# IBM Tivoli Composite Application Manager for Microsoft Applications: Microsoft BizTalk Server Agent

6.3.1 Fix Pack 13

*Reference*

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**Note**
Before using this information and the product it supports, read the information in "Notices" on page 187.

This edition applies to version 6.3.1.13 of IBM Tivoli Composite Application Manager for Microsoft Applications: Microsoft BizTalk Server Agent (product number XXXXX) and to all subsequent releases and modifications until otherwise indicated in new editions.

# Contents

# Chapter 1. Workspaces

A workspace is the working area of the Tivoli® Enterprise Portal application window. The Navigator contains a list of the workspaces provided by the agent.

## About workspaces

Use the Navigator to select the workspace you want to see. As part of the application window, the status bar shows the Tivoli Enterprise Portal Server name and port number to which the displayed information applies and the ID of the current user.

When you select an item in the Navigator, a default workspace is displayed. When you right-click a navigator item, a menu that includes a Workspace item is displayed. The Workspace item contains a list of workspaces for that navigator item. Each workspace has at least one view. Some views have links to other workspaces. You can also use the Workspace Gallery tool as described in the *Tivoli Enterprise Portal User's Guide* to open workspaces.

The workspaces in the Navigator are displayed in a Physical view that shows your enterprise as a physical mapping or a dynamically populated logical view that is agent-specific. You can also create a Logical view. The Physical view is the default view.

This monitoring agent provides predefined workspaces. You cannot modify or delete the predefined workspaces, but you can create new workspaces by editing them and saving the changes with a different name.

Workspace views can be any combination of query-based views, event views, and special purpose views.

## Additional information about workspaces

For more information about creating, customizing, and working with workspaces, see "Using workspaces" in the *Tivoli Enterprise Portal User's Guide*.

For a list of the predefined workspaces for this monitoring agent and a description of each workspace, see Predefined workspaces and the information about each individual workspace.

Some attribute groups for this monitoring agent might not be represented in the predefined workspaces or views for this agent. For a full list of the attribute groups, see "Attribute groups for the monitoring agent" on page 18.

# Predefined workspaces

The Microsoft BizTalk Server agent provides predefined workspaces, which are organized by navigator item.

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  - RFID workspace
- TDDS navigator item
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  - TDDS Details workspace

## Workspace descriptions

Each workspace description provides information about the workspace such as the purpose and a list of views in the workspace.

Workspaces are listed under navigator items.

## Microsoft BizTalk Server navigator item

The workspace descriptions are organized by the navigator item to which the workspaces are relevant.

**Microsoft BizTalk Server workspace**

This workspace displays the overall state of the Microsoft BizTalk Server.

This workspace contains the following views:

**Availability**

This report displays the state of services and processes in the application. The state is UP if the service is running, DOWN if the service exists but is not running. UNKNOWN indicates that the service is not installed.

**Thread Count for Host Instance**

This bar chart displays the number of threads that are being used within the process.

**Host Memory Usage**

This bar chart displays the private and virtual memory in megabytes allocated for the host instance.

**Throttled Received Batches**

This bar chart displays the number of batches that have been blocked on receive by the Messaging Engine due to high service load. These batches contain new messages to be processed.

## Adapters navigator item

The workspace descriptions are organized by the navigator item to which the workspaces are relevant.

**Adapters workspace**

This workspace displays detailed information of the File Receive Adapter.

This workspace contains the following views:

**File Receive Adapter Details**

This report shows the overall performance information of the File Receive Adapter.

**Delete Retries**

This bar chart shows the number of times the File Receive Adapter attempts to delete a file that has been read.

**Lock File Failures**

This bar chart shows the number of times the File Receive Adapter failed to lock the file.

**File Receive Adapter - Data Received workspace**

This workspace displays detailed information of the File Receive Adapter rate.

This workspace contains the following views:

**Kilobytes Received**

This bar chart shows the total number of kilobytes received by the File Adapter.

**Messages Received**

This bar chart shows the total number of messages received by the File Receive Adapter. It is incremented after a message is read by the File Receive Adapter from the file system.

**File Send Adapter workspace**

This workspace displays the File Send Adapter performance measures.

This workspace contains the following views:

**File Send Adapter Details**

This report shows the overview of File Send Adapter performance counters.

**Kilobytes Sent**

This bar chart shows the total number of kilobytes sent by the file adapter.

**Messages Sent**

This bar chart shows the total number of messages sent by the File Send Adapter.

**FTP Receive Adapter workspace**

This workspace displays detailed information of FTP Receive Adapter.

This workspace contains the following views:

**FTP Receive Adapter Details**

This report shows the overall performance information of FTP Receive Adapter.

**Kilobytes Received**

This bar chart shows the total number of kilobytes received by the FTP Receive Adapter.

**Messages Received**

This bar chart shows total number of messages received by the FTP Receive Adapter. It is incremented after a message is read by the FTP Receive Adapter from the FTP server.

**FTP Send Adapter workspace**

This workspace shows the FTP Send Adapter performance measures.

This workspace contains the following views:

**FTP Send Adapter Details**

This report contains overall information about the FTP Send Adapter.

**Kilobytes Sent**

This bar chart shows the total number of kilobytes sent by the FTP adapter.

**Messages Sent**

This bar chart shows the total number of messages sent by the FTP Send Adapter. It is incremented only for messages that have been written to the destination FTP server.

**HTTP Receive Adapter workspace**

This workspace displays detailed information of the HTTP Receive Adapter.

This workspace contains the following views:

**HTTP Receive Adapter Details**

This report shows the overall performance information of the HTTP Receive Adapter.

**Messages in Adapter Queue**
This bar chart shows the number of incoming messages in the HTTP Receive Adapter's internal memory queue.

**Messages Received**
This bar chart shows the total number of HTTP requests received by the HTTP Receive Adapter. It is incremented after a request message is read by the HTTP Receive Adapter from the HTTP client.

**Messages Sent**
This bar chart shows the total number of HTTP responses sent by the HTTP Receive Adapter. It is incremented only for response messages that have been successfully sent to HTTP clients.

**HTTP Send Adapter workspace**
This workspace displays detailed information of HTTP Send Adapter.

This workspace contains the following views:

**HTTP Send Adapter Details**
This report shows the overall performance information of HTTP Send Adapter.

**Messages in Adapter Queue**
This bar chart shows the number of outgoing messages in the HTTP Send adapter's internal memory queue.

**Messages Received**
This bar chart shows the total number of HTTP response messages received by the HTTP Send Adapter. It is incremented after a response message is read by the HTTP Send Adapter from HTTP servers.

**Messages Sent**
This bar chart shows the total number of HTTP requests sent by the HTTP Send Adapter. It is incremented only for request messages that have reached the destination URL.

**MSMQ Receive Adapter workspace**
This workspace displays the MSMQ Receive Adapter performance measures.

This workspace contains the following views:

**MSMQ Receive Adapter Details**
This report shows overview of MSMQ performance counters.

**Kilobytes Received**
This bar chart shows the total number of kilobytes received by the MSMQ Receive Adapter.

**Messages Received**
This bar chart shows the total number of messages received by the MSMQ Receive Adapter. It is incremented after a message is read by the MSMQ Receive Adapter from the source queue.

**MSMQ Send Adapter workspace**
This workspace displays detailed information of MSMQ Send Adapter.

This workspace contains the following views:

**MSMQ Send Adapter Details**
This report shows the overall performance information of MSMQ Send Adapter.

**Kilobytes Sent**
This bar chart shows the total number of kilobytes sent by the MSMQ adapter.

**Messages Sent**
This bar chart shows total number of messages sent by the MSMQ Send Adapter. It is incremented only for messages that have reached the destination queue.

**POP3 Receive Adapter workspace**
This workspace displays the POP3 Receive Adapter performance measures.

This workspace contains the following views:

**POP3 Receive Adapter Details**
This report shows overview of POP3 performance counters.

**Kilobytes Received**
This bar chart shows the total number of kilobytes received by the POP3 Receive Adapter.

**Messages Received**
This bar chart shows the total number of number of e-mail messages downloaded by the POP3 adapter from a mail server.

**Active Sessions**
This bar chart shows the number of open POP3 connections the POP3 adapter is managing at a time.

**SFTP Receive Adapter workspace**
This report shows the overall performance information of the SFTP receive adapter.

This workspace contains the following views:

**SFTP Receive Adapter Details**
This report shows the overall performance information of the SFTP receive adapter.

**Kilobytes Received**
This bar chart shows the total number of kilobytes received by the SFTP receive adapter.

**Messages Received**
This bar chart shows the total number of messages received by the SFTP receive adapter. The counter increases after a message from the SFTP server is read by the SFTP receive adapter.

**SFTP Send Adapter workspace**
This workspace displays the SFTP send adapter performance measures.

This workspace contains the following views:

**SFTP Send Adapter Details**
This report shows the overall performance information of the SFTP send adapter.

**Kilobytes Sent**
This bar chart shows the total number of kilobytes sent by the SFTP send adapter.

**Messages Sent**
This bar chart shows the total number of messages sent by the SFTP send adapter. The counter increases only for the messages that are written to the destination SFTP server.

**SMTP Send Adapter workspace**
This workspace displays the SMTP Send Adapter performance measures.

This workspace contains the following views:

**SMTP Send Adapter Details**
This report shows the overview of the SMTP Send Adapter performance counters.

**Messages Sent**
This bar chart shows the total number of messages sent by the SMTP adapter.

**Messages Sent Per Second**
This bar chart shows the number of messages sent by the SMTP adapter per second. This applies only to messages that have been transmitted to the SMTP server.

**SOAP Receive Adapter workspace**
This workspace displays detailed information of the SOAP Receive Adapter.

This workspace contains the following views:

**SOAP Receive Adapter Details**
This report shows the overall performance information of the SOAP Receive Adapter.

**Messages Received**
This bar chart shows the total number of messages received by the SOAP Receive Adapter. It is incremented after a request message is read by the SOAP adapter from the SOAP client.

**Messages Received Per Second**
This bar chart shows the number of messages received per second by the SOAP Receive Adapter.

**SOAP Send Adapter workspace**
This workspace displays detailed information of the SOAP Send Adapter.

This workspace contains the following views:

**SOAP Send Adapter Details**
This report shows the overall performance information of the SOAP Send Adapter.

**Messages Sent**
This bar chart shows the total number of messages sent by the SOAP Send Adapter. It is incremented only for messages that have reached the destination URL.

**Messages Sent Per Second**
This bar chart shows the number of messages sent by the SOAP Send Adapter per second. This applies only to messages that have reached the destination URL.

**SQL Receive Adapter workspace**
This workspace displays detailed information of SQL Receive Adapter.

This workspace contains the following views:

**SQL Receive Adapter Details**
This report shows the overall performance information of SQL Receive Adapter.

**Messages Received**
This bar chart shows the total number of messages read by the SQL Receive Adapter from a SQL server.

**Messages Received Per Second**
This bar chart shows number of messages read by the SQL Receive Adapter from a SQL server per second.

**SQL Send Adapter workspace**
This workspace displays detailed information of SQL Receive Adapter.

This workspace contains the following views:

**SQL Send Adapter Details**
This report shows the overall performance information of SQL Send Adapter.

**Messages Sent**
This bar chart shows the total number of messages sent by the SQL Send Adapter. It is incremented only for messages that have been written to the destination SQL table.

**Messages Sent Per Second**
This bar chart shows number of messages sent by the SQL Send Adapter per second. This is applies only to messages that have been written to the destination SQL table.

**Windows SharePoint Services Adapter workspace**
This workspace displays detailed information of the Windows SharePoint Services adapter.

This workspace contains the following views:

**WSS Adapter Details**
This report shows the overall performance information of the Windows SharePoint Services adapter.

**Percentage Failures**
This bar chart shows the percentage of failure.

**Total Failures**
This bar chart shows the total failure information.

**Web Service Calls Per Second**
This plot chart the number of Windows SharePoint Services adapter Web service calls per second.

## Availability navigator item

The workspace descriptions are organized by the navigator item to which the workspaces are relevant.

**Availability workspace**
The Availability workspace displays the overall health of the application.

This workspace contains the following views:

**Availability**
Displays the state of each component in the application. Each service is displayed using a descriptive name, the short name of the service, and the state of the service (UP, DOWN,

or UNKNOWN). The state is UP if the service is running, DOWN if the service exists but is not running. UNKNOWN indicates that the service is not installed, so these elements are filtered from the view. When the state of the component is DOWN (for a process, or service) it is highlighted with a red background.

**Processor**
Displays the amount of CPU used by each process that is a component of the application. This displays the 2 main components of CPU usage, privileged time which is time spent in the kernel on behalf of the process and user mode time, which is the time spent running the process code.

**Threads**
Displays the number of threads used by each process that is a component of the application.

**Memory**
Displays the amount of memory being consumed by each process that is a component of the application. This total (virtual) size of the process and the size of the process in memory (working set) are displayed.

**Performance Object Status workspace**
This workspace displays the overall health of the application.

This workspace contains the following view:

**Performance Object Status**
This report displays the status of the collection of data from the application. Normally this will display NO ERROR indicating that the agent is collecting application data correctly. If some of the agent's other views are empty, this view will help isolate the cause of the failure. PerfMon objects will display the object class name.

## Business Activity Monitoring navigator item

The workspace descriptions are organized by the navigator item to which the workspaces are relevant.

**BAM Interceptor workspace**
This workspace shows the information about the duration of extract and flush operations per BAM event.

This workspace contains the following views:

**Extraction Duration Per BAM Event**
This bar chart contains information about the duration of the extract operation for each BAM event.

**Flush Duration Per BAM Event**
This bar chart contains information about the duration of the flush operation for each BAM event.

**BAM Interceptor Details**
This report contains information about the BAM interceptor.

**Business Activity Monitoring workspace**
This workspace shows the details about business activity monitoring events.

This workspace contains the following views:

**BAM Events**
This bar chart contains information about the successful and failed BAM events.

**Event Batches Awaiting Generation**
This line chart contains information about the potential backlogs of event batches for an application.

**Subscriptions Disabled**
This line chart contains information about the number of disabled subscriptions.

**Distributors Details**
This report contains information about the distributor components.

**Delivery Channels and Event Providers workspace**
This workspace shows information about the delivery channel and event provider objects.

This workspace contains the following views:

**Delivery Channels Details**
This report contains information about the delivery channels.

**Event Providers Details**
This report contains information about the event providers.

**Events Received Per Second**
This line chart contains information about the events received per second.

**Event Batches Details - Top 5 Event Batches aborted**
This bar chart contains information about the top 5 event batches that were aborted.

**Distributors and Subscriptions workspace**
This workspace shows the information about the distributor and subscription objects.

This workspace contains the following views:

**Format Requests Details - Top 5 Format Requests Failed**
This bar chart contains information about the top 5 format requests that failed.

**Subscriptions Enabled**
This line chart contains information about the subscriptions that are enabled.

**Subscriptions Details**
This report contains information about the subscriptions.

**Delivery Requests Details Top 5 Delivery Requests Failed**
This bar chart contains information about the delivery activities of a distributor.

**Events workspace**
This workspace shows information about the events objects.

This workspace contains the following views:

**Event Batches In Collections**
This line chart contains information about the event batches that are in collections.

**Event Batches Submitted**
This line chart contains information about the event batches that are submitted.

**Events Details**
This report contains information about the events.

**Generator workspace**
This workspace shows information about the generator objects.

This workspace contains the following views:

**Rules Firing Details - Top 5 Rule Firing Failures**
This bar chart contains information about the top 5 rule firing failures.

**Notifications Generated Per Second**
This line chart contains information about the notifications generated per second.

**Generator Details**
This report contains information about the generator.

**Notifications workspace**
This workspace shows the information about the notifications objects.

This workspace contains the following views:

**Notification Batches Details - Top 5 Notification Batches Failed Delivery**
This bar chart contains information about the top 5 notification batches that failed delivery.

**Notifications Details**
This report contains information about the notifications.

**Notifications Delivery Details - Top 5 Notifications Failed Delivery**
This bar chart contains information about the delivery details of top 5 notifications that failed delivery.

**Subscribers workspace**
This workspace shows information about the subscriber objects.

This workspace contains the following views:

**Subscribers Disabled**
This line chart contains information about the subscribers that are disabled.
**Subscribers Enabled**
This line chart contains information about the subscribers that are enabled.
**Subscribers Details**
This report contains information about the subscribers.

**Vacuumer workspace**
This workspace shows information about the vacuumer objects.

This workspace contains the following views:
**Quanta vacuumed**
This line chart contains information about the quanta vacuumed.
**Timeouts**
This line chart contains information about the timeouts.
**Vacuumer Details**
This report contains information about the vacuumer.

## Configuration and Status navigator item

The workspace descriptions are organized by the navigator item to which the workspaces are relevant.

**BizTalk Group Topology workspace**
This workspace displays the BizTalk Group topology.

This workspace contains the following view:
**BizTalk Group Topology**
This view displays all BizTalk Servers that are configured under single BizTalk Group.

**Configuration and Status workspace**
This workspace displays information about the BizTalk group, server, host, and host instances.

This workspace contains the following views:
**BizTalk Group Server Host**
This report contains information about the BizTalk group, server, host, host instance, and the status of some of them.
**Application Status**
This report contains information about the BizTalk application name, and status.

**Current Status workspace**
This workspace shows the current status of BizTalk components.

This workspace contains the following views:
**Orchestration Status**
This report contains information about the Orchestration name, status, and the host name for the orchestration.
**Send Port Status**
This report contains information about the Send Port name and its status.
**Send Port Group Status**
This report contains information about the Send Port Group name and its status.
**Receive Location Status**
This report contains information about the Receive Location name and its status.
**Receive Ports**
This report contains information about the Receive Ports.

**Service Instance workspace**
This workspace shows information about the BizTalk service instances.

This workspace contains the following view:
**Service Instance Details**
This report contains information about the service instance name,status,and the service class of the service instance.

## Databases navigator item

The workspace descriptions are organized by the navigator item to which the workspaces are relevant.

**Databases workspace**

This workspace displays the detailed information about the BizTalk databases.

This workspace contains the following views:

**Single Sign On Database**

This report shows the Single Sign-On Database name and the Single Sign-On Database server name.

**Management Database**

This report shows the Management Database name and the Management Database server name.

**BAM Database**

This report shows the BAM Database name and the BAM Database server name.

**Tracking Database**

This report shows the Tracking Database name and the Tracking Database server name.

**Messagebox Database**

This report shows the Messagebox Database name, the Messagebox Database server name, whether the publication of new Messages is disabled and whether the MessageBox database is master MessageBox.

**Rule Engine Database**

This report shows the Rule Engine Database name and the Rule Engine Database server name.

## Event Log navigator item

The workspace descriptions are organized by the navigator item to which the workspaces are relevant.

**Event Log workspace**

The Event Log workspace shows the details for the recent events logged by the application to the Windows Event Log. By default, the agent only displays events that occur after the agent is started. Events are removed from the Event Log view 1 hour after they occur.

This workspace contains the following view:

**Event Log**

Shows the recent Event Log entries for Microsoft BizTalk Server.

## Host Throttling navigator item

The workspace descriptions are organized by the navigator item to which the workspaces are relevant.

**Host Throttling workspace**

This workspace displays the Memory usage and Database related information of Host Instances

This workspace contains the following views:

**Physical Memory Usage**

This bar chart displays amount of physical memory in megabytes being used on the machine by each host instance.

**Process Memory Usage**

This bar chart displays the total process memory consumption in megabytes for each host instance.

**Database Session**

This bar chart displays the concurrent MessageBox database connections being used and the current database session threshold.

**Database Queue Size**

This bar chart displays number of messages in the database queues that this host instance has published.

**Host Throttling Thresholds workspace**

This workspace shows the detailed information about Throttling.

This workspace contains the following views:

**Thresholds**
This report lists all current thresholds set by BizTalk administrator.

**Current Values**
This report lists current values for Thresholds performance counters.

**Host Throttling Status**
This report lists all current throttling status flags.

**Host Throttling Details**
This report list all host throttling performance counters.

**Messages Overview workspace**
This workspace displays overview information about message processing.

This workspace contains the following views:

**Total Messages**
This bar chart displays the total number of message delivered and published by each host instance.

**Message Publishing**
This bar chart displays the message publishing incoming and outgoing rate.

**Messaging Delay**
This bar chart displays the message publishing and delivering delay in milliseconds, increase in delay for large amount of time is cause of performance degrading.

**Message Delivery**
This bar chart displays the information about message delivery rate. This shows the message delivery incoming and outgoing rate.

**Throttling Details workspace**
This workspace displays the Throttling Threshold and their current status

This workspace contains the following views:

**Throttling State Duration**
This bar chart displays seconds since the system entered this state. If the host is throttling, how long it has been throttling; if it is not throttling, how long since throttling was applied.

**Message Count**
This bar chart displays the in process message count and its threshold.

**Thread Count**
This bar chart displays the thread count and its current threshold.

## Human Workflow Services navigator item

The workspace descriptions are organized by the navigator item to which the workspaces are relevant.

**Human Workflow Services workspace**
This workspace gives an overview of the Activity flows, tasks, actions.

This workspace contains the following views:

**Human Workflow Services Details**
This report displays the number of activity flows, tasks, actions created, and retrieved.

**Tasks Retrieved from Tracking DB**
This bar chart displays the number of tasks retrieved from tracking database.

**Steps Processing**
This bar chart displays the number of actions added and retrieved from tracking database.

**Activity Flow Processing**
This bar chart displays the number of activity flows added and retrieved from tracking database.

## MessageBox navigator item

The workspace descriptions are organized by the navigator item to which the workspaces are relevant.

**MessageBox workspace**

This workspace gives an overview of MessageBox Details.

This workspace contains the following views:

**MessageBox Details**

This report gives details about the MessageBox database and purge jobs.

**Messages in Tracking Data Table in MessageBox DB**

This bar chart displays the size of Tracking Data Table (in terms of messages) on a particular MessageBox on a particular server.

**Spool Depth in terms of Messages**

This bar chart displays the size of the spool on a particular MessageBox on a particular server.

**MessageBox - Host Queue Messages workspace**

This workspace gives an overview of the messages in the MessageBox.

This workspace contains the following views:

**Host Queue Length**

This bar chart displays the total number of messages in the particular host queue.

**Suspended Messages**

This bar chart displays the total number of suspended messages for the particular host.

**MessageBox - Host Queue Overview workspace**

This workspace gives an overview of the MessageBox Host attributes.

This workspace contains the following views:

**Host Counter Details**

This report displays the counters related to host queue.

**Host Instances**

This bar chart displays the number of message references in the instance state queue for the particular host.

**MessageBox - Purge Jobs workspace**

This workspace gives an overview of the Purge jobs run by SQL Agent.

This workspace contains the following views:

**Purge Jobs**

This report displays the attributes that give information about the purge jobs executed by SQL Agent.

**Time taken by Purge Jobs in Seconds**

This bar chart displays time (in seconds) taken by SQL Agent Purge jobs.

**Time taken by MessageBox Cleanup Jobs in Seconds**

This bar chart displays time (in seconds) taken by SQL Agent Cleanup Purge Jobs.

## Messaging navigator item

The workspace descriptions are organized by the navigator item to which the workspaces are relevant.

**Document Transactions workspace**

This workspace gives an overview of the documents that are processed, submitted, or suspended.

This workspace contains the following views:

**Documents Processed Per Second**

This bar chart displays the number of documents processed per second.

**Documents Received Per Second**

This bar chart displays the number of documents received per second.

**Documents Suspended Per Second**

This bar chart displays the number of documents suspended per second.

**Documents Submitted Per Batch**

This bar chart displays the number of documents submitted per batch.

**Messaging workspace**

This workspace gives an overview of document processing and document failures.

This workspace contains the following views:

**Document Processing**
This bar chart displays the number of documents processed and received.

**Throttled Received Batches**
This bar chart displays the number of batches that have been blocked on receive by the Messaging Engine due to high service load. These batches contain new messages to be processed.

**Document Failures**
This bar chart displays the number of documents suspended or resubmitted by Send Adapters.

**Messaging Details workspace**
This workspace gives an overview of the messages and documents processing.

This workspace contains the following views:

**Pending Actions**
This report displays the pending batches, pending messages and blocked batches.

**Document Processing**
This report displays all the attributes which describe the processing of documents.

**Messaging Overview**
This report displays all the attributes for Messaging.

**Messaging Latency workspace**
This workspace gives an overview of the messaging latencies.

This workspace contains the following views:

**Messaging Latency Details**
This report displays the latencies while processing the messages.

**Average Latency**
This bar chart displays the average latency (in milliseconds) required by Messaging Engine, adapters and MessageBox to process the messages.

**Average Latency for Request-Response**
This bar chart displays the average latency (in milliseconds) from when the Messaging Engine receives a request document from the adapter until the time a response document is given back to the adapter.

## Orchestrations navigator item

The workspace descriptions are organized by the navigator item to which the workspaces are relevant.

**Dehydration Details workspace**
This workspace gives an overview of orchestration dehydration. Dehydration is a process where the state of an orchestration persists and saves to the database. It is done when orchestration is not running.

This workspace contains the following views:

**Dehydration Status**
This bar chart shows the dehydration overview. This includes the orchestration those that are dehydrating, dehytrable and scheduled for dehydration.

**Persistent Point**
This bar chart shows the number of times orchestration was persisted.

**Orchestration Resident in Memory**
This bar chart shows number of orchestration instances currently hosted by the host instance.

**Dehydration Cycles in Progress**
This bar chart shows the number of running dehydration cycles.

**Dehydration Cycles Completed**
This bar chart shows the number of dehydration cycles completed.

**Dehydration Status workspace**
This workspace gives overview of the dehydration and rehydration of orchestration.

This workspace contains the following views:

**Dehydrated and Rehydrated Orchestrations**
This bar chart shows the number of dehydrated and rehydrated orchestrations.

**Orchestration Dehydrated Per Second**
This bar chart shows the average number of orchestration instances dehydrated per second.

**Orchestration Rehydrated Per Second**
This bar chart shows the average number of orchestration instances rehydrated per second.

**Orchestration Details workspace**
This workspace shows the detailed information of the Orchestration performance.

This workspace contains the following views:

**Orchestration Memory**
This report lists all performance counters related to the orchestration memory.

**Orchestration Database**
This report lists all database related information.

**Orchestration Overview**
This report shows the overview of orchestration performance.

**Orchestration Messaging workspace**
This workspace shows the details about messaging and message box database.

This workspace contains the following views:

**MessageBox DB Connection Failures**
This bar chart shows the number of attempted database connections that failed since the host instance started.

**Pending Messages**
This bar chart shows the number of received messages for which the receipt has not yet been acknowledged to the message box.

**Orchestration Processing workspace**
This workspace gives information about orchestration processing. It includes the orchestrations created, discarded, and suspended.

This workspace contains the following views:

**Orchestration Created**
This bar chart shows number of orchestration created since the host instance started.

**Orchestration Failure**
This bar chart shows the total number of failure per second. It includes the orchestrations discarded and suspended per second. The large number of discarded and suspended orchestrations per second causes performance degradation.

**Orchestrations workspace**
This workspace gives an overview of Orchestrations.

This workspace contains the following views:

**Created and Completed Orchestrations**
This bar chart shows the number of orchestrations created and completed since host instance started.

**Dehydratable and Dehydrating Orchestration**
This bar chart shows the dehydration of orchestrations. This includes the number of orchestrations currently dehydrating and those ready for dehydration.

**Orchestration Failure**
This bar chart shows the failure details of orchestration. It includes the number of orchestrations and those that are discarded, suspended, and idle.

**Running and Runnable Orchestrations**
This bar chart shows the number of orchestrations currently running (hosted by host instance) and runnable.

**Transactional Scopes workspace**
This workspace gives an overview of the Transaction Scopes performance measure.

This workspace contains the following views:

**Transactional Scopes Committed**
This bar chart shows the number of long-running or atomic scopes that have successfully completed since the host instance started.

**Transactional Scopes Aborted**
This bar chart shows the number of long-running or atomic scopes that have been aborted since the host instance started.

**Transactional Scopes Committed Per Second**
This bar chart shows the shows average number of committed scopes per second.

**Transactional Scopes Aborted Per Second**
This bar chart shows the average number of aborted scopes per second.

## RFID navigator item

The workspace descriptions are organized by the navigator item to which the workspaces are relevant.

**RFID workspace**
This workspace shows the details about RFID deives and RFID processes.

This workspace contains the following views:

**RFID Devices**
This report displays information about RFID devices.

**RFID Processes**
This report displays information about RFID processes.

## TDDS navigator item

The workspace descriptions are organized by the navigator item to which the workspaces are relevant.

**TDDS workspace**
This workspace gives an overview of the transactions done by Tracking Data Decode Service (TDDS).

This workspace contains the following views:

**Failures**
This bar chart displays the total batches and events TDDS failed to run.

**Transactions In Process**
This bar chart displays the batches, events and records that are being processed inside the current SQL transaction.

**Committed Transactions**
This bar chart displays the batches, events and records committed to the database.

**TDDS Details workspace**
This workspace gives an overview of batches, events and records processed by TDDS.

This workspace contains the following views:

**TDDS Details**
This report displays all the counters in the TDDS attribute group.

**Total Batches and Records**
This bar chart displays the total number of batches and records processed by TDDS.

**Total Events**
This bar chart displays the total number of events processed by TDDS.

# Chapter 2. Attributes

Attributes are the application properties that are being measured and reported by the IBM Tivoli Composite Application Manager for Microsoft Applications: Microsoft BizTalk Server Agent. Attributes make up the key performance indicators (KPIs) that are reported in the application dashboards, and you can use them to create eventing thresholds for conditions that you want to monitor.

## About attributes

Attributes are organized into attribute groups. Attributes in an attribute group relate to a single object such as an application, or to a single kind of data such as status information.

Attributes in a group can be used in queries, query-based views, situations, policy workflows, take action definitions, and launch application definitions. Chart or table views and situations are two examples of how attributes in a group can be used:

**Chart or table views**
: Attributes are displayed in chart and table views. The chart and table views use queries to specify which attribute values to request from a monitoring agent. You use the Properties editor to apply filters and set styles to define the content and appearance of a view based on an existing query.

**Situations**
: You use attributes to create situations that monitor the state of your operating system, database, or application. A situation describes a condition you want to test. When you start a situation, the values you assign to the situation attributes are compared with the values collected by the Microsoft BizTalk Server agent and registers an *event* if the condition is met. You are alerted to events by indicator icons that are displayed in the Navigator.

Attributes are organized into attribute groups, the values of which can be selectively displayed in dashboards or used to define a threshold. After the dashboard is opened, the threshold is started, or the historical data collection interval completes, data samples of the attributes in the attribute group are taken.

**Dashboards**
: Attributes are displayed in the dashboards. The group widgets use queries to the dashboard data provider to specify which attribute values to request from a monitoring agent.

  You can edit the *Components* group widgets that display in the Application Performance Dashboard to control the group widgets that are displayed, their positioning, and to adjust the thresholds. After selecting an application to display in the Application Performance Dashboard, select the group named **Components**, and click **Actions** > **Edit** to open the editor.

**Thresholds**
: As well as the thresholds are reported in the dashboards, you can also define thresholds that monitor the state of your operating system, database, or application and open an event when the threshold has been exceeded. You use attributes to define thresholds that describe a condition you want to test. After the threshold is started, the values assigned to the attributes in the threshold definition are compared with the values collected by the Microsoft BizTalk Server agent. After the condition is met, an event is registered. You alerted to events by indicator icons that are displayed in the Application Performance Dashboard navigator and the Events tab.

IBM Tivoli Composite Application Manager for Microsoft Applications: Microsoft BizTalk Server Agent provides predefined dashboards, thresholds, and historical data collections that you can begin to use immediately. When the sampled values for the attributes described in a threshold meet the condition

(such as attribute A is greater than 80%), an event is opened. Note that when no data can be collected for a an attribute group, an empty result is returned (no rows of data), when a specific attribute cannot be collected the value 0 or "" is returned unless otherwise specified in a particular attribute (for example "N/A"), and any numeric attribute value that is greater than the largest (positive or negative) number that can be represented by that type returns the corresponding maximum or minimum value (for example, for a 32-bit number, the maximum value is 2,147,483,647). These values are displayed as text values defined by the attribute group, such as "Value Exceeds Maximum" or "Value Exceeds Minimum". For more information about using attributes in dashboards, thresholds, and historical data collection, see the Application Performance Dashboard and SmartCloud Monitoring - Application Insight online help.

For a list of the attribute groups, a list of the attributes in each attribute group, and descriptions of the attributes for this monitoring agent, see "Attribute groups for the monitoring agent" and "Attributes in each attribute group" on page 23.

