



Tivoli software

IBM Tivoli OMEGAMON XE for WebSphere Business Integration

Highlights

- ***Simplify management with a single tool for monitoring IBM WebSphere MQ, IBM WebSphere Business Integration Message Broker and IBM WebSphere InterChange Server***
- ***Help minimize downtime of mission-critical applications by enabling rapid, accurate problem identification and resolution***
- ***Proactively prevent problems by automating responses to recurring problems***
- ***Leverage customized dashboards to deliver role-based insights to staff and executives — and thereby drive productivity***
- ***Automate execution of best practices, drawing on expert advice***

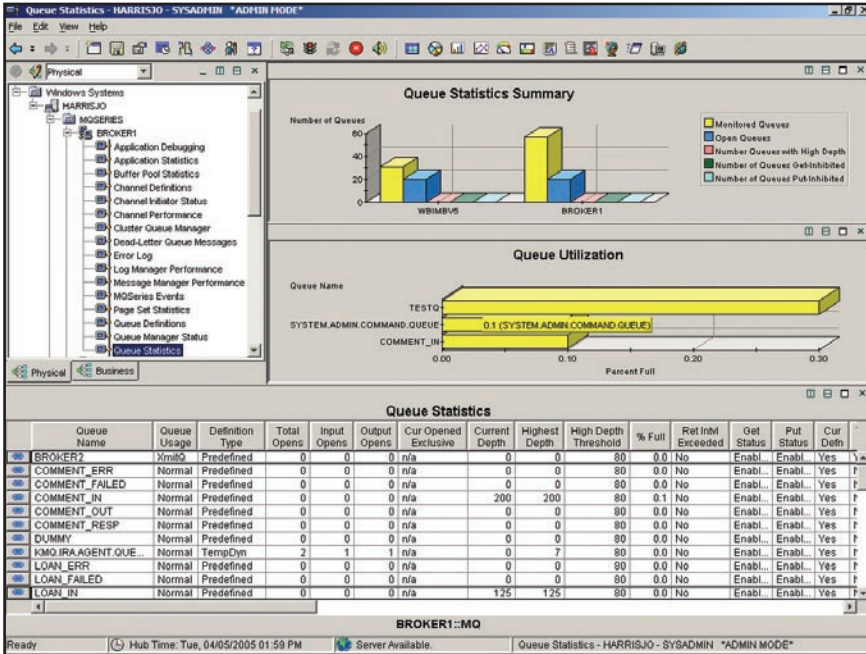
In an on demand business, mission-critical applications are frequently *composite applications*; that is, they involve complex transaction pathways between multiple run-time environments — across and beyond an enterprise. As a result, transporting and mediation of messages between systems is a crucial part of an overall application. To maximize the availability and performance of its applications, an organization needs tools that enable staff to monitor and simplify management of its messaging infrastructure and business integration systems.

Companies frequently turn to WebSphere® MQ for communications between J2EE™ and legacy back-end systems. And they use broker technologies such as WebSphere Business Integration Message Broker to mediate messages. These offerings enable high-transaction-volume online businesses to support their growing operations. As their composite applications expand to include trading

partners, companies leverage the collaborative capabilities of WebSphere InterChange Server.

The use of these messaging and business integration technologies is often necessitated by mergers and acquisitions. If an organization is going to integrate systems from multiple data centers — and manage them in a centralized, consistent fashion — it needs robust tools that simplify monitoring, configuration and management across highly distributed environments.

In both distributed and mainframe environments, what is needed is a single tool for monitoring and managing this wide range of business integration technologies. And IBM Tivoli® OMEGAMON® XE for WebSphere Business Integration is a comprehensive suite of monitoring and configuration tools for WebSphere MQ, WebSphere Business Integration Message Broker and WebSphere InterChange Server.



Easily see which queues are open and the number of messages residing on the queue. See how long messages have been there, and determine how long it will take to drain this queue.

By deploying Tivoli OMEGAMON XE for WebSphere Business Integration, your organization can:

- Understand your WebSphere MQ, WebSphere Business Integration Message Broker and WebSphere InterChange Server infrastructure.
- Analyze application performance to identify slow or unavailable applications before customers are impacted – use comprehensive monitoring of input/output message rates, brokers, message flows and subflows.

- Help simplify the process of isolating the cause of performance problems by leveraging advanced, deep-dive diagnostic capabilities.
- More rapidly address problems with automated corrective actions.

Monitor WebSphere MQ communication from end to end

Asynchronous communication is difficult for many organizations to manage because they lack the tools to monitor it across all systems — and to drill down to problem sources. With Tivoli OMEGAMON XE for WebSphere Business Integration, your staff can take advantage of an end-to-end view

of your WebSphere MQ systems, and drill from the summary level down into the detail level to quickly locate problems, identify root causes and resolve bottlenecks and outages.

Tivoli OMEGAMON XE for WebSphere Business Integration helps your organization:

- Monitor input and output rates and queue depth of queues used for mission-critical applications, to determine whether the application is keeping up with demand – especially during peak periods.
- Observe trends in these rates to help determine scaling requirements, identify the need to improve applications and understand the behavior of new application configurations.
- Measure the capacity of channels that connect applications – how many messages and how many bytes flow over the channel; what percentage of the messages are from one application or another; how additional traffic to one application will affect channel performance; and more.
- Alert operators when connectivity is interrupted so that they can quickly restart the channel to regain connectivity to remote systems, or automate these actions.
- Automatically discover WebSphere MQ components and then immediately monitor them.

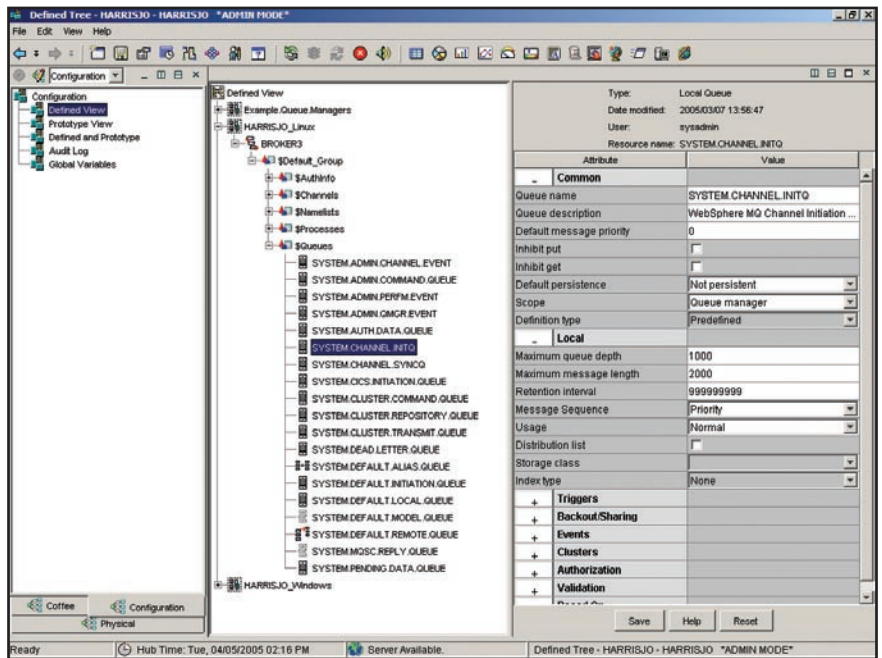
Optimize WebSphere MQ configuration

Beyond its advanced WebSphere MQ monitoring and diagnosis capabilities, Tivoli OMEGAMON XE for WebSphere Business Integration features an unmatched set of capabilities to help you simplify and centralize WebSphere MQ management.

To facilitate centralized changes, the software enables you to collect configuration information for all your WebSphere MQ queue managers into a central repository. From a single management console, you can:

- *Define your WebSphere MQ environments.*
- *Easily add, make changes to and delete objects associated with a queue manager.*
- *Schedule the deployment of updates – immediately or at a user-specified time that helps minimize disruption to business applications.*

By selecting the verification option, you can also direct Tivoli OMEGAMON XE for WebSphere Business Integration to check whether all dependencies for the object are also defined. For example, when you define a new channel, the software will check whether you have defined a transmission queue and destination queue manager.



Easily configure your entire WebSphere MQ infrastructure using the Tivoli OMEGAMON XE for WebSphere Business Integration configuration tool. Then verify the configuration and schedule the deployment to be done automatically.

One of the biggest challenges for an IT staff managing WebSphere MQ configurations is large deployments, which can be incredibly time-consuming and error-prone. That's why Tivoli OMEGAMON XE for WebSphere Business Integration enables users to create and update prototypes for WebSphere MQ objects and queue managers, define the object or queue manager once and then deploy it multiple times. When application requirements change, simply adjust the prototype and redeploy it to bring the other objects and queue managers into alignment.

Track both broker availability and message flows through the broker

Monitoring the availability of WebSphere Business Integration Message Broker is important. If it becomes unavailable, your staff should be alerted, the broker should be automatically restarted or both. Tivoli OMEGAMON XE for WebSphere Business Integration enables you to perform these functions and track the frequency and timing of message flows within WebSphere Business Integration Message Broker. As a result, the software helps you fine-tune broker performance to help meet service level agreements.

Tivoli OMEGAMON XE for WebSphere Business Integration operates throughout the application life cycle — development, testing, deployment and production — so you can:

- *Obtain accurate baselines for broker performance, then use these baselines during testing of new message flows to help address offending message flows before they are put into production.*
- *Apply information about broker performance gathered during testing to help maximize availability of the production environment.*
- *Track processing nodes that act on the message format or data enrichment of a message, as well as on those that make routing decisions based on message content.*
- *Monitor message flows in production to help identify problems before they create larger issues.*
- *Measure the frequency with which message flows are executed and the timing of these message flows over time, to determine if there is a change in the execution of message flow.*

Monitor WebSphere InterChange Server performance

Tivoli OMEGAMON XE for WebSphere Business Integration helps you keep track of the status of both your WebSphere InterChange Server and any collaborations. As a result, you can obtain early warnings before problems affect your business applications.

