

Dimetis BOSS FILE TRANSFER Manager[®]

Manages, Monitors and Controls Large Media File Transfer with Onboard or Third Party Accelerators

Transferring large media files over networks saves significant costs however the lack of user friendly and “accelerator agnostic” file transfer management tools have hindered companies from obtaining these cost savings. Without a comprehensive, universally intuitive and simple to use file transfer management system customers can not take advantage of these savings. The Dimetis BOSS FILE TRANSFER Manager[®] is the solution. By providing a full portfolio of easy to use management features such as tiered password protection, bandwidth management, ACL, certificate control, monitoring and synchronization, ad-hoc or scheduled transfers the BOSS FILE TRANSFER Manager[®] is the unifying solution for supporting your file transfer needs. Whether using the BOSS FILE TRANSFER Managers[®] built-in accelerator alone or in conjunction with third party accelerators the BOSS FILE TRANSFER Manager[®] acts to unify, simply and make new technology work for the user rather than the user work for it. The Dimetis BOSS FILE TRANSFER Manager[®] is available as a stand-alone application or as an plug-in module in the Dimetis BOSS LINK Manager[®]. Its Service Oriented Architecture (SOA) design also facilitates easy integration into other software applications, WAN accelerators, Operations Support Systems (OSS) and/or billing systems.

System Level Features	System Level Benefits
Certificate managed authentication	Provides high security
Walk-Thru transfer wizard	Simplifies file transfer set-up and execution process through intuitive “drag-n-drop” operation
Scheduled or ad-hoc operation	Efficiently plans and allocates resources or overrides them
Edge bandwidth management*	Prevents access line over-subscription
SOA-based design with process executer	Allows integration of external applications, e.g. 3rd party accelerators or billing systems
Domain management	Provides site access control
Bandwidth, encryption controls*	Optimizes network price/performance/security metrics
BOSS Platform [®] compatibility	Tightly couples to other Dimetis Broadcast OSS applications for process and network efficiencies

Product Features

Transfer Performance Factors

- Link bandwidth*
- Traffic density and shaping
- Link latency
- Protocols, encryption methods

Bandwidth Control and Utilization*

- Adaptive, pre-set and automatic
- Capacity configurable
- Selectable in 25 Mbps increments

*available with BOSS LINK Manager[®]

Scheduling

- Ad-hoc, time-based and prioritized, folder synchronisation

User Interface

Client

- Walk-thru wizard
- WAN accelerator
- QoS level (1:5)
- Bandwidth boundaries (min/max)*
- Scheduler
- Progress bar
- E-mail notification
- FEC level (1:5)
- Report
- Encryption level

Server

- User profile definitions
- Bandwidth boundary definitions
- WAN accelerator definitions
- Transfer/control buffer size
- Archive time
- Certificate definitions

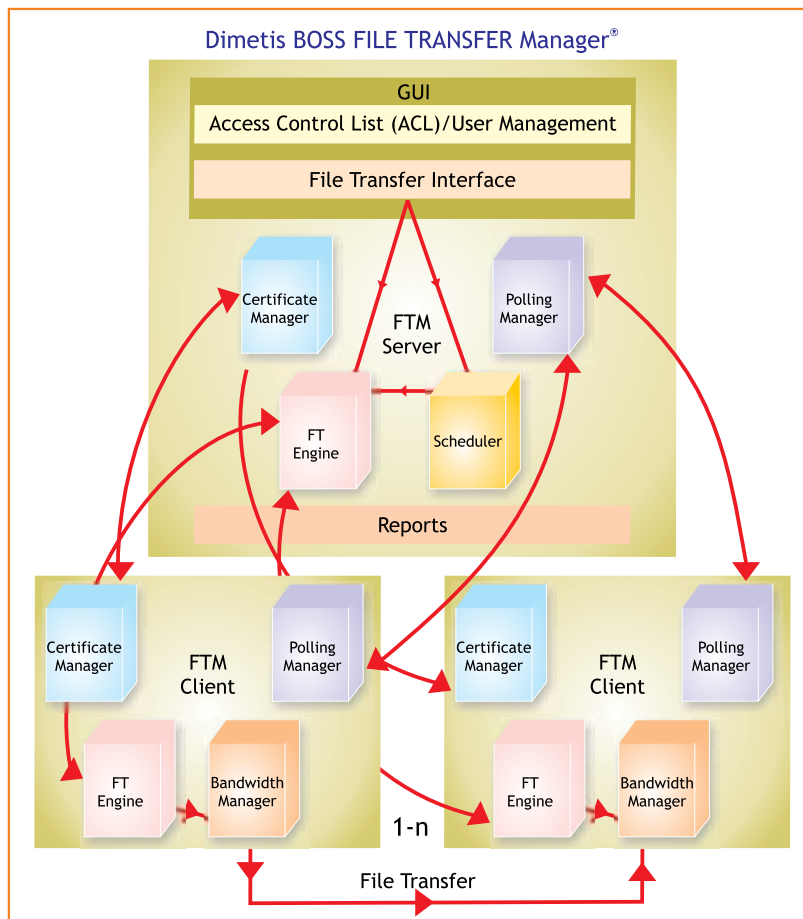
Security

- Certificate managed authentication
- Secure, on-the-fly encryption and verification

