

SPAZIO File Transfer Orchestration Suite

Middleware
Made in Italy

Modeler, Monitor, Data Mover Agents

How to be sure that all the files to be sent have in fact been sent, and that all the files to be received have in fact been received.



The problem: Managing the movement of files

Despite the widespread use of “messaging” applications, the exchange of files is still carried out on a huge scale both within the company and with the outside (B2B): in fact large companies may exchange even hundreds of thousands of files daily. It is difficult to be certain that all the files to be sent have really been sent, and that all those to be received have been received. It is even more difficult to discover over time if a file that should have been delivered or received months or years previously was in fact received or delivered.

The solution: SPAZIO File Transfer Orchestration Suite, with its Modeler and Monitor components and Agents on the nodes to be controlled

With its **Modeler** component, the Orchestration Suite allows a model of the data transfer infrastructure to be created, and, using information transmitted by the **Agents** distributed on the monitored nodes, to control data flows via the **Monitor** component, highlighting inconsistencies with respect to the established model.

The **Modeler** allows:

Analysis of the flows of files throughout the company network by identifying and cataloging flows in production using support tools to automate the next “Modeling” phase

Modeling of the infrastructure in which the data is moved, in particular

- flows, modeled from the activities that identify the flows in production carried out during the analysis phase (automatic mode) or by inserting new data
- applications and users that produce and use flows
- the rules that the file flows must respect (cut-offs, warning periods)

Export the modeled flows as JCL, shell or cmd depending on the environment in order to automate the creation of operating procedures.

The information created by the Modeler is inserted in a DB and includes details on the data flows such as order of execution, parameters, characteristics of the files involved, where they are executed, date, time, frequency of sending or receiving etc.

The **Monitor**: this component is able to provide comparisons in real time between the activities planned (sending and receiving) and those that have actually occurred within a given time frame. It is configurable: the user decides which items of information to display on the screens, and can filter them on time intervals, groups or specific machines. In this way it is possible to get answers to questions such as:

What has taken place in my data moving infrastructure?

- Have the branch office applications been fed correctly?
- Has the central node received the new sales data?

What is taking place?

- Which applications are not receiving the expected data?
- Did the information arrive within the established time limits?

What is expected to take place?

- Before what time are the branch office orders expected?
- What are today's deadlines?

It is also possible to customize a service for the notification of important events. Such a service could, for example, signal a flow that has not terminated properly, or a cut-off that has not been respected etc.

All the modules of the Monitor and Modeler operate in a Tomcat, WebSphere Application Server or Weblogic environment, while all the information is managed in a Database (DB2, Oracle, Derby).

SPAZIO File Transfer Orchestration Suite can be managed using a Web Browser, and provides a single point for modeling and monitoring the entire infrastructure.

The **Data Mover Agents** operate on nodes where SPAZIO is active and acquire information from the SPAZIO logs. The information from the logs allows control of the activity not only of the node where the agent resides, but of all the contiguous nodes too. This makes it possible also to control file transfers that use other FT technology (such as FTP, C:D, Netview and others) as illustrated in the diagram: the Monitor workstation is able to manage both the transfers from "SPAZIO A" to "SPAZIO B" and those between "SPAZIO B" and the three other systems.