### Additional information about attributes

For more information about using attributes and attribute groups, see the *Tivoli Enterprise Portal User's Guide*.

For a list of the attribute groups, a list of the attributes in each attribute group, and descriptions of the attributes for this monitoring agent, see "Attribute groups for the monitoring agent" and "Attributes in each attribute group" on page 23.

## Attribute groups for the monitoring agent

The Microsoft BizTalk Server agent contains the following attribute groups. For agents that use IBM® Tivoli Monitoring infrastructure, attributes are in attribute groups. For agents that use the lightweight infrastructure, attributes are in data sets.

The table name depends on the maximum table name limits of the target database being used for the historical data collection. If the maximum name is 30 characters, any warehouse or historical table name longer than 30 characters is shortened to 30 characters.

**Note:** Agents that use the Tivoli Monitoring infrastructure refer to the historical table name as the warehouse table name.

- Attribute group name: Application Status
  - Table name: KQBBIZAPP
  - Warehouse or historical table name: KQB_APPLICATION_STATUS or KQBBIZAPP
- Attribute group name: Availability
  - Table name: KQBAVAIL
  - Warehouse or historical table name: KQB_AVAILABILITY or KQBAVAIL
- Attribute group name: BAM Database
  - Table name: KQBMSBTSG0
  - Warehouse or historical table name: KQB_BAM_DATABASE or KQBMSBTSG0
- Attribute group name: BAM Interceptor
  - Table name: KQBBAMINTC
  - Warehouse or historical table name: KQB_BAM_INTERCEPTOR or KQBBAMINTC
- Attribute group name: BizTalk Group Server Host
  - Table name: KQBHSTGRP
  - Warehouse or historical table name: KQB_BIZTALK_GROUP_SERVER_HOST or KQBHSTGRP
- Attribute group name: BizTalk Host
  - Table name: KQBGRPHST

  - Warehouse or historical table name: KQB_BIZTALK_HOST or KQBGRPHST
- Attribute group name: BizTalk NET Adapter for Oracle DB
  - Table name: KQBORADB
  - Warehouse or historical table name: KQB_BIZTALK_NET_ADAPTER_FOR_ORACLE_DB or KQBORADB
- Attribute group name: BizTalk NET Adapter for Oracle EBusiness Suite
  - Table name: KQBORAEBIZ
  - Warehouse or historical table name: KQB_BIZTALK_NET_ADAPTER_FOR_ORACLE_EBUSINESS_SUITE or KQBORAEBIZ
- Attribute group name: BizTalk NET Adapter for SAP
  - Table name: KQBSAPAD
  - Warehouse or historical table name: KQB_BIZTALK_NET_ADAPTER_FOR_SAP or KQBSAPAD
- Attribute group name: BizTalk NET Adapter for Siebel
  - Table name: KQBSIEBELA
  - Warehouse or historical table name: KQB_BIZTALK_NET_ADAPTER_FOR_SIEBEL or KQBSIEBELA
- Attribute group name: BizTalk NET Adapter for SQL
  - Table name: KQBSQLAD
  - Warehouse or historical table name: KQB_BIZTALK_NET_ADAPTER_FOR_SQL or KQBSQLAD
- Attribute group name: BizTalk Server
  - Table name: KQBGRPSRV
  - Warehouse or historical table name: KQB_BIZTALK_SERVER or KQBGRPSRV
- Attribute group name: Delivery Channels
  - Table name: KQBDELCHN
  - Warehouse or historical table name: KQB_DELIVERY_CHANNELS or KQBDELCHN
- Attribute group name: Distributors
  - Table name: KQBDISTRIB
  - Warehouse or historical table name: KQB_DISTRIBUTORS or KQBDISTRIB
- Attribute group name: Event Log
  - Table name: KQBEVTLOG
  - Warehouse or historical table name: KQB_EVENT_LOG or KQBEVTLOG
- Attribute group name: Event Providers
  - Table name: KQBEVENPD
  - Warehouse or historical table name: KQB_EVENT_PROVIDERS or KQBEVENPD
- Attribute group name: Events
  - Table name: KQBEVENTS
  - Warehouse or historical table name: KQB_EVENTS
- Attribute group name: File Receive Adapter
  - Table name: KQBFILERCV
  - Warehouse or historical table name: KQB_FILE_RECEIVE_ADAPTER or KQBFILERCV
- Attribute group name: File Send Adapter
  - Table name: KQBFILESND
  - Warehouse or historical table name: KQB_FILE_SEND_ADAPTER or KQBFILESND
- Attribute group name: FTP Receive Adapter
  - Table name: KQBFTPRECV
  - Warehouse or historical table name: KQB_FTP_RECEIVE_ADAPTER or KQBFTPRECV

- Attribute group name: FTP Send Adapter
  - Table name: KQBFTPSEND
  - Warehouse or historical table name: KQB_FTP_SEND_ADAPTER or KQBFTPSEND
- Attribute group name: Generator
  - Table name: KQBGENERA
  - Warehouse or historical table name: KQB_GENERATOR or KQBGENERA
- Attribute group name: Host Throttling
  - Table name: KQBHOSTTHR
  - Warehouse or historical table name: KQB_HOST_THROTTLING or KQBHOSTTHR
- Attribute group name: HTTP Receive Adapter
  - Table name: KQBHTTPRCV
  - Warehouse or historical table name: KQB_HTTP_RECEIVE_ADAPTER or KQBHTTPRCV
- Attribute group name: HTTP Send Adapter
  - Table name: KQBHTTPSND
  - Warehouse or historical table name: KQB_HTTP_SEND_ADAPTER or KQBHTTPSND
- Attribute group name: Human Workflow Services
  - Table name: KQBHUMANWO
  - Warehouse or historical table name: KQB_HUMAN_WORKFLOW_SERVICES or KQBHUMANWO
- Attribute group name: Management Database
  - Table name: KQBMSBTSG1
  - Warehouse or historical table name: KQB_MANAGEMENT_DATABASE or KQBMSBTSG1
- Attribute group name: Message Box General Counters
  - Table name: KQBMSGBOXG
  - Warehouse or historical table name: KQB_MESSAGE_BOX_GENERAL_COUNTERS or KQBMSGBOXG
- Attribute group name: Message Box Host Counters
  - Table name: KQBMSGBOXH
  - Warehouse or historical table name: KQB_MESSAGE_BOX_HOST_COUNTERS or KQBMSGBOXH
- Attribute group name: Messagebox Database
  - Table name: KQBMSBTSMS
  - Warehouse or historical table name: KQB_MESSAGEBOX_DATABASE or KQBMSBTSMS
- Attribute group name: Messaging
  - Table name: KQBMESSAG1
  - Warehouse or historical table name: KQB_MESSAGING or KQBMESSAG1
- Attribute group name: Messaging Latency
  - Table name: KQBMESSLAT
  - Warehouse or historical table name: KQB_MESSAGING_LATENCY or KQBMESSLAT
- Attribute group name: MSMQ Receive Adapter
  - Table name: KQBMSMQRCV
  - Warehouse or historical table name: KQB_MSMQ_RECEIVE_ADAPTER or KQBMSMQRCV
- Attribute group name: MSMQ Send Adapter
  - Table name: KQBMSMQSND
  - Warehouse or historical table name: KQB_MSMQ_SEND_ADAPTER or KQBMSMQSND
- Attribute group name: Notifications
  - Table name: KQBNOTIFI

  - Warehouse or historical table name: KQB_NOTIFICATIONS or KQBNOTIFI
- Attribute group name: Orchestration Status
  - Table name: KQBMSBTSOS
  - Warehouse or historical table name: KQB_ORCHESTRATION_STATUS or KQBMSBTSOS
- Attribute group name: Orchestrations
  - Table name: KQBORCHEST
  - Warehouse or historical table name: KQB_ORCHESTRATIONS or KQBORCHEST
- Attribute group name: Performance Object Status
  - Table name: KQBPOBJST
  - Warehouse or historical table name: KQB_PERFORMANCE_OBJECT_STATUS or KQBPOBJST
- Attribute group name: POP3 Receive Adapter
  - Table name: KQBPOP3RCV
  - Warehouse or historical table name: KQB_POP3_RECEIVE_ADAPTER or KQBPOP3RCV
- Attribute group name: Receive Location Status
  - Table name: KQBMSBTRLS
  - Warehouse or historical table name: KQB_RECEIVE_LOCATION_STATUS or KQBMSBTRLS
- Attribute group name: Receive Ports
  - Table name: KQBMSBTSRP
  - Warehouse or historical table name: KQB_RECEIVE_PORTS or KQBMSBTSRP
- Attribute group name: RFID Devices
  - Table name: KQBRFIDDEV
  - Warehouse or historical table name: KQB_RFID_DEVICES or KQBRFIDDEV
- Attribute group name: RFID Processes
  - Table name: KQBRFIDPR0
  - Warehouse or historical table name: KQB_RFID_PROCESSES or KQBRFIDPR0
- Attribute group name: Rule Engine Database
  - Table name: KQBMSBTSG2
  - Warehouse or historical table name: KQB_RULE_ENGINE_DATABASE or KQBMSBTSG2
- Attribute group name: Send Port Group Status
  - Table name: KQBMSBTSPG
  - Warehouse or historical table name: KQB_SEND_PORT_GROUP_STATUS or KQBMSBTSPG
- Attribute group name: Send Port Status
  - Table name: KQBMSBTSPS
  - Warehouse or historical table name: KQB_SEND_PORT_STATUS or KQBMSBTSPS
- Attribute group name: Service Instance Status and Class
  - Table name: KQBMSBTSIS
  - Warehouse or historical table name: KQB_SERVICE_INSTANCE_STATUS_AND_CLASS or KQBMSBTSIS
- Attribute group name: SFTP Receive Adapter
  - Table name: KQBSFTPREC
  - Warehouse or historical table name: KQB_SFTP_RECEIVE_ADAPTER or KQBSFTPREC
- Attribute group name: SFTP Send Adapter
  - Table name: KQBSFTPSND
  - Warehouse or historical table name: KQB_SFTP_SEND_ADAPTER or KQBSFTPSND
- Attribute group name: Single Sign On Database

  - Table name: KQBSSODB
  - Warehouse or historical table name: KQB_SINGLE_SIGN_ON_DATABASE or KQBSSODB
- Attribute group name: SMTP Send Adapter
  - Table name: KQBSMTPSND
  - Warehouse or historical table name: KQB_SMTP_SEND_ADAPTER or KQBSMTPSND
- Attribute group name: SOAP Receive Adapter
  - Table name: KQBSOAPRCV
  - Warehouse or historical table name: KQB_SOAP_RECEIVE_ADAPTER or KQBSOAPRCV
- Attribute group name: SOAP Send Adapter
  - Table name: KQBSOAPSND
  - Warehouse or historical table name: KQB_SOAP_SEND_ADAPTER or KQBSOAPSND
- Attribute group name: SQL Receive Adapter
  - Table name: KQBSQLRECV
  - Warehouse or historical table name: KQB_SQL_RECEIVE_ADAPTER or KQBSQLRECV
- Attribute group name: SQL Send Adapter
  - Table name: KQBSQLSEND
  - Warehouse or historical table name: KQB_SQL_SEND_ADAPTER or KQBSQLSEND
- Attribute group name: Subscribers
  - Table name: KQBSUBSCR
  - Warehouse or historical table name: KQB_SUBSCRIBERS or KQBSUBSCR
- Attribute group name: Subscriptions
  - Table name: KQBSUBSCRP
  - Warehouse or historical table name: KQB_SUBSCRIPTIONS or KQBSUBSCRP
- Attribute group name: TDDS
  - Table name: KQBBIZTDDS
  - Warehouse or historical table name: KQB_TDDS or KQBBIZTDDS
- Attribute group name: Tracking Database
  - Table name: KQBMSBTSG3
  - Warehouse or historical table name: KQB_TRACKING_DATABASE or KQBMSBTSG3
- Attribute group name: Vacuumer
  - Table name: KQBVACUUM
  - Warehouse or historical table name: KQB_VACUUMER or KQBVACUUM
- Attribute group name: Windows SharePoint Services
  - Table name: KQBWSSADAP
  - Warehouse or historical table name: KQB_WINDOWS_SHAREPOINT_SERVICES or KQBWSSADAP
- Attribute group name: Windows SharePoint Services Adapter
  - Table name: KQBWSADPTR
  - Warehouse or historical table name: KQB_WINDOWS_SHAREPOINT_SERVICES_ADAPTER or KQBWSADPTR

## Attributes in each attribute group

Attributes in each Microsoft BizTalk Server agent attribute group collect data that the agent uses for monitoring.

The description of each attribute group contains the following details:

- Whether the attribute group is a historical type that you can roll off to a data warehouse.
- Information such as whether the attribute is a key attribute, type, verification method, warehouse name (as applicable), and other names.

  A *key attribute* is an attribute that is used in warehouse aggregation to identify rows of data that represent the same object.

## Application Status attribute group

The Application Status attribute group includes attributes that provide information about the name and status of BizTalk application. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Application Name attribute**
This attribute displays the name of the BizTalk application. The type is string.

The following names are defined for this attribute: APPLICATION_NAME or APPNAME (warehouse name), Application Name (caption), Application_Name (attribute name), and APPNAME (column name).

**Application Status attribute**
This attribute displays the status of the BizTalk application. The type is string.

The following names are defined for this attribute: APPLICATION_STATUS or APPSTATUS (warehouse name), Application Status (caption), Application_Status (attribute name), and APPSTATUS (column name).

**Node attribute**
The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Server Name attribute**
This attribute displays the name of the BizTalk Server. The type is string.

The following names are defined for this attribute: SERVER_NAME or SRVRNME (warehouse name), Server Name (caption), Server_Name (attribute name), and SRVRNME (column name).

**Timestamp attribute**
The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

## Availability attribute group

The Availability attribute group contains the availability data for all processes and services that make up this application. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Application Component attribute**
The descriptive name of a part of the application. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: APPLICATION_COMPONENT or COMPONENT (warehouse name), Application Component (caption), Application_Component (attribute name), and COMPONENT (column name).

**Command Line attribute**

The program name and any arguments specified on the command line when the process was started. For Service or Functionality test, this attribute has the value N/A. The type is string with enumerated values. The following values are defined: N/A (N/A). Any value that does not have a definition here is displayed in the User Interface.

The following names are defined for this attribute: COMMAND_LINE or CMDLINE (warehouse name), Command Line (caption), Command_Line (attribute name), and CMDLINE (column name).

**Full Name attribute**

The full name of the process that includes the path. The type is string with enumerated values. The following values are defined: N/A (N/A). Any value that does not have a definition here is displayed in the User Interface.

The following names are defined for this attribute: FULL_NAME or FULLNAME (warehouse name), Full Name (caption), Full_Name (attribute name), and FULLNAME (column name).

**Functionality Test Message attribute**

The text message that corresponds to the Functionality Test Status. This attribute is only valid for functionality tests. The type is string with enumerated values. The following values are defined: N/A (N/A). Any value that does not have a definition here is displayed in the User Interface.

The following names are defined for this attribute: FUNCTIONALITY_TEST_MESSAGE or FUNCMSG (warehouse name), Functionality Test Message (caption), Functionality_Test_Message (attribute name), and FUNCMSG (column name).

**Functionality Test Status attribute**

The return code of the functionality test. When the monitored application is running correctly, 'SUCCESS' is displayed. 'NOT_RUNNING' is displayed when it is not running correctly. 'N/A' is displayed when the row does not represent a functionality test. The type is integer with enumerated values. The following values are defined: SUCCESS (0), N/A (1), GENERAL ERROR (2), WARNING (3), NOT RUNNING (4), DEPENDENT NOT RUNNING (5), ALREADY RUNNING (6), PREREQ NOT RUNNING (7), TIMED OUT (8), DOESNT EXIST (9), UNKNOWN (10), DEPENDENT STILL RUNNING (11), INSUFFICIENT USER AUTHORITY (12). Any value that does not have a definition here is displayed in the User Interface.

The following names are defined for this attribute: FUNCTIONALITY_TEST_STATUS or FUNCSTATUS (warehouse name), Functionality Test Status (caption), Functionality_Test_Status (attribute name), and FUNCSTATUS (column name).

**Name attribute**

The name of the process, service, or functionality test. This name matches the executable name of the process, the service short name or the name of the process used to test the application. The type is string with enumerated values. The following values are defined: N/A (N/A). Any value that does not have a definition here is displayed in the User Interface.

The following names are defined for this attribute: NAME (warehouse name), Name (caption), Name (attribute name), and NAME (column name).

**Node attribute**

The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Page Faults per Sec attribute**

The rate of page faults for the process measured in faults per second. This attribute contains only valid data for processes. The type is integer (32-bit gauge).

The following names are defined for this attribute: PAGE_FAULTS_PER_SEC or PAGEFAULTS (warehouse name), Page Faults per Sec (caption), Page_Faults_per_Sec (attribute name), and PAGEFAULTS (column name).

**Percent Privileged Time attribute**
The percentage of the available CPU time being used by this process for privileged operation. The type is integer (32-bit gauge).

The following names are defined for this attribute: PERCENT_PRIVILEGED_TIME or PERCPRIV (warehouse name), Percent Privileged Time (caption), Percent_Privileged_Time (attribute name), and PERCPRIV (column name).

**Percent Processor Time attribute**
The percentage of the elapsed time that this process used the processor to execute instructions. The type is integer (32-bit gauge).

The following names are defined for this attribute: PERCENT_PROCESSOR_TIME or PERCPROC (warehouse name), Percent Processor Time (caption), Percent_Processor_Time (attribute name), and PERCPROC (column name).

**Percent User Mode Time attribute**
The percentage of the available CPU time being used by this process for user mode operation. The type is integer (32-bit gauge).

The following names are defined for this attribute: PERCENT_USER_MODE_TIME or PERCUSER (warehouse name), Percent User Mode Time (caption), Percent_User_Mode_Time (attribute name), and PERCUSER (column name).

**PID attribute**
The process ID associated with the process. This attribute contains only valid data for processes. The type is integer (32-bit gauge).

The following names are defined for this attribute: PID (warehouse name), PID (caption), PID (attribute name), and PID (column name).

**Status attribute**
The status of the application component.

- For processes 'UP', 'DOWN', 'WARNING', or 'PROCESS_DATA_NOT_AVAILABLE': 'PROCESS_DATA_NOT_AVAILABLE' is displayed for a process when the matching process is running but the resource use information cannot be collected for that process.
- For services 'UP', 'DOWN', or 'UNKNOWN': 'UNKNOWN' is displayed when the service is not installed.
- For functionality tests: 'PASSED' or 'FAILED' is displayed.

The type is integer with enumerated values. The following values are defined: DOWN (0), UP (1), WARNING (2), UNKNOWN (3), PASSED (4), FAILED (5), PROCESS DATA NOT AVAILABLE (6). Any value that does not have a definition here is displayed in the User Interface.

The following names are defined for this attribute: STATUS (warehouse name), Status (caption), Status (attribute name), and STATUS (column name).

**Thread Count attribute**
The number of threads currently allocated by this process. This attribute contains only valid data for processes. The type is integer (32-bit gauge).

The following names are defined for this attribute: THREAD_COUNT or THREADS (warehouse name), Thread Count (caption), Thread_Count (attribute name), and THREADS (column name).

**Timestamp attribute**
The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

**Type attribute**
The type of the application component. Components are processes, services, or functionality tests. The type is integer with enumerated values. The following values are defined: PROCESS (0), SERVICE (1), FUNCTIONALITY TEST (2). Any value that does not have a definition here is displayed in the User Interface.

The following names are defined for this attribute: TYPE (warehouse name), Type (caption), Type (attribute name), and TYPE (column name).

**Virtual Size attribute**
The virtual size (in MB) of the process. The type is integer (32-bit gauge).

The following names are defined for this attribute: VIRTUAL_SIZE or VIRTSIZE (warehouse name), Virtual Size (caption), Virtual_Size (attribute name), and VIRTSIZE (column name).

**Working Set Size attribute**
The working set size of the process in MB. This attribute contains only valid data for processes. The type is integer (32-bit gauge).

The following names are defined for this attribute: WORKING_SET_SIZE or WORKSET (warehouse name), Working Set Size (caption), Working_Set_Size (attribute name), and WORKSET (column name).

## BAM Database attribute group

The BAM Database attribute group includes attributes that provide information about the BizTalk BAM Database. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Database Name attribute**
This attribute displays the BAM Database name. The type is string.

The following names are defined for this attribute: DATABASE_NAME or BAMDBNAME (warehouse name), Database Name (caption), Database_Name (attribute name), and BAMDBNAME (column name).

**Node attribute**
The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Server Name attribute**
This attribute displays the BAM Database server name. The type is string.

The following names are defined for this attribute: SERVER_NAME or BAMDBSERVE (warehouse name), Server Name (caption), Server_Name (attribute name), and BAMDBSERVE (column name).

**Timestamp attribute**
The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

## BAM Interceptor attribute group

The BAM Interceptor attribute group includes attributes that provide information about Business Activity Monitoring (BAM) events. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Avg Extraction sec per BAM Event attribute**
This attribute displays the average amount of time (in seconds) currently spent in extracting the BAM events. The type is integer (32-bit gauge).

The following names are defined for this attribute: AVG_EXTRACTION_SEC_PER_BAM_EVENT or AVG_EXTRAC (warehouse name), Avg Extraction sec per BAM Event (caption), Avg_Extraction_Sec_Per_BAM_Event (attribute name), and AVG_EXTRAC (column name).

**Avg Failed BAM Events per Flush attribute**
This attribute displays the average number of BAM events that currently failed during a data flush to the primary import database since the Biztalk server was started. The type is integer (64-bit gauge).

The following names are defined for this attribute: AVG_FAILED_BAM_EVENTS_PER_FLUSH or AVGFABAME (warehouse name), Avg Failed BAM Events per Flush (caption), Avg_Failed_BAM_Events_Per_Flush (attribute name), and AVGFABAME (column name).

**Avg Flush sec per BAM Event attribute**
This attribute displays the average amount of time (in seconds) currently spent in flushing BAM events. The type is integer (32-bit gauge).

The following names are defined for this attribute: AVG_FLUSH_SEC_PER_BAM_EVENT or AVGFLBMEV (warehouse name), Avg Flush sec per BAM Event (caption), Avg_Flush_Sec_Per_BAM_Event (attribute name), and AVGFLBMEV (column name).

**Avg Successful BAM Events per Flush attribute**
This attribute displays the average number of successful BAM events that occurred during a data flush to the primary import database. The type is integer (64-bit gauge).

The following names are defined for this attribute: AVG_SUCCESSFUL_BAM_EVENTS_PER_FLUSH or AVGSUCBME (warehouse name), Avg Successful BAM Events per Flush (caption), Avg_Successful_BAM_Events_Per_Flush (attribute name), and AVGSUCBME (column name).

**Name attribute**
The name of the instance. This attribute is a key attribute. The type is String.

The following names are defined for this attribute: NAME (warehouse name), Name (caption), Name (attribute name), and NAME (column name).

**Node attribute**
The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Timestamp attribute**
The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

**Total Failed BAM Events During Flush attribute**
This attribute displays the total number of BAM events that failed during a data flush since the BizTalk Server was started. The type is integer (32-bit counter).

The following names are defined for this attribute: TOTAL_FAILED_BAM_EVENTS_DURING_FLUSH or TOTFABAME (warehouse name), Total Failed BAM Events During Flush (caption), Total_Failed_BAM_Events_During_Flush (attribute name), and TOTFABAME (column name).

**Total Successful BAM Events During Flush attribute**
This attribute displays the total number of successful BAM events that occurred during a data flush operation to the primary import database since the BizTalk Server was started. The type is integer (32-bit counter).

The following names are defined for this attribute: TOTAL_SUCCESSFUL_BAM_EVENTS_DURING_FLUSH or TOTSUCBME (warehouse name), Total Successful BAM Events During Flush (caption), Total_Successful_BAM_Events_During_Flush (attribute name), and TOTSUCBME (column name).

## BizTalk Group Server Host attribute group

The BizTalk Group Server Host attribute group includes attributes that provide information about the BizTalk group, server, host, host instance, and host instance service status. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Group Name attribute**

This attribute displays the BizTalk group name. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: GROUP_NAME or GRPNAME (warehouse name), Group Name (caption), Group_Name (attribute name), and GRPNAME (column name).

**Host Instance attribute**

This attribute displays the host instance name. The type is string.

The following names are defined for this attribute: HOST_INSTANCE or HOSTINST (warehouse name), Host Instance (caption), Host_Instance (attribute name), and HOSTINST (column name).

**Host Instance Status attribute**

This attribute displays the host instance service status. The type is integer with enumerated values. The following values are defined: Stopped (1), Start pending (2), Stop pending (3), Running (4), Continue pending (5), Pause pending (6), Paused (7), Unknown (8). Any value that does not have a definition here is displayed in the User Interface.

The following names are defined for this attribute: HOST_INSTANCE_STATUS or HSTINSTST (warehouse name), Host Instance Status (caption), Host_Instance_Status (attribute name), and HSTINSTST (column name).

**Host Name attribute**

This attribute displays the host name. The type is string.

The following names are defined for this attribute: HOST_NAME or HOSTNAME (warehouse name), Host Name (caption), Host_Name (attribute name), and HOSTNAME (column name).

**Node attribute**

The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Server Name attribute**

This attribute displays the name of the BizTalk Server. The type is string.

The following names are defined for this attribute: SERVER_NAME or SRVRNME (warehouse name), Server Name (caption), Server_Name (attribute name), and SRVRNME (column name).

**Timestamp attribute**

The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

## BizTalk Host attribute group

The BizTalk Host attribute group includes attributes that provide information about the BizTalk group and BizTalk hosts. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Group Name attribute**

This attribute displays the BizTalk group name. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: GROUP_NAME or GRPNAME (warehouse name), Group Name (caption), Group_Name (attribute name), and GRPNAME (column name).

**Host Name attribute**
This attribute displays the host name. The type is string.

The following names are defined for this attribute: HOST_NAME or HOSTNAME (warehouse name), Host Name (caption), Host_Name (attribute name), and HOSTNAME (column name).

**Node attribute**
The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Timestamp attribute**
The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

## BizTalk NET Adapter for Oracle DB attribute group

The BizTalk .NET Adapter for Oracle DB attribute group includes attributes that provide information about the time spent in milliseconds in completing the Line of Business (LOB) activity for the BizTalk .NET Adapter for Oracle DB. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**LOB Time attribute**
This attribute displays the total time spent in milliseconds in the LOB application for a specific action type. The type is integer (32-bit gauge).

The following names are defined for this attribute: LOB_TIME_CUMULATIVE or LOB_TIME_C (warehouse name), LOB Time (caption), LOB_Time_Cumulative (attribute name), and LOB_TIME_C (column name).

**LOB Time Delta attribute**
This attribute displays the change in time spent in the LOB application for a specific action type. The type is integer (difference between successive values).

The following names are defined for this attribute: LOB_TIME_CUMULATIVE_DELTA or LOB_TIMECD (warehouse name), LOB Time Delta (caption), LOB_Time_Cumulative_Delta (attribute name), and LOB_TIMECD (column name).

**Name attribute**
The name of the instance. This attribute is a key attribute. The type is String.

The following names are defined for this attribute: NAME (warehouse name), Name (caption), Name (attribute name), and NAME (column name).

**Node attribute**
The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Timestamp attribute**
The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

## BizTalk NET Adapter for Oracle EBusiness Suite attribute group

The BizTalk .NET Adapter for Oracle E-Business Suite attribute group includes attributes that provide information about the time spent in milliseconds in completing the LOB activity for the BizTalk .NET Adapter for Oracle E-Business Suite. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**LOB Time attribute**
This attribute displays the total time spent in milliseconds in the LOB application for a specific action type. The type is integer (32-bit gauge).

The following names are defined for this attribute: LOB_TIME_CUMULATIVE or LOB_TIME_C (warehouse name), LOB Time (caption), LOB_Time_Cumulative (attribute name), and LOB_TIME_C (column name).

**LOB Time Delta attribute**
This attribute displays the change in time spent in the LOB application for a specific action type. The type is integer (difference between successive values).

The following names are defined for this attribute: LOB_TIME_CUMULATIVE_DELTA or LOB_TIMECD (warehouse name), LOB Time Delta (caption), LOB_Time_Cumulative_Delta (attribute name), and LOB_TIMECD (column name).

**Name attribute**
The name of the instance. This attribute is a key attribute. The type is String.

The following names are defined for this attribute: NAME (warehouse name), Name (caption), Name (attribute name), and NAME (column name).

**Node attribute**
The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Timestamp attribute**
The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

## BizTalk NET Adapter for SAP attribute group

The BizTalk .NET Adapter for SAP attribute group includes attributes that provide information about the time spent in milliseconds in completing the LOB activity for the BizTalk .NET Adapter for SAP. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**LOB Time attribute**
This attribute displays the total time spent in milliseconds in the LOB application for a specific action type. The type is integer (32-bit gauge).

The following names are defined for this attribute: LOB_TIME_CUMULATIVE or LOB_TIME_C (warehouse name), LOB Time (caption), LOB_Time_Cumulative (attribute name), and LOB_TIME_C (column name).

**LOB Time Delta attribute**
This attribute displays the change in time spent in the LOB application for a specific action type. The type is integer (difference between successive values).

The following names are defined for this attribute: LOB_TIME_CUMULATIVE_DELTA or LOB_TIMECD (warehouse name), LOB Time Delta (caption), LOB_Time_Cumulative_Delta (attribute name), and LOB_TIMECD (column name).

**Name attribute**
The name of the instance. This attribute is a key attribute. The type is String.

The following names are defined for this attribute: NAME (warehouse name), Name (caption), Name (attribute name), and NAME (column name).

**Node attribute**
The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Timestamp attribute**
The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

## BizTalk NET Adapter for Siebel attribute group

The BizTalk .NET Adapter for Siebel attribute group includes attributes that provide information about the time spent in milliseconds in completing the LOB activity for the BizTalk .NET Adapter for Siebel. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**LOB Time attribute**
This attribute displays the total time spent in milliseconds in the LOB application for a specific action type. The type is integer (32-bit gauge).

The following names are defined for this attribute: LOB_TIME_CUMULATIVE or LOB_TIME_C (warehouse name), LOB Time (caption), LOB_Time_Cumulative (attribute name), and LOB_TIME_C (column name).

**LOB Time Delta attribute**
This attribute displays the change in time spent in the LOB application for a specific action type. The type is integer (difference between successive values).

The following names are defined for this attribute: LOB_TIME_CUMULATIVE_DELTA or LOB_TIMECD (warehouse name), LOB Time Delta (caption), LOB_Time_Cumulative_Delta (attribute name), and LOB_TIMECD (column name).

**Name attribute**
The name of the instance. This attribute is a key attribute. The type is String.

The following names are defined for this attribute: NAME (warehouse name), Name (caption), Name (attribute name), and NAME (column name).

**Node attribute**
The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Timestamp attribute**
The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

## BizTalk NET Adapter for SQL attribute group

The BizTalk .NET Adapter for SQL attribute group includes attributes that provide information about the time spent in milliseconds in completing the LOB activity for the BizTalk .NET Adapter for SQL. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**LOB Time attribute**
This attribute displays the total time spent in milliseconds in the LOB application for a specific action type. The type is integer (32-bit gauge).

The following names are defined for this attribute: LOB_TIME_CUMULATIVE or LOB_TIME_C (warehouse name), LOB Time (caption), LOB_Time_Cumulative (attribute name), and LOB_TIME_C (column name).

**LOB Time Delta attribute**
This attribute displays the change in time spent in the LOB application for a specific action type. The type is integer (difference between successive values).

The following names are defined for this attribute: LOB_TIME_CUMULATIVE_DELTA or LOB_TIMECD (warehouse name), LOB Time Delta (caption), LOB_Time_Cumulative_Delta (attribute name), and LOB_TIMECD (column name).

**Name attribute**
The name of the instance. This attribute is a key attribute. The type is String.

The following names are defined for this attribute: NAME (warehouse name), Name (caption), Name (attribute name), and NAME (column name).

**Node attribute**
The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Timestamp attribute**
The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

## BizTalk Server attribute group

The BizTalk Server attribute group includes attributes that provide information about the BizTalk group and BizTalk servers. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Group Name attribute**
This attribute displays the BizTalk group name. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: GROUP_NAME or GRPNAME (warehouse name), Group Name (caption), Group_Name (attribute name), and GRPNAME (column name).

**Node attribute**
The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Server Name attribute**
This attribute displays the name of the BizTalk Server. The type is string.

The following names are defined for this attribute: SERVER_NAME or SRVRNME (warehouse name), Server Name (caption), Server_Name (attribute name), and SRVRNME (column name).

**Timestamp attribute**
The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

## Delivery Channels attribute group

This attribute group includes attributes that provide information about the delivery channels object of a Notification Services instance for BAM. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Messages Written To Transport attribute**
This attribute displays the total number of messages written by the selected delivery channel since the distributor was started. The type is integer (64-bit counter).

The following names are defined for this attribute: MESSAGES_WRITTEN_TO_TRANSPORT or MSGWTRN (warehouse name), Messages Written To Transport (caption), Messages_Written_To_Transport (attribute name), and MSGWTRN (column name).

**Messages Written To Transport Rate attribute**
This attribute displays the number of messages currently written per second by the selected delivery channel. The type is integer (64-bit gauge).

The following names are defined for this attribute: MESSAGES_WRITTEN_TO_TRANSPORT_RATE or MSGWTRR (warehouse name), Messages Written To Transport Rate (caption), Messages_Written_To_Transport_Rate (attribute name), and MSGWTRR (column name).

**Name attribute**
This attribute displays the instance name for the delivery channels object. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NAME (warehouse name), Name (caption), Name (attribute name), and NAME (column name).

**Node attribute**
The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Server Name attribute**
This attribute displays the name of the BizTalk Server. The type is string.

The following names are defined for this attribute: SERVER_NAME or SRVRNME (warehouse name), Server Name (caption), Server_Name (attribute name), and SRVRNME (column name).

**Timestamp attribute**
The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

## Distributors attribute group

This attribute group includes attributes that provide information about the distributor components of a Notification Services instance for BAM. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Delivery Requests Failed attribute**
This attribute displays the total number of delivery requests that failed since the distributor was started. The type is integer (32-bit counter).

The following names are defined for this attribute: DELIVERY_REQUESTS_FAILED or DELIVREQUF (warehouse name), Delivery Requests Failed (caption), Delivery_Requests_Failed (attribute name), and DELIVREQUF (column name).

**Delivery Requests Succeeded attribute**
This attribute displays the total number of delivery requests that succeeded since the distributor was started. The type is integer (32-bit counter).

The following names are defined for this attribute: DELIVERY_REQUESTS_SUCCEEDED or DELIVREQUS (warehouse name), Delivery Requests Succeeded (caption), Delivery_Requests_Succeeded (attribute name), and DELIVREQUS (column name).

**Format Requests Failed attribute**
This attribute displays the total number of format requests that failed since the distributor was started. The type is integer (32-bit counter).

The following names are defined for this attribute: FORMAT_REQUESTS_FAILED or FORMATREQF (warehouse name), Format Requests Failed (caption), Format_Requests_Failed (attribute name), and FORMATREQF (column name).

**Format Requests Succeeded attribute**
This attribute displays the total number of format requests that succeeded since the distributor was started. The type is integer (32-bit counter).

The following names are defined for this attribute: FORMAT_REQUESTS_SUCCEEDED or FORMATREQS (warehouse name), Format Requests Succeeded (caption), Format_Requests_Succeeded (attribute name), and FORMATREQS (column name).

**Name attribute**
This attribute displays the instance name for distributor components. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NAME (warehouse name), Name (caption), Name (attribute name), and NAME (column name).

**Node attribute**
The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Notification Bodies attribute**
This attribute displays the total number of notification bodies that were processed by the distributor since it was started. The type is integer (32-bit counter).

The following names are defined for this attribute: NOTIFICATION_BODIES or NOTIFIBODY (warehouse name), Notification Bodies (caption), Notification_Bodies (attribute name), and NOTIFIBODY (column name).

**Notification Headers attribute**
This attribute displays the total number of notification headers that were processed by the distributor since it was started. The type is integer (32-bit counter).

The following names are defined for this attribute: NOTIFICATION_HEADERS or NOTIFIHEAD (warehouse name), Notification Headers (caption), Notification_Headers (attribute name), and NOTIFIHEAD (column name).

**Server Name attribute**
This attribute displays the name of the BizTalk Server. The type is string.

The following names are defined for this attribute: SERVER_NAME or SRVRNME (warehouse name), Server Name (caption), Server_Name (attribute name), and SRVRNME (column name).

**Timestamp attribute**
The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

## Event Log attribute group

The Event Log attribute group contains any event log entries that pertain to this application. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Event Category attribute**
The category of the event. The type is string with enumerated values. The following values are defined: None (None). Any value that does not have a definition here is displayed in the User Interface.

The following names are defined for this attribute: EVENT_CATEGORY or EVTCATEG (warehouse name), Event Category (caption), Event_Category (attribute name), and EVTCATEG (column name).

**Event ID attribute**
The ID of the event. The type is integer (32-bit counter).

The following names are defined for this attribute: EVENT_ID or EVTID (warehouse name), Event ID (caption), Event_ID (attribute name), and EVTID (column name).

**Event Source attribute**

The event source defined by the application. The type is string.

The following names are defined for this attribute: EVENT_SOURCE or EVTSOURCE (warehouse name), Event Source (caption), Event_Source (attribute name), and EVTSOURCE (column name).

**Event Type attribute**

The type of event, for example, Error(0), Warning(1), Informational(2), Audit_Success(3), Audit_Failure(4), and Unknown(5). The type is integer with enumerated values. The following values are defined: Error (0), Warning (1), Informational (2), Audit Success (3), Audit Failure (4), Unknown (5). Any value that does not have a definition here is displayed in the User Interface.

The following names are defined for this attribute: EVENT_TYPE or EVTTYPE (warehouse name), Event Type (caption), Event_Type (attribute name), and EVTTYPE (column name).

**Log Name attribute**

The name of the event log, for example, Application, System, Security or an application-specific log. The type is string.

The following names are defined for this attribute: LOG_NAME or LOGNAME (warehouse name), Log Name (caption), Log_Name (attribute name), and LOGNAME (column name).

**Message attribute**

The event message. The type is string.

The following names are defined for this attribute: MESSAGE (warehouse name), Message (caption), Message (attribute name), and MESSAGE (column name).

**Node attribute**

The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Time Generated attribute**

The time the event was generated. The type is timestamp.

The following names are defined for this attribute: TIME_GENERATED or TIMESTAMP (warehouse name), Time Generated (caption), Time_Generated (attribute name), and TIMESTAMP (column name).

## Event Providers attribute group

This attribute group includes attributes that provide information about the event provider object of a Notification Services instance for BAM. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Event Batches Aborted attribute**

This attribute displays the total number of event batches that failed since the event provider was started. The type is integer (64-bit counter).

The following names are defined for this attribute: EVENT_BATCHES_ABORTED or EVENABT (warehouse name), Event Batches Aborted (caption), Event_Batches_Aborted (attribute name), and EVENABT (column name).

**Event Batches Committed attribute**

This attribute displays the number of event batches committed since the event provider was started. The type is integer (64-bit counter).

The following names are defined for this attribute: EVENT_BATCHES_COMMITTED or EVENBTCMTD (warehouse name), Event Batches Committed (caption), Event_Batches_Committed (attribute name), and EVENBTCMTD (column name).

**Events Per Batch attribute**
This attribute displays the number of events per event batch for the selected event provider. The type is integer (32-bit gauge).

The following names are defined for this attribute: EVENTS_PER_BATCH or EVENPERBT (warehouse name), Events Per Batch (caption), Events_Per_Batch (attribute name), and EVENPERBT (column name).

**Events Received attribute**
This attribute displays the total number of events received since the event provider was started. The type is integer (64-bit counter).

The following names are defined for this attribute: EVENTS_RECEIVED or EVENTSRECD (warehouse name), Events Received (caption), Events_Received (attribute name), and EVENTSRECD (column name).

**Events Received Per Second attribute**
This attribute displays the number of input events received currently per second for the selected event provider. The type is integer (64-bit gauge).

The following names are defined for this attribute: EVENTS_RECEIVED_PER_SECOND or EVENRECPS (warehouse name), Events Received Per Second (caption), Events_Received_Per_Second (attribute name), and EVENRECPS (column name).

**Name attribute**
This attribute displays the instance name for the event provider object. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NAME (warehouse name), Name (caption), Name (attribute name), and NAME (column name).

**Node attribute**
The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Server Name attribute**
This attribute displays the name of the BizTalk Server. The type is string.

The following names are defined for this attribute: SERVER_NAME or SRVRNME (warehouse name), Server Name (caption), Server_Name (attribute name), and SRVRNME (column name).

**Timestamp attribute**
The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

## Events attribute group

This attribute group includes attributes that provide information about the events object of a Notification Services instance for BAM. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Event Batches Awaiting Generation attribute**
This attribute displays the number of event batches that are currently committed but not picked up by the generator. The type is integer (32-bit gauge).

The following names are defined for this attribute: EVENT_BATCHES_AWAITING_GENERATION or EVENTBATCH (warehouse name), Event Batches Awaiting Generation (caption), Event_Batches_Awaiting_Generation (attribute name), and EVENTBATCH (column name).

**Event Batches In Collection attribute**
This attribute displays the number of event batches that are currently in process and not committed. The type is integer (32-bit gauge).

The following names are defined for this attribute: EVENT_BATCHES_IN_COLLECTION or EVENTBATC0 (warehouse name), Event Batches In Collection (caption), Event_Batches_In_Collection (attribute name), and EVENTBATC0 (column name).

**Event Batches Submitted attribute**

This attribute displays the number of event batches currently submitted. The type is integer (32-bit gauge).

The following names are defined for this attribute: EVENT_BATCHES_SUBMITTED or EVENTBATC1 (warehouse name), Event Batches Submitted (caption), Event_Batches_Submitted (attribute name), and EVENTBATC1 (column name).

**Name attribute**

This attribute displays the instance name for events object. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NAME (warehouse name), Name (caption), Name (attribute name), and NAME (column name).

**Node attribute**

The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Server Name attribute**

This attribute displays the name of the BizTalk Server. The type is string.

The following names are defined for this attribute: SERVER_NAME or SRVRNME (warehouse name), Server Name (caption), Server_Name (attribute name), and SRVRNME (column name).

**Timestamp attribute**

The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

**Total Events attribute**

This attribute displays the number of events that are received since the application was started. The type is integer (32-bit counter).

The following names are defined for this attribute: TOTAL_EVENTS or TOTALEVENT (warehouse name), Total Events (caption), Total_Events (attribute name), and TOTALEVENT (column name).

## File Receive Adapter attribute group

The File Receive Adapter attribute group includes attributes that provide information about bytes and messages received by file adapter. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Bytes Received Per Sec attribute**

This attribute displays the number of bytes currently received by the File Receive Adapter per second. This attribute is the 64-bit version of the Bytes Received Per Sec (Superseded) attribute. The type is real number (64-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: BYTES_RECEIVED_PER_SEC_64 or FBREC0_64 (warehouse name), Bytes Received Per Sec (caption), Bytes_Received_Per_Sec_64 (attribute name), and FBREC0_64 (column name).

**Bytes Received Per Sec (Superseded) attribute**

This attribute displays the number of bytes received by the File Receive Adapter per second. The counter applies only to messages that have been completely read by the file adapter from the file system. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: BYTES_RECEIVED_PER_SEC or BYTES_REC0 (warehouse name), Bytes Received Per Sec (Superseded) (caption), Bytes_Received_Per_Sec (attribute name), and BYTES_REC0 (column name).

**Delete Retries attribute**

This attribute displays the number of times the File Receive Adapter attempts to delete a file that has been read. The type is integer (32-bit gauge).

The following names are defined for this attribute: DELETE_RETRIES or DELETE_RET (warehouse name), Delete Retries (caption), Delete_Retries (attribute name), and DELETE_RET (column name).

**Kilobytes Received attribute**

This attribute displays the total number of kilobytes currently received by the File Receive Adapter BizTalk Server was started. This attribute is the 64-bit version of the Kilobytes Received (Superseded) attribute. The type is real number (64-bit counter).

The following names are defined for this attribute: KILOBYTES_RECEIVED_64 or FKBREC64 (warehouse name), Kilobytes Received (caption), Kilobytes_Received_64 (attribute name), and FKBREC64 (column name).

**Kilobytes Received (Superseded) attribute**

This attribute displays the total number of kilobytes received by the File Receive Adapter since the application started. The counter is incremented after a message is read by the adapter from the file system. The type is real number (32-bit counter) with two decimal places of precision.

The following names are defined for this attribute: KILOBYTES_RECEIVED or BYTES_REC1 (warehouse name), Kilobytes Received (Superseded) (caption), Kilobytes_Received (attribute name), and BYTES_REC1 (column name).

**Lock Failures attribute**

This attribute displays the number of times the File Receive Adapter currently failed to lock the file. This attribute is the 64-bit version of the Lock Failures (Superseded) attribute. The type is integer (64-bit gauge).

The following names are defined for this attribute: LOCK_FAILURES_64 or LOCKFAIL64 (warehouse name), Lock Failures (caption), Lock_Failures_64 (attribute name), and LOCKFAIL64 (column name).

**Lock Failures (Superseded) attribute**

This attribute displays the number of times the File Receive Adapter failed to lock the file since the Biztalk server was started. The type is integer (32-bit gauge).

The following names are defined for this attribute: LOCK_FAILURES or LOCK_FAILU (warehouse name), Lock Failures (Superseded) (caption), Lock_Failures (attribute name), and LOCK_FAILU (column name).

**Lock Failures Per Sec attribute**

This attribute displays the number of times the File Receive Adapter currently failed to lock the file per second. This attribute is the 64-bit version of the Lock Failures Per Sec (Superseded) attribute. The type is real number (64-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: LOCK_FAILURES_PER_SEC_64 or LCKFAIL64 (warehouse name), Lock Failures Per Sec (caption), Lock_Failures_Per_Sec_64 (attribute name), and LCKFAIL64 (column name).

**Lock Failures Per Sec (Superseded) attribute**

This attribute displays the number of times the File Receive Adapter failed to lock the file per second since the Biztalk server was started. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: LOCK_FAILURES_PER_SEC or LOCK_FAIL0 (warehouse name), Lock Failures Per Sec (Superseded) (caption), Lock_Failures_Per_Sec (attribute name), and LOCK_FAIL0 (column name).

**Messages Received attribute**

This attribute displays the total number of messages received by the File Receive Adapter since

the application started. The counter is incremented after a message is read by the File Receive Adapter from the file system. The type is integer (32-bit counter).

The following names are defined for this attribute: MESSAGES_RECEIVED or MESSAGES_R (warehouse name), Messages Received (caption), Messages_Received (attribute name), and MESSAGES_R (column name).

**Messages Received Per Sec attribute**

This attribute displays the number of messages received by the File Receive Adapter per second. The counter applies only to messages that have been completely read by the File Receive Adapter from the file system. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: MESSAGES_RECEIVED_PER_SEC or MESSAGES_0 (warehouse name), Messages Received Per Sec (caption), Messages_Received_Per_Sec (attribute name), and MESSAGES_0 (column name).

**Name attribute**

The name of the instance. This attribute is a key attribute. The type is String.

The following names are defined for this attribute: NAME (warehouse name), Name (caption), Name (attribute name), and NAME (column name).

**Node attribute**

The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Time To Build Batch attribute**

This attribute displays the average time taken by File Receive Adapter to build a batch. The type is integer (32-bit gauge).

The following names are defined for this attribute: TIME_TO_BUILD_BATCH or TIME_TO_BU (warehouse name), Time To Build Batch (caption), Time_To_Build_Batch (attribute name), and TIME_TO_BU (column name).

**Timestamp attribute**

The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

## File Send Adapter attribute group

The File Send Adapter attribute group includes attributes that provide information about bytes and messages sent by file adapter. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Bytes Sent Per Sec attribute**

This attribute displays the number of bytes currently sent by the File Send Adapter per second. This attribute is the 64-bit version of the Bytes Sent Per Sec (Superseded) attribute. The type is real number (64-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: BYTES_SENT_PER_SEC_64 or FBSEN0_64 (warehouse name), Bytes Sent Per Sec (caption), Bytes_Sent_Per_Sec_64 (attribute name), and FBSEN0_64 (column name).

**Bytes Sent Per Sec (Superseded) attribute**

This attribute displays the number of bytes sent by the File Send Adapter per second. The counter applies only to messages that have been completely written to file system. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: BYTES_SENT_PER_SEC or BYTES_SEN0 (warehouse name), Bytes Sent Per Sec (Superseded) (caption), Bytes_Sent_Per_Sec (attribute name), and BYTES_SEN0 (column name).

**Kilobytes Sent attribute**

This attribute displays the total number of KB currently by the File Send Adapter. This attribute is the 64-bit version of the Kilobytes Sent (Superseded) attribute. The type is real number (64-bit counter).

The following names are defined for this attribute: KILOBYTES_SENT_64 or FBSEN1_64 (warehouse name), Kilobytes Sent (caption), Kilobytes_Sent_64 (attribute name), and FBSEN1_64 (column name).

**Kilobytes Sent (Superseded) attribute**

This attribute displays the total number of kilobytes sent by the File Send Adapter since the application started since the application started. The counter is incremented only for messages that have been completely written to file system. The type is real number (32-bit counter) with two decimal places of precision.

The following names are defined for this attribute: KILOBYTES_SENT or BYTES_SEN1 (warehouse name), Kilobytes Sent (Superseded) (caption), Kilobytes_Sent (attribute name), and BYTES_SEN1 (column name).

**Messages Sent attribute**

This attribute displays the total number of messages sent by the File Send Adapter since the application started. The counter is incremented only for messages that have been completely written to file system. The type is integer (32-bit counter).

The following names are defined for this attribute: MESSAGES_SENT or MESSAGES_S (warehouse name), Messages Sent (caption), Messages_Sent (attribute name), and MESSAGES_S (column name).

**Messages Sent Per Sec attribute**

This attribute displays the number of messages sent by the File Send Adapter per second. The counter applies only to messages that have been completely written to file system. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: MESSAGES_SENT_PER_SEC or MESSAGES_0 (warehouse name), Messages Sent Per Sec (caption), Messages_Sent_Per_Sec (attribute name), and MESSAGES_0 (column name).

**Name attribute**

The name of the instance. This attribute is a key attribute. The type is String.

The following names are defined for this attribute: NAME (warehouse name), Name (caption), Name (attribute name), and NAME (column name).

**Node attribute**

The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Timestamp attribute**

The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

## FTP Receive Adapter attribute group

The FTP Receive Adapter attribute group includes attributes that provide information about bytes and messages received by FTP adapter. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Bytes Received Per Sec attribute**

This attribute displays the number of bytes currently received by the FTP Receive Adapter per second. This attribute is the 64-bit version of the Bytes Received Per Sec (Superseded) attribute. The type is real number (64-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: BYTES_RECEIVED_PER_SEC_64 or FTPREC0_64 (warehouse name), Bytes Received Per Sec (caption), Bytes_Received_Per_Sec_64 (attribute name), and FTPREC0_64 (column name).

**Bytes Received Per Sec (Superseded) attribute**

This attribute displays the number of bytes received by the FTP Receive Adapter per second. The counter applies only to messages that have been completely read by the FTP Receive Adapter from the FTP server. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: BYTES_RECEIVED_PER_SEC or BYTES_REC0 (warehouse name), Bytes Received Per Sec (Superseded) (caption), Bytes_Received_Per_Sec (attribute name), and BYTES_REC0 (column name).

**Kilobytes Received attribute**

This attribute displays the total number of KB currently received by the FTP Receive Adapter. This attribute is the 64-bit version of the Kilobytes Received (Superseded) attribute. The type is real number (64-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: KILOBYTES_RECEIVED_64 or FTPKBRE_64 (warehouse name), Kilobytes Received (caption), Kilobytes_Received_64 (attribute name), and FTPKBRE_64 (column name).

**Kilobytes Received (Superseded) attribute**

This attribute displays the total number of kilobytes received by the FTP Receive Adapter since the Biztalk server was started. The counter is incremented after a message is read by the FTP Receive Adapter from the FTP server. The type is real number (32-bit counter) with two decimal places of precision.

The following names are defined for this attribute: KILOBYTES_RECEIVED or BYTES_REC1 (warehouse name), Kilobytes Received (Superseded) (caption), Kilobytes_Received (attribute name), and BYTES_REC1 (column name).

**Messages Received attribute**

This attribute displays the total number of messages received by the FTP Receive Adapter since the application started. The counter is incremented after a message is read by the FTP Receive Adapter from the FTP server. The type is integer (32-bit counter).

The following names are defined for this attribute: MESSAGES_RECEIVED or MESSAGES_R (warehouse name), Messages Received (caption), Messages_Received (attribute name), and MESSAGES_R (column name).

**Messages Received Per Sec attribute**

This attribute displays the number of messages received by the FTP Receive Adapter per second. The counter applies only to messages that have been completely read by the FTP Receive Adapter from the FTP server. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: MESSAGES_RECEIVED_PER_SEC or MESSAGES_0 (warehouse name), Messages Received Per Sec (caption), Messages_Received_Per_Sec (attribute name), and MESSAGES_0 (column name).

**Name attribute**

The name of the instance. This attribute is a key attribute. The type is String.

The following names are defined for this attribute: NAME (warehouse name), Name (caption), Name (attribute name), and NAME (column name).

**Node attribute**

The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Timestamp attribute**

The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

## FTP Send Adapter attribute group

The FTP Send Adapter attribute group includes attributes that provide information about bytes and messages sent by FTP adapter. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Bytes Sent Per Sec attribute**

This attribute displays the number of currently bytes sent by the FTP Send Adapter per second. This attribute is the 64-bit version of the Bytes Sent Per Sec (Superseded) attribute. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: BYTES_SENT_PER_SEC_64 or FTPSEN0_64 (warehouse name), Bytes Sent Per Sec (caption), Bytes_Sent_Per_Sec_64 (attribute name), and FTPSEN0_64 (column name).

**Bytes Sent Per Sec (Superseded) attribute**

This attribute displays the number of bytes sent by the FTP Send Adapter per second. The counter applies only to messages that have been written to the destination FTP server. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: BYTES_SENT_PER_SEC or BYTES_SEN0 (warehouse name), Bytes Sent Per Sec (Superseded) (caption), Bytes_Sent_Per_Sec (attribute name), and BYTES_SEN0 (column name).

**Kilobytes Sent attribute**

This attribute displays the total number of kilobytes sent by the FTP Send Adapter since the BizTalk Server was started. This attribute is the 64-bit version of the Kilobytes Sent (Superseded) attribute. The type is real number (32-bit counter) with two decimal places of precision.

The following names are defined for this attribute: KILOBYTES_SENT_64 or FTPKBSE_64 (warehouse name), Kilobytes Sent (caption), Kilobytes_Sent_64 (attribute name), and FTPKBSE_64 (column name).

**Kilobytes Sent (Superseded) attribute**

This attribute displays the total number of kilobytes sent by the FTP Send Adapter since the Biztalk server was started. The counter is incremented only for messages that have been written to the destination FTP server. The type is real number (32-bit counter) with two decimal places of precision.

The following names are defined for this attribute: KILOBYTES_SENT or BYTES_SEN1 (warehouse name), Kilobytes Sent (Superseded) (caption), Kilobytes_Sent (attribute name), and BYTES_SEN1 (column name).

**Messages Sent attribute**

This attribute displays the total number of messages sent by the FTP Send Adapter since the application started. The counter is incremented only for messages that have been written to the destination FTP server. The type is integer (32-bit counter).

The following names are defined for this attribute: MESSAGES_SENT or MESSAGES_S (warehouse name), Messages Sent (caption), Messages_Sent (attribute name), and MESSAGES_S (column name).

**Messages Sent Per Sec attribute**

This attribute displays the number of messages sent by the FTP Send Adapter per second. The counter applies only to messages that have been written to destination FTP server. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: MESSAGES_SENT_PER_SEC or MESSAGES_0 (warehouse name), Messages Sent Per Sec (caption), Messages_Sent_Per_Sec (attribute name), and MESSAGES_0 (column name).

**Name attribute**

The name of the instance. This attribute is a key attribute. The type is String.

The following names are defined for this attribute: NAME (warehouse name), Name (caption), Name (attribute name), and NAME (column name).

**Node attribute**
The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Timestamp attribute**
The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

## Generator attribute group

This attribute group includes attributes that provide information about the generator object of a Notification Services instance for BAM. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Name attribute**
This attribute displays the instance name for the generator object. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NAME (warehouse name), Name (caption), Name (attribute name), and NAME (column name).

**Node attribute**
The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Notifications Generated Per Second attribute**
This attribute displays the number notifications that are currently created per second. The type is integer (64-bit gauge).

The following names are defined for this attribute: NOTIFICATIONS_GENERATED_PER_SECOND or NOTIFGPS (warehouse name), Notifications Generated Per Second (caption), Notifications_Generated_Per_Second (attribute name), and NOTIFGPS (column name).

**Quanta Behind attribute**
This attribute displays the number of quanta that the generator is currently lagging. The type is integer (32-bit gauge).

The following names are defined for this attribute: QUANTA_BEHIND or QNTABHND (warehouse name), Quanta Behind (caption), Quanta_Behind (attribute name), and QNTABHND (column name).

**Quanta Failed attribute**
This attribute displays the number of quanta that failed since the generator was started. Quantum failure indicates that at least one of the rules in the quantum failed. The type is integer (64-bit counter).

The following names are defined for this attribute: QUANTA_FAILED or QNTAFAIL (warehouse name), Quanta Failed (caption), Quanta_Failed (attribute name), and QNTAFAIL (column name).

**Quanta Processed attribute**
This attribute displays the total number of quanta that were processed since the generator was started. If the generator is trying to catch up, this number can be very high. The type is integer (64-bit counter).

The following names are defined for this attribute: QUANTA_PROCESSED or QUANTAPRC (warehouse name), Quanta Processed (caption), Quanta_Processed (attribute name), and QUANTAPRC (column name).

**Rule Firing Failures attribute**
This attribute displays the total number of rule firings that failed since the generator was started. The type is integer (64-bit counter).

The following names are defined for this attribute: RULE_FIRING_FAILURES or RULEFIRFA (warehouse name), Rule Firing Failures (caption), Rule_Firing_Failures (attribute name), and RULEFIRFA (column name).

**Rule Firings attribute**
This attribute displays the total number of rule firings since the generator was started. The type is integer (64-bit counter).

The following names are defined for this attribute: RULE_FIRINGS or RULEFIRNG (warehouse name), Rule Firings (caption), Rule_Firings (attribute name), and RULEFIRNG (column name).

**Server Name attribute**
This attribute displays the name of the BizTalk Server. The type is string.

The following names are defined for this attribute: SERVER_NAME or SRVRNME (warehouse name), Server Name (caption), Server_Name (attribute name), and SRVRNME (column name).

**Skipped Chronicle Rule Firings attribute**
This attribute displays the total number of quanta that was skipped for chronicle rule firings since the generator was started. The type is integer (64-bit counter).

The following names are defined for this attribute: SKIPPED_CHRONICLE_RULE_FIRINGS or SKCHRRUFR (warehouse name), Skipped Chronicle Rule Firings (caption), Skipped_Chronicle_Rule_Firings (attribute name), and SKCHRRUFR (column name).

**Skipped Quanta attribute**
This attribute displays the total number of quanta that the generator skipped since the generator was started. The type is integer (64-bit counter).

The following names are defined for this attribute: SKIPPED_QUANTA or SKIPEDQUN (warehouse name), Skipped Quanta (caption), Skipped_Quanta (attribute name), and SKIPEDQUN (column name).

**Skipped Subscription Rule Firings attribute**
This attribute displays the number of quanta that is currently skipped for subscription rule firings. The type is integer (64-bit gauge).

The following names are defined for this attribute: SKIPPED_SUBSCRIPTION_RULE_FIRINGS or SKSUBRUFR (warehouse name), Skipped Subscription Rule Firings (caption), Skipped_Subscription_Rule_Firings (attribute name), and SKSUBRUFR (column name).

**Timestamp attribute**
The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

## Host Throttling attribute group

This attribute group includes attributes that provide information about host throttling in BizTalk Server. This group is applicable for BizTalk 2006/2006 R2, but not for BizTalk 2004. Situations based on this group will not trigger for BizTalk 2004. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Active Instance Count attribute**
This attribute displays the current number of active instances loaded in memory, including the standby instances. The type is integer (32-bit gauge).

The following names are defined for this attribute: ACTIVE_INSTANCE_COUNT or ACTIVE_INS (warehouse name), Active Instance Count (caption), Active_Instance_Count (attribute name), and ACTIVE_INS (column name).

**Database Session attribute**
This attribute displays the number of open database connections to the MessageBox. The type is integer (32-bit gauge).

The following names are defined for this attribute: DATABASE_SESSION or DATABASE_S (warehouse name), Database Session (caption), Database_Session (attribute name), and DATABASE_S (column name).

**Database Session Threshold attribute**
This attribute displays the current threshold for the number of open database connections to the MessageBox. The type is integer (32-bit gauge).

The following names are defined for this attribute: DATABASE_SESSION_THRESHOLD or DATABASE_0 (warehouse name), Database Session Threshold (caption), Database_Session_Threshold (attribute name), and DATABASE_0 (column name).

**Database Size attribute**
This attribute displays the number of messages in the database queues that this process has published. The type is integer (32-bit gauge).

The following names are defined for this attribute: DATABASE_SIZE or DATABASE_1 (warehouse name), Database Size (caption), Database_Size (attribute name), and DATABASE_1 (column name).

**High Database Session attribute**
This attribute indicates (in form of status codes) if the number of currently opened database sessions exceeds the threshold. The type is integer with enumerated values. The following values are defined: Normal (0), Threshold exceeded (1). Any value that does not have a definition here is displayed in the User Interface.

The following names are defined for this attribute: HIGH_DATABASE_SESSION or HIGH_DATAB (warehouse name), High Database Session (caption), High_Database_Session (attribute name), and HIGH_DATAB (column name).

**High Database Size attribute**
This attribute indicates (in form of status codes) whether the database size is normal or exceeded the threshold values. The type is integer with enumerated values. The following values are defined: Normal (0), Threshold exceeded (1). Any value that does not have a definition here is displayed in the User Interface.

The following names are defined for this attribute: HIGH_DATABASE_SIZE or HIGH_DATA0 (warehouse name), High Database Size (caption), High_Database_Size (attribute name), and HIGH_DATA0 (column name).

**High In Process Message Count attribute**
This attribute indicates (in form of status codes) whether the In-Process message count is normal or exceeded the threshold values. The type is integer with enumerated values. The following values are defined: Normal (0), Threshold exceeded (1). Any value that does not have a definition here is displayed in the User Interface.

The following names are defined for this attribute: HIGH_IN_PROCESS_MESSAGE_COUNT or HIGH_IN_PR (warehouse name), High In Process Message Count (caption), High_In_Process_Message_Count (attribute name), and HIGH_IN_PR (column name).

**High Message Delivery Rate attribute**
This attribute indicates (in form of status codes) if the message delivery rate is higher than the message processing rate. The type is integer with enumerated values. The following values are defined: Normal (0), Exceeded the message processing rate (1). Any value that does not have a definition here is displayed in the User Interface.

The following names are defined for this attribute: HIGH_MESSAGE_DELIVERY_RATE or HIGH_MESSA (warehouse name), High Message Delivery Rate (caption), High_Message_Delivery_Rate (attribute name), and HIGH_MESSA (column name).

**High Message Publishing Rate attribute**
This attribute indicates (in form of status codes) if the message publishing request rate is higher

than the message publishing completion rate. The type is integer with enumerated values. The following values are defined: Normal (0), Exceeded the message completion rate (1). Any value that does not have a definition here is displayed in the User Interface.

The following names are defined for this attribute: HIGH_MESSAGE_PUBLISHING_RATE or HIGH_MESS0 (warehouse name), High Message Publishing Rate (caption), High_Message_Publishing_Rate (attribute name), and HIGH_MESS0 (column name).

**High Process Memory attribute**

This attribute indicates (in form of status codes) if the process memory consumption exceeds the threshold. The type is integer with enumerated values. The following values are defined: Normal (0), Threshold exceeded (1). Any value that does not have a definition here is displayed in the User Interface.

The following names are defined for this attribute: HIGH_PROCESS_MEMORY or HIGH_PROCE (warehouse name), High Process Memory (caption), High_Process_Memory (attribute name), and HIGH_PROCE (column name).

**High System Memory attribute**

This attribute indicates (in form of status codes) if the system-wide physical memory consumption exceeds the threshold. The type is integer with enumerated values. The following values are defined: Normal (0), Threshold exceeded (1). Any value that does not have a definition here is displayed in the User Interface.