Walk-Thru Wizard Set-up Parameters

- Content definition, format & packaging
- Delivery, urgency, & security methods

Architecture Diagram





Dimetis BOSS FILE TRANSFER Manager® is comprised of a BOSS FILE TRANSFER Manager® Server and multiple BOSS FILE TRANSFER Manager® Clients that contain the following modules:

Access Control List (ACL)

The Access Control List (ACL) provides user access privileges for file transfers. Users are able to view and execute file transfers only between sites for which access rights are provided.

File Transfer (FT) Engine

FT engine is a multi threaded component that handles multiple clients concurrently. It controls and triggers file transfer activity across multiple clients and also updates the database once the transfer is completed or aborted. The Client side FT engine is responsible for sending or receiving files from the server or from another client. FT engine controls the transfer/receive buffer and packet size. File transfer is executed after client authentication.

Certificate Manager

The Certificate Manager handles the generation and management of public and private keys from both the server as well as client, authenticating and authorizing file transfers.

Polling Manager

The Polling Manager on the server side regularly polls the clients when a file transfer is initiated. This is for link monitoring and to indicate in the user GUI that the file transfer is in progress. The Polling Manager on the client side regularly polls the server on initialization of the client, and is also responsible for sending the client status to the server.

Scheduler

Scheduler manages one-time or periodic scheduling of file transfers and folder synchronisation.

Bandwidth Manager*

Bandwidth Manager controls the file transfer buffers depending on the available bandwidth. The module checks the available network bandwidth against the pre configured threshold bandwidth and prompts the user when it is less.

Administration Levels

There are three levels of administration present within BOSS FILE TRANSFER Manager®

- Administrative-user management
- Job template
- File Transfer Manager

Administrative User Management

A BOSS FILE TRANSFER Manager® user executing the file transfer will not have access to user management, whereas an administrator has access to user management. Only the administrator can view user details or any administrator's personal details, but is not entitled to modify the details. The administrator can create new users and assign access rights. For sites and certain file homes.

Job Template

This is the module where the administrator can define various work flow templates and assign it to users. The user will be taken through a "walk-thru wizard" that defines a sequence of steps for performing a file transfer. This assists in the setting of certain parameters before the actual transfer occurs (e.g. FEC (forward error correction) level, QoS parameters, or third party web service activation).

File Transfer Manager

This is the main module for triggering the file transfer. A File Transfer Manager user authorized to transfer files will have access to this module.

*available with BOSS LINK Manager®



Hardware Requirements

Software Instance	Hardware Required (Minimum)
Oracle 10g	2 GB memory, 80 GB HD (scalable) with dual processor, server machine
BOSS FILE TRANSFER Manager® server	2 GB memory, 80 GB HD with dual processor, server machine (Media File storage is excluded)
BOSS FILE TRANSFER Manager® client	2 GB memory, 80 GB HD with dual processor, server machine (media file storage is excluded)

Software Environment

Database	Oracle 10g, MySQL 5.1
Java	1.5.10
Application server	JBoss-4.2.2, (Tomcat-6.0 OpenJMS), BEA, IBM, TIBCO
OS platform	Sun Solaris 9.0 Linux - Fedora, Redhat or SuSe Windows XP/2000/VISTA
BOSS FILE TRANSFER Manager® client	WAN accelerator BBCP with IO-TTY & Expect

System Features

Application servers	JBoss BEA WebLogic IBM WebSphere TIBCO TOMCAT
Middleware	Java Servlets
JAVA	J2SE [JDK 1.5] Eclipse 3.3.0 IDE for Java
Graphical tools	GWT 1.4.2 Adobe-Flex 2.0
Database	MySql, Oracle 10g

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Headquartered in Dietzenbach, Germany, Dimetis is a leading software and hardware Systems Integrator, providing standards based Broadcast OSS solutions. With more than 25 years experience, Dimetis has an extensive customer base. Its products and services have been deployed to many of the world's largest broadcasters, telecommunication providers and media carriers.

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