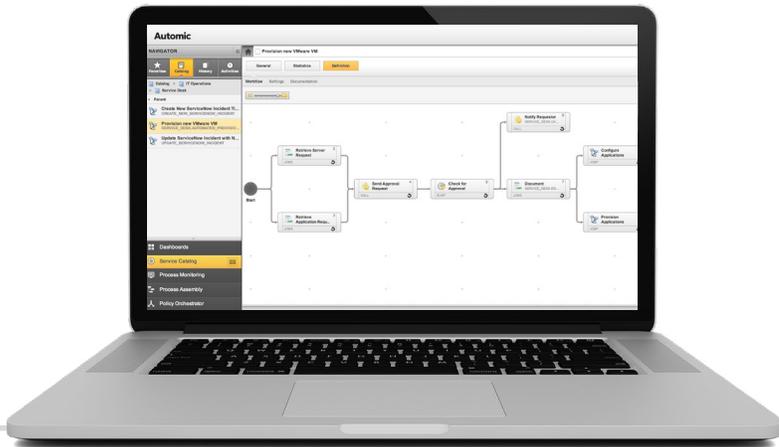


Automatic Workload Automation for JMS

Continuous Operations from Automatic



Key Benefits

- Native support for all common JMS systems – e.g. Tibco EMS, IBM Websphere MQ, Oracle JMS, Apache Active MQ
- Diverse JMS message payloads – e.g. plain text, XML, JSON, YAML, Key-Value-Pairs (Map), Binary
- Business Process Integration with Send JMS Messages, Receive JMS Messages (with filtering)
- One agent supports multiple JMS providers, no need for parallel agent installations
- High Scalability, multi-agent model

Business Challenge

ESBs (enterprise service buses), message buses and other integration middleware already successfully connect completely different software services with each other. Software developed in-house, sophisticated enterprise applications and traditional mainframe software use reliable messaging systems. These offer easy ways to build up communication and data exchange.

The challenge lies in how to automate these applications. How can the established automation functionality be used with message-based systems?

The Automatic Solution

Continuous Operations for JMS introduces native integration into messaging systems and therefore into all message-based applications. Users can build an approval workflow between different mainframe, ESB, WOA or SOA-connected services.

“Loosely coupled, web-oriented architecture (WOA)-based software architectures are enabling development teams to increasingly operate independently, while improving overall application resiliency.” - Gartner, 2014

AWA delivers easy, out-of-the-box support for messaging servers and ESBs. Continuous Operations from Automatic for JMS is therefore a solid communication instrument between workload automation, SOA (service-oriented architecture) and WOA (web-oriented architecture).

Traditional transaction servers like IBM CICS on the mainframe also operate with JMS interfaces. Continuous Operations from Automatic for JMS can also be used to fully automate hardware-oriented production systems. Why not send a JMS message for a newly on-boarded customer directly to the loyalty card printer and print the name and customer number directly onto the card? The solution allows you to build a complete end-to-end business process and include or reuse these technical workflows and production steps directly within the solution.

Another Piece in the Puzzle

Continuous Operations from Automatic for JMS provides a central solution for data interchange between workflows and external, middleware-connected applications. Continuous Operations from Automatic for JMS is the universal middleware connector and extends the Automatic platform with one more powerful connectivity tool.

JMS events can be modeled using Continuous Operations from Automatic for JMS. Fully configurable inbound JMS messages can completely control the execution of a workflow, be used as switches within workflows, or easily make a workflow wait for specific events with regard to JMS messages before continuing.

How it Works

At the beginning, a reusable connection object has to be created and mapped to an external messaging server through an agent, e.g. IBM WebSphere MQ Series. This connection object can contain predefined queues, topics, headers etc. for later use.

Continuous Operations from Automic for JMS differentiates three main use cases:

- Send message: to a queue or topic
- Receive synchronous message: block a workflow execution until one specific message arrives (single event type)
- Receive asynchronous messages: introduce a listener, which continuously listens for certain messages and triggers an action afterwards (continuous message listener type)

Individual job types do exist for sending as well as receiving JMS messages.

It is unusual for a JMS activity to sit in isolation. Continuous Operations from Automic provides the process automation to manage a business process from end to end, including the steps before and after the JMS activities, passing data and results between the activities and providing visibility and auditing for process owners.

Part of a Unified Business Automation Platform

Automic allows companies to take a systematic approach to automation by incrementally replacing multiple ad hoc tools with a centralized platform – allowing businesses to scale their investment across people, process and technology. Automic

executes core business, application and infrastructure processes – whether on-premise, in the cloud or the hybrid between – providing visibility and control across the entire business.

Why Choose Automic?

- Full native JMS integration into business workflows: extend existing workflows to also support data exchange
- Mass data-ready solution with parallel agents for workload distribution
- Extend the existing Automic solution to also support asynchronous communication
- Include your distributed applications and heterogeneous systems of WOA and SOA through ESBs and therefore JMS middleware with message-based control instruments
- Continuous Operations from Automic for JMS enables loose coupling and decoupling of applications
- No dependency on specific vendors
- Guaranteed point-to-point communication (1:1, queue)
- Publish-Subscribe technology (several recipients, topic)
- Reportability on messaging server
- Portability of jobs to other messaging system vendors

For more information or product demonstration please visit www.automic.com