

# Metastorm Integration Manager Integration Server



## The Enterprise Game Plan

At the heart of today's enterprise is a highly diverse range of systems, applications and data sources. The distributed nature of computing environments adds further complexity. For example, your organization may have forecasting systems in headquarter offices, regional systems that house the latest inventory information, and sales systems at retail locations with the latest actual sales data. Back-office applications may require information from all of these systems, spread throughout a region, country, or even the world.

While key systems can be highly related and dependent upon each other, they have often not been designed with this in mind. This creates major integration challenges. Mergers and acquisitions, technology imperatives such as Service-Oriented Architecture (SOA), and the need for rapid business change further compound your challenges. Today it is common for organizations to have (or inherit) two, three or even dozens of like systems—planning, sales, ERP, purchasing, or financial applications. To support the business' need to make the correct decisions against competitors, lower costs for customers, and increase overall effectiveness, these systems require a level of interconnectedness that can be extremely difficult to achieve.



## Key Features

### ▪ System Process Orchestration

- Design-to-Execution Modeling: Draw the integrated systems to realize instant orchestration including transaction logic, auditing, exception management and state control.
- Cross-language Components: Realize seamless interaction between .NET, Java, C, Cobol, and other language interfacing.
- Leverage Standards, Don't Be Gated By Them: MIM IS supports standards such as Web Services and XML but is not bound to the a single model in order to meet performance and flexibility needs.
- Broad Platform Support: With support for over 15 platforms across Windows, Unix, Linux, i5/OS, and z/OS.

### ▪ Centralized Management

- Manage Multi-Host Configurations: Control configuration of thousands of hosts (Windows, Unix, i5, and z/OS) centrally with local caching.
- View Service Log Access: Securely pinpoint problems instantly without logging into a multitude of remote hosts.
- Control Multi-Host Lifecycles: View the real-time state of, and start/stop, local services through secure and powerful process visualization.
- Standards-based Management: JMX facilities allow for tie into existing enterprise tools and custom extensibility.

### ▪ Visibility and Control

- Anytime Access: Web-based views into active and past integration, remote system processes, remote logs, and distributed transaction repair facility.
- Graphical Audit Logging: Regardless of distance between systems, centralized log and storage of transaction events for rapid pinpointing of problems or organization compliance.
- Distributed Transaction Repair: - *Fix-It* feature traps erred transactions allowing manual retry from the point of failure (or any step along the integration continuum) or automated scripting for common errors.

Metastorm Integration Manager (MIM) helps you rapidly integrate systems and share information regardless of the diverse technologies, geographic differences, or cross-departmental boundaries. MIM Integration Server focuses on the real-time need for system-to-system business processes. Unlike point-to-point integration techniques, MIM Integration Server orchestrates, manages, and tracks multiple business processes and their activities across diverse system interfaces throughout your enterprise. It keeps operating in the case of temporary system failures and responds to the straightforward or complex needs of your growing organization by providing real-time integration between the most recent and historic of application environments.

With MIM Integration Server (MIM IS), you establish a system interaction “game plan” using visual tooling, and the application executes the plan with one or among multi-thousands of business system interactions. By collecting an audit trail on the steps in the process that you defined, MIM IS provides instant feedback, even when systems are spread throughout the world. Does your organization have a new acquisition, a new business rule, a new step in a process? No problem. MIM Integration Server allows point and click re-definition of processes, providing business integration flexibility through a SOA.

Metastorm's comprehensive integration solution offers a unique process-centric approach that rapidly addresses your integration challenges. Currently deployed in thousands of locations across tens of thousands of computing environments, MIM IS assists a broad range of corporations serving multiple market segments with their real-time applications and data integration needs.

## Know Thyself

**This, Then That, Then These Things Together** – Metastorm designs our software to rapidly express the intent of your business and see it realized and understood throughout your organization. MIM Integration Server demonstrates this beautifully by providing a graphical means for defining steps in a business process and a corresponding execution engine ready to handle the rigorous demands of your enterprise. MIM IS easily handles execution demands around challenging areas such as sequence complexity (contiguous, fork/merge, and sub-process steps), large data volumes and high transaction throughput, and highly variable process timeframes—from those lasting microseconds or days, to those spanning weeks, months, or even years. The structured approach afforded by MIM IS shortens integration efforts, especially across legacy and hard-to-reach platforms and applications. Does a custom COBOL, RPG or C-based application drive a core part of your business? Do you have mainframes and mid-range systems requiring real-time interaction across your business? MIM Integration Server responds with service-enabling capabilities for any of these scenarios and more.

