

Message Broker (MB)



Spending too much time searching various systems to perform your job?

- Integrates business and manufacturing software systems
- Highly configurable for ease-of-use
- Supports abnormal situation alert, asynchronous transaction processing and guaranteed message delivery
- Reduces total lifecycle costs
- Supports standard webparts

Introduction

Syncade Smart Operations Management Suite provides a modular, manufacturing IT solution to increase manufacturing performance by managing resources, optimizing operations, and providing quality management. In almost all facilities, many various computerized systems are involved in the manufacturing process, which often leads to silos of disparate information. With Syncade suite, you can coordinate the various work processes governed by these different applications into one, easy-to-use system.

Message Broker (MB), a core functionality of Syncade suite, enables communication between systems through controlled, information transaction management. It coordinates information between Syncade Smart Operations Management Suite and other computerized systems. Message Broker provides a configurable Service Oriented Architecture solution that enables Syncade suite to process XML

transactions to and from other manufacturing systems; thus, coordinating the various systems used in manufacturing.

Benefits

Integrates business and manufacturing software systems. Many manufacturing facilities use numerous systems that don't often communicate with each other, resulting in an inefficient use of time and resources. Syncade suite enables easy communication between business and manufacturing systems. It helps improve productivity by coordinating activities and eliminating duplicate efforts or manual data entry. Syncade suite can automatically create manufacturing orders with automated downloads from the ERP. It can also automatically reconcile Bill of Materials in your ERP while pulling process data from your control system, CMMS systems, Lab systems, Deviation systems, and more. Using Syncade suite as a single engine tool to gather all your data needs from the manufacturing process, you can streamline your process and improve productivity. Message Broker synchronizes your key business and plant floor systems for total knowledge management.

Highly configurable for ease-of-use. Every transaction has individual settings, such as retries, logging, email notification, which provide flexibility to meet production needs. This functionality notifies the proper individuals of issues as they arise, rather than a central email for all errors. New adapters to virtually any system can be



configured to allow for future growth and expansion.

Supports abnormal situation alert, asynchronous transaction processing and guaranteed message delivery. Don't be constrained by system downtimes. Syncade suite can continue the manufacturing process even when other systems may not be available. Message Broker allows for the number of attempts to be configured before time out. Email notification of a time out can be sent immediately – helping to quickly identify if another system has gone down. Upon restart of the timed-out system, failed transactions can be reprocessed as if the issue had not occurred. This capability enables real time troubleshooting and monitoring of the process.

Reduces total lifecycle costs. Message Broker, a core functionality within Syncade suite, helps to lower your total lifecycle costs. Streamline your business practices with a trusted, single vendor solution.

Supports standard webparts. This out-of-the-box solution provides reduced install and integration time to get you up and running faster.

Product Description

Message Broker, a core feature of Syncade suite, is a centralized queue for performing communication tasks between Syncade modules and third party applications to synchronize functions and share information. Message Broker manages the lifetime of those tasks and provides logging and notification services for each task.

Through Message Broker, disparate systems can communicate to Syncade suite which then provides a single access point to various data sources - improving productivity and expediting product release, investigation closure, etc.

Message Broker Functions:

- XML Message Formatting
- Transaction Processing
- Message Queue Management
- Error detection and notification
- Task Scheduling

Available Connectors:

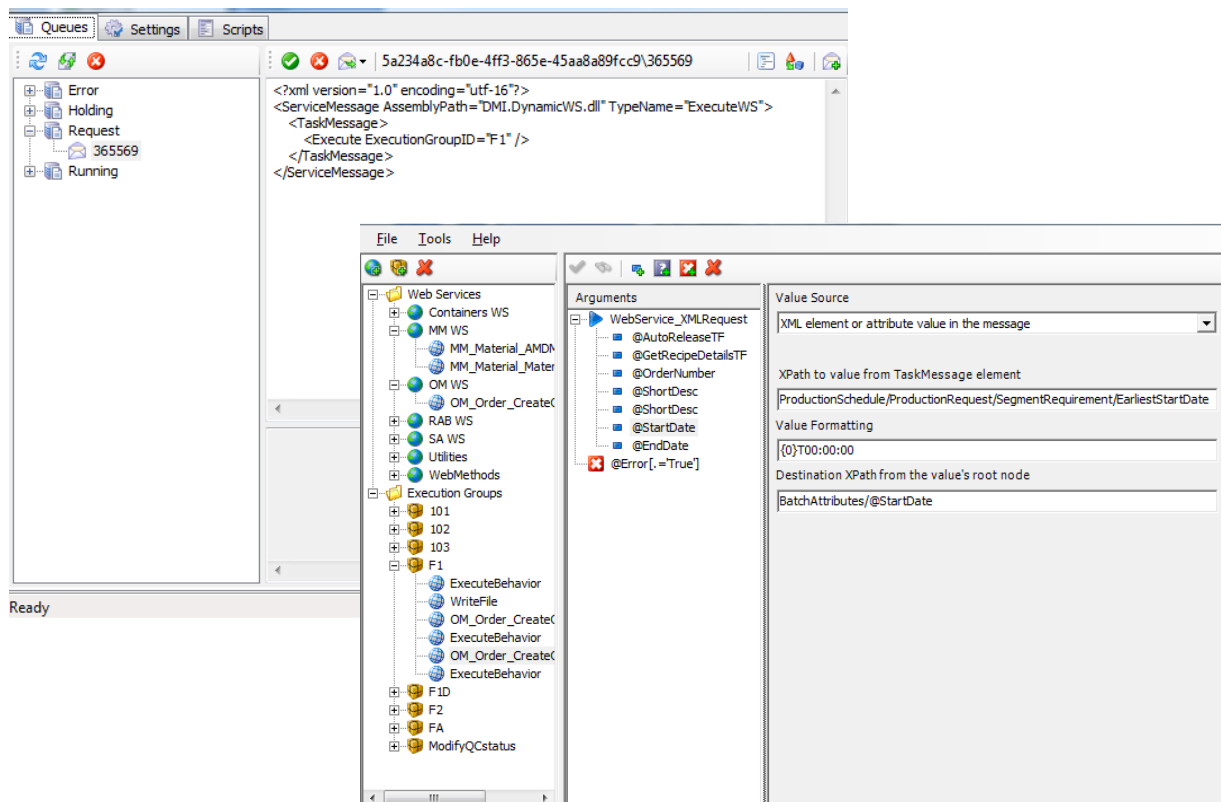
- OPC DA
- SAP NetWeaver
- Data Stream
- Thermo SampleManager
- Junot Systems NLINK
- Others Available Upon Request

Other Syncade Smart Operations Management Modules

- Equipment Tracking (ET)
- Batch Production Records (BPR)
- Materials Management (MM)
- Weigh & Dispense (WD)
- Recipe Authoring (RA)
- Security & Audit (SA)
- Electronic Batch Record (EBR)
- Process Workflow (WF)
- Training & Development (TD)
- Manufacturing Information Portal (MIP)

General System Requirements

A server class PC with Internet Explorer is needed to support the Syncade solution. Microsoft SQL Server is the underlying database. Please consult the factory for further details regarding hardware requirements and software versions.



Highly configurable to meet your manufacturing needs.

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