and 5 million private customers. SEB has local presence in the Nordic and Baltic countries, Germany, Poland and the Ukraine. Approximately half of SEB's customers use the internet for their banking transactions. SEB also has a considerable life insurance operation both in Sweden and abroad.

### **The Challenge**

Over time a variety of file transfer tools and techniques had been implemented to support the file transfer needs of internal systems as well as file transfers with external partners. The file transfer process had become complex and costly, involving differing platforms, technologies, processing methods and support.

Also, internal studies in the areas of internal file transfer and file based B2B integration had identified areas of improvement in regard to matching requirements with capabilities. Many of the solutions within SEB were based on FTP. In order to ensure that SEB's corporate security, audit, and compliance requirements were met, SEB Group IT had had to develop and implement costly and labour intensive procedures. Simply adding encryption with FTP/S or SFTP would have only addressed a small part of the need. The costs and resources associated with the in-house governance procedures would have had to remain in place to continue to meet SEB's rigorous audit and compliance requirements.

### **The Solution**

SEB identified that they needed a single Managed File Transfer solution that would meet both immediate and long term functional requirements, lower the cost of staffing and administration around file transfers, and provide improved service levels to the users of file transfer.

The solution chosen had to be a multi-platform solution (z/OS, Linux, Windows, etc.) and meet the security, functionality, manageability and performance requirements for a bank of SEB's size. Two core functions were needed:

- A solution for managing internal file transfers using both Internet and proprietary protocols such as Sterling Commerce's Connect:Direct and IBM WebSphere MQ
- A Gateway solution for external file transfers (B2B) supporting the more common format and protocol standards in use today.



For the longer term, the solution needed to provide a common platform for all internal and external file transfers which could be handed over to the line organisation. It also needed to meet compliance with SEB/ SEB Group IT security instructions, existing infrastructure, and strategic technologies.

A number of different products were considered through a rigorous selection process including a functional and performance focused Proof of Concept. The result of this detailed evaluation was SEB's decision to adopt a platform consisting of **Spazio MFT/S** – Primeur's solution for management and secure file transfer – and **Spazio File Services Governance** – Primeur's solution for visibility, audit, and control of file flows.

The selected Spazio platform was the best functional and economic solution for Monitoring, Control, and Archiving of file transfer throughout the network from a single point of control. It also provided management and control of data/file transfer over different technologies and protocols including: IBM WebSphere MQ, FTP(S), SFTP, HTTP(S), SMTP, Connect:Direct, Axway's XFB, AS2.

In order to guarantee security through all aspects of file transfer Primeur's **Spazio Data Secure** solution was chosen to provide encryption, authentication and authorisation for End-to-End security with LDAP integration for consistency with SEB's security policies.

## Managed File Transfer

The implemented Primeur solution has two Gateways: one for Internet connections (GateNet) and one for leased lines and VPNs (SebNet Access). External protocols that are available are: FTP, FTPS, HTTP, HTTPS, SFTP, SMTP, AS2, Connect:Direct. A central Hub is handling routing to/from gateways and the internal systems and is used for non-MFT/S clients, such as FTP (File Transfer Protocol) on old but important VMS systems. An important consideration in choosing Primeur was the ability to work within SEB's planned SOA and integrate with core IBM technology such as WebSphere Message Broker, WebSphere MQ and WTX. The solution described above is represented in the following high level architecture diagram.