**See the Sea** –Thousands of computing resources run most organizations, constituting a sea of processing power ready to do the organization's bidding. MIM IS helps you get the most out of the resources by helping manage these integrated resources through open standards and clever web-based tools to start, stop, view remote logs, and give overall control over a distributed set of integration services.

## Lower Operational Costs

**Decrease Costly Recovery Time** – It happens. Technologies do fail. Network connections go down, hard drives go bad, and applications generate errors. How long does it take to recover from such failures? How easy is it to pin point the problem and quickly respond? Are you or your technical resources being awakened at night to repair problems that others could have repaired themselves if given the proper tools for recovery? Is recovery time a challenge that is getting harder and more complex in a world of global resources and ever-changing technologies? MIM IS provides a secure web-based centralized view of all your integration activities including operational nodes and their system processes. It features a graphical “follow the bouncing ball” record of active business processes, plus tools to pinpoint the exact location and cause of business integration failures, and a self-serve integration repair facility for common errors. Don't “start all over” if you don't have to. MIM IS not only helps expose the exact problem, but also provides restart directly from the point of failure itself, reducing recover times from potentially hours to minutes.

**It Does it For You** –MIM Integration Server is intelligent. It responds on your behalf, automatically recovering from network and other failures, thus allowing your critical IT resources to focus on high-value tasks. Do you have a common application error for which a work-around exists but it is too costly and time consuming to wait for a vendor fix or to hire resources? MIM IS allows scripting of recovery patterns regardless of the platform, even if such recovery involves multiple distributed system interactions. MIM IS facilitates “lights out” integration operations. It buys back critical time and a sense of control so your business staff can focus on new project priorities.

## Ensure Visibility, Compliance, Security

**Instant Proof: What Happened, When, By Whom** – Auditing in today’s business environment is more important than ever. MIM IS requires no special effort to provide your organization end-to-end auditing of the integration actions on your critical business data. Detailed web-based logging occurs for every transaction, including, time, user authority, and performance. If desired, integration interfaces can be easily added to MIM’s audit log for enhanced traceability. Corporate governance can be ensured through process coordination and by enforcing corporate business rules. Finally, all transactions go through a standard and customizable security infrastructure for consistent, compliant and secure data exchange using SSL and other proven corporate security approaches.

## Customization and Extensibility

**One Family, Reused for Value** – As a member of a broader Metastorm Integration Manager family, MIM IS works seamlessly with MIM MFT and MIM CICS to enable integration sophistication previously unknown. Spanning dozens of systems in parallel, performing multiple Managed File Transfers followed by transactions to CICS, the Metastorm Integration Manager architecture comes together to meet your real world needs. MIM complements a corporate SOA and Enterprise Service Bus (ESB) strategy, often used as an overall manager of distributed integrations to message brokers, Electronic Data Interchange (EDI) translators, and other technologies common to large organizations. The service-enabling capabilities of MIM allow all of these interactions to benefit from common auditing, error handling/trapping, across a unified architecture.

## Product Prerequisites - Overview

### ▪ Operating Systems

- Windows XP (Professional edition SP2)
- Windows Server 2003 (Standard and Enterprise)
- HP-UX 11i v2 (Itanium)\*
- HP-UX 11i v1 and v2 (PA-RISC)
- IBM AIX 5.2 and 5.3
- Sun Solaris 8, 9, and 10 (SPARC)
- Red Hat Enterprise Linux 3, 4, and 5 (x86)
- SUSE Linux Enterprise Server 9 and 10 (x86)
- IBM i5/OS 5.3 and 5.4
- IBM z/OS 1.7, 1.8, and 1.9

### ▪ Messaging

- WebSphere MQ V6.0\*
- WebSphere MQ V7.0 (Q4 2008)

### ▪ Java

- AIX: IBM Java SDK 1.4.2 (32-bit)
- HP-UX: HP Java SDK 1.4.2 (64-bit)\*
- Red Hat Linux: Sun J2SE 1.4.2 (32-bit)
- Solaris: Sun J2SE 1.4.2 (32-bit)
- SUSE Linux: Sun J2SE 1.4.2 (32-bit)

### ▪ Databases\*

- Windows: Microsoft SQL Server 2005
- Oracle 10g R1 and 10g R2, IBM DB2 8.2 (equivalent to 8.1 FixPak 7 or higher) and 9.1
- Unix and Linux: IBM DB2 8.2 (equivalent to 8.1 FixPak 7 or higher) and 9.1
- IBM DB2 5.3 on i5/OS 5.3, DB2 5.4 on i5/OS 5.4
- IBM DB2 7.1 and 8.1 on IBM z/OS 1.7 and 1.8; DB2 8.1 and 9.1 on z/OS 1.9

For more information, visit Metastorm at <http://www.metastorm.com>.

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