The software enables you to monitor server, collaboration and connector data collected from IBM Simple Network Management Protocol (SNMP) agents — and view statistics derived from that data, such as averages, percentages and rates. Additionally, you can monitor information collected from the central server log in which WebSphere InterChange Server components record messages.

For example, when a collaboration has been restarted but messages do not appear to be flowing, a particular connector may also need to be restarted. Using Tivoli OMEGAMON XE for WebSphere Business Integration, you can automatically detect and restart stopped connectors. Additionally, the software helps you determine when large transaction volumes cause slowdowns in the WebSphere InterChange Server.

Diagnose and address problems within easily personalized workspaces

By taking advantage of the easily customized workspaces in Tivoli OMEGAMON XE for WebSphere Business Integration, your IT staff can quickly pull together metrics, dynamic charts, tables and graphics while investigating specific performance issues from multiple vantage points. Help optimize staff productivity — and application availability — by minimizing the time spent hunting down the causes of slow performance.

Your IT staff can investigate and diagnose problems within easily personalized workspaces that help users:

- *View problems from multiple perspectives, including business, platform and resource views — charts, graphics and dynamic tables enable substantial insight.*
- *Intuitively drill down to the source of contentions and other problems.*
- *Identify trends and develop capacity plans by leveraging views of historical statistics.*

Automate problem notification and resolution

Like other Tivoli OMEGAMON XE monitors, Tivoli OMEGAMON XE for WebSphere Business Integration features supplied and customizable situations that you can use to detect and repair problems as they happen. Easily tailor alerts to your environment and facilitate automatic resolution of recurring problems. Features that help you act in a proactive fashion include:

- *Situation Editor – Set up your own intelligent alerts and thresholds based on detailed and/or logic that give you the power to create granular notification and eliminate many false alarms.*
- *Take Action – Resolve recurring problems by running built-in scripts or new scripts, which you can create easily.*
- *Expert Advice – Mouse over an alert to receive a detailed explanation of the problem and potential fixes. Use knowledge out of the box or edit the feature to preserve solutions specific to your environment.*

Tivoli OMEGAMON XE for WebSphere Business Integration helps you maximize productivity by preserving critical staff knowledge. When problems recur and trigger alerts, you can use the software to respond with automated fixes.

Supported software and platforms

Tivoli OMEGAMON XE for WebSphere Business Integration, Version 1.1, supports the following:

- WebSphere MQ, Version 5.3 and above
- IBM WebSphere MQ Integrator, Version 2.1
- IBM WebSphere Business Integration Event Broker and WebSphere Business Integration Message Broker, Version 5.0 and above
- WebSphere InterChange Server, Versions 4.2.2 and 4.3

Supported platforms:

- IBM AIX®, Version 5.2 and above
- HP-UX, Version 11i
- Sun Solaris 8 and above
- IBM OS/400®, Version 5.1 and above
- Microsoft® Windows® 2000 Professional
- Windows 2003 Server
- Windows XP Professional
- HP NonStop
- Linux® Intel®, 2.4 kernel and above
- IBM zSeries® Linux
- IBM z/OS®, Version 1.5 and above

Support your larger availability and application management efforts

Because performance and availability problems aren't limited to a single platform, Tivoli OMEGAMON XE for WebSphere Business Integration works in conjunction with other Tivoli OMEGAMON XE solutions to identify and track problems across your enterprise. You can also leverage IBM Tivoli OMEGAMON DE on z/OS to see information from multiple Tivoli OMEGAMON XE monitors and third-party software — in a single location. This helps you make decisions quickly, efficiently and proactively on an enterprise level.

Furthermore, Tivoli OMEGAMON XE for WebSphere Business Integration is a key part of the Tivoli solution that addresses all three dimensions of effective application management:

1. *Transactions – service level response times and problem isolation.*
2. *Applications – deep-dive diagnostics and correlation across subsystems.*
3. *Resource monitoring – application server monitoring and resource consumption.*



For more information

To learn more about how Tivoli OMEGAMON XE for WebSphere Business Integration helps you optimize your enterprise-wide messaging infrastructure from a single point of control, call your IBM representative or IBM Business Partner, or visit ibm.com/tivoli/products/omegamon-xe-websphere-bus-int

Tivoli software from IBM

An integral part of the comprehensive IBM on demand infrastructure solution, Tivoli technology management software helps traditional enterprises, emerging on demand businesses and Internet businesses worldwide maximize their existing and future technology investments. Backed by world-class IBM services, support and research, Tivoli software provides a seamlessly integrated and flexible on demand business infrastructure management solution that uses robust security to connect employees, business partners and customers.

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Software Group
Route 100
Somers, NY 10589
U.S.A.

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