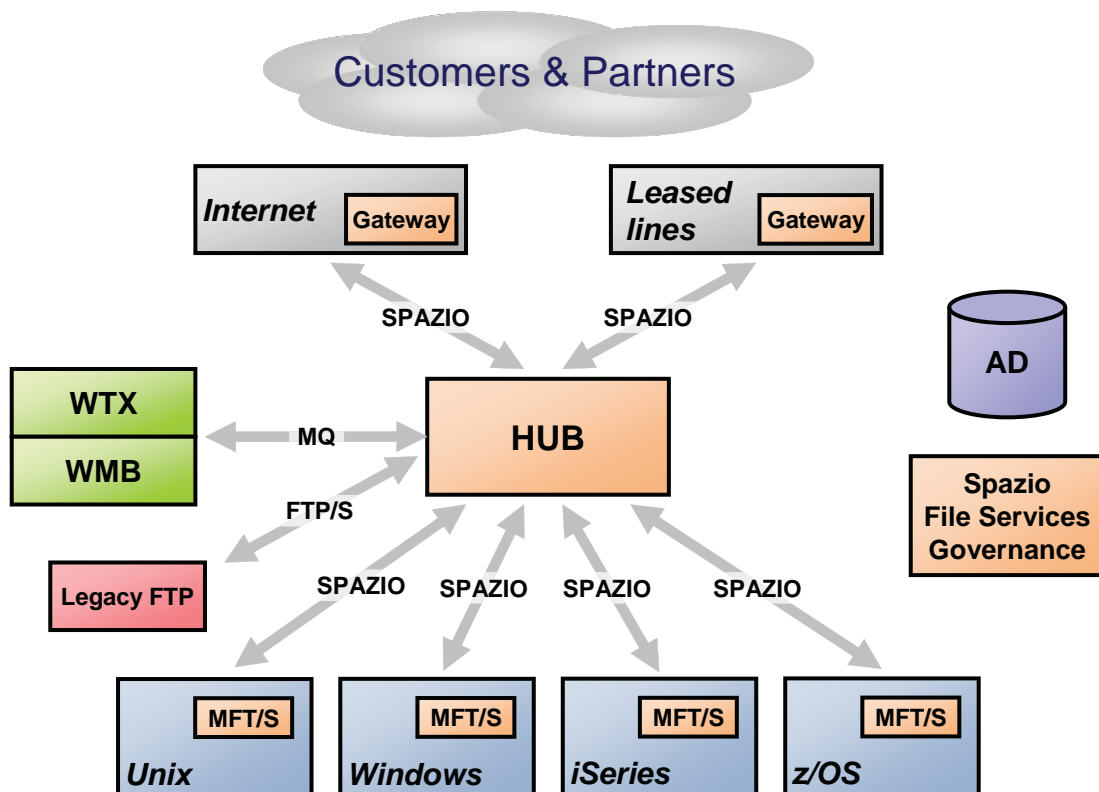


Figure 1: Logical overview of the SEB file transfer platform

## Compliance, Visibility and Audit

**Spazio File Services Governance** will be used to monitor some of the already existing file transfers in addition to all those on the new file transfer platform. This gives SEB the benefit of putting critical internal and external file transfers under control before they are migrated to the new platform, and will provide accurate data on which to plan and resource the migration project. The existing file transfer nodes that have been selected for monitoring are the nodes in the FTP to FTP solution for external flows and a number of business critical existing file transfer servers.

The **SPAZIO File Services Governance** basic meta-data model will be extended to include SEB specific meta-data, such as file owner, so that it can also be used for billing information. The meta-data is stored in an Oracle database.

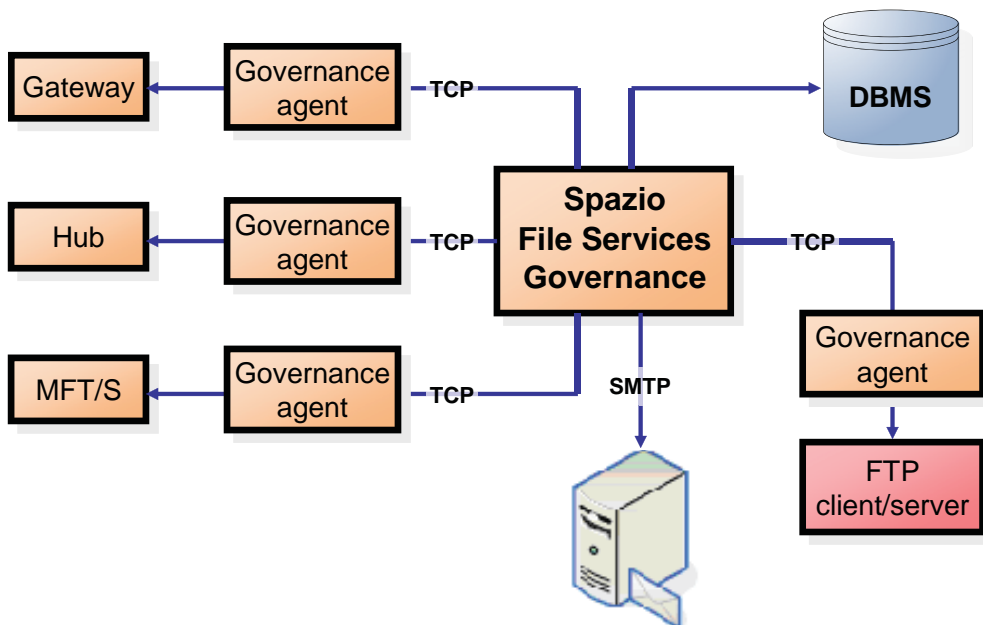


Figure 2: Spazio File Services Governance connections

**Spazio File Services Governance** provides four key functions:

**Discovery:** to discover which files are moved within the company infrastructure and which servers they travel to/from, and by identifying and cataloguing each individual transfer step to create information on end to end File Transfer flows.

**Catalogue:** to enrich the flows identified during the Discovery phase and to associate SLA attributes with them such as: time/date cut-offs, cross country calendars, business level information, triggers and alerts. New flows can also be defined and inserted.

**Monitor & Audit:** a web based interface for monitoring and control of all file transfer activity, the status of the transfers and any errors for each single File Transfer. Extensive filtering and drill down functionality is provided so users can identify clearly and concisely only the information that is pertinent to them.

**Report:** a batch based reporting tool (BIRT from the Eclipse project) for data and trend analysis as well as usage and service level reporting for management and business presentation.

## Security

SEB have strict security requirements which needed to be implemented in the new solution. Primeur's **Data Secure for Spazio** (DSSP) implements link-oriented and end-to-end security functionality providing all the infrastructure (PKI- Public Key Infrastructure) and services (via cryptographic libraries) necessary for implementing a modern standards-based public key cryptographic system.

Link-oriented Security allows for protecting the connections between the nodes in the Spazio MFT/S network. Using the PKI and cryptographic services a connection can be configured so that prior to data transmission, authentication is carried out between the communicating nodes (if this step fails, then the data will not be transmitted), and following authentication, all data transferred can be encrypted, hashed or digitally signed prior to sending.

End-to-End Security allows for securing (encrypt/sign) data from the point when it is *routed* to a Spazio MFT/S queue until it is eventually 'acquired' from a destination queue. The effect of this is that the file is protected both during its stay in the Spazio MFT/S Mailbox System, during subsequent transmission, and during storage in the destination Mailbox System, right up until the moment that the file is acquired.

Primeur's AAA (Authentication, Authorization, Audit) framework has also been implemented. This enables SEB to hold Authentication identities and credentials within an Active Directory LDAP repository, in an appropriately ciphered format. Virus scanning is performed on received files via the Spazio MFT/S event system with files failing the virus check placed into a separate quarantine queue.

## Benefits

Establish a usable common platform that is secure and easy to use and one that meets the requirements of internal audit. It provides *One Function – One Solution* so that new projects see it as the natural and most cost effective way to implement file transfers. Specific benefits include:

- Cost efficiency through the consolidation of different file transfer platforms
- One IT platform
- Easy to start for new projects
- Provide a platform that aims to support the implementation of various file transfer needs, both internal and external
- Centrally managed and operated platform.

## About Primeur

**Primeur** is a multinational company and one of the main producers of middleware solutions for distributed and heterogeneous IT systems. Primeur is a leader in **Managed File Transfer, End-to-End Security and Governance**. With more than 500 customers worldwide - including large companies operating in the areas of Finance, Industry and Services - it has branches and distributors in Europe, United States of America, South America and Asia Pacific.

Primeur is an IBM Premier Business Partner particularly active on IBM WebSphere, Tivoli, Rational and Information Management platforms. In addition, it provides software and services for SOA (Service Oriented Architecture), communication middleware, legacy application integration and data security.

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