The following names are defined for this attribute: HIGH_SYSTEM_MEMORY or HIGH_SYSTE (warehouse name), High System Memory (caption), High_System_Memory (attribute name), and HIGH_SYSTE (column name).

**High Thread Count attribute**

This attribute indicates (in form of status codes) if the thread count exceeds the threshold. The type is integer with enumerated values. The following values are defined: Normal (0), Threshold exceeded (1). Any value that does not have a definition here is displayed in the User Interface.

The following names are defined for this attribute: HIGH_THREAD_COUNT or HIGH_THREA (warehouse name), High Thread Count (caption), High_Thread_Count (attribute name), and HIGH_THREA (column name).

**In Process Message Count attribute**

This attribute displays the number of concurrent messages that the service class is processing. The type is integer (32-bit gauge).

The following names are defined for this attribute: IN_PROCESS_MESSAGE_COUNT or IN_PROCESS (warehouse name), In Process Message Count (caption), In_Process_Message_Count (attribute name), and IN_PROCESS (column name).

**In Process Message Count Threshold attribute**

This attribute displays the current threshold for the number of concurrent messages that the service class is processing. The type is integer (32-bit gauge).

The following names are defined for this attribute: IN_PROCESS_MESSAGE_COUNT_THRESHOLD or IN_PROCES0 (warehouse name), In Process Message Count Threshold (caption), In_Process_Message_Count_Threshold (attribute name), and IN_PROCES0 (column name).

**Message Delivery Delay In Sec attribute**

This attribute displays the current delay in seconds imposed on each message delivery batch. This is applicable if the message delivery is being throttled. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: MESSAGE_DELIVERY_DELAY_IN_SEC or MESSAGE_D5 (warehouse name), Message Delivery Delay In Sec (caption), Message_Delivery_Delay_In_Sec (attribute name), and MESSAGE_D5 (column name).

**Message Delivery Incoming Rate attribute**

This attribute displays the number of messages per second that are being delivered to the Orchestration engine or the Messaging engine in the given sample interval. The type is integer (32-bit gauge).

The following names are defined for this attribute: MESSAGE_DELIVERY_INCOMING_RATE or MESSAGE_D0 (warehouse name), Message Delivery Incoming Rate (caption), Message_Delivery_Incoming_Rate (attribute name), and MESSAGE_D0 (column name).

**Message Delivery Outgoing Rate attribute**

This attribute displays the number of messages per second that are being processed by the Orchestration engine or the Messaging engine in the given sample interval. The type is integer (32-bit gauge).

The following names are defined for this attribute: MESSAGE_DELIVERY_OUTGOING_RATE or MESSAGE_D1 (warehouse name), Message Delivery Outgoing Rate (caption), Message_Delivery_Outgoing_Rate (attribute name), and MESSAGE_D1 (column name).

**Message Delivery Throttling State attribute**

This attribute indicates the throttling state of the message delivery. A non-zero value indicates that the message delivery is being throttled. The type is integer with enumerated values. The following values are defined: Normal (0), Imbalanced message delivery rate (1), High in-process message count (3), High process memory (4), High system memory (5), High thread count (9), User override on delivery (10). Any value that does not have a definition here is displayed in the User Interface.

The following names are defined for this attribute: MESSAGE_DELIVERY_THROTTLING_STATE or MESSAGE_D2 (warehouse name), Message Delivery Throttling State (caption), Message_Delivery_Throttling_State (attribute name), and MESSAGE_D2 (column name).

**Message Delivery Throttling State Duration In Min attribute**

This attribute displays the minutes spent in the current state (throttling or not throttling) of message delivery throttling. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: MESSAGE_DELIVERY_THROTTLING_STATE_DURATION_IN_MIN or MESSAGE_D6 (warehouse name), Message Delivery Throttling State Duration In Min (caption), Message_Delivery_Throttling_State_Duration_In_Min (attribute name), and MESSAGE_D6 (column name).

**Message Delivery Throttling User Override attribute**

This attribute displays the message publishing throttling user override that is monitored by the engine. The type is integer with enumerated values. The following values are defined: Normal (0), Always throttle message delivery (1), Do not throttle message delivery (2). Any value that does not have a definition here is displayed in the User Interface.

The following names are defined for this attribute: MESSAGE_DELIVERY_THROTTLING_USER_OVERRIDE or MESSAGE_D4 (warehouse name), Message Delivery Throttling User Override (caption), Message_Delivery_Throttling_User_Override (attribute name), and MESSAGE_D4 (column name).

**Message Publishing Delay In Sec attribute**

This attribute displays the current delay in seconds imposed on each message publishing batch. It is applicable if the message publishing is being throttled and if the batch is not exempted from throttling. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: MESSAGE_PUBLISHING_DELAY_IN_SEC or MESSAGE_P5 (warehouse name), Message Publishing Delay In Sec (caption), Message_Publishing_Delay_In_Sec (attribute name), and MESSAGE_P5 (column name).

**Message Publishing Incoming Rate attribute**

This attribute displays the number of messages per second that are being sent to the database for publishing in the given sample interval. The type is integer (32-bit gauge).

The following names are defined for this attribute: MESSAGE_PUBLISHING_INCOMING_RATE or MESSAGE_P0 (warehouse name), Message Publishing Incoming Rate (caption), Message_Publishing_Incoming_Rate (attribute name), and MESSAGE_P0 (column name).

**Message Publishing Outgoing Rate attribute**

This attribute displays the number of messages per second that are actually published in the database in the given sample interval. The type is integer (32-bit gauge).

The following names are defined for this attribute: MESSAGE_PUBLISHING_OUTGOING_RATE or MESSAGE_P1 (warehouse name), Message Publishing Outgoing Rate (caption), Message_Publishing_Outgoing_Rate (attribute name), and MESSAGE_P1 (column name).

**Message Publishing Throttling State attribute**

This attribute displays the throttling state of the message publishing. A non-zero value indicates that the message publishing is being throttled. The type is integer with enumerated values. The following values are defined: Normal (0), Imbalanced message publishing rate (2), High process memory (4), High system memory (5), Database growth (6), High session count (8), High thread count (9), User override on publishing (11). Any value that does not have a definition here is displayed in the User Interface.

The following names are defined for this attribute: MESSAGE_PUBLISHING_THROTTLING_STATE or MESSAGE_P2 (warehouse name), Message Publishing Throttling State (caption), Message_Publishing_Throttling_State (attribute name), and MESSAGE_P2 (column name).

**Message Publishing Throttling State Duration In Min attribute**

This attribute displays the minutes spent in the current state (throttling or not throttling) of message publish throttling. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: MESSAGE_PUBLISHING_THROTTLING_STATE_DURATION_IN_MIN or MESSAGE_P6 (warehouse name), Message Publishing Throttling State Duration In Min (caption), Message_Publishing_Throttling_State_Duration_In_Min (attribute name), and MESSAGE_P6 (column name).

**Message Publishing Throttling User Override attribute**

This attribute displays the message delivery throttling user override that is monitored by the engine. The type is integer with enumerated values. The following values are defined: Normal (0), Always throttle message publishing (1), Do not throttle message publishing (2). Any value that does not have a definition here is displayed in the User Interface.

The following names are defined for this attribute: MESSAGE_PUBLISHING_THROTTLING_USER_OVERRIDE or MESSAGE_P4 (warehouse name), Message Publishing Throttling User Override (caption), Message_Publishing_Throttling_User_Override (attribute name), and MESSAGE_P4 (column name).

**Name attribute**

The name of the instance. This attribute is a key attribute. The type is String.

The following names are defined for this attribute: NAME (warehouse name), Name (caption), Name (attribute name), and NAME (column name).

**Node attribute**

The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Physical Memory Usage In MB attribute**

This attribute displays the amount of physical memory in megabytes being used on the machine by all processes. The type is integer (32-bit gauge).

The following names are defined for this attribute: PHYSICAL_MEMORY_USAGE_IN_MB or PHYSICAL_M (warehouse name), Physical Memory Usage In MB (caption), Physical_Memory_Usage_In_MB (attribute name), and PHYSICAL_M (column name).

**Process Memory Usage In MB attribute**
This attribute displays the process memory consumption in megabytes. The type is integer (32-bit gauge).

The following names are defined for this attribute: PROCESS_MEMORY_USAGE_IN_MB or PROCESS_ME (warehouse name), Process Memory Usage In MB (caption), Process_Memory_Usage_In_MB (attribute name), and PROCESS_ME (column name).

**Process Memory Usage Threshold In MB attribute**
This attribute displays the current threshold for process memory consumption in megabytes. The type is integer (32-bit gauge).

The following names are defined for this attribute: PROCESS_MEMORY_USAGE_THRESHOLD_IN_MB or PROCESS_M0 (warehouse name), Process Memory Usage Threshold In MB (caption), Process_Memory_Usage_Threshold_In_MB (attribute name), and PROCESS_M0 (column name).

**Server Name attribute**
This attribute displays the name of the BizTalk Server. The type is string.

The following names are defined for this attribute: SERVER_NAME or SRVRNME (warehouse name), Server Name (caption), Server_Name (attribute name), and SRVRNME (column name).

**Thread Count attribute**
This attribute displays the number of threads being used within the process. The type is integer (32-bit gauge).

The following names are defined for this attribute: THREAD_COUNT or THREAD_COU (warehouse name), Thread Count (caption), Thread_Count (attribute name), and THREAD_COU (column name).

**Thread Count Threshold attribute**
This attribute displays the current threshold for the number of threads in the process. The type is integer (32-bit gauge).

The following names are defined for this attribute: THREAD_COUNT_THRESHOLD or THREAD_CO0 (warehouse name), Thread Count Threshold (caption), Thread_Count_Threshold (attribute name), and THREAD_CO0 (column name).

**Timestamp attribute**
The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

**Total Batches Committed attribute**
This attribute displays the number of database batches that the service class has committed. The type is integer (32-bit gauge).

The following names are defined for this attribute: TOTAL_BATCHES_COMMITTED or TOTAL_BATC (warehouse name), Total Batches Committed (caption), Total_Batches_Committed (attribute name), and TOTAL_BATC (column name).

**Total Messages Delivered attribute**
This attribute displays the number of outbound messages delivered to the Orchestration engine or the End Point Manager (EPM). The type is integer (32-bit gauge).

The following names are defined for this attribute: TOTAL_MESSAGES_DELIVERED or TOTAL_MESS (warehouse name), Total Messages Delivered (caption), Total_Messages_Delivered (attribute name), and TOTAL_MESS (column name).

**Total Messages Published attribute**
This attribute displays the total number of messages published. The type is integer (32-bit gauge).

The following names are defined for this attribute: TOTAL_MESSAGES_PUBLISHED or TOTAL_MES0 (warehouse name), Total Messages Published (caption), Total_Messages_Published (attribute name), and TOTAL_MES0 (column name).

## HTTP Receive Adapter attribute group

The HTTP Receive Adapter attribute group includes attributes that provide information about requests received and acknowledgements sent by HTTP adapter. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Memory Queue Size attribute**

This attribute displays the number of incoming messages in the HTTP Receive Adapter's internal memory queue. The type is integer (32-bit gauge).

The following names are defined for this attribute: MEMORY_QUEUE_SIZE or MEMORY_QUE (warehouse name), Memory Queue Size (caption), Memory_Queue_Size (attribute name), and MEMORY_QUE (column name).

**Messages Received attribute**

This attribute displays the total number of HTTP requests received by the HTTP Receive Adapter since the application started. The counter is incremented after a request message is read by the HTTP Receive Adapter from the HTTP client. The type is integer (32-bit counter).

The following names are defined for this attribute: MESSAGES_RECEIVED or MESSAGES_R (warehouse name), Messages Received (caption), Messages_Received (attribute name), and MESSAGES_R (column name).

**Messages Received Per Sec attribute**

This attribute displays the number of HTTP requests received by the HTTP Receive Adapter per second. The counter applies only to request messages that have been completely read by the HTTP Receive Adapter from the HTTP client. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: MESSAGES_RECEIVED_PER_SEC or MESSAGES_0 (warehouse name), Messages Received Per Sec (caption), Messages_Received_Per_Sec (attribute name), and MESSAGES_0 (column name).

**Messages Sent attribute**

This attribute displays the total number of HTTP responses sent by the HTTP Receive Adapter since the application started. The counter is incremented only for response messages that have been successfully sent to HTTP clients. The type is integer (32-bit counter).

The following names are defined for this attribute: MESSAGES_SENT or MESSAGES_S (warehouse name), Messages Sent (caption), Messages_Sent (attribute name), and MESSAGES_S (column name).

**Messages Sent Per Sec attribute**

This attribute displays the number of HTTP responses sent by the HTTP Receive Adapter per second. The counter applies only to response messages that have been successfully sent to HTTP clients. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: MESSAGES_SENT_PER_SEC or MESSAGES_1 (warehouse name), Messages Sent Per Sec (caption), Messages_Sent_Per_Sec (attribute name), and MESSAGES_1 (column name).

**Name attribute**

The name of the instance. This attribute is a key attribute. The type is String.

The following names are defined for this attribute: NAME (warehouse name), Name (caption), Name (attribute name), and NAME (column name).

**Node attribute**

The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Time To Add Message To Batch attribute**

This attribute displays the average time between when a message is given to the HTTP Receive Adapter by IIS and when the message is added to a batch. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: TIME_TO_ADD_MESSAGE_TO_BATCH or TIME_TO_AD (warehouse name), Time To Add Message To Batch (caption), Time_To_Add_Message_To_Batch (attribute name), and TIME_TO_AD (column name).

**Time To Build Batch attribute**

This attribute displays the average time taken by the HTTP Receive Adapter to build a message batch. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: TIME_TO_BUILD_BATCH or TIME_TO_BU (warehouse name), Time To Build Batch (caption), Time_To_Build_Batch (attribute name), and TIME_TO_BU (column name).

**Timestamp attribute**

The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

## HTTP Send Adapter attribute group

The HTTP Send Adapter attribute group includes attributes that provide information about responses sent and acknowledgements received by HTTP adapter. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Memory Queue Size attribute**

This attribute displays the number of outgoing messages in the HTTP Send Adapter's internal memory queue. The type is integer (32-bit gauge).

The following names are defined for this attribute: MEMORY_QUEUE_SIZE or MEMORY_QUE (warehouse name), Memory Queue Size (caption), Memory_Queue_Size (attribute name), and MEMORY_QUE (column name).

**Messages Received attribute**

This attribute displays the total number of HTTP response messages received by the HTTP Send Adapter since the application started. The counter is incremented after a response message is read by the HTTP Send Adapter from HTTP servers. The type is integer (32-bit counter).

The following names are defined for this attribute: MESSAGES_RECEIVED or MESSAGES_R (warehouse name), Messages Received (caption), Messages_Received (attribute name), and MESSAGES_R (column name).

**Messages Received Per Sec attribute**

This attribute displays the number of HTTP responses received by the HTTP Send Adapter per second. The counter applies only to response messages that have been completely read by the HTTP Send Adapter from HTTP servers. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: MESSAGES_RECEIVED_PER_SEC or MESSAGES_0 (warehouse name), Messages Received Per Sec (caption), Messages_Received_Per_Sec (attribute name), and MESSAGES_0 (column name).

**Messages Sent attribute**

This attribute displays the total number of HTTP requests sent by the HTTP Send Adapter since the application started. The counter is incremented only for request messages that have reached the destination URL. The type is integer (32-bit counter).

The following names are defined for this attribute: MESSAGES_SENT or MESSAGES_S (warehouse name), Messages Sent (caption), Messages_Sent (attribute name), and MESSAGES_S (column name).

**Messages Sent Per Sec attribute**
This attribute displays the number of HTTP requests sent by the HTTP Send Adapter per second. The counter applies only to request messages that have reached the destination URL. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: MESSAGES_SENT_PER_SEC or MESSAGES_1 (warehouse name), Messages Sent Per Sec (caption), Messages_Sent_Per_Sec (attribute name), and MESSAGES_1 (column name).

**Name attribute**
The name of the instance. This attribute is a key attribute. The type is String.

The following names are defined for this attribute: NAME (warehouse name), Name (caption), Name (attribute name), and NAME (column name).

**Node attribute**
The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Timestamp attribute**
The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

## Human Workflow Services attribute group

The Human Workflow Services attribute group includes attributes that provide information about the activities take place between people or processes. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Activity Flows Retrieved attribute**
This attribute displays the number of activity flows retrieved from tracking database. The type is integer (32-bit gauge).

The following names are defined for this attribute: ACTIVITY_FLOWS_RETRIEVED or ACTIVITY_F (warehouse name), Activity Flows Retrieved (caption), Activity_Flows_Retrieved (attribute name), and ACTIVITY_F (column name).

**New Action Added attribute**
This attribute displays the number of actions added to activity flows. The type is integer (32-bit gauge).

The following names are defined for this attribute: NEW_ACTION_ADDED or NEW_ACTION (warehouse name), New Action Added (caption), New_Action_Added (attribute name), and NEW_ACTION (column name).

**New Activity Flows attribute**
This attribute displays the number of new activity flows created. The type is integer (32-bit gauge).

The following names are defined for this attribute: NEW_ACTIVITY_FLOWS or NEW_ACTIVI (warehouse name), New Activity Flows (caption), New_Activity_Flows (attribute name), and NEW_ACTIVI (column name).

**Node attribute**
The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Server Name attribute**
This attribute displays the name of the BizTalk Server. The type is string.

The following names are defined for this attribute: SERVER_NAME or SRVRNME (warehouse name), Server Name (caption), Server_Name (attribute name), and SRVRNME (column name).

**Steps Retrieved attribute**
This attribute displays the number of actions retrieved from tracking database. The type is integer (32-bit gauge).

The following names are defined for this attribute: STEPS_RETRIEVED or STEPS_RETR (warehouse name), Steps Retrieved (caption), Steps_Retrieved (attribute name), and STEPS_RETR (column name).

**Tasks Retrieved attribute**
This attribute displays the number of tasks retrieved from tracking database. The type is integer (32-bit gauge).

The following names are defined for this attribute: TASKS_RETRIEVED or TASKS_RETR (warehouse name), Tasks Retrieved (caption), Tasks_Retrieved (attribute name), and TASKS_RETR (column name).

**Timestamp attribute**
The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

## Management Database attribute group

The Management Database attribute group includes attributes that provide information about the BizTalk Management Database. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Database Name attribute**
This attribute displays the Management Database name. The type is string.

The following names are defined for this attribute: DATABASE_NAME or MGMTDBNAME (warehouse name), Database Name (caption), Database_Name (attribute name), and MGMTDBNAME (column name).

**Node attribute**
The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Server Name attribute**
This attribute displays the Management Database server name. The type is string.

The following names are defined for this attribute: SERVER_NAME or MGMTDBSERV (warehouse name), Server Name (caption), Server_Name (attribute name), and MGMTDBSERV (column name).

**Timestamp attribute**
The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

## Message Box General Counters attribute group

The Message Box General Counters attribute group includes attributes that provide information about MessageBox database used by the BizTalk Server. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Change in Tracking Data Size attribute**
This attribute displays the change in 'Tracking Data Size'. The type is integer (difference between successive values).

The following names are defined for this attribute: CHANGE_IN_TRACKING_DATA_SIZE or TRACKING_0 (warehouse name), Change in Tracking Data Size (caption), Change_in_Tracking_Data_Size (attribute name), and TRACKING_0 (column name).

**Instances Total Number attribute**
This attribute tracks the sum of all the instances of each host, which exist within a particular Message Box. The type is integer (32-bit gauge).

The following names are defined for this attribute: INSTANCES_TOTAL_NUMBER or INSTANCES_ (warehouse name), Instances Total Number (caption), Instances_Total_Number (attribute name), and INSTANCES_ (column name).

**MsgBox Dead Processes Cleanup Purge Jobs attribute**
This attribute displays time in seconds for the most recent run of the SQL agent job. This releases the database rows associated with dead BizTalk processes. The type is integer (32-bit gauge).

The following names are defined for this attribute: MSGBOX_DEAD_PROCESSES_CLEANUP_PURGE_JOBS or MSGBOX_DEA (warehouse name), MsgBox Dead Processes Cleanup Purge Jobs (caption), MsgBox_Dead_Processes_Cleanup_Purge_Jobs (attribute name), and MSGBOX_DEA (column name).

**MsgBox Msg Cleanup Purge Jobs attribute**
This attribute displays time in seconds for the most recent run of the SQL agent job. This cleans up message box tables associated with removed messages. The type is integer (32-bit gauge).

The following names are defined for this attribute: MSGBOX_MSG_CLEANUP_PURGE_JOBS or MSGBOX_MSG (warehouse name), MsgBox Msg Cleanup Purge Jobs (caption), MsgBox_Msg_Cleanup_Purge_Jobs (attribute name), and MSGBOX_MSG (column name).

**MsgBox Parts Cleanup Purge Jobs attribute**
This attribute displays time in seconds for the most recent run of the SQL agent job. This clean up message box tables associated with removed message parts. The type is integer (32-bit gauge).

The following names are defined for this attribute: MSGBOX_PARTS_CLEANUP_PURGE_JOBS or MSGBOX_PAR (warehouse name), MsgBox Parts Cleanup Purge Jobs (caption), MsgBox_Parts_Cleanup_Purge_Jobs (attribute name), and MSGBOX_PAR (column name).

**MsgBox Purge Subscriptions Job Purge Jobs attribute**
This attribute displays time in seconds for the most recent run of the SQL agent job. This purges subscriptions which are no longer in use. The type is integer (32-bit gauge).

The following names are defined for this attribute: MSGBOX_PURGE_SUBSCRIPTIONS_JOB_PURGE_JOBS or MSGBOX_PUR (warehouse name), MsgBox Purge Subscriptions Job Purge Jobs (caption), MsgBox_Purge_Subscriptions_Job_Purge_Jobs (attribute name), and MSGBOX_PUR (column name).

**Name attribute**
The name of the instance. This attribute is a key attribute. The type is String.

The following names are defined for this attribute: NAME (warehouse name), Name (caption), Name (attribute name), and NAME (column name).

**Node attribute**
The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Spool Size attribute**
This attribute tracks the size of the spool on a particular message box on a particular server. The type is integer (32-bit gauge).

The following names are defined for this attribute: SPOOL_SIZE (warehouse name), Spool Size (caption), Spool_Size (attribute name), and SPOOL_SIZE (column name).

**Timestamp attribute**
The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

**Tracked Msgs Copy Purge Jobs attribute**
This attribute displays time in seconds for the most recent run of the SQL agent job. This copies tracked message bodies for tracked messages. The type is integer (32-bit gauge).

The following names are defined for this attribute: TRACKED_MSGS_COPY_PURGE_JOBS or TRACKED_MS (warehouse name), Tracked Msgs Copy Purge Jobs (caption), Tracked_Msgs_Copy_Purge_Jobs (attribute name), and TRACKED_MS (column name).

**Tracking Data Size attribute**
This attribute tracks the size of the tracking data table on a particular message box on a particular server. The type is integer (32-bit gauge).

The following names are defined for this attribute: TRACKING_DATA_SIZE or TRACKING_D (warehouse name), Tracking Data Size (caption), Tracking_Data_Size (attribute name), and TRACKING_D (column name).

**Tracking Spool Cleanup Purge Jobs attribute**
This attribute displays time in seconds for the most recent run of the SQL agent job. This purges the inactive tracking spool tables. The type is integer (32-bit gauge).

The following names are defined for this attribute: TRACKING_SPOOL_CLEANUP_PURGE_JOBS or TRACKING_S (warehouse name), Tracking Spool Cleanup Purge Jobs (caption), Tracking_Spool_Cleanup_Purge_Jobs (attribute name), and TRACKING_S (column name).

## Message Box Host Counters attribute group

The Message Box Host Counters attribute group includes attributes that provide information about the hosts of the BizTalk Server. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Host Queue Instance State Msg Refs Length attribute**
This attribute tracks the number of message references in the instance state queue for the particular host. The type is integer (32-bit gauge).

The following names are defined for this attribute: HOST_QUEUE_INSTANCE_STATE_MSG_REFS_LENGTH or HOST_QUEUE (warehouse name), Host Queue Instance State Msg Refs Length (caption), Host_Queue_Instance_State_Msg_Refs_Length (attribute name), and HOST_QUEUE (column name).

**Host Queue Length attribute**
This attribute tracks the total number of messages in the particular host. The type is integer (32-bit gauge).

The following names are defined for this attribute: HOST_QUEUE_LENGTH or HOST_QUEU0 (warehouse name), Host Queue Length (caption), Host_Queue_Length (attribute name), and HOST_QUEU0 (column name).

**Host Queue Number of Instances attribute**
This attribute tracks the number of instances of the particular host. The type is integer (32-bit gauge).

The following names are defined for this attribute: HOST_QUEUE_NUMBER_OF_INSTANCES or HOST_QUEU1 (warehouse name), Host Queue Number of Instances (caption), Host_Queue_Number_of_Instances (attribute name), and HOST_QUEU1 (column name).

**Host Queue Suspended Msgs Length attribute**
This attribute tracks the total number of suspended messages for the particular host. The type is integer (32-bit gauge).

The following names are defined for this attribute: HOST_QUEUE_SUSPENDED_MSGS_LENGTH or HOST_QUEU2 (warehouse name), Host Queue Suspended Msgs Length (caption), Host_Queue_Suspended_Msgs_Length (attribute name), and HOST_QUEU2 (column name).

**Name attribute**
The name of the instance. This attribute is a key attribute. The type is String.

The following names are defined for this attribute: NAME (warehouse name), Name (caption), Name (attribute name), and NAME (column name).

**Node attribute**
The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Timestamp attribute**
The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

## Messagebox Database attribute group

The Messagebox Database attribute group includes attributes that provide information about the BizTalk Messagebox Database. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Database Name attribute**
This attribute displays the Messagebox Database name. The type is string.

The following names are defined for this attribute: DATABASE_NAME or MSGBOXDBNA (warehouse name), Database Name (caption), Database_Name (attribute name), and MSGBOXDBNA (column name).

**Disable New Message Publication attribute**
This attribute displays whether the publication of new messages in the MessageBox database is enabled or disabled. The type is string.

The following names are defined for this attribute: DISABLE_NEW_MESSAGE_PUBLICATION or DISABLENEW (warehouse name), Disable New Message Publication (caption), Disable_New_Message_Publication (attribute name), and DISABLENEW (column name).

**Is Master Message Box attribute**
This attribute displays whether the MessageBox is the master MessageBox database. The type is string.

The following names are defined for this attribute: IS_MASTER_MESSAGE_BOX or ISMASTERMS (warehouse name), Is Master Message Box (caption), Is_Master_Message_Box (attribute name), and ISMASTERMS (column name).

**Node attribute**
The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Server Name attribute**
This attribute displays the Messagebox Database server name. The type is string.

The following names are defined for this attribute: SERVER_NAME or MSGBOXDBSE (warehouse name), Server Name (caption), Server_Name (attribute name), and MSGBOXDBSE (column name).

**Timestamp attribute**
The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

## Messaging attribute group

The Messaging attribute group includes attributes that provide information about documents processed, submitted. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Active Receive Locations attribute**
This attribute displays the number of receive locations currently enabled in this host instance. The type is integer (32-bit gauge).

The following names are defined for this attribute: ACTIVE_RECEIVE_LOCATIONS or ACTIVE_REC (warehouse name), Active Receive Locations (caption), Active_Receive_Locations (attribute name), and ACTIVE_REC (column name).

**Active Receive Threads attribute**
This attribute displays the number of threads in the Messaging Engine currently processing messages received from adapters running in this host instance. These include messages that have been processed asynchronously by Send Adapters. The type is integer (32-bit gauge).

The following names are defined for this attribute: ACTIVE_RECEIVE_THREADS or ACTIVE_RE0 (warehouse name), Active Receive Threads (caption), Active_Receive_Threads (attribute name), and ACTIVE_RE0 (column name).

**Active Send Messages attribute**
This attribute displays the number of messages the Messaging Engine has currently in send processing. This includes messages currently in send pipeline processing as well as response messages for Receive Adapters. The type is integer (32-bit gauge).

The following names are defined for this attribute: ACTIVE_SEND_MESSAGES or ACTIVE_SEN (warehouse name), Active Send Messages (caption), Active_Send_Messages (attribute name), and ACTIVE_SEN (column name).

**Active Send Threads attribute**
This attribute displays the number of threads in the Messaging Engine currently processing messages to send to adapters. This includes response messages to Receive Adapters. The type is integer (32-bit gauge).

The following names are defined for this attribute: ACTIVE_SEND_THREADS or ACTIVE_SE0 (warehouse name), Active Send Threads (caption), Active_Send_Threads (attribute name), and ACTIVE_SE0 (column name).

**Documents Processed attribute**
This attribute displays the documents processed since the application started. The type is integer (32-bit counter).

The following names are defined for this attribute: DOCUMENTS_PROCESSED or DOCUMENTS_ (warehouse name), Documents Processed (caption), Documents_Processed (attribute name), and DOCUMENTS_ (column name).

**Documents Processed Per Sec attribute**
This attribute displays the documents processed per second. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: DOCUMENTS_PROCESSED_PER_SEC or DOCUMENTS0 (warehouse name), Documents Processed Per Sec (caption), Documents_Processed_Per_Sec (attribute name), and DOCUMENTS0 (column name).

**Documents Received attribute**
This attribute displays the documents received since the application started. The type is integer (32-bit counter).

The following names are defined for this attribute: DOCUMENTS_RECEIVED or DOCUMENTS1 (warehouse name), Documents Received (caption), Documents_Received (attribute name), and DOCUMENTS1 (column name).

**Documents Received Per Sec attribute**

This attribute displays the documents received per second. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: DOCUMENTS_RECEIVED_PER_SEC or DOCUMENTS2 (warehouse name), Documents Received Per Sec (caption), Documents_Received_Per_Sec (attribute name), and DOCUMENTS2 (column name).

**Documents Resubmitted attribute**

This attribute displays the total number of documents resubmitted by Send Adapters since the application started. The type is integer (32-bit counter).

The following names are defined for this attribute: DOCUMENTS_RESUBMITTED or DOCUMENTS3 (warehouse name), Documents Resubmitted (caption), Documents_Resubmitted (attribute name), and DOCUMENTS3 (column name).

**Documents Submitted Per Batch attribute**

This attribute displays the average number of documents currently submitted per batch. This attribute is the 64-bit version of the Documents Submitted Per Batch (Superseded) attribute. The type is real number (64-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: DOCUMENTS_SUBMITTED_PER_BATCH_64 or DOC4_64 (warehouse name), Documents Submitted Per Batch (caption), Documents_Submitted_Per_Batch_64 (attribute name), and DOC4_64 (column name).

**Documents Submitted Per Batch (Superseded) attribute**

This attribute displays the average number of documents submitted per batch. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: DOCUMENTS_SUBMITTED_PER_BATCH or DOCUMENTS4 (warehouse name), Documents Submitted Per Batch (Superseded) (caption), Documents_Submitted_Per_Batch (attribute name), and DOCUMENTS4 (column name).

**Documents Suspended attribute**

This attribute displays the documents suspended since the application started. The type is integer (32-bit counter).

The following names are defined for this attribute: DOCUMENTS_SUSPENDED or DOCUMENTS5 (warehouse name), Documents Suspended (caption), Documents_Suspended (attribute name), and DOCUMENTS5 (column name).

**Documents Suspended Per Sec attribute**

This attribute displays the documents suspended per second. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: DOCUMENTS_SUSPENDED_PER_SEC or DOCUMENTS6 (warehouse name), Documents Suspended Per Sec (caption), Documents_Suspended_Per_Sec (attribute name), and DOCUMENTS6 (column name).

**Documents Transmitted Per Batch attribute**

This attribute displays the average number of documents currently transmitted per batch. This attribute is the 64-bit version of the Documents Transmitted Per Batch (Superseded) attribute. The type is real number (64-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: DOCUMENTS_TRANSMITTED_PER_BATCH_64 or DOC7_64 (warehouse name), Documents Transmitted Per Batch (caption), Documents_Transmitted_Per_Batch_64 (attribute name), and DOC7_64 (column name).

**Documents Transmitted Per Batch (Superseded) attribute**

This attribute displays the average number of documents transmitted per batch. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: DOCUMENTS_TRANSMITTED_PER_BATCH or DOCUMENTS7 (warehouse name), Documents Transmitted Per Batch (Superseded) (caption), Documents_Transmitted_Per_Batch (attribute name), and DOCUMENTS7 (column name).

**Name attribute**

The name of the instance. This attribute is a key attribute. The type is String.

The following names are defined for this attribute: NAME (warehouse name), Name (caption), Name (attribute name), and NAME (column name).

**Node attribute**

The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Pending Receive Batches attribute**

This attribute displays the number of batches received by the Messaging Engine that have not completed processing. These include batches that have been processed asynchronously by Send Adapters. The type is integer (32-bit gauge).

The following names are defined for this attribute: PENDING_RECEIVE_BATCHES or PENDING_RE (warehouse name), Pending Receive Batches (caption), Pending_Receive_Batches (attribute name), and PENDING_RE (column name).

**Pending Transmitted Messages attribute**

This attribute displays the number of messages given by the Messaging Engine to Send Adapters that have not completed processing. This includes response messages for Receive Adapters. The type is integer (32-bit gauge).

The following names are defined for this attribute: PENDING_TRANSMITTED_MESSAGES or PENDING_TR (warehouse name), Pending Transmitted Messages (caption), Pending_Transmitted_Messages (attribute name), and PENDING_TR (column name).

**Request Response Timeouts attribute**

This attribute displays the number of request messages that have not received a response message within the time limit specified by the adapter. The type is integer (32-bit gauge).

The following names are defined for this attribute: REQUEST_RESPONSE_TIMEOUTS or REQUEST_RE (warehouse name), Request Response Timeouts (caption), Request_Response_Timeouts (attribute name), and REQUEST_RE (column name).

**Throttled Receive Batches attribute**

This attribute displays the number of batches that have been blocked on receive by the Messaging Engine due to high service load. These batches contain new messages to be processed. The type is integer (32-bit gauge).

The following names are defined for this attribute: THROTTLED_RECEIVE_BATCHES or THROTTLED_ (warehouse name), Throttled Receive Batches (caption), Throttled_Receive_Batches (attribute name), and THROTTLED_ (column name).

**Timestamp attribute**

The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

## Messaging Latency attribute group

The Messaging Latency attribute group includes attributes that provide information about latencies while processing the documents. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Inbound Latency In MS attribute**

This attribute displays the average latency in milliseconds from when the Messaging Engine receives a document from the adapter until the time it is published to Message Box. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: INBOUND_LATENCY_IN_MS or INBOUND_LA (warehouse name), Inbound Latency In MS (caption), Inbound_Latency_In_MS (attribute name), and INBOUND_LA (column name).

**Name attribute**

The name of the instance. This attribute is a key attribute. The type is String.

The following names are defined for this attribute: NAME (warehouse name), Name (caption), Name (attribute name), and NAME (column name).

**Node attribute**

The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Outbound Adapter Latency In MS attribute**

This attribute displays the average latency in milliseconds from when the adapter gets a document from the Messaging Engine until the time it is sent by the adapter. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: OUTBOUND_ADAPTER_LATENCY_IN_MS or OUTBOUND_A (warehouse name), Outbound Adapter Latency In MS (caption), Outbound_Adapter_Latency_In_MS (attribute name), and OUTBOUND_A (column name).

**Outbound Latency In MS attribute**

This attribute displays the average latency in milliseconds from when the Messaging Engine receives a document from the Message Box until the time document is sent by the adapter. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: OUTBOUND_LATENCY_IN_MS or OUTBOUND_L (warehouse name), Outbound Latency In MS (caption), Outbound_Latency_In_MS (attribute name), and OUTBOUND_L (column name).

**Request Response Latency In MS attribute**

This attribute displays the average latency in milliseconds from when the Messaging Engine receives a request document from the adapter until the time a response document is given back to the adapter. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: REQUEST_RESPONSE_LATENCY_IN_MS or REQUEST_RE (warehouse name), Request Response Latency In MS (caption), Request_Response_Latency_In_MS (attribute name), and REQUEST_RE (column name).

**Timestamp attribute**

The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

## MSMQ Receive Adapter attribute group

The MSMQ Receive Adapter attribute group includes attributes that provide information about bytes and messages received by MSMQ adapter. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Bytes Received Per Sec attribute**

This attribute displays the number of bytes currently received by the MSMQ Receive Adapter per second since the Biztalk server was started. This attribute is the 64-bit version of the Bytes Received Per Sec (Superseded) attribute. The type is real number (64-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: BYTES_RECEIVED_PER_SEC_64 or MSMQBR0_64 (warehouse name), Bytes Received Per Sec (caption), Bytes_Received_Per_Sec_64 (attribute name), and MSMQBR0_64 (column name).

**Bytes Received Per Sec (Superseded) attribute**

This attribute displays the number of bytes received by the MSMQ Receive Adapter per second.

The counter applies only to messages that have been completely read by the MSMQ Receive Adapter from the source queue. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: BYTES_RECEIVED_PER_SEC or BYTES_REC0 (warehouse name), Bytes Received Per Sec (Superseded) (caption), Bytes_Received_Per_Sec (attribute name), and BYTES_REC0 (column name).

**Kilobytes Received attribute**

This attribute displays the total number of KB received by the MSMQ Receive Adapter since the Biztalk server was started. This attribute is the 64-bit version of the Kilobytes Received (Superseded) attribute. The type is real number (64-bit counter).

The following names are defined for this attribute: KILOBYTES_RECEIVED_64 or MSMQKBR_64 (warehouse name), Kilobytes Received (caption), Kilobytes_Received_64 (attribute name), and MSMQKBR_64 (column name).

**Kilobytes Received (Superseded) attribute**

This attribute displays the total number of kilobytes received by the MSMQ Receive Adapter since the application started. The counter is incremented after a message is read by the MSMQ Receive Adapter from the source queue. The type is real number (32-bit counter) with two decimal places of precision.

The following names are defined for this attribute: KILOBYTES_RECEIVED or BYTES_REC1 (warehouse name), Kilobytes Received (Superseded) (caption), Kilobytes_Received (attribute name), and BYTES_REC1 (column name).

**Messages Received attribute**

This attribute displays the total number of messages received by the MSMQ Receive Adapter since the application started. The counter is incremented after a message is read by the MSMQ Receive Adapter from the source queue. The type is integer (32-bit counter).

The following names are defined for this attribute: MESSAGES_RECEIVED or MESSAGES_R (warehouse name), Messages Received (caption), Messages_Received (attribute name), and MESSAGES_R (column name).

**Messages Received Per Sec attribute**

This attribute displays the number of messages received by the MSMQ Receive Adapter per second. The counter applies only to messages that have been completely read by the MSMQ Receive Adapter from the source queue. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: MESSAGES_RECEIVED_PER_SEC or MESSAGES_0 (warehouse name), Messages Received Per Sec (caption), Messages_Received_Per_Sec (attribute name), and MESSAGES_0 (column name).

**Name attribute**

The name of the instance. This attribute is a key attribute. The type is String.

The following names are defined for this attribute: NAME (warehouse name), Name (caption), Name (attribute name), and NAME (column name).

**Node attribute**

The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Timestamp attribute**

The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

## MSMQ Send Adapter attribute group

The MSMQ Send Adapter attribute group includes attributes that provide information about bytes and messages sent by MSMQ adapter. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Bytes Sent Per Sec attribute**

This attribute displays the number of bytes currently sent by the MSMQ Send Adapter per second. This attribute is the 64-bit version of the Bytes Sent Per Sec (Superseded) attribute. The type is real number (64-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: BYTES_SENT_PER_SEC_64 or MSMQBS0_64 (warehouse name), Bytes Sent Per Sec (caption), Bytes_Sent_Per_Sec_64 (attribute name), and MSMQBS0_64 (column name).

**Bytes Sent Per Sec (Superseded) attribute**

This attribute displays the number of bytes sent by the MSMQ Send Adapter per second. The counter applies only to messages that have reached the destination queue. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: BYTES_SENT_PER_SEC or BYTES_SEN0 (warehouse name), Bytes Sent Per Sec (Superseded) (caption), Bytes_Sent_Per_Sec (attribute name), and BYTES_SEN0 (column name).

**Kilobytes Sent attribute**

This attribute displays the total number of kilobytes sent by the MSMQ Send Adapter since the BizTalk Server was started. This attribute is the 64-bit version of the Kilobytes Sent (Superseded) attribute. The type is real number (64-bit counter).

The following names are defined for this attribute: KILOBYTES_SENT_64 or MSMQKBS_64 (warehouse name), Kilobytes Sent (caption), Kilobytes_Sent_64 (attribute name), and MSMQKBS_64 (column name).

**Kilobytes Sent (Superseded) attribute**

This attribute displays the total number of kilobytes sent by the MSMQ Send Adapter since the application started. The counter is incremented only for messages that have reached the destination queue. The type is real number (32-bit counter) with two decimal places of precision.

The following names are defined for this attribute: KILOBYTES_SENT or BYTES_SEN1 (warehouse name), Kilobytes Sent (Superseded) (caption), Kilobytes_Sent (attribute name), and BYTES_SEN1 (column name).

**Messages Sent attribute**

This attribute displays the total number of messages sent by the MSMQ Send Adapter since the application started. The counter is incremented only for messages that have reached the destination queue. The type is integer (32-bit counter).

The following names are defined for this attribute: MESSAGES_SENT or MESSAGES_S (warehouse name), Messages Sent (caption), Messages_Sent (attribute name), and MESSAGES_S (column name).

**Messages Sent Per Sec attribute**

This attribute displays the number of messages sent by the MSMQ Send Adapter per second. The counter applies only to messages that have reached the destination queue. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: MESSAGES_SENT_PER_SEC or MESSAGES_0 (warehouse name), Messages Sent Per Sec (caption), Messages_Sent_Per_Sec (attribute name), and MESSAGES_0 (column name).

**Name attribute**

The name of the instance. This attribute is a key attribute. The type is String.

The following names are defined for this attribute: NAME (warehouse name), Name (caption), Name (attribute name), and NAME (column name).

**Node attribute**
The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Timestamp attribute**
The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

## Notifications attribute group

This attribute group includes attributes that provide information about the notifications component of a Notification Services instance for BAM. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Batches attribute**
This attribute displays the total number of notification batches that were generated since the application was started. The type is integer (64-bit counter).

The following names are defined for this attribute: BATCHES (warehouse name), Batches (caption), Batches (attribute name), and BATCHES (column name).

**Batches Awaiting Distribution attribute**
This attribute displays the number of notification batches that are currently waiting to be picked up by the distributor. The type is integer (64-bit gauge).

The following names are defined for this attribute: BATCHES_AWAITING_DISTRIBUTION or BATAWTDIST (warehouse name), Batches Awaiting Distribution (caption), Batches_Awaiting_Distribution (attribute name), and BATAWTDIST (column name).

**Batches Expired attribute**
This attribute displays the total number of notification batches that contain expired notifications since the application was started. The type is integer (64-bit counter).

The following names are defined for this attribute: BATCHES_EXPIRED or BATCHEXPD (warehouse name), Batches Expired (caption), Batches_Expired (attribute name), and BATCHEXPD (column name).

**Batches Failed Delivery attribute**
This attribute displays the total number of batches that contain failed notifications since the application was started. The type is integer (64-bit counter).

The following names are defined for this attribute: BATCHES_FAILED_DELIVERY or BATFAILDEL (warehouse name), Batches Failed Delivery (caption), Batches_Failed_Delivery (attribute name), and BATFAILDEL (column name).

**Batches In Retry attribute**
This attribute displays the total number of notification batches that are currently in the delivery retry queue. The type is integer (64-bit gauge).

The following names are defined for this attribute: BATCHES_IN_RETRY or BATINRETY (warehouse name), Batches In Retry (caption), Batches_In_Retry (attribute name), and BATINRETY (column name).

**Batches Successfully Delivered attribute**
This attribute displays the total number of notification batches that were successfully delivered since the application was last started. The type is integer (64-bit counter).

The following names are defined for this attribute: BATCHES_SUCCESSFULLY_DELIVERED or BATSUCDELV (warehouse name), Batches Successfully Delivered (caption), Batches_Successfully_Delivered (attribute name), and BATSUCDELV (column name).

**Name attribute**
This attribute displays the instance name for notifications component. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NAME (warehouse name), Name (caption), Name (attribute name), and NAME (column name).

**Node attribute**
The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Notifications attribute**
This attribute displays the total number of notifications that were generated since the application was started. The type is integer (64-bit counter).

The following names are defined for this attribute: NOTIFICATIONS or NOTIFICATI (warehouse name), Notifications (caption), Notifications (attribute name), and NOTIFICATI (column name).

**Notifications Failed Delivery attribute**
This attribute displays the total number of notifications that have failed the delivery process since the application was last started. The type is integer (64-bit counter).

The following names are defined for this attribute: NOTIFICATIONS_FAILED_DELIVERY or NOTFAILDEL (warehouse name), Notifications Failed Delivery (caption), Notifications_Failed_Delivery (attribute name), and NOTFAILDEL (column name).

**Notifications Successfully Delivered attribute**
This attribute displays the total number of notifications that were successfully delivered since the application was last started. The type is integer (64-bit counter).

The following names are defined for this attribute: NOTIFICATIONS_SUCCESSFULLY_DELIVERED or NOTSUCDELV (warehouse name), Notifications Successfully Delivered (caption), Notifications_Successfully_Delivered (attribute name), and NOTSUCDELV (column name).

**Server Name attribute**
This attribute displays the name of the BizTalk Server. The type is string.

The following names are defined for this attribute: SERVER_NAME or SRVRNME (warehouse name), Server Name (caption), Server_Name (attribute name), and SRVRNME (column name).

**Timestamp attribute**
The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

## Orchestration Status attribute group

The Orchestration Status attribute group includes attributes that provide information about the orchestration status. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Host Name attribute**
This attribute displays the host name. The type is string.

The following names are defined for this attribute: HOST_NAME or HOSTNAME (warehouse name), Host Name (caption), Host_Name (attribute name), and HOSTNAME (column name).

**Node attribute**
The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Orchestration Name attribute**
This attribute displays the orchestration name. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: ORCHESTRATION_NAME or NAME (warehouse name), Orchestration Name (caption), Orchestration_Name (attribute name), and NAME (column name).

**Server Name attribute**

This attribute displays the name of the BizTalk Server. The type is string.

The following names are defined for this attribute: SERVER_NAME or SRVRNME (warehouse name), Server Name (caption), Server_Name (attribute name), and SRVRNME (column name).

**Status attribute**

This attribute displays the orchestration status. The type is integer with enumerated values. The following values are defined: Unbound (1), Bound (2), Stopped (3), Started (4). Any value that does not have a definition here is displayed in the User Interface.

The following names are defined for this attribute: STATUS or ORCHSTAT (warehouse name), Status (caption), Status (attribute name), and ORCHSTAT (column name).

**Timestamp attribute**

The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

## Orchestrations attribute group

The Orchestrations attribute group includes attributes that provide information about orchestrations and transactions being processed. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Active Application Domains attribute**

This attribute displays the number of loaded orchestration application domains in the process for hosting orchestrations. The type is integer (32-bit gauge).

The following names are defined for this attribute: ACTIVE_APPLICATION_DOMAINS or ACTIVE_APP (warehouse name), Active Application Domains (caption), Active_Application_Domains (attribute name), and ACTIVE_APP (column name).

**Allocated Private Memory In MB attribute**

This attribute displays the allocated private memory in megabytes for the host instance. The type is integer (32-bit gauge).

The following names are defined for this attribute: ALLOCATED_PRIVATE_MEMORY_IN_MB or MEGABYTES_ (warehouse name), Allocated Private Memory In MB (caption), Allocated_Private_Memory_In_MB (attribute name), and MEGABYTES_ (column name).

**Allocated Virtual Memory In MB attribute**

This attribute displays the reserved virtual memory in megabytes for the host instance. The type is integer (32-bit gauge).

The following names are defined for this attribute: ALLOCATED_VIRTUAL_MEMORY_IN_MB or MEGABYTES0 (warehouse name), Allocated Virtual Memory In MB (caption), Allocated_Virtual_Memory_In_MB (attribute name), and MEGABYTES0 (column name).

**Average Batch Factor attribute**

This attribute displays the ratio between the number of persistence points committed and underlying database transactions committed. The type is integer (32-bit gauge).

The following names are defined for this attribute: AVERAGE_BATCH_FACTOR or AVERAGE_BA (warehouse name), Average Batch Factor (caption), Average_Batch_Factor (attribute name), and AVERAGE_BA (column name).

**Database Transactions attribute**

This attribute displays the number of database transactions performed since the host instance started. The type is integer (32-bit counter).

The following names are defined for this attribute: DATABASE_TRANSACTIONS or DATABASE_T (warehouse name), Database Transactions (caption), Database_Transactions (attribute name), and DATABASE_T (column name).

**Database Transactions Per Sec attribute**

This attribute displays the number of transaction performed per second. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: DATABASE_TRANSACTIONS_PER_SEC or DATABASE_0 (warehouse name), Database Transactions Per Sec (caption), Database_Transactions_Per_Sec (attribute name), and DATABASE_0 (column name).

**Dehydratable Orchestrations attribute**

This attribute displays the total number of idle orchestrations currently hosted by the application instance which may be dehydrated. The type is integer (32-bit gauge).

The following names are defined for this attribute: DEHYDRATABLE_ORCHESTRATIONS or DEHYDRATAB (warehouse name), Dehydratable Orchestrations (caption), Dehydratable_Orchestrations (attribute name), and DEHYDRATAB (column name).

**Dehydrating Orchestrations attribute**

This attribute displays the number of orchestrations that are in the process of dehydrating. The type is integer (32-bit gauge).

The following names are defined for this attribute: DEHYDRATING_ORCHESTRATIONS or DEHYDRATIN (warehouse name), Dehydrating Orchestrations (caption), Dehydrating_Orchestrations (attribute name), and DEHYDRATIN (column name).

**Dehydration Cycle In Progress attribute**

This attribute indicates whether there is a dehydration cycle currently in progress. The type is integer (32-bit gauge).

The following names are defined for this attribute: DEHYDRATION_CYCLE_IN_PROGRESS or DEHYDRATIO (warehouse name), Dehydration Cycle In Progress (caption), Dehydration_Cycle_In_Progress (attribute name), and DEHYDRATIO (column name).

**Dehydration Cycles attribute**

This attribute displays the number of dehydration cycles completed. The type is integer (32-bit gauge).

The following names are defined for this attribute: DEHYDRATION_CYCLES or DEHYDRATI0 (warehouse name), Dehydration Cycles (caption), Dehydration_Cycles (attribute name), and DEHYDRATI0 (column name).

**Dehydration Threshold attribute**

This attribute is a metric that controls how aggressively services are being dehydrated (measured in milliseconds). The type is integer (32-bit gauge).

The following names are defined for this attribute: DEHYDRATION_THRESHOLD or DEHYDRATI1 (warehouse name), Dehydration Threshold (caption), Dehydration_Threshold (attribute name), and DEHYDRATI1 (column name).

**Idle Orchestrations attribute**

This attribute displays the number of idle orchestration instances currently hosted by the host instance. The type is integer (32-bit gauge).

The following names are defined for this attribute: IDLE_ORCHESTRATIONS or IDLE_ORCHE (warehouse name), Idle Orchestrations (caption), Idle_Orchestrations (attribute name), and IDLE_ORCHE (column name).

**MessageBox Databases Connection Failures attribute**

This attribute displays the number of attempted database connections that failed since the host instance started. The type is integer (32-bit counter).

The following names are defined for this attribute: MESSAGEBOX_DATABASES_CONNECTION_FAILURES or MESSAGEBOX (warehouse name),

MessageBox Databases Connection Failures (caption), MessageBox_Databases_Connection_Failures (attribute name), and MESSAGEBOX (column name).

**Name attribute**
The name of the instance. This attribute is a key attribute. The type is String.

The following names are defined for this attribute: NAME (warehouse name), Name (caption), Name (attribute name), and NAME (column name).

**Node attribute**
The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Online MessageBox Databases attribute**
This attribute displays the number of MessageBox databases currently available to the application. The type is integer (32-bit gauge).

The following names are defined for this attribute: ONLINE_MESSAGEBOX_DATABASES or ONLINE_MES (warehouse name), Online MessageBox Databases (caption), Online_MessageBox_Databases (attribute name), and ONLINE_MES (column name).

**Orchestrations Completed attribute**
This attribute displays the number of orchestrations completed since host instance started. The type is integer (32-bit counter).

The following names are defined for this attribute: ORCHESTRATIONS_COMPLETED or ORCHESTRAT (warehouse name), Orchestrations Completed (caption), Orchestrations_Completed (attribute name), and ORCHESTRAT (column name).

**Orchestrations Completed Per Sec attribute**
This attribute displays the average number of orchestrations completed per second. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: ORCHESTRATIONS_COMPLETED_PER_SEC or ORCHESTRA0 (warehouse name), Orchestrations Completed Per Sec (caption), Orchestrations_Completed_Per_Sec (attribute name), and ORCHESTRA0 (column name).

**Orchestrations Created attribute**
This attribute displays the number of orchestrations created since host instance started. The type is integer (32-bit counter).

The following names are defined for this attribute: ORCHESTRATIONS_CREATED or ORCHESTRA1 (warehouse name), Orchestrations Created (caption), Orchestrations_Created (attribute name), and ORCHESTRA1 (column name).

**Orchestrations Created Per Sec attribute**
This attribute displays the average number of orchestrations created per second. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: ORCHESTRATIONS_CREATED_PER_SEC or ORCHESTRA2 (warehouse name), Orchestrations Created Per Sec (caption), Orchestrations_Created_Per_Sec (attribute name), and ORCHESTRA2 (column name).

**Orchestrations Dehydrated attribute**
This attribute displays the number of orchestration instances dehydrated since the host instance started. The type is integer (32-bit counter).

The following names are defined for this attribute: ORCHESTRATIONS_DEHYDRATED or ORCHESTRA3 (warehouse name), Orchestrations Dehydrated (caption), Orchestrations_Dehydrated (attribute name), and ORCHESTRA3 (column name).

**Orchestrations Dehydrated Per Sec attribute**
This attribute displays the average number of orchestration instances dehydrated per second. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: ORCHESTRATIONS_DEHYDRATED_PER_SEC or ORCHESTRA4 (warehouse name), Orchestrations Dehydrated Per Sec (caption), Orchestrations_Dehydrated_Per_Sec (attribute name), and ORCHESTRA4 (column name).

**Orchestrations Discarded attribute**

This attribute displays the number of orchestration instances discarded from memory since the host instance started. The type is integer (32-bit counter).

The following names are defined for this attribute: ORCHESTRATIONS_DISCARDED or ORCHESTRA5 (warehouse name), Orchestrations Discarded (caption), Orchestrations_Discarded (attribute name), and ORCHESTRA5 (column name).

**Orchestrations Discarded Per Sec attribute**

This attribute displays the average number of orchestration instances discarded from memory per second. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: ORCHESTRATIONS_DISCARDED_PER_SEC or ORCHESTRA6 (warehouse name), Orchestrations Discarded Per Sec (caption), Orchestrations_Discarded_Per_Sec (attribute name), and ORCHESTRA6 (column name).

**Orchestrations Rehydrated attribute**

This attribute displays the number of orchestration instances rehydrated since the host instance started. The type is integer (32-bit counter).

The following names are defined for this attribute: ORCHESTRATIONS_REHYDRATED or ORCHESTRA7 (warehouse name), Orchestrations Rehydrated (caption), Orchestrations_Rehydrated (attribute name), and ORCHESTRA7 (column name).

**Orchestrations Rehydrated Per Sec attribute**

This attribute displays the average number of orchestration instances rehydrated per second. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: ORCHESTRATIONS_REHYDRATED_PER_SEC or ORCHESTRA8 (warehouse name), Orchestrations Rehydrated Per Sec (caption), Orchestrations_Rehydrated_Per_Sec (attribute name), and ORCHESTRA8 (column name).

**Orchestrations Resident In Memory attribute**

This attribute displays the number of orchestration instances currently hosted by the host instance. The type is integer (32-bit gauge).

The following names are defined for this attribute: ORCHESTRATIONS_RESIDENT_IN_MEMORY or ORCHESTRA9 (warehouse name), Orchestrations Resident In Memory (caption), Orchestrations_Resident_In_Memory (attribute name), and ORCHESTRA9 (column name).

**Orchestrations Scheduled For Dehydration attribute**

This attribute displays the number of dehydratable orchestrations for which there is dehydration request pending. The type is integer (32-bit gauge).

The following names are defined for this attribute: ORCHESTRATIONS_SCHEDULED_FOR_DEHYDRATION or ORCHESTR10 (warehouse name), Orchestrations Scheduled For Dehydration (caption), Orchestrations_Scheduled_For_Dehydration (attribute name), and ORCHESTR10 (column name).

**Orchestrations Suspended attribute**

This attribute displays the number of orchestration instances suspended since the host instance started. The type is integer (32-bit counter).

The following names are defined for this attribute: ORCHESTRATIONS_SUSPENDED or ORCHESTR11 (warehouse name), Orchestrations Suspended (caption), Orchestrations_Suspended (attribute name), and ORCHESTR11 (column name).

**Orchestrations Suspended Per Sec attribute**

This attribute displays the average number of orchestration instances suspended per second. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: ORCHESTRATIONS_SUSPENDED_PER_SEC or ORCHESTR12 (warehouse name), Orchestrations Suspended Per Sec (caption), Orchestrations_Suspended_Per_Sec (attribute name), and ORCHESTR12 (column name).

**Pending Messages attribute**

This attribute displays the number of received messages for which receipt has not yet been acknowledged to the MessageBox. The type is integer (32-bit gauge).

The following names are defined for this attribute: PENDING_MESSAGES or PENDING_ME (warehouse name), Pending Messages (caption), Pending_Messages (attribute name), and PENDING_ME (column name).

**Pending Work Items attribute**

This attribute displays the number of code execution blocks that are scheduled for execution. The type is integer (32-bit gauge).

The following names are defined for this attribute: PENDING_WORK_ITEMS or PENDING_WO (warehouse name), Pending Work Items (caption), Pending_Work_Items (attribute name), and PENDING_WO (column name).

**Percent Used Physical Memory attribute**

This attribute displays the percentage used of total physical memory on the machine. The type is integer (32-bit gauge).

The following names are defined for this attribute: PERCENT_USED_PHYSICAL_MEMORY or USED_PHYSI (warehouse name), Percent Used Physical Memory (caption), Percent_Used_Physical_Memory (attribute name), and USED_PHYSI (column name).

**Persistence Points attribute**

This attribute displays the number of times an orchestration instance has persisted its state to the database since the host instance started. The type is integer (32-bit counter).

The following names are defined for this attribute: PERSISTENCE_POINTS or PERSISTENC (warehouse name), Persistence Points (caption), Persistence_Points (attribute name), and PERSISTENC (column name).

**Persistence Points Per Sec attribute**

This attribute displays the average number of orchestration instances persisted per second. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: PERSISTENCE_POINTS_PER_SEC or PERSISTEN0 (warehouse name), Persistence Points Per Sec (caption), Persistence_Points_Per_Sec (attribute name), and PERSISTEN0 (column name).

**Runnable Orchestrations attribute**

This attribute displays the number of orchestration instances ready to execute. The type is integer (32-bit gauge).

The following names are defined for this attribute: RUNNABLE_ORCHESTRATIONS or RUNNABLE_O (warehouse name), Runnable Orchestrations (caption), Runnable_Orchestrations (attribute name), and RUNNABLE_O (column name).

**Running Orchestrations attribute**

This attribute displays the number of orchestration instances currently executing. The type is integer (32-bit gauge).

The following names are defined for this attribute: RUNNING_ORCHESTRATIONS or RUNNING_OR (warehouse name), Running Orchestrations (caption), Running_Orchestrations (attribute name), and RUNNING_OR (column name).

**Timestamp attribute**

The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

**Transactional Scopes Aborted attribute**

This attribute displays the number of long-running or atomic scopes that have been aborted since the host instance started. The type is integer (32-bit counter).

The following names are defined for this attribute: TRANSACTIONAL_SCOPES_ABORTED or TRANSACTIO (warehouse name), Transactional Scopes Aborted (caption), Transactional_Scopes_Aborted (attribute name), and TRANSACTIO (column name).

**Transactional Scopes Aborted Per Sec attribute**
This attribute displays the average number of aborted scopes per second. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: TRANSACTIONAL_SCOPES_ABORTED_PER_SEC or TRANSACTI0 (warehouse name), Transactional Scopes Aborted Per Sec (caption), Transactional_Scopes_Aborted_Per_Sec (attribute name), and TRANSACTI0 (column name).

**Transactional Scopes Committed attribute**
This attribute displays the number of long-running or atomic scopes that have successfully completed since the host instance started. The type is integer (32-bit counter).

The following names are defined for this attribute: TRANSACTIONAL_SCOPES_COMMITTED or TRANSACTI1 (warehouse name), Transactional Scopes Committed (caption), Transactional_Scopes_Committed (attribute name), and TRANSACTI1 (column name).

**Transactional Scopes Committed Per Sec attribute**
This attribute displays the average number of committed scopes per second. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: TRANSACTIONAL_SCOPES_COMMITTED_PER_SEC or TRANSACTI2 (warehouse name), Transactional Scopes Committed Per Sec (caption), Transactional_Scopes_Committed_Per_Sec (attribute name), and TRANSACTI2 (column name).

**Transactional Scopes Compensated attribute**
This attribute displays the number of long-running or atomic scopes that have successfully completed compensation scopes since the application started. The type is integer (32-bit counter).

The following names are defined for this attribute: TRANSACTIONAL_SCOPES_COMPENSATED or TRANSACTI3 (warehouse name), Transactional Scopes Compensated (caption), Transactional_Scopes_Compensated (attribute name), and TRANSACTI3 (column name).

**Transactional Scopes Compensated Per Sec attribute**
This attribute displays the average number of transactional compensated scopes per second. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: TRANSACTIONAL_SCOPES_COMPENSATED_PER_SEC or TRANSACTI4 (warehouse name), Transactional Scopes Compensated Per Sec (caption), Transactional_Scopes_Compensated_Per_Sec (attribute name), and TRANSACTI4 (column name).

## Performance Object Status attribute group

The Performance Object Status attribute group contains information that reflects the status of other attribute groups so you can see the status of all performance objects that make up this application all at once. Each of these other performance attribute groups is represented by a row in this table (or other type of view). The status for an attribute group reflects the result of the last attempt to collect data for that attribute group, so you can see whether the agent is collecting data correctly. Unlike other attribute groups, the Performance Object Status attribute group does not reflect the state of the monitored application. This attribute group is most often used to determine why data is not available for one of the performance attribute groups. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Average Collection Duration attribute**
The average duration of all data collections of this group in seconds. The type is real number

(32-bit counter) with two decimal places of precision with enumerated values. The following values are defined: NO DATA (-100). Any value that does not have a definition here is displayed in the User Interface.

The following names are defined for this attribute: AVERAGE_COLLECTION_DURATION or COLAVGD (warehouse name), Average Collection Duration (caption), Average_Collection_Duration (attribute name), and COLAVGD (column name).

**Cache Hit Percent attribute**

The percentage of external data requests for this group that were satisfied from the cache. The type is real number (32-bit counter) with two decimal places of precision.

The following names are defined for this attribute: CACHE_HIT_PERCENT or CACHPCT (warehouse name), Cache Hit Percent (caption), Cache_Hit_Percent (attribute name), and CACHPCT (column name).

**Cache Hits attribute**

The number of times an external data request for this group was satisfied from the cache. The type is integer (32-bit counter).

The following names are defined for this attribute: CACHE_HITS or CACHEHT (warehouse name), Cache Hits (caption), Cache_Hits (attribute name), and CACHEHT (column name).

**Cache Misses attribute**

The number of times an external data request for this group was not available in the cache. The type is integer (32-bit counter).

The following names are defined for this attribute: CACHE_MISSES or CACHEMS (warehouse name), Cache Misses (caption), Cache_Misses (attribute name), and CACHEMS (column name).

**Error Code attribute**

The error code associated with the query. The type is integer with enumerated values. The following values are defined: NO ERROR (0), GENERAL ERROR (1), OBJECT NOT FOUND (2), COUNTER NOT FOUND (3), NAMESPACE ERROR (4), OBJECT CURRENTLY UNAVAILABLE (5), COM LIBRARY INIT FAILURE (6), SECURITY INIT FAILURE (7), PROXY SECURITY FAILURE (9), NO INSTANCES RETURNED (10), ASSOCIATOR QUERY FAILED (11), REFERENCE QUERY FAILED (12), NO RESPONSE RECEIVED (13), CANNOT FIND JOINED QUERY (14), CANNOT FIND JOIN ATTRIBUTE IN QUERY 1 RESULTS (15), CANNOT FIND JOIN ATTRIBUTE IN QUERY 2 RESULTS (16), QUERY 1 NOT A SINGLETON (17), QUERY 2 NOT A SINGLETON (18), NO INSTANCES RETURNED IN QUERY 1 (19), NO INSTANCES RETURNED IN QUERY 2 (20), CANNOT FIND ROLLUP QUERY (21), CANNOT FIND ROLLUP ATTRIBUTE (22), FILE OFFLINE (23), NO HOSTNAME (24), MISSING LIBRARY (25), ATTRIBUTE COUNT MISMATCH (26), ATTRIBUTE NAME MISMATCH (27), COMMON DATA PROVIDER NOT STARTED (28), CALLBACK REGISTRATION ERROR (29), MDL LOAD ERROR (30), AUTHENTICATION FAILED (31), CANNOT RESOLVE HOST NAME (32), SUBNODE UNAVAILABLE (33), SUBNODE NOT FOUND IN CONFIG (34), ATTRIBUTE ERROR (35), CLASSPATH ERROR (36), CONNECTION FAILURE (37), FILTER SYNTAX ERROR (38), FILE NAME MISSING (39), SQL QUERY ERROR (40), SQL FILTER QUERY ERROR (41), SQL DB QUERY ERROR (42), SQL DB FILTER QUERY ERROR (43), PORT OPEN FAILED (44), ACCESS DENIED (45), TIMEOUT (46), NOT IMPLEMENTED (47), REQUESTED A BAD VALUE (48), RESPONSE TOO BIG (49), GENERAL RESPONSE ERROR (50), SCRIPT NONZERO RETURN (51), SCRIPT NOT FOUND (52), SCRIPT LAUNCH ERROR (53), CONF FILE DOES NOT EXIST (54), CONF FILE ACCESS DENIED (55), INVALID CONF FILE (56), EIF INITIALIZATION FAILED (57), CANNOT OPEN FORMAT FILE (58), FORMAT FILE SYNTAX ERROR (59), REMOTE HOST UNAVAILABLE (60), EVENT LOG DOES NOT EXIST (61), PING FILE DOES NOT EXIST (62), NO PING DEVICE FILES (63), PING DEVICE LIST FILE MISSING (64), SNMP MISSING PASSWORD (65), DISABLED (66), URLS FILE NOT FOUND (67), XML PARSE ERROR (68), NOT INITIALIZED (69), ICMP SOCKETS FAILED (70), DUPLICATE CONF FILE (71), DELETED CONFIGURATION (72). Any value that does not have a definition here is displayed in the User Interface.

The following names are defined for this attribute: ERROR_CODE or ERRCODE (warehouse name), Error Code (caption), Error_Code (attribute name), and ERRCODE (column name).

**Intervals Skipped attribute**

The number of times a background data collection for this group was skipped because the previous collection was still running when the next one was due to start. The type is integer (32-bit counter).

The following names are defined for this attribute: INTERVALS_SKIPPED or INTSKIP (warehouse name), Intervals Skipped (caption), Intervals_Skipped (attribute name), and INTSKIP (column name).

**Last Collection Duration attribute**

The duration of the most recently completed data collection of this group in seconds. The type is real number (32-bit counter) with two decimal places of precision.

The following names are defined for this attribute: LAST_COLLECTION_DURATION or COLDURA (warehouse name), Last Collection Duration (caption), Last_Collection_Duration (attribute name), and COLDURA (column name).

**Last Collection Finished attribute**

The most recent time a data collection of this group finished. The type is timestamp with enumerated values. The following values are defined: NOT COLLECTED (0691231190000000), NOT COLLECTED (0000000000000001). Any value that does not have a definition here is displayed in the User Interface.

The following names are defined for this attribute: LAST_COLLECTION_FINISHED or COLFINI (warehouse name), Last Collection Finished (caption), Last_Collection_Finished (attribute name), and COLFINI (column name).

**Last Collection Start attribute**

The most recent time a data collection of this group started. The type is timestamp with enumerated values. The following values are defined: NOT COLLECTED (0691231190000000), NOT COLLECTED (0000000000000001). Any value that does not have a definition here is displayed in the User Interface.

The following names are defined for this attribute: LAST_COLLECTION_START or COLSTRT (warehouse name), Last Collection Start (caption), Last_Collection_Start (attribute name), and COLSTRT (column name).

**Node attribute**

The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Number of Collections attribute**

The number of data collections for this group since the agent started. The type is integer (32-bit counter).

The following names are defined for this attribute: NUMBER_OF_COLLECTIONS or NUMCOLL (warehouse name), Number of Collections (caption), Number_of_Collections (attribute name), and NUMCOLL (column name).

**Object Name attribute**

The name of the performance object. The type is string.

The following names are defined for this attribute: OBJECT_NAME or OBJNAME (warehouse name), Object Name (caption), Object_Name (attribute name), and OBJNAME (column name).

**Object Status attribute**

The status of the performance object. The type is integer with enumerated values. The following values are defined: ACTIVE (0), INACTIVE (1). Any value that does not have a definition here is displayed in the User Interface.

The following names are defined for this attribute: OBJECT_STATUS or OBJSTTS (warehouse name), Object Status (caption), Object_Status (attribute name), and OBJSTTS (column name).

**Object Type attribute**
The type of the performance object. The type is integer with enumerated values. The following values are defined: WMI (0), PERFMON (1), WMI ASSOCIATION GROUP (2), JMX (3), SNMP (4), SHELL COMMAND (5), JOINED GROUPS (6), CIMOM (7), CUSTOM (8), ROLLUP DATA (9), WMI REMOTE DATA (10), LOG FILE (11), JDBC (12), CONFIG DISCOVERY (13), NT EVENT LOG (14), FILTER (15), SNMP EVENT (16), PING (17), DIRECTOR DATA (18), DIRECTOR EVENT (19), SSH REMOTE SHELL COMMAND (20). Any value that does not have a definition here is displayed in the User Interface.

The following names are defined for this attribute: OBJECT_TYPE or OBJTYPE (warehouse name), Object Type (caption), Object_Type (attribute name), and OBJTYPE (column name).

**Query Name attribute**
The name of the attribute group. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: QUERY_NAME or ATTRGRP (warehouse name), Query Name (caption), Query_Name (attribute name), and ATTRGRP (column name).

**Refresh Interval attribute**
The interval at which this group is refreshed in seconds. The type is integer (32-bit counter).

The following names are defined for this attribute: REFRESH_INTERVAL or REFRINT (warehouse name), Refresh Interval (caption), Refresh_Interval (attribute name), and REFRINT (column name).

**Timestamp attribute**
The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

## POP3 Receive Adapter attribute group

The POP3 Receive Adapter attribute group includes attributes that provide information about bytes and messages received by POP3 adapter. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Active Sessions attribute**
This attribute displays the number of open POP3 connections the POP3 adapter is managing at a time. The type is integer (32-bit gauge).

The following names are defined for this attribute: ACTIVE_SESSIONS or ACTIVE_SES (warehouse name), Active Sessions (caption), Active_Sessions (attribute name), and ACTIVE_SES (column name).

**Bytes Received Per Sec attribute**
This attribute displays the number of bytes currently downloaded by the POP3 adapter from a mail server per second. This attribute is the 64-bit version of the Bytes Received Per Sec (Superseded) attribute. The type is real number (64-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: BYTES_RECEIVED_PER_SEC_64 or POPBRE0_64 (warehouse name), Bytes Received Per Sec (caption), Bytes_Received_Per_Sec_64 (attribute name), and POPBRE0_64 (column name).

**Bytes Received Per Sec (Superseded) attribute**
This attribute displays the number of bytes downloaded by the POP3 adapter from a mail server per second. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: BYTES_RECEIVED_PER_SEC or BYTES_REC0 (warehouse name), Bytes Received Per Sec (Superseded) (caption), Bytes_Received_Per_Sec (attribute name), and BYTES_REC0 (column name).

**Kilobytes Received attribute**
This attribute displays the total number of kilobytes downloaded by the POP3 adapter from a

mail server since the BizTalk Server was started. This attribute is the 64-bit version of the Kilobytes Received (Superseded) attribute. The type is integer (64-bit counter).

The following names are defined for this attribute: KILOBYTES_RECEIVED_64 or POPKBRE_64 (warehouse name), Kilobytes Received (caption), Kilobytes_Received_64 (attribute name), and POPKBRE_64 (column name).

**Kilobytes Received (Superseded) attribute**
This attribute displays the total number of kilobytes downloaded by the POP3 adapter from a mail server since the application started. The type is integer (32-bit counter).

The following names are defined for this attribute: KILOBYTES_RECEIVED or BYTES_REC1 (warehouse name), Kilobytes Received (Superseded) (caption), Kilobytes_Received (attribute name), and BYTES_REC1 (column name).

**Messages Received attribute**
This attribute displays the total number of e-mail messages downloaded by the POP3 adapter from a mail server since the application started. The type is integer (32-bit counter).

The following names are defined for this attribute: MESSAGES_RECEIVED or MESSAGES_R (warehouse name), Messages Received (caption), Messages_Received (attribute name), and MESSAGES_R (column name).

**Messages Received Per Sec attribute**
This attribute displays the number of e-mail messages downloaded by the POP3 adapter from mail server per second. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: MESSAGES_RECEIVED_PER_SEC or MESSAGES_0 (warehouse name), Messages Received Per Sec (caption), Messages_Received_Per_Sec (attribute name), and MESSAGES_0 (column name).

**Name attribute**
The name of the instance. This attribute is a key attribute. The type is String.

The following names are defined for this attribute: NAME (warehouse name), Name (caption), Name (attribute name), and NAME (column name).

**Node attribute**
The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Timestamp attribute**
The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

## Receive Location Status attribute group

The Receive Location Status attribute group includes attributes that provide information about the receive location status. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Is Primary attribute**
This attribute indicates whether the Receive Location is primary. The type is string.

The following names are defined for this attribute: IS_PRIMARY or ISPRIMARY (warehouse name), Is Primary (caption), Is_Primary (attribute name), and ISPRIMARY (column name).

**Node attribute**
The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Receive Handler attribute**
This attribute displays the name of the Receive Handler that is used by the Receive Location. The type is string.

The following names are defined for this attribute: RECEIVE_HANDLER or RLHOST (warehouse name), Receive Handler (caption), Receive_Handler (attribute name), and RLHOST (column name).

**Receive Location Name attribute**
This attribute displays the receive location name. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: RECEIVE_LOCATION_NAME or NAME (warehouse name), Receive Location Name (caption), Receive_Location_Name (attribute name), and NAME (column name).

**Receive Port Name attribute**
This attribute displays the name of the Receive Port that is used by the Receive Location. The type is string.

The following names are defined for this attribute: RECEIVE_PORT_NAME or RLPORT (warehouse name), Receive Port Name (caption), Receive_Port_Name (attribute name), and RLPORT (column name).

**Server Name attribute**
This attribute displays the name of the BizTalk Server. The type is string.

The following names are defined for this attribute: SERVER_NAME or SRVRNME (warehouse name), Server Name (caption), Server_Name (attribute name), and SRVRNME (column name).

**Status attribute**
This attribute displays the current receive location status. The type is integer (32-bit gauge) with enumerated values. The following values are defined: Disabled (-1), Enabled (0). Any value that does not have a definition here is displayed in the User Interface.

The following names are defined for this attribute: STATUS or ISDISABLED (warehouse name), Status (caption), Status (attribute name), and ISDISABLED (column name).

**Timestamp attribute**
The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

**Transport Address attribute**
This attribute displays the adapter-specific URL that is listened by the given instance of the Receive Location. The type is string.

The following names are defined for this attribute: TRANSPORT_ADDRESS or RLTRPURL (warehouse name), Transport Address (caption), Transport_Address (attribute name), and RLTRPURL (column name).

**Transport Type attribute**
This attribute displays the name of the adapter that is used by the Receive Location. The type is string.

The following names are defined for this attribute: TRANSPORT_TYPE or RLTRPTY (warehouse name), Transport Type (caption), Transport_Type (attribute name), and RLTRPTY (column name).

## Receive Ports attribute group

The Receive Ports attribute group includes attributes that provide information about the receive ports that are configured for the BizTalk applications. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Is Two Way attribute**
This attribute indicates whether the communication through the port is unidirectional or bidirectional. The type is string.

The following names are defined for this attribute: IS_TWO_WAY or IS2WAY (warehouse name), Is Two Way (caption), Is_Two_Way (attribute name), and IS2WAY (column name).

**Node attribute**
The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Primary Receive Location attribute**
This attribute displays the name of the primary receive location for the receive port. The type is string.

The following names are defined for this attribute: PRIMARY_RECEIVE_LOCATION or PRECL (warehouse name), Primary Receive Location (caption), Primary_Receive_Location (attribute name), and PRECL (column name).

**Receive Port Name attribute**
This attribute displays the name of the receive port. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: RECEIVE_PORT_NAME or NAME (warehouse name), Receive Port Name (caption), Receive_Port_Name (attribute name), and NAME (column name).

**Route Failed Messages attribute**
This attribute indicates whether the failed messages are routed to the subscribers. The type is string.

The following names are defined for this attribute: ROUTE_FAILED_MESSAGES or RTMSG (warehouse name), Route Failed Messages (caption), Route_Failed_Messages (attribute name), and RTMSG (column name).

**Server Name attribute**
This attribute displays the name of the BizTalk Server. The type is string.

The following names are defined for this attribute: SERVER_NAME or SRVRNME (warehouse name), Server Name (caption), Server_Name (attribute name), and SRVRNME (column name).

**Timestamp attribute**
The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

## RFID Devices attribute group

The RFID Devices attribute group includes attributes that provide information about RFID devices. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Downtime attribute**
This attribute displays the duration for which a device is currently not working after a connection error. The type is integer (32-bit gauge).

The following names are defined for this attribute: DOWNTIME (warehouse name), Downtime (caption), Downtime (attribute name), and DOWNTIME (column name).

**Errors Raised attribute**
This attribute displays the number of errors that are currently raised by a device. The type is integer (32-bit gauge).

The following names are defined for this attribute: ERRORS_RAISED or ERR_RS (warehouse name), Errors Raised (caption), Errors_Raised (attribute name), and ERR_RS (column name).

**Errors Raised Per Sec attribute**
This attribute displays the rate at which errors are currently raised by a device. The type is integer (32-bit gauge).

The following names are defined for this attribute: ERRORS_RAISED_PER_SEC or ERR_RSPS (warehouse name), Errors Raised Per Sec (caption), Errors_Raised_Per_Sec (attribute name), and ERR_RSPS (column name).

**Name attribute**
The name of the instance. This attribute is a key attribute. The type is String.

The following names are defined for this attribute: NAME (warehouse name), Name (caption), Name (attribute name), and NAME (column name).

**Node attribute**
The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Tags Read Per Sec attribute**
This attribute displays the rate at which tags are currently received from a device instance. The type is integer (32-bit gauge).

The following names are defined for this attribute: TAGS_READ_PER_SEC or TAGS_RDPS (warehouse name), Tags Read Per Sec (caption), Tags_Read_Per_Sec (attribute name), and TAGS_RDPS (column name).

**Tags Written Per Sec attribute**
This attribute displays the rate at which tags are currently sent from a device instance. The type is integer (32-bit gauge).

The following names are defined for this attribute: TAGS_WRITTEN_PER_SEC or TAGS_WRPS (warehouse name), Tags Written Per Sec (caption), Tags_Written_Per_Sec (attribute name), and TAGS_WRPS (column name).

**Timestamp attribute**
The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

**Total Tags Read attribute**
This attribute displays the total number of tags that are currently received from a device instance. The type is integer (32-bit gauge).

The following names are defined for this attribute: TOTAL_TAGS_READ or TAGS_READ (warehouse name), Total Tags Read (caption), Total_Tags_Read (attribute name), and TAGS_READ (column name).

**Total Tags Written attribute**
This attribute displays the total number of tags that are currently sent from a device instance. The type is integer (32-bit gauge).

The following names are defined for this attribute: TOTAL_TAGS_WRITTEN or TAGS_WRIT (warehouse name), Total Tags Written (caption), Total_Tags_Written (attribute name), and TAGS_WRIT (column name).

## RFID Processes attribute group

The RFID Processes attribute group includes attributes that provide information about RFID processes. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Name attribute**
The name of the instance. This attribute is a key attribute. The type is String.

The following names are defined for this attribute: NAME (warehouse name), Name (caption), Name (attribute name), and NAME (column name).

**Node attribute**
The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Process Uptime attribute**
This attribute displays the amount of time that has currently elapsed after a process was started. The type is integer (32-bit gauge).

The following names are defined for this attribute: PROCESS_UPTIME or PROCESS_UP (warehouse name), Process Uptime (caption), Process_Uptime (attribute name), and PROCESS_UP (column name).

**Tags Being Processed attribute**
This attribute displays the number of tags that are currently being processed in the process pipeline. The type is integer (32-bit gauge).

The following names are defined for this attribute: TAGS_BEING_PROCESSED or TAGS_BEING (warehouse name), Tags Being Processed (caption), Tags_Being_Processed (attribute name), and TAGS_BEING (column name).

**Tags In Queue attribute**
This attribute displays the total number of tags that are currently queued for processing. The type is integer (32-bit gauge).

The following names are defined for this attribute: TAGS_IN_QUEUE or TAGS_IN_QU (warehouse name), Tags In Queue (caption), Tags_In_Queue (attribute name), and TAGS_IN_QU (column name).

**Tags Processed attribute**
This attribute displays the total number of tags that are currently processed by a process. The type is integer (32-bit gauge).

The following names are defined for this attribute: TAGS_PROCESSED or TAGS_PROCE (warehouse name), Tags Processed (caption), Tags_Processed (attribute name), and TAGS_PROCE (column name).

**Tags Suspended attribute**
This attribute displays the number of tags (tags that caused failures) that are currently sent to the suspended queue. The type is integer (32-bit gauge).

The following names are defined for this attribute: TAGS_SUSPENDED or TAGS_SUSPE (warehouse name), Tags Suspended (caption), Tags_Suspended (attribute name), and TAGS_SUSPE (column name).

**Timestamp attribute**
The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

## Rule Engine Database attribute group

The Rule Engine Database attribute group includes attributes that provide information about the BizTalk Rule Engine Database. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Database Name attribute**
This attribute displays the Rule Engine Database name. The type is string.

The following names are defined for this attribute: DATABASE_NAME or RULEENGINE (warehouse name), Database Name (caption), Database_Name (attribute name), and RULEENGINE (column name).

**Node attribute**
The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Server Name attribute**
This attribute displays the Rule Engine Database server name. The type is string.

The following names are defined for this attribute: SERVER_NAME or RULEENGIN0 (warehouse name), Server Name (caption), Server_Name (attribute name), and RULEENGIN0 (column name).

**Timestamp attribute**
The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

## Send Port Group Status attribute group

The Send Port Group Status attribute group includes attributes that provide information about the Send Port Group status. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Node attribute**
The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Send Port Group Name attribute**
This attribute displays the Send Port Group name. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: SEND_PORT_GROUP_NAME or NAME (warehouse name), Send Port Group Name (caption), Send_Port_Group_Name (attribute name), and NAME (column name).

**Server Name attribute**
This attribute displays the name of the BizTalk Server. The type is string.

The following names are defined for this attribute: SERVER_NAME or SRVRNME (warehouse name), Server Name (caption), Server_Name (attribute name), and SRVRNME (column name).

**Status attribute**
This attribute displays the Send Port Group status. The type is integer with enumerated values. The following values are defined: Bound (1), Stopped (2), Started (3). Any value that does not have a definition here is displayed in the User Interface.

The following names are defined for this attribute: STATUS (warehouse name), Status (caption), Status (attribute name), and STATUS (column name).

**Timestamp attribute**
The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

## Send Port Status attribute group

The Send Port Status attribute group includes attributes that provide information about the send port status. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Is Dynamic attribute**
This attribute indicates whether the port is dynamic or static. The type is string.

The following names are defined for this attribute: IS_DYNAMIC or ISDYNM (warehouse name), Is Dynamic (caption), Is_Dynamic (attribute name), and ISDYNM (column name).

**Is TwoWay attribute**
This attribute indicates whether the port is one way or two way. The type is string.

The following names are defined for this attribute: IS_TWOWAY or IS2WAY (warehouse name), Is TwoWay (caption), Is_TwoWay (attribute name), and IS2WAY (column name).

**Node attribute**
The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Primary Transport Address attribute**
This attribute displays the primary transport URL for the port. The type is string.

The following names are defined for this attribute: PRIMARY_TRANSPORT_ADDRESS or PRITRPURL (warehouse name), Primary Transport Address (caption), Primary_Transport_Address (attribute name), and PRITRPURL (column name).

**Send Port Name attribute**
This attribute displays the send port name. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: SEND_PORT_NAME or NAME (warehouse name), Send Port Name (caption), Send_Port_Name (attribute name), and NAME (column name).

**Server Name attribute**
This attribute displays the name of the BizTalk Server. The type is string.

The following names are defined for this attribute: SERVER_NAME or SRVRNME (warehouse name), Server Name (caption), Server_Name (attribute name), and SRVRNME (column name).

**Status attribute**
This attribute displays the send port status. The type is integer with enumerated values. The following values are defined: Bound (1), Stopped (2), Started (3). Any value that does not have a definition here is displayed in the User Interface.

The following names are defined for this attribute: STATUS (warehouse name), Status (caption), Status (attribute name), and STATUS (column name).

**Timestamp attribute**
The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

**Transport Type attribute**
This attribute displays the transport type of the primary transport for the port. The type is string.

The following names are defined for this attribute: TRANSPORT_TYPE or PRITRPTY (warehouse name), Transport Type (caption), Transport_Type (attribute name), and PRITRPTY (column name).

## Service Instance Status and Class attribute group

The Service Instance Status and Class attribute group includes attributes that provide information about the status and class of service instances. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Error Description attribute**
This attribute displays the error description for a service instance. The type is string.

The following names are defined for this attribute: ERROR_DESCRIPTION or ERRORDESC (warehouse name), Error Description (caption), Error_Description (attribute name), and ERRORDESC (column name).

**Host Name attribute**
This attribute displays the host name. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: HOST_NAME or HOSTNAME (warehouse name), Host Name (caption), Host_Name (attribute name), and HOSTNAME (column name).

**Instance ID attribute**
This attribute displays the service instance identifier. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: INSTANCE_ID or INSTID (warehouse name), Instance ID (caption), Instance_ID (attribute name), and INSTID (column name).

**Node attribute**
The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Server Name attribute**
This attribute displays the name of the BizTalk Server. The type is string.

The following names are defined for this attribute: SERVER_NAME or SRVRNME (warehouse name), Server Name (caption), Server_Name (attribute name), and SRVRNME (column name).

**Service Class attribute**
This attribute displays the service class for a service instance. The type is integer with enumerated values. The following values are defined: Orchestration (1), Tracking (2), Messaging (4), MSMQT (8), Other (16), Isolated adapter (32), Routing failure report (64). Any value that does not have a definition here is displayed in the User Interface.

The following names are defined for this attribute: SERVICE_CLASS or SERVICECLA (warehouse name), Service Class (caption), Service_Class (attribute name), and SERVICECLA (column name).

**Service Name attribute**
This attribute displays the service instance name. The type is string.

The following names are defined for this attribute: SERVICE_NAME or SERVICENAM (warehouse name), Service Name (caption), Service_Name (attribute name), and SERVICENAM (column name).

**Service Status attribute**
This attribute displays the service status of a service instance. The type is integer with enumerated values. The following values are defined: Ready to run (1), Active (2), Suspended resumable (4), Dehydrated (8), Completed with discarded messages (16), Suspended not resumable (32), In breakpoint (64). Any value that does not have a definition here is displayed in the User Interface.

The following names are defined for this attribute: SERVICE_STATUS or SERVICESTA (warehouse name), Service Status (caption), Service_Status (attribute name), and SERVICESTA (column name).

**Timestamp attribute**
The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

## SFTP Receive Adapter attribute group

The SFTP receive adapter attribute group includes attributes that provide information about the size of data and the messages that are received by the SFTP adapter. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Bytes Received Per Sec attribute**
This attribute displays the total number of bytes that are currently received per second by the SFTP receive adapter. The counter applies only to the messages from the SFTP server that are read by the SFTP receive adapter. The type is real number (64-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: BYTES_RECEIVED_PER_SEC or BYTES_REC0 (warehouse name), Bytes Received Per Sec (caption), Bytes_Received_Per_Sec (attribute name), and BYTES_REC0 (column name).

**Kilobytes Received attribute**

This attribute displays the total size of data (in KB) that is received by the SFTP receive adapter since the BizTalk applications were started. The counter increases after a message from the SFTP server is read by the SFTP receive adapter. The type is real number (64-bit counter).

The following names are defined for this attribute: KILOBYTES_RECEIVED or BYTES_REC1 (warehouse name), Kilobytes Received (caption), Kilobytes_Received (attribute name), and BYTES_REC1 (column name).

**Messages Received attribute**

This attribute displays the total number of messages that are received by the SFTP receive adapter since the BizTalk applications were started. The counter increases after a message from the SFTP server is read by the SFTP receive adapter. The type is integer (32-bit counter).

The following names are defined for this attribute: MESSAGES_RECEIVED or MESSAGES_R (warehouse name), Messages Received (caption), Messages_Received (attribute name), and MESSAGES_R (column name).

**Messages Received Per Sec attribute**

This attribute displays the number of messages that are currently received per second by the SFTP receive adapter. The counter applies only to the messages from the SFTP server that are read by the SFTP receive adapter. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: MESSAGES_RECEIVED_PER_SEC or MESSAGES_0 (warehouse name), Messages Received Per Sec (caption), Messages_Received_Per_Sec (attribute name), and MESSAGES_0 (column name).

**Name attribute**

The name of the instance. This attribute is a key attribute. The type is String.

The following names are defined for this attribute: NAME (warehouse name), Name (caption), Name (attribute name), and NAME (column name).

**Node attribute**

The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Timestamp attribute**

The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

## SFTP Send Adapter attribute group

The SFTP send adapter attribute group includes attributes that provide information about the size of data and the messages that are sent by the SFTP adapter. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Bytes Sent Per Sec attribute**

This attribute displays the total number of bytes that are currently sent per second by the SFTP send adapter. The counter applies only to the messages that are written to the destination SFTP server. The type is real number (64-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: BYTES_SENT_PER_SEC or BYTES_SEN0 (warehouse name), Bytes Sent Per Sec (caption), Bytes_Sent_Per_Sec (attribute name), and BYTES_SEN0 (column name).

**Kilobytes Sent attribute**
This attribute displays the total size of data (in KB) that is sent by the SFTP send adapter since the BizTalk applications were started. The counter increases only for the messages that are written to the destination SFTP server. The type is real number (64-bit counter).

The following names are defined for this attribute: KILOBYTES_SENT or BYTES_SEN1 (warehouse name), Kilobytes Sent (caption), Kilobytes_Sent (attribute name), and BYTES_SEN1 (column name).

**Messages Sent attribute**
This attribute displays the number of messages that are sent per second by the SFTP send adapter since the BizTalk applications were started. The counter applies only to the messages that are written to destination SFTP server. The type is integer (32-bit counter).

The following names are defined for this attribute: MESSAGES_SENT or MESSAGES_S (warehouse name), Messages Sent (caption), Messages_Sent (attribute name), and MESSAGES_S (column name).

**Messages Sent Per Sec attribute**
This attribute displays the number of messages that are currently sent per second by the SFTP send adapter. The counter applies only to the messages that have been written to the destination SFTP server. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: MESSAGES_SENT_PER_SEC or MESSAGES_0 (warehouse name), Messages Sent Per Sec (caption), Messages_Sent_Per_Sec (attribute name), and MESSAGES_0 (column name).

**Name attribute**
The name of the instance. This attribute is a key attribute. The type is String.

The following names are defined for this attribute: NAME (warehouse name), Name (caption), Name (attribute name), and NAME (column name).

**Node attribute**
The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Timestamp attribute**
The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

## Single Sign On Database attribute group

The Single Sign-On Database attribute group includes attributes that provide information about the Single Sign-On Database. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Database Name attribute**
This attribute displays the Single Sign-On Database name. The type is string.

The following names are defined for this attribute: DATABASE_NAME or SSODBNAM (warehouse name), Database Name (caption), Database_Name (attribute name), and SSODBNAM (column name).

**Node attribute**
The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Server Name attribute**
This attribute displays the Single Sign-On Database server name. The type is string.

The following names are defined for this attribute: SERVER_NAME or SERVERNAM (warehouse name), Server Name (caption), Server_Name (attribute name), and SERVERNAM (column name).

**Timestamp attribute**
The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

## SMTP Send Adapter attribute group

The SMTP Send Adapter attribute group includes attributes that provide information about messages sent by SMTP adapter. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Messages Sent attribute**
This attribute displays the total number of messages sent by the SMTP adapter since the application started. The counter is incremented only for messages that have been transmitted to the SMTP server. The type is integer (32-bit counter).

The following names are defined for this attribute: MESSAGES_SENT or MESSAGES_S (warehouse name), Messages Sent (caption), Messages_Sent (attribute name), and MESSAGES_S (column name).

**Messages Sent Per Sec attribute**
This attribute displays the number of messages sent by the SMTP adapter per second. The counter applies only to messages that have been transmitted to the SMTP server. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: MESSAGES_SENT_PER_SEC or MESSAGES_0 (warehouse name), Messages Sent Per Sec (caption), Messages_Sent_Per_Sec (attribute name), and MESSAGES_0 (column name).

**Name attribute**
The name of the instance. This attribute is a key attribute. The type is String.

The following names are defined for this attribute: NAME (warehouse name), Name (caption), Name (attribute name), and NAME (column name).

**Node attribute**
The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Timestamp attribute**
The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

## SOAP Receive Adapter attribute group

The SOAP Receive Adapter attribute group includes attributes that provide information about messages received by SOAP adapter. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Messages Received attribute**
This attribute displays the total number of messages received by the SOAP Receive Adapter since the application started. The counter is incremented after a request message is read by the adapter from the SOAP client. The type is integer (32-bit counter).

The following names are defined for this attribute: MESSAGES_RECEIVED or MESSAGES_R (warehouse name), Messages Received (caption), Messages_Received (attribute name), and MESSAGES_R (column name).

**Messages Received Per Sec attribute**
This attribute displays the number of messages received by the SOAP Receive Adapter. The counter applies only to request messages that have been completely read by the adapter from the SOAP client. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: MESSAGES_RECEIVED_PER_SEC or MESSAGES_0 (warehouse name), Messages Received Per Sec (caption), Messages_Received_Per_Sec (attribute name), and MESSAGES_0 (column name).

**Name attribute**
The name of the instance. This attribute is a key attribute. The type is String.

The following names are defined for this attribute: NAME (warehouse name), Name (caption), Name (attribute name), and NAME (column name).

**Node attribute**
The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Timestamp attribute**
The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

## SOAP Send Adapter attribute group

The SOAP Send Adapter attribute group includes attributes that provide information about messages sent by SOAP adapter. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Messages Sent attribute**
This attribute displays the total number of messages sent by the SOAP Send Adapter since the application started. The counter is incremented only for messages that have reached the destination URL. The type is integer (32-bit counter).

The following names are defined for this attribute: MESSAGES_SENT or MESSAGES_S (warehouse name), Messages Sent (caption), Messages_Sent (attribute name), and MESSAGES_S (column name).

**Messages Sent Per Sec attribute**
This attribute displays the number of messages sent by the SOAP Send Adapter per second. The counter applies only to messages that have reached the destination URL. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: MESSAGES_SENT_PER_SEC or MESSAGES_0 (warehouse name), Messages Sent Per Sec (caption), Messages_Sent_Per_Sec (attribute name), and MESSAGES_0 (column name).

**Name attribute**
The name of the instance. This attribute is a key attribute. The type is String.

The following names are defined for this attribute: NAME (warehouse name), Name (caption), Name (attribute name), and NAME (column name).

**Node attribute**
The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Timestamp attribute**
The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

## SQL Receive Adapter attribute group

The SQL Receive Adapter attribute group includes attributes that provide information about messages received by SQL adapter. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Messages Received attribute**

This attribute displays the total number of messages read by the SQL Receive Adapter from a SQL server since the application started. The type is integer (32-bit counter).

The following names are defined for this attribute: MESSAGES_RECEIVED or MESSAGES_R (warehouse name), Messages Received (caption), Messages_Received (attribute name), and MESSAGES_R (column name).

**Messages Received Per Sec attribute**

This attribute displays the number of messages read by the SQL Receive Adapter from a SQL server per second. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: MESSAGES_RECEIVED_PER_SEC or MESSAGES_0 (warehouse name), Messages Received Per Sec (caption), Messages_Received_Per_Sec (attribute name), and MESSAGES_0 (column name).

**Name attribute**

The name of the instance. This attribute is a key attribute. The type is String.

The following names are defined for this attribute: NAME (warehouse name), Name (caption), Name (attribute name), and NAME (column name).

**Node attribute**

The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Timestamp attribute**

The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

## SQL Send Adapter attribute group

The SQL Send Adapter attribute group includes attributes that provide information about messages sent by SQL adapter This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Messages Sent attribute**

This attribute displays the total number of messages sent by the SQL Send Adapter since the application started. The counter is incremented only for messages that have been written to the destination SQL table. The type is integer (32-bit counter).

The following names are defined for this attribute: MESSAGES_SENT or MESSAGES_S (warehouse name), Messages Sent (caption), Messages_Sent (attribute name), and MESSAGES_S (column name).

**Messages Sent Per Sec attribute**

This attribute displays the number of messages sent by the SQL Send Adapter per second. The counter applies only to messages that have been written to the destination SQL table. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: MESSAGES_SENT_PER_SEC or MESSAGES_0 (warehouse name), Messages Sent Per Sec (caption), Messages_Sent_Per_Sec (attribute name), and MESSAGES_0 (column name).

**Name attribute**

The name of the instance. This attribute is a key attribute. The type is String.

The following names are defined for this attribute: NAME (warehouse name), Name (caption), Name (attribute name), and NAME (column name).

**Node attribute**
The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Timestamp attribute**
The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

## Subscribers attribute group

This attribute group includes attributes that provide information about the subscribers object of a Notification Services instance for BAM. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Name attribute**
This attribute displays the instance name for the subscribers object. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NAME (warehouse name), Name (caption), Name (attribute name), and NAME (column name).

**Node attribute**
The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Server Name attribute**
This attribute displays the name of the BizTalk Server. The type is string.

The following names are defined for this attribute: SERVER_NAME or SRVRNME (warehouse name), Server Name (caption), Server_Name (attribute name), and SRVRNME (column name).

**Subscribers Added attribute**
This attribute displays the number of subscribers that were added since the instance was last started. The type is integer (64-bit counter).

The following names are defined for this attribute: SUBSCRIBERS_ADDED or SUBSCADD (warehouse name), Subscribers Added (caption), Subscribers_Added (attribute name), and SUBSCADD (column name).

**Subscribers Disabled attribute**
This attribute displays the number of subscribers that are currently marked as disabled. The type is integer (64-bit gauge).

The following names are defined for this attribute: SUBSCRIBERS_DISABLED or SUBSCDIS (warehouse name), Subscribers Disabled (caption), Subscribers_Disabled (attribute name), and SUBSCDIS (column name).

**Subscribers Enabled attribute**
This attribute displays the number of subscribers that are currently marked as enabled. The type is integer (64-bit gauge).

The following names are defined for this attribute: SUBSCRIBERS_ENABLED or SUBSCEN (warehouse name), Subscribers Enabled (caption), Subscribers_Enabled (attribute name), and SUBSCEN (column name).

**Timestamp attribute**
The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

## Subscriptions attribute group

This attribute group includes the attributes that provide information about the subscriptions object of a Notification Services instance for BAM. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Name attribute**

This attribute displays the instance name for the subscription object. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NAME (warehouse name), Name (caption), Name (attribute name), and NAME (column name).

**Node attribute**

The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Server Name attribute**

This attribute displays the name of the BizTalk Server. The type is string.

The following names are defined for this attribute: SERVER_NAME or SRVRNME (warehouse name), Server Name (caption), Server_Name (attribute name), and SRVRNME (column name).

**Subscriptions Added attribute**

This attribute displays the number of subscriptions that were added since the application was started. The type is integer (32-bit counter).

The following names are defined for this attribute: SUBSCRIPTIONS_ADDED or SUBSCRIPTI (warehouse name), Subscriptions Added (caption), Subscriptions_Added (attribute name), and SUBSCRIPTI (column name).

**Subscriptions Disabled attribute**

This attribute displays the number of subscriptions that are currently disabled. The type is integer (64-bit gauge).

The following names are defined for this attribute: SUBSCRIPTIONS_DISABLED or SUBSCRIPT0 (warehouse name), Subscriptions Disabled (caption), Subscriptions_Disabled (attribute name), and SUBSCRIPT0 (column name).

**Subscriptions Enabled attribute**

This attribute displays the total number of subscriptions that are currently enabled. The type is integer (64-bit gauge).

The following names are defined for this attribute: SUBSCRIPTIONS_ENABLED or SUBSCRIPT1 (warehouse name), Subscriptions Enabled (caption), Subscriptions_Enabled (attribute name), and SUBSCRIPT1 (column name).

**Timestamp attribute**

The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

## TDDS attribute group

The TDDS attribute group includes attributes that provide information about the events, records, and batches that are processed. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Batches Being Processed attribute**
This attribute displays the number of batches that are being processed inside the current SQL transaction. The type is integer (32-bit gauge).

The following names are defined for this attribute: BATCHES_BEING_PROCESSED or BATCHES_BE (warehouse name), Batches Being Processed (caption), Batches_Being_Processed (attribute name), and BATCHES_BE (column name).

**Batches Committed attribute**
This attribute displays the number of batches that are currently committed to the destination database. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: BATCHES_COMMITTED or BATCHES_CO (warehouse name), Batches Committed (caption), Batches_Committed (attribute name), and BATCHES_CO (column name).

**Events Being Processed attribute**
This attribute displays the number of events that are being processed inside the current SQL transaction. The type is integer (32-bit gauge).

The following names are defined for this attribute: EVENTS_BEING_PROCESSED or EVENTS_BEI (warehouse name), Events Being Processed (caption), Events_Being_Processed (attribute name), and EVENTS_BEI (column name).

**Events Committed attribute**
This attribute displays the number of events that are committed to the destination database within this second. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: EVENTS_COMMITTED or EVENTS_COM (warehouse name), Events Committed (caption), Events_Committed (attribute name), and EVENTS_COM (column name).

**Name attribute**
The name of the instance. This attribute is a key attribute. The type is String.

The following names are defined for this attribute: NAME (warehouse name), Name (caption), Name (attribute name), and NAME (column name).

**Node attribute**
The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Records Being Processed attribute**
This attribute displays the number of records that are being processed inside the current SQL transaction. The type is integer (32-bit gauge).

The following names are defined for this attribute: RECORDS_BEING_PROCESSED or RECORDS_BE (warehouse name), Records Being Processed (caption), Records_Being_Processed (attribute name), and RECORDS_BE (column name).

**Records Committed attribute**
This attribute displays the number of records committed to the destination database during this second. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: RECORDS_COMMITTED or RECORDS_CO (warehouse name), Records Committed (caption), Records_Committed (attribute name), and RECORDS_CO (column name).

**Timestamp attribute**
The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

**Total Batches attribute**

This attribute displays total batches processed by TDDS since the BizTalk Server was started. This attribute is the 64 bit version of the Total Batches (Superseded) attribute. The type is integer (64-bit counter).

The following names are defined for this attribute: TOTAL_BATCHES_64 or T_BATC_64 (warehouse name), Total Batches (caption), Total_Batches_64 (attribute name), and T_BATC_64 (column name).

**Total Batches (Superseded) attribute**

This attribute displays the total number of batches the TDDS processed since the Biztalk server was started. The type is integer (32-bit counter).

The following names are defined for this attribute: TOTAL_BATCHES or TOTAL_BATC (warehouse name), Total Batches (Superseded) (caption), Total_Batches (attribute name), and TOTAL_BATC (column name).

**Total Events attribute**

This attribute displays total events processed by TDDS since the BizTalk Server was started. This attribute is the 64 bit version of the Total Events (Superseded) attribute. The type is integer (64-bit counter).

The following names are defined for this attribute: TOTAL_EVENTS_64 or T_EVEN_64 (warehouse name), Total Events (caption), Total_Events_64 (attribute name), and T_EVEN_64 (column name).

**Total Events (Superseded) attribute**

This attribute displays the total number of events the TDDS processed since the Biztalk server was started. The type is integer (32-bit counter).

The following names are defined for this attribute: TOTAL_EVENTS or TOTAL_EVEN (warehouse name), Total Events (Superseded) (caption), Total_Events (attribute name), and TOTAL_EVEN (column name).

**Total Failed Batches attribute**

This attribute displays total batches failed to run by TDDS since the BizTalk Server was started. This attribute is the 64 bit version of the Total Failed Batches (Superseded) attribute. The type is integer (64-bit counter).

The following names are defined for this attribute: TOTAL_FAILED_BATCHES_64 or T_FAIL_64 (warehouse name), Total Failed Batches (caption), Total_Failed_Batches_64 (attribute name), and T_FAIL_64 (column name).

**Total Failed Batches (Superseded) attribute**

This attribute displays the total number of batches that the TDDS failed to run since the Biztalk server was started. The type is integer (32-bit counter).

The following names are defined for this attribute: TOTAL_FAILED_BATCHES or TOTAL_FAIL (warehouse name), Total Failed Batches (Superseded) (caption), Total_Failed_Batches (attribute name), and TOTAL_FAIL (column name).

**Total Failed Events attribute**

This attribute displays total events failed to run by TDDS since the BizTalk Server was started. This attribute is the 64 bit version of the Total Failed Events (Superseded) attribute. The type is integer (64-bit counter).

The following names are defined for this attribute: TOTAL_FAILED_EVENTS_64 or T_FAI0_64 (warehouse name), Total Failed Events (caption), Total_Failed_Events_64 (attribute name), and T_FAI0_64 (column name).

**Total Failed Events (Superseded) attribute**

This attribute displays the total number of events that the TDDS failed to run since the Biztalk server was started. The type is integer (32-bit counter).

The following names are defined for this attribute: TOTAL_FAILED_EVENTS or TOTAL_FAI0 (warehouse name), Total Failed Events (Superseded) (caption), Total_Failed_Events (attribute name), and TOTAL_FAI0 (column name).

**Total Records attribute**

This attribute displays total records that were processed by TDDS since the Biztalk Server was started. This attribute is the 64 bit version of the Total Records (Superseded) attribute. The type is integer (64-bit gauge).

The following names are defined for this attribute: TOTAL_RECORDS_64 or T_RECO_64 (warehouse name), Total Records (caption), Total_Records_64 (attribute name), and T_RECO_64 (column name).

**Total Records (Superseded) attribute**

This attribute displays the total number of records that the TDDS currently processed. The type is integer (32-bit counter).

The following names are defined for this attribute: TOTAL_RECORDS or TOTAL_RECO (warehouse name), Total Records (Superseded) (caption), Total_Records (attribute name), and TOTAL_RECO (column name).

## Tracking Database attribute group

The Tracking Database attribute group includes attributes that provide information about the BizTalk Tracking Database. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Database Name attribute**

This attribute displays the Tracking Database name. The type is string.

The following names are defined for this attribute: DATABASE_NAME or TRACKINGDB (warehouse name), Database Name (caption), Database_Name (attribute name), and TRACKINGDB (column name).

**Node attribute**

The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Server Name attribute**

This attribute displays the Tracking Database server name. The type is string.

The following names are defined for this attribute: SERVER_NAME or TRACKINGD0 (warehouse name), Server Name (caption), Server_Name (attribute name), and TRACKINGD0 (column name).

**Timestamp attribute**

The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

## Vacuumer attribute group

This attribute group includes attributes that provide information about the vacuumer object of a Notification Services instance for BAM. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Completed Periods attribute**

This attribute displays the number of scheduled vacuuming periods (or intervals) that are currently completed successfully. The type is integer (64-bit gauge).

The following names are defined for this attribute: COMPLETED_PERIODS or COMPPERID (warehouse name), Completed Periods (caption), Completed_Periods (attribute name), and COMPPERID (column name).

**Name attribute**
This attribute displays the instance name for the vacuumer object. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NAME (warehouse name), Name (caption), Name (attribute name), and NAME (column name).

**Node attribute**
The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Quanta Remaining attribute**
This attribute displays the number of quanta that was considered for vacuuming at the start of the last vacuuming period, but were not vacuumed. The type is integer (64-bit gauge).

The following names are defined for this attribute: QUANTA_REMAINING or QUANREMAN (warehouse name), Quanta Remaining (caption), Quanta_Remaining (attribute name), and QUANREMAN (column name).

**Quanta Vacuumed attribute**
This attribute displays the number of quanta that was vacuumed during the last vacuuming period. The type is integer (64-bit gauge).

The following names are defined for this attribute: QUANTA_VACUUMED or QUANVACUU (warehouse name), Quanta Vacuumed (caption), Quanta_Vacuumed (attribute name), and QUANVACUU (column name).

**Server Name attribute**
This attribute displays the name of the BizTalk Server. The type is string.

The following names are defined for this attribute: SERVER_NAME or SRVRNME (warehouse name), Server Name (caption), Server_Name (attribute name), and SRVRNME (column name).

**Timeouts attribute**
This attribute displays the number of vacuuming periods that currently ended due to the time limit. The type is integer (64-bit gauge).

The following names are defined for this attribute: TIMEOUTS (warehouse name), Timeouts (caption), Timeouts (attribute name), and TIMEOUTS (column name).

**Timestamp attribute**
The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

## Windows SharePoint Services attribute group

The Windows SharePoint Services attribute group includes attributes that provide information about messages sent, received and message failures. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Node attribute**
The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Percent Receive Message Failures attribute**
This attribute displays the percentage of Windows SharePoint Services files that have not been processed by BizTalk Server due to receive errors. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: PERCENT_RECEIVE_MESSAGE_FAILURES or RECEIVE_ME (warehouse name), Percent Receive Message Failures (caption), Percent_Receive_Message_Failures (attribute name), and RECEIVE_ME (column name).

**Percent Send Message Failures attribute**

This attribute displays the percentage of failed messages BizTalk Server attempted to send to Windows SharePoint Services. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: PERCENT_SEND_MESSAGE_FAILURES or SEND_MESSA (warehouse name), Percent Send Message Failures (caption), Percent_Send_Message_Failures (attribute name), and SEND_MESSA (column name).

**Percent Web Service Call Failures attribute**

This attribute displays the percentage of Windows SharePoint Services adapter Web service calls that have failed. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: PERCENT_WEB_SERVICE_CALL_FAILURES or WEB_SERVIC (warehouse name), Percent Web Service Call Failures (caption), Percent_Web_Service_Call_Failures (attribute name), and WEB_SERVIC (column name).

**Timestamp attribute**

The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

**Total Receive Commit Failures attribute**

This attribute displays the total number of Windows SharePoint Services errors that were raised when updating the status of the SharePoint documents since the application started. The type is integer (32-bit counter).

The following names are defined for this attribute: TOTAL_RECEIVE_COMMIT_FAILURES or TOTAL_RECE (warehouse name), Total Receive Commit Failures (caption), Total_Receive_Commit_Failures (attribute name), and TOTAL_RECE (column name).

**Total Receive Message Failures attribute**

This attribute displays the total number of Windows SharePoint Services files received by the Windows SharePoint Services adapter, including files that failed to process since the application started. The type is integer (32-bit counter).

The following names are defined for this attribute: TOTAL_RECEIVE_MESSAGE_FAILURES or TOTAL_REC1 (warehouse name), Total Receive Message Failures (caption), Total_Receive_Message_Failures (attribute name), and TOTAL_REC1 (column name).

**Total Received Messages attribute**

This attribute displays the total number of Windows SharePoint Services files received that have not been processed by BizTalk Server due to errors since the application started. The type is integer (32-bit counter).

The following names are defined for this attribute: TOTAL_RECEIVED_MESSAGES or TOTAL_REC0 (warehouse name), Total Received Messages (caption), Total_Received_Messages (attribute name), and TOTAL_REC0 (column name).

**Total Send Message Failures attribute**

This attribute displays the total number of failed messages BizTalk Server attempted to send to Windows SharePoint Services since the application started. The type is integer (32-bit counter).

The following names are defined for this attribute: TOTAL_SEND_MESSAGE_FAILURES or TOTAL_SEND (warehouse name), Total Send Message Failures (caption), Total_Send_Message_Failures (attribute name), and TOTAL_SEND (column name).

**Total Sent Messages attribute**

This attribute displays the total number of messages BizTalk Server sent to Windows SharePoint Services, including files that failed to process since the application started. The type is integer (32-bit counter).

The following names are defined for this attribute: TOTAL_SENT_MESSAGES or TOTAL_SENT (warehouse name), Total Sent Messages (caption), Total_Sent_Messages (attribute name), and TOTAL_SENT (column name).

**Total Web Service Call Failures attribute**
This attribute displays the total number of Windows SharePoint Services adapter Web service calls that have failed since the application started. The type is integer (32-bit counter).

The following names are defined for this attribute: TOTAL_WEB_SERVICE_CALL_FAILURES or TOTAL_WEB_ (warehouse name), Total Web Service Call Failures (caption), Total_Web_Service_Call_Failures (attribute name), and TOTAL_WEB_ (column name).

**Web Service Calls Per Sec attribute**
This attribute displays the number of Windows SharePoint Services adapter Web service calls per second. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: WEB_SERVICE_CALLS_PER_SEC or WEB_SERVI0 (warehouse name), Web Service Calls Per Sec (caption), Web_Service_Calls_Per_Sec (attribute name), and WEB_SERVI0 (column name).

## Windows SharePoint Services Adapter attribute group

The Windows SharePoint Services Adapter attribute group includes attributes that provide information about messages sent, received and message failures. This attribute group is eligible for use with Tivoli Data Warehouse.

This attribute group contains the following attributes:

**Name attribute**
The name of the instance. This attribute is a key attribute. The type is String.

The following names are defined for this attribute: NAME (warehouse name), Name (caption), Name (attribute name), and NAME (column name).

**Node attribute**
The managed system name of the agent. This attribute is a key attribute. The type is string.

The following names are defined for this attribute: NODE (warehouse name), Node (caption), ORIGINNODE (attribute name), and ORIGINNODE (column name).

**Percent Receive Message Failures attribute**
This attribute displays the percentage of Windows SharePoint Services files that have not been processed by BizTalk Server due to receive errors. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: PERCENT_RECEIVE_MESSAGE_FAILURES or RECEIVE_ME (warehouse name), Percent Receive Message Failures (caption), Percent_Receive_Message_Failures (attribute name), and RECEIVE_ME (column name).

**Percent Send Message Failures attribute**
This attribute displays the percentage of failed messages BizTalk Server attempted to send to Windows SharePoint Services. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: PERCENT_SEND_MESSAGE_FAILURES or SEND_MESSA (warehouse name), Percent Send Message Failures (caption), Percent_Send_Message_Failures (attribute name), and SEND_MESSA (column name).

**Percent Web Service Call Failures attribute**
This attribute displays the percentage of Windows SharePoint Services adapter Web service calls that have failed. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: PERCENT_WEB_SERVICE_CALL_FAILURES or WEB_SERVIC (warehouse name), Percent Web Service Call Failures (caption), Percent_Web_Service_Call_Failures (attribute name), and WEB_SERVIC (column name).

**Timestamp attribute**
The local time at the agent when the data was collected. The type is string.

The following names are defined for this attribute: TIMESTAMP (warehouse name), Timestamp (caption), Timestamp (attribute name), and TIMESTAMP (column name).

**Total Receive Commit Failures attribute**

This attribute displays the total number of Windows SharePoint Services errors that were raised when updating the status of the SharePoint documents since the application started. The type is integer (32-bit counter).

The following names are defined for this attribute: TOTAL_RECEIVE_COMMIT_FAILURES or TOTAL_RECE (warehouse name), Total Receive Commit Failures (caption), Total_Receive_Commit_Failures (attribute name), and TOTAL_RECE (column name).

**Total Receive Message Failures attribute**

This attribute displays the total number of Windows SharePoint Services files received by the Windows SharePoint Services adapter, including files that failed to process since the application started. The type is integer (32-bit counter).

The following names are defined for this attribute: TOTAL_RECEIVE_MESSAGE_FAILURES or TOTAL_REC1 (warehouse name), Total Receive Message Failures (caption), Total_Receive_Message_Failures (attribute name), and TOTAL_REC1 (column name).

**Total Received Messages attribute**

This attribute displays the total number of Windows SharePoint Services files received that have not been processed by BizTalk Server due to errors since the application started. The type is integer (32-bit counter).

The following names are defined for this attribute: TOTAL_RECEIVED_MESSAGES or TOTAL_REC0 (warehouse name), Total Received Messages (caption), Total_Received_Messages (attribute name), and TOTAL_REC0 (column name).

**Total Send Message Failures attribute**

This attribute displays the total number of failed messages BizTalk Server attempted to send to Windows SharePoint Services since the application started. The type is integer (32-bit counter).

The following names are defined for this attribute: TOTAL_SEND_MESSAGE_FAILURES or TOTAL_SEND (warehouse name), Total Send Message Failures (caption), Total_Send_Message_Failures (attribute name), and TOTAL_SEND (column name).

**Total Sent Messages attribute**

This attribute displays the total number of messages BizTalk Server sent to Windows SharePoint Services, including files that failed to process since the application started. The type is integer (32-bit counter).

The following names are defined for this attribute: TOTAL_SENT_MESSAGES or TOTAL_SENT (warehouse name), Total Sent Messages (caption), Total_Sent_Messages (attribute name), and TOTAL_SENT (column name).

**Total Web Service Call Failures attribute**

This attribute displays the total number of Windows SharePoint Services adapter Web service calls that have failed since the application started. The type is integer (32-bit counter).

The following names are defined for this attribute: TOTAL_WEB_SERVICE_CALL_FAILURES or TOTAL_WEB_ (warehouse name), Total Web Service Call Failures (caption), Total_Web_Service_Call_Failures (attribute name), and TOTAL_WEB_ (column name).

**Web Service Calls Per Sec attribute**

This attribute displays the number of Windows SharePoint Services adapter Web service calls per second. The type is real number (32-bit gauge) with two decimal places of precision.

The following names are defined for this attribute: WEB_SERVICE_CALLS_PER_SEC or WEB_SERVI0 (warehouse name), Web Service Calls Per Sec (caption), Web_Service_Calls_Per_Sec (attribute name), and WEB_SERVI0 (column name).

## Disk capacity planning for historical data

Disk capacity planning for a monitoring agent is a prediction of the amount of disk space to be consumed by the historical data in each attribute group that is collecting historical data. Required disk storage is an important factor when you are defining data collection rules and your strategy for historical data collection.

The Capacity planning for historical data table provides the following information, which is required to calculate disk space for this monitoring agent:

**Table** Table name as it is displayed in the warehouse database, if the attribute group is configured to be written to the warehouse. The table name listed here corresponds to the table name in "Attribute groups for the monitoring agent" on page 18.

**Attribute group**
Name of the attribute group that is used to create the table in the warehouse database if it is short enough to fit in the table naming constraints of the database that is being used for the warehouse. The attribute group name listed here corresponds to the Warehouse table name in "Attribute groups for the monitoring agent" on page 18.

**Bytes per row (agent)**
Estimate of the record length for each row or instance that is written to the agent disk for historical data collection. This estimate can be used for agent disk space planning purposes.

**Database bytes per row (warehouse)**
Estimate of the record length for detailed records that are written to the warehouse database, if the attribute group is configured to be written to the warehouse. Detailed records are records that have been uploaded from the agent for long-term historical data collection. This estimate can be used for warehouse disk-space planning purposes.

**Aggregate bytes per row (warehouse)**
Estimate of the record length for aggregate records that are written to the warehouse database, if the attribute group is configured to be written to the warehouse. Aggregate records are created by the Summarization agent for attribute groups that have been configured for summarization. This estimate can be used for warehouse disk-space planning purposes.

In addition to the information in the tables, you must know the number of rows of data that you plan to collect. An attribute group can have single or multiple rows of data, depending on the application environment that is being monitored. For example, if your attribute group monitors each processor in your computer and you have a dual processor computer, the number of rows is two.

*Table 1. Capacity planning for historical data logged by the Microsoft BizTalk Server agent*

| Table | Attribute group | Bytes per row (agent) | Database bytes per row (warehouse) | Aggregate bytes per row (warehouse) |
|---|---|---|---|---|
| | | | | |
| | | | | |

For more information about historical data collection, see "Managing historical data" in the *IBM Tivoli Monitoring Administrator's Guide*.

# Chapter 3. Situations

A situation is a logical expression involving one or more system conditions. Situations are used to monitor the condition of systems in your network. You can manage situations from the Tivoli Enterprise Portal by using the Situation Editor or from the command-line interface using the tacmd commands for situations. You can manage private situations in the private configuration XML file.

## About situations

The monitoring agents that you use to monitor your system environment include a set of predefined situations that you can use as-is. You can also create new situations to meet your requirements.

Predefined situations contain attributes that check for system conditions common to many enterprises. Using predefined situations can improve the speed with which you can begin using the IBM Tivoli Composite Application Manager for Microsoft Applications: Microsoft BizTalk Server Agent. You can change the conditions or values being monitored by a predefined situation to the conditions or values best suited to your enterprise.

You can display predefined situations and create your own situations using the Situation editor. The Situation editor initially lists the situations associated with the navigator item that you selected. When you click a situation name or create a situation, a panel opens with the following tabs:

**Formula**
Formula describing the condition being tested.

**Distribution**
List of managed systems (operating systems, subsystems, or applications) to which the situation can be distributed. All the Microsoft BizTalk Server agent managed systems are assigned by default.

**Expert advice**
Comments and instructions to be read in the event workspace.

**Action**
Command to be sent to the system.

**EIF** Customize forwarding of the event to an Event Integration Facility receiver. (Available when the Tivoli Enterprise Monitoring Server is configured to forward events.)

**Until** Options to close the event after a period of time, or when another situation becomes true.

## Additional information about situations

The *Tivoli Enterprise Portal User's Guide* contains more information about predefined and custom situations and how to use them to respond to alerts.

For a list of the predefined situations and information about each individual situation for this monitoring agent, see "Predefined situations."

# Predefined situations

The monitoring agent contains predefined situations, which are organized by Navigator item.

- Microsoft BizTalk Server
  - Not applicable
- Adapters

  - Not applicable
- Availability
  - KQB_BizRuleEngine_Service_Down
  - KQB_Biz_Base_EDI_Service_Down
  - KQB_Biz_HostInstance_Srv_Down
  - KQB_Biz_SP_Msg_Adapter_Down
  - KQB_Biz_SSO_Service_Down
  - KQB_No_Host_Instance
  - KQB_RFID_Service_Down
- Business Activity Monitoring
  - Not applicable
- Configuration and Status
  - KQB_Orchestrn_Stopped_Warning
  - KQB_Rec_Loc_Stoped_Warning
  - KQB_Send_Port_Group_Stopped
  - KQB_Send_Port_Stopped_Warning
  - KQB_Srvc_Inst_Suspend_Warning
- Databases
  - Not applicable
- Event Log
  - KQB_Adapter_SuspendsInboundMsg
  - KQB_Adptr_Suspends_OutboundMsg
  - KQB_BAM_Config_Changed_Info
  - KQB_BizTalk_DBConnection_Fail
  - KQB_FileAdptr_FolderAccessFail
  - KQB_FILESendAdptr_OpenFileFail
  - KQB_HostInstance_ConfigDB_Fail
  - KQB_Host_Inst_Crashed
  - KQB_HTTPSendAdaptr_ConnectFail
  - KQB_Inbound_Msg_Proc_Failure
  - KQB_Invalid_FileRecieveLoc
  - KQB_Invalid_Receive_Loc_Config
  - KQB_MsgEngineFailToGetConfigDB
  - KQB_MsgEngine_FailToAddRecvLoc
  - KQB_MsgEngine_FailToInit
  - KQB_MsgEngine_FailToRegAdptr
  - KQB_MsgEngine_SSOSrverConnFail
  - KQB_Msg_Resp_WithoutReq
  - KQB_MSMQTSubserviceFail
  - KQB_POP3_Authentication_Fail
  - KQB_POP3_ServerConnection_Fail
  - KQB_ReceiveLoc_ShutDown
  - KQB_RecvFileAttr
  - KQB_RecvLoc_Disabled
  - KQB_RFID_DeviceName_Conflict

  - KQB_RFID_Device_Conn_Fail
  - KQB_RFID_Device_Disabled
  - KQB_RFID_Dev_StateSave_Fail
  - KQB_RFID_InsufPrivil_On_Dev
  - KQB_RFID_ProcessEngine_Fatal
  - KQB_RFID_ProcessEng_MaxRestart
  - KQB_RFID_Service_Auth_Fail
  - KQB_RFID_Service_StartUpFail
  - KQB_SendPipeline_ExecutionFail
  - KQB_Stored_ProcCall_Failure
- Host Throttling
  - KQB_HT_High_Database_Session
  - KQB_HT_High_Database_Size
  - KQB_HT_High_InProcMessageCount
  - KQB_HT_High_MsgDelivery_Rate
  - KQB_HT_High_MsgPublishing_Rate
  - KQB_HT_High_Process_Memory
  - KQB_HT_High_System_Memory
  - KQB_HT_High_Thread_Count
- Human Workflow Services
  - Not applicable
- MessageBox
  - Not applicable
- Messaging
  - Not applicable
- Orchestrations
  - Not applicable
- RFID
  - Not applicable
- TDDS
  - Not applicable

## Situation descriptions

Each situation description provides information about the situation that you can use to monitor the condition of systems in your network.

The situation descriptions provide the following information:

**Description**
Information about the conditions that the situation tests.

**Formula**
Syntax that contains one or more logical expressions that describe the conditions for the situation to monitor.

**Distribution**
Whether the situation is automatically distributed to instances of the agent or is available for manual distribution.

**Run at startup**
Whether the situation starts monitoring when the agent starts.

**Sampling interval**
Number of seconds that elapse between one sample of data that the monitoring agent collects for the server and the next sample.

**Situation persistence**
Whether the conditions specified in the situation evaluate to "true" for the defined number of occurrences in a row before the situation is raised. The default of one means that no persistence-checking takes place.

**Severity**
Severity of the predefined events: Warning, Informational, or Critical.

**Clearing conditions**
Controls when a true situation closes: after a period, when another situation is true, or whichever occurs first if both are selected.

## Microsoft BizTalk Server navigator item

No predefined situations are included for this navigator item.

## Adapters navigator item

No predefined situations are included for this navigator item.

## Availability navigator item

The situation descriptions are organized by the navigator item to which the situations are relevant.

**KQB_BizRuleEngine_Service_Down situation**

**Description**
Rule Engine Update Service is not running.

The situation is evaluated for each distinct value of Full_Name.

**Formula**

```
*IF *VALUE KQB_AVAILABILITY.Name *EQ 'RuleEngineUpdateService' *AND *VALUE
KQB_AVAILABILITY.Status *EQ DOWN
```

See “Attributes in each attribute group” on page 23 for descriptions of the attributes in this formula.

**Distribution**
This situation is available for distribution.

**Run at startup**
No

**Sampling interval**
15 minutes

**Situation persistence**
The number of times the conditions of the situation must occur for the situation to be true is 1.

**Error conditions**
Warning

**Clearing conditions**
The situation clears when the condition becomes false.

**KQB_Biz_Base_EDI_Service_Down situation**

**Description**
BizTalk Base EDI Service is not running.

The situation is evaluated for each distinct value of Full_Name.

**Formula**

```
*IF *VALUE KQB_AVAILABILITY.Name *EQ 'EDI Subsystem' *AND *VALUE
KQB_AVAILABILITY.Status *EQ DOWN
```

See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

15 minutes

**Situation persistence**

The number of times the conditions of the situation must occur for the situation to be true is 1.

**Error conditions**

Warning

**Clearing conditions**

The situation clears when the condition becomes false.

**KQB_Biz_HostInstance_Srv_Down situation**

**Description**

BizTalk Server Application service is not running.

The situation is evaluated for each distinct value of Full_Name.

**Formula**

```
*IF *SCAN KQB_AVAILABILITY.Name *EQ 'btssvc' *AND *VALUE KQB_AVAILABILITY.Status
*EQ DOWN
```

See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.

**Distribution**

This situation is automatically distributed to instances of this agent.

**Run at startup**

Yes

**Sampling interval**

30 seconds

**Situation persistence**

The number of times the conditions of the situation must occur for the situation to be true is 1.

**Error conditions**

Warning

**Clearing conditions**

The situation clears when the condition becomes false.

**KQB_Biz_SP_Msg_Adapter_Down situation**

**Description**

BizTalk SharePoint Messaging Adapter Service is not running.

The situation is evaluated for each distinct value of Full_Name.

**Formula**

```
*IF *VALUE KQB_AVAILABILITY.Name *EQ
'Microsoft.BizTalk.KwTpm.StsBizTalkAdapter.StsBizTalkAdapterService' *AND *VALUE
KQB_AVAILABILITY.Status *EQ DOWN
```

See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**
No
**Sampling interval**
15 minutes
**Situation persistence**
The number of times the conditions of the situation must occur for the situation to be true is 1.
**Error conditions**
Warning
**Clearing conditions**
The situation clears when the condition becomes false.

**KQB_Biz_SSO_Service_Down situation**

**Description**
Enterprise Single Sign-On service is not running.

The situation is evaluated for each distinct value of Full_Name.
**Formula**
```
*IF *VALUE KQB_AVAILABILITY.Name *EQ 'ENTSSO' *AND *VALUE KQB_AVAILABILITY.Status
*EQ DOWN
```

See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.
**Distribution**
This situation is available for distribution.
**Run at startup**
No
**Sampling interval**
1 minute
**Situation persistence**
The number of times the conditions of the situation must occur for the situation to be true is 1.
**Error conditions**
Critical
**Clearing conditions**
The situation clears when the condition becomes false.

**KQB_No_Host_Instance situation**

**Description**
No Host Instance on the BizTalk Server.

The situation is evaluated for each distinct value of Full_Name.
**Formula**
```
*IF ( ( *VALUE KQB_AVAILABILITY.Full_Name *EQ 'N/A' *AND *VALUE
KQB_AVAILABILITY.Name *EQ 'btssvc' *AND *VALUE KQB_AVAILABILITY.Status *EQ
UNKNOWN ) *OR ( *VALUE KQB_AVAILABILITY.Full_Name *EQ 'N/A' *AND *VALUE
KQB_AVAILABILITY.Name *EQ 'BTSSvc' *AND *VALUE KQB_AVAILABILITY.Status *EQ
UNKNOWN ) )
```

See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.
**Distribution**
This situation is available for distribution.
**Run at startup**
No
**Sampling interval**
15 minutes
**Situation persistence**
The number of times the conditions of the situation must occur for the situation to be true is 1.

**Error conditions**
Warning
**Clearing conditions**
The situation clears when the condition becomes false.

**KQB_RFID_Service_Down situation**
**Description**
The Microsoft BizTalk RFID service is not running.

The situation is evaluated for each distinct value of Full_Name.
**Formula**
```
*IF ( ( *VALUE KQB_AVAILABILITY.Name *EQ 'msbiztalkrfid' *AND *VALUE
KQB_AVAILABILITY.Status *EQ DOWN ) *OR ( *VALUE KQB_AVAILABILITY.Name *EQ
'MSBizTalkRFID' *AND *VALUE KQB_AVAILABILITY.Status *EQ DOWN ) )
```
See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.
**Distribution**
This situation is available for distribution.
**Run at startup**
No
**Sampling interval**
15 minutes
**Situation persistence**
The number of times the conditions of the situation must occur for the situation to be true is 1.
**Error conditions**
Warning
**Clearing conditions**
The situation clears when the condition becomes false.

## Business Activity Monitoring navigator item

No predefined situations are included for this navigator item.

## Configuration and Status navigator item

The situation descriptions are organized by the navigator item to which the situations are relevant.

**KQB_Orchestrn_Stopped_Warning situation**
**Description**
Orchestration stopped

The situation is evaluated for each distinct value of the NAME attribute.
**Formula**
```
*IF *VALUE KQB_ORCHESTRATION_STATUS.Status *EQ 3
```
See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.
**Distribution**
This situation is available for distribution.
**Run at startup**
No
**Sampling interval**
1 hour
**Situation persistence**
The number of times the conditions of the situation must occur for the situation to be true is 1.
**Error conditions**
Warning

**Clearing conditions**
The situation clears when the condition becomes false.

**KQB_Rec_Loc_Stoped_Warning situation**

**Description**
Receive location disabled

The situation is evaluated for each distinct value of the NAME attribute.

**Formula**
```
*IF *VALUE KQB_RECEIVE_LOCATION_STATUS.Status *EQ Disabled
```

See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.

**Distribution**
This situation is available for distribution.

**Run at startup**
No

**Sampling interval**
30 minutes

**Situation persistence**
The number of times the conditions of the situation must occur for the situation to be true is 1.

**Error conditions**
Warning

**Clearing conditions**
The situation clears when the condition becomes false.

**KQB_Send_Port_Group_Stopped situation**

**Description**
The Send Port Group is stopped.

The situation is evaluated for each distinct value of Send_Port_Group_Name.

**Formula**
```
*IF *VALUE KQB_SEND_PORT_GROUP_STATUS.Status *EQ 2
```

See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.

**Distribution**
This situation is available for distribution.

**Run at startup**
No

**Sampling interval**
30 minutes

**Situation persistence**
The number of times the conditions of the situation must occur for the situation to be true is 1.

**Error conditions**
Warning

**Clearing conditions**
The situation clears when the condition becomes false.

**KQB_Send_Port_Stopped_Warning situation**

**Description**
Send port stopped

The situation is evaluated for each distinct value of the NAME attribute.

**Formula**
```
*IF *VALUE KQB_SEND_PORT_STATUS.Status *EQ 2
```

See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.

**Distribution**
This situation is available for distribution.
**Run at startup**
No
**Sampling interval**
30 minutes
**Situation persistence**
The number of times the conditions of the situation must occur for the situation to be true is 1.
**Error conditions**
Warning
**Clearing conditions**
The situation clears when the condition becomes false.

**KQB_Srvc_Inst_Suspend_Warning situation**
**Description**
Service instance suspended

The situation is evaluated for each distinct value of the INSTID attribute.
**Formula**
```
*IF *VALUE KQB_SERVICE_INSTANCE_STATUS_AND_CLASS.Service_Status *EQ 4 *OR *VALUE
KQB_SERVICE_INSTANCE_STATUS_AND_CLASS.Service_Status *EQ 32
```

See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.
**Distribution**
This situation is available for distribution.
**Run at startup**
No
**Sampling interval**
30 minutes
**Situation persistence**
The number of times the conditions of the situation must occur for the situation to be true is 1.
**Error conditions**
Warning
**Clearing conditions**
The situation clears when the condition becomes false.

## Databases navigator item

No predefined situations are included for this navigator item.

## Event Log navigator item

The situation descriptions are organized by the navigator item to which the situations are relevant.

**KQB_Adapter_SuspendsInboundMsg situation**
**Description**
An inbound receive message is suspended by an adapter.

The situation is evaluated for each distinct value of the LOGNAME attribute.
**Formula**
```
*IF ( ( *VALUE KQB_EVENT_LOG.Event_ID *EQ 5753 *AND *VALUE
KQB_EVENT_LOG.Event_Source *EQ 'BizTalk Server 2006') *OR ( *VALUE
KQB_EVENT_LOG.Event_ID *EQ 5753 *AND *VALUE KQB_EVENT_LOG.Event_Source *EQ
'BizTalk Server 2004') *OR ( *VALUE KQB_EVENT_LOG.Event_ID *EQ 5753 *AND *VALUE
KQB_EVENT_LOG.Event_Source *EQ 'BizTalk Server 2009') *OR ( *VALUE
KQB_EVENT_LOG.Event_ID *EQ 5753 *AND *VALUE KQB_EVENT_LOG.Event_Source *EQ
'BizTalk Server'))
```

See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.

**Distribution**
This situation is automatically distributed to instances of this agent.

**Run at startup**
Yes

**Sampling interval**
None. Data is analyzed when it becomes available.

**Situation persistence**
Not Applicable

**Error conditions**
Critical

**Clearing conditions**
The situation does not clear automatically.

**KQB_Adptr_Suspends_OutboundMsg situation**

**Description**
An outbound message is being suspended by the adapter.

The situation is evaluated for each distinct value of the LOGNAME attribute.

**Formula**

```
*IF ( ( *VALUE KQB_EVENT_LOG.Event_ID *EQ 5754 *AND *VALUE
KQB_EVENT_LOG.Event_Source *EQ 'BizTalk Server 2006') *OR ( *VALUE
KQB_EVENT_LOG.Event_ID *EQ 5754 *AND *VALUE KQB_EVENT_LOG.Event_Source *EQ
'BizTalk Server 2004') *OR ( *VALUE KQB_EVENT_LOG.Event_ID *EQ 5754 *AND *VALUE
KQB_EVENT_LOG.Event_Source *EQ 'BizTalk Server 2009') *OR ( *VALUE
KQB_EVENT_LOG.Event_ID *EQ 5754 *AND *VALUE KQB_EVENT_LOG.Event_Source *EQ
'BizTalk Server'))
```

See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.

**Distribution**
This situation is automatically distributed to instances of this agent.

**Run at startup**
Yes

**Sampling interval**
None. Data is analyzed when it becomes available.

**Situation persistence**
Not Applicable

**Error conditions**
Critical

**Clearing conditions**
The situation does not clear automatically.

**KQB_BAM_Config_Changed_Info situation**

**Description**
BAM Alerts either showing no data or wrong data.

The situation is evaluated for each distinct value of the LOGNAME attribute.

**Formula**

```
*IF ( ( *VALUE KQB_EVENT_LOG.Event_ID *EQ 10123  *OR *VALUE
KQB_EVENT_LOG.Event_ID *EQ 10115) *AND ( *VALUE KQB_EVENT_LOG.Event_Source *EQ
'BamManagementUtility'))
```

See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.

**Distribution**
This situation is automatically distributed to instances of this agent.

**Run at startup**
Yes

**Sampling interval**
None. Data is analyzed when it becomes available.
**Situation persistence**
Not Applicable
**Error conditions**
Informational
**Clearing conditions**
The situation does not clear automatically.

**KQB_BizTalk_DBConnection_Fail situation**
**Description**
BTS Host instance failed to connect to one of its database.

The situation is evaluated for each distinct value of the LOGNAME attribute.
**Formula**

```
*IF ( ( *VALUE KQB_EVENT_LOG.Event_ID *EQ 6913 *AND *VALUE
KQB_EVENT_LOG.Event_Source *EQ 'BizTalk Server 2006') *OR ( *VALUE
KQB_EVENT_LOG.Event_ID *EQ 6913 *AND *VALUE KQB_EVENT_LOG.Event_Source *EQ
'BizTalk Server 2004') *OR ( *VALUE KQB_EVENT_LOG.Event_ID *EQ 6913 *AND *VALUE
KQB_EVENT_LOG.Event_Source *EQ 'BizTalk Server 2009') *OR ( *VALUE
KQB_EVENT_LOG.Event_ID *EQ 6913 *AND *VALUE KQB_EVENT_LOG.Event_Source *EQ
'BizTalk Server'))
```

See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.
**Distribution**
This situation is automatically distributed to instances of this agent.
**Run at startup**
Yes
**Sampling interval**
None. Data is analyzed when it becomes available.
**Situation persistence**
Not Applicable
**Error conditions**
Critical
**Clearing conditions**
The situation does not clear automatically.

**KQB_FileAdptr_FolderAccessFail situation**
**Description**
The FILE adapter cannot access the folder. Not for BT2004.

The situation is evaluated for each distinct value of the LOGNAME attribute.
**Formula**

```
*IF ( ( *VALUE KQB_EVENT_LOG.Event_ID *EQ 7195 *AND *VALUE
KQB_EVENT_LOG.Event_Source *EQ 'BizTalk Server 2006') *OR ( *VALUE
KQB_EVENT_LOG.Event_ID *EQ 7195 *AND *VALUE KQB_EVENT_LOG.Event_Source *EQ
'BizTalk Server 2009'))
```

See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.
**Distribution**
This situation is automatically distributed to instances of this agent.
**Run at startup**
Yes
**Sampling interval**
None. Data is analyzed when it becomes available.
**Situation persistence**
Not Applicable

**Error conditions**
Critical
**Clearing conditions**
The situation does not clear automatically.

**KQB_FILESendAdptr_OpenFileFail situation**
**Description**
The FILE Send Adapter cannot open file for writing.

The situation is evaluated for each distinct value of the LOGNAME attribute.
**Formula**
```
*IF ( ( *VALUE KQB_EVENT_LOG.Event_ID *EQ 7184 *AND *VALUE
KQB_EVENT_LOG.Event_Source *EQ 'BizTalk Server 2006') *OR ( *VALUE
KQB_EVENT_LOG.Event_ID *EQ 7184 *AND *VALUE KQB_EVENT_LOG.Event_Source *EQ
'BizTalk Server 2004'))
```

See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.
**Distribution**
This situation is automatically distributed to instances of this agent.
**Run at startup**
Yes
**Sampling interval**
None. Data is analyzed when it becomes available.
**Situation persistence**
Not Applicable
**Error conditions**
Critical
**Clearing conditions**
The situation does not clear automatically.

**KQB_HostInstance_ConfigDB_Fail situation**
**Description**
Host Instance failed in BizTalk Configuration DB connection.

The situation is evaluated for each distinct value of the LOGNAME attribute.
**Formula**
```
*IF ( ( *VALUE KQB_EVENT_LOG.Event_ID *EQ 5439 *AND *VALUE
KQB_EVENT_LOG.Event_Source *EQ 'BizTalk Server 2006') *OR ( *VALUE
KQB_EVENT_LOG.Event_ID *EQ 5439 *AND *VALUE KQB_EVENT_LOG.Event_Source *EQ
'BizTalk Server 2004'))
```

See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.
**Distribution**
This situation is automatically distributed to instances of this agent.
**Run at startup**
Yes
**Sampling interval**
None. Data is analyzed when it becomes available.
**Situation persistence**
Not Applicable
**Error conditions**
Critical
**Clearing conditions**
The situation does not clear automatically.

**KQB_Host_Inst_Crashed situation**
**Description**
Failure occurred while executing a Windows service request.

The situation is evaluated for each distinct value of Event_Source.

**Formula**

```
*IF ( ( *VALUE KQB_EVENT_LOG.Event_ID *EQ 5410 *AND *VALUE
KQB_EVENT_LOG.Event_Type *EQ Error *AND *VALUE KQB_EVENT_LOG.Event_Source *EQ
'BizTalk Server 2006') *OR (*VALUE KQB_EVENT_LOG.Event_ID *EQ 5410 *AND *VALUE
KQB_EVENT_LOG.Event_Type *EQ Error *AND *VALUE KQB_EVENT_LOG.Event_Source *EQ
'BizTalk Server 2009') *OR (*VALUE KQB_EVENT_LOG.Event_ID *EQ 5410 *AND *VALUE
KQB_EVENT_LOG.Event_Type *EQ Error *AND *VALUE KQB_EVENT_LOG.Event_Source *EQ
'BizTalk Server'))
```

See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.

**Distribution**

This situation is automatically distributed to instances of this agent.

**Run at startup**

Yes

**Sampling interval**

None. Data is analyzed when it becomes available.

**Situation persistence**

Not Applicable

**Error conditions**

Critical

**Clearing conditions**

The situation does not clear automatically.

**KQB_HTTPSendAdaptr_ConnectFail situation**

**Description**

HTTP Send Adapter can't connect to remote server. Not for BT2004

The situation is evaluated for each distinct value of the LOGNAME attribute.

**Formula**

```
*IF *VALUE KQB_EVENT_LOG.Event_ID *EQ 7221 *AND *VALUE KQB_EVENT_LOG.Event_Source
*EQ 'BizTalk Server 2006'
```

See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.

**Distribution**

This situation is automatically distributed to instances of this agent.

**Run at startup**

Yes

**Sampling interval**

None. Data is analyzed when it becomes available.

**Situation persistence**

Not Applicable

**Error conditions**

Critical

**Clearing conditions**

The situation does not clear automatically.

**KQB_Inbound_Msg_Proc_Failure situation**

**Description**

An inbound message encountered a routing failure.

The situation is evaluated for each distinct value of the LOGNAME attribute.

**Formula**

```
*IF ( ( *VALUE KQB_EVENT_LOG.Event_ID *EQ 5778 *AND *VALUE
KQB_EVENT_LOG.Event_Source *EQ 'BizTalk Server 2006') *OR ( *VALUE
KQB_EVENT_LOG.Event_ID *EQ 5778 *AND *VALUE KQB_EVENT_LOG.Event_Source *EQ
'BizTalk Server 2004')*OR ( *VALUE KQB_EVENT_LOG.Event_ID *EQ 5778 *AND *VALUE
```

```
KQB_EVENT_LOG.Event_Source *EQ 'BizTalk Server 2009') *OR ( *VALUE
KQB_EVENT_LOG.Event_ID *EQ 5778 *AND *VALUE KQB_EVENT_LOG.Event_Source *EQ
'BizTalk Server'))
```

See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.

**Distribution**
This situation is automatically distributed to instances of this agent.

**Run at startup**
Yes

**Sampling interval**
None. Data is analyzed when it becomes available.

**Situation persistence**
Not Applicable

**Error conditions**
Warning

**Clearing conditions**
The situation does not clear automatically.

**KQB_Invalid_FileRecieveLoc situation**

**Description**
The file receive location is not valid.

The situation is evaluated for each distinct value of the LOGNAME attribute.

**Formula**

```
*IF ( ( *VALUE KQB_EVENT_LOG.Event_ID *EQ 7176 *AND *VALUE
KQB_EVENT_LOG.Event_Source *EQ 'BizTalk Server 2006') *OR ( *VALUE
KQB_EVENT_LOG.Event_ID *EQ 7176 *AND *VALUE KQB_EVENT_LOG.Event_Source *EQ
'BizTalk Server 2004') *OR ( *VALUE KQB_EVENT_LOG.Event_ID *EQ 7176 *AND *VALUE
KQB_EVENT_LOG.Event_Source *EQ 'BizTalk Server 2009'))
```

See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.

**Distribution**
This situation is automatically distributed to instances of this agent.

**Run at startup**
Yes

**Sampling interval**
None. Data is analyzed when it becomes available.

**Situation persistence**
Not Applicable

**Error conditions**
Warning

**Clearing conditions**
The situation does not clear automatically.

**KQB_Invalid_Receive_Loc_Config situation**

**Description**
A Receive Location is invalid or incorrectly configured

The situation is evaluated for each distinct value of the LOGNAME attribute.

**Formula**

```
*IF ( ( *VALUE KQB_EVENT_LOG.Event_ID *EQ 5734 *AND *VALUE
KQB_EVENT_LOG.Event_Source *EQ 'BizTalk Server 2006') *OR ( *VALUE
KQB_EVENT_LOG.Event_ID *EQ 5734 *AND *VALUE KQB_EVENT_LOG.Event_Source *EQ
'BizTalk Server 2004'))
```

See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.

**Distribution**
This situation is automatically distributed to instances of this agent.
**Run at startup**
Yes
**Sampling interval**
None. Data is analyzed when it becomes available.
**Situation persistence**
Not Applicable
**Error conditions**
Critical
**Clearing conditions**
The situation does not clear automatically.

**KQB_MsgEngineFailToGetConfigDB situation**
**Description**
Messaging engine failed to retrieve data from the SSO database.

The situation is evaluated for each distinct value of the LOGNAME attribute.
**Formula**
```
*IF ( ( *VALUE KQB_EVENT_LOG.Event_ID *EQ 5641 *AND *VALUE
KQB_EVENT_LOG.Event_Source *EQ 'BizTalk Server 2006') *OR ( *VALUE
KQB_EVENT_LOG.Event_ID *EQ 5641 *AND *VALUE KQB_EVENT_LOG.Event_Source *EQ
'BizTalk Server 2004'))
```
See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.
**Distribution**
This situation is automatically distributed to instances of this agent.
**Run at startup**
Yes
**Sampling interval**
None. Data is analyzed when it becomes available.
**Situation persistence**
Not Applicable
**Error conditions**
Critical
**Clearing conditions**
The situation does not clear automatically.

**KQB_MsgEngine_FailToAddRecvLoc situation**
**Description**
The Messaging Engine failed to add receive location.

The situation is evaluated for each distinct value of the LOGNAME attribute.
**Formula**
```
*IF ( ( *VALUE KQB_EVENT_LOG.Event_ID *EQ 5644 *AND *VALUE
KQB_EVENT_LOG.Event_Source *EQ 'BizTalk Server 2006') *OR ( *VALUE
KQB_EVENT_LOG.Event_ID *EQ 5644 *AND *VALUE KQB_EVENT_LOG.Event_Source *EQ
'BizTalk Server 2004') *OR ( *VALUE KQB_EVENT_LOG.Event_ID *EQ 5644 *AND *VALUE
KQB_EVENT_LOG.Event_Source *EQ 'BizTalk Server 2009'))
```
See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.
**Distribution**
This situation is automatically distributed to instances of this agent.
**Run at startup**
Yes
**Sampling interval**
None. Data is analyzed when it becomes available.

**Situation persistence**
Not Applicable
**Error conditions**
Critical
**Clearing conditions**
The situation does not clear automatically.

**KQB_MsgEngine_FailToInit situation**
**Description**
The messaging engine failed to register an adapter.

The situation is evaluated for each distinct value of the LOGNAME attribute.
**Formula**
```
*IF ( ( *VALUE KQB_EVENT_LOG.Event_ID *EQ 5632 *AND *VALUE
KQB_EVENT_LOG.Event_Source *EQ 'BizTalk Server 2006') *OR ( *VALUE
KQB_EVENT_LOG.Event_ID *EQ 5632 *AND *VALUE KQB_EVENT_LOG.Event_Source *EQ
'BizTalk Server 2004'))
```
See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.
**Distribution**
This situation is automatically distributed to instances of this agent.
**Run at startup**
Yes
**Sampling interval**
None. Data is analyzed when it becomes available.
**Situation persistence**
Not Applicable
**Error conditions**
Warning
**Clearing conditions**
The situation does not clear automatically.

**KQB_MsgEngine_FailToRegAdptr situation**
**Description**
The messaging engine failed to initialize.

The situation is evaluated for each distinct value of the LOGNAME attribute.
**Formula**
```
*IF ( ( *VALUE KQB_EVENT_LOG.Event_ID *EQ 5787 *AND *VALUE
KQB_EVENT_LOG.Event_Source *EQ 'BizTalk Server 2006') *OR ( *VALUE
KQB_EVENT_LOG.Event_ID *EQ 5787 *AND *VALUE KQB_EVENT_LOG.Event_Source *EQ
'BizTalk Server 2004'))
```
See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.
**Distribution**
This situation is automatically distributed to instances of this agent.
**Run at startup**
Yes
**Sampling interval**
None. Data is analyzed when it becomes available.
**Situation persistence**
Not Applicable
**Error conditions**
Warning
**Clearing conditions**
The situation does not clear automatically.

**KQB_MsgEngine_SSOSrverConnFail situation**

**Description**
The messaging engine cannot contact the SSO Server.

The situation is evaluated for each distinct value of the LOGNAME attribute.

**Formula**

```
*IF ( ( *VALUE KQB_EVENT_LOG.Event_ID *EQ 5777 *AND *VALUE
KQB_EVENT_LOG.Event_Source *EQ 'BizTalk Server 2006') *OR ( *VALUE
KQB_EVENT_LOG.Event_ID *EQ 5777 *AND *VALUE KQB_EVENT_LOG.Event_Source *EQ
'BizTalk Server 2004'))
```

See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.

**Distribution**
This situation is automatically distributed to instances of this agent.

**Run at startup**
Yes

**Sampling interval**
None. Data is analyzed when it becomes available.

**Situation persistence**
Not Applicable

**Error conditions**
Warning

**Clearing conditions**
The situation does not clear automatically.

**KQB_Msg_Resp_WithoutReq situation**

**Description**
The messaging engine has suspended a message.

The situation is evaluated for each distinct value of the LOGNAME attribute.

**Formula**

```
*IF ( ( *VALUE KQB_EVENT_LOG.Event_ID *EQ 5813 *AND *VALUE
KQB_EVENT_LOG.Event_Source *EQ 'BizTalk Server 2006') *OR ( *VALUE
KQB_EVENT_LOG.Event_ID *EQ 5813 *AND *VALUE KQB_EVENT_LOG.Event_Source *EQ
'BizTalk Server 2009'))
```

See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.

**Distribution**
This situation is automatically distributed to instances of this agent.

**Run at startup**
Yes

**Sampling interval**
None. Data is analyzed when it becomes available.

**Situation persistence**
Not Applicable

**Error conditions**
Critical

**Clearing conditions**
The situation does not clear automatically.

**KQB_MSMQTSubserviceFail situation**

**Description**
MSMQT service failed to start because of Windows MSMQ service.

The situation is evaluated for each distinct value of the LOGNAME attribute.

**Formula**

```
*IF ( ( *VALUE KQB_EVENT_LOG.Event_ID *EQ 7425 *AND *VALUE
```

```
KQB_EVENT_LOG.Event_Source *EQ 'BizTalk Server 2006') *OR ( *VALUE
KQB_EVENT_LOG.Event_ID *EQ 7425 *AND *VALUE KQB_EVENT_LOG.Event_Source *EQ
'BizTalk Server 2004'))
```

See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.

**Distribution**
This situation is automatically distributed to instances of this agent.

**Run at startup**
Yes

**Sampling interval**
None. Data is analyzed when it becomes available.

**Situation persistence**
Not Applicable

**Error conditions**
Warning

**Clearing conditions**
The situation does not clear automatically.

**KQB_POP3_Authentication_Fail situation**

**Description**
POP3 adapter could not authenticate server for credentials.

The situation is evaluated for each distinct value of the LOGNAME attribute.

**Formula**

```
*IF *VALUE KQB_EVENT_LOG.Event_ID *EQ 6528 *AND *VALUE KQB_EVENT_LOG.Event_Source
*EQ 'BizTalk Server 2006'
```

See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.

**Distribution**
This situation is automatically distributed to instances of this agent.

**Run at startup**
Yes

**Sampling interval**
None. Data is analyzed when it becomes available.

**Situation persistence**
Not Applicable

**Error conditions**
Critical

**Clearing conditions**
The situation does not clear automatically.

**KQB_POP3_ServerConnection_Fail situation**

**Description**
POP3 adapter could not establish connection with POP3 server.

The situation is evaluated for each distinct value of the LOGNAME attribute.

**Formula**

```
*IF *VALUE KQB_EVENT_LOG.Event_ID *EQ 6535 *AND *VALUE KQB_EVENT_LOG.Event_Source
*EQ 'BizTalk Server 2006'
```

See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.

**Distribution**
This situation is automatically distributed to instances of this agent.

**Run at startup**
Yes

**Sampling interval**
None. Data is analyzed when it becomes available.

**Situation persistence**
Not Applicable
**Error conditions**
Critical
**Clearing conditions**
The situation does not clear automatically.

**KQB_ReceiveLoc_ShutDown situation**
**Description**
The receive location is being shut down.

The situation is evaluated for each distinct value of the LOGNAME attribute.
**Formula**
```
*IF ( ( *VALUE KQB_EVENT_LOG.Event_ID *EQ 5649 *AND *VALUE
KQB_EVENT_LOG.Event_Source *EQ 'BizTalk Server 2006') *OR ( *VALUE
KQB_EVENT_LOG.Event_ID *EQ 5649 *AND *VALUE KQB_EVENT_LOG.Event_Source *EQ
'BizTalk Server 2004') *OR ( *VALUE KQB_EVENT_LOG.Event_ID *EQ 5649 *AND *VALUE
KQB_EVENT_LOG.Event_Source *EQ 'BizTalk Server 2009'))
```
See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.
**Distribution**
This situation is automatically distributed to instances of this agent.
**Run at startup**
Yes
**Sampling interval**
None. Data is analyzed when it becomes available.
**Situation persistence**
Not Applicable
**Error conditions**
Warning
**Clearing conditions**
The situation does not clear automatically.

**KQB_RecvFileAttr situation**
**Description**
The processed file is either a read-only file or a system file.

The situation is evaluated for each distinct value of the LOGNAME attribute.
**Formula**
```
*IF ( ( *VALUE KQB_EVENT_LOG.Event_ID *EQ 7175 *AND *VALUE
KQB_EVENT_LOG.Event_Source *EQ 'BizTalk Server 2006') *OR ( *VALUE
KQB_EVENT_LOG.Event_ID *EQ 7175 *AND *VALUE KQB_EVENT_LOG.Event_Source *EQ
'BizTalk Server 2004') *OR ( *VALUE KQB_EVENT_LOG.Event_ID *EQ 7175 *AND *VALUE
KQB_EVENT_LOG.Event_Source *EQ 'BizTalk Server 2009'))
```
See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.
**Distribution**
This situation is automatically distributed to instances of this agent.
**Run at startup**
Yes
**Sampling interval**
None. Data is analyzed when it becomes available.
**Situation persistence**
Not Applicable
**Error conditions**
Warning
**Clearing conditions**
The situation does not clear automatically.

**KQB_RecvLoc_Disabled situation**

**Description**

Receive locations disabled as MsgBox or Config DB not available.

The situation is evaluated for each distinct value of the LOGNAME attribute.

**Formula**

```
*IF ( ( *VALUE KQB_EVENT_LOG.Event_ID *EQ 5773 *AND *VALUE
KQB_EVENT_LOG.Event_Source *EQ 'BizTalk Server 2006') *OR ( *VALUE
KQB_EVENT_LOG.Event_ID *EQ 5773 *AND *VALUE KQB_EVENT_LOG.Event_Source *EQ
'BizTalk Server 2004') *OR ( *VALUE KQB_EVENT_LOG.Event_ID *EQ 5773 *AND *VALUE
KQB_EVENT_LOG.Event_Source *EQ 'BizTalk Server 2009') *OR ( *VALUE
KQB_EVENT_LOG.Event_ID *EQ 5773 *AND *VALUE KQB_EVENT_LOG.Event_Source *EQ
'BizTalk Server'))
```

See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.

**Distribution**

This situation is automatically distributed to instances of this agent.

**Run at startup**

Yes

**Sampling interval**

None. Data is analyzed when it becomes available.

**Situation persistence**

Not Applicable

**Error conditions**

Warning

**Clearing conditions**

The situation does not clear automatically.

**KQB_RFID_DeviceName_Conflict situation**

**Description**

The physical device name does not match the logical device name.

The situation is evaluated for each distinct value of the LOGNAME attribute.

**Formula**

```
*IF ( *VALUE KQB_EVENT_LOG.Event_ID *EQ 1020  *AND *VALUE
KQB_EVENT_LOG.Event_Source *EQ 'MSBizTalkRFID')
```

See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.

**Distribution**

This situation is automatically distributed to instances of this agent.

**Run at startup**

Yes

**Sampling interval**

None. Data is analyzed when it becomes available.

**Situation persistence**

Not Applicable

**Error conditions**

Warning

**Clearing conditions**

The situation does not clear automatically.

**KQB_RFID_Device_Conn_Fail situation**

**Description**

RFID device failed to connect to the server.

The situation is evaluated for each distinct value of the LOGNAME attribute.

**Formula**

```
*IF ( *VALUE KQB_EVENT_LOG.Event_ID *EQ 1013 *AND *VALUE
KQB_EVENT_LOG.Event_Source *EQ 'MSBizTalkRFID')
```

See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.

**Distribution**
This situation is automatically distributed to instances of this agent.

**Run at startup**
Yes

**Sampling interval**
None. Data is analyzed when it becomes available.

**Situation persistence**
Not Applicable

**Error conditions**
Warning

**Clearing conditions**
The situation does not clear automatically.

**KQB_RFID_Device_Disabled situation**

**Description**
The RFID device is in the disabled state.

The situation is evaluated for each distinct value of the LOGNAME attribute.

**Formula**

```
*IF ( *VALUE KQB_EVENT_LOG.Event_ID *EQ 1014 *AND *VALUE
KQB_EVENT_LOG.Event_Source *EQ 'MSBizTalkRFID')
```

See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.

**Distribution**
This situation is automatically distributed to instances of this agent.

**Run at startup**
Yes

**Sampling interval**
None. Data is analyzed when it becomes available.

**Situation persistence**
Not Applicable

**Error conditions**
Warning

**Clearing conditions**
The situation does not clear automatically.

**KQB_RFID_Dev_StateSave_Fail situation**

**Description**
RFID process is unable to connect to the RFID logical device.

The situation is evaluated for each distinct value of the LOGNAME attribute.

**Formula**

```
*IF ( *VALUE KQB_EVENT_LOG.Event_ID *EQ 1000 *AND *VALUE
KQB_EVENT_LOG.Event_Source *EQ 'MSBizTalkRFID')
```

See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.

**Distribution**
This situation is automatically distributed to instances of this agent.

**Run at startup**
Yes

**Sampling interval**
None. Data is analyzed when it becomes available.

**Situation persistence**
Not Applicable
**Error conditions**
Warning
**Clearing conditions**
The situation does not clear automatically.

**KQB_RFID_InsufPrivil_On_Dev situation**
**Description**
The user has insufficient privileges for the RFID device.

The situation is evaluated for each distinct value of the LOGNAME attribute.
**Formula**
```
*IF ( *VALUE KQB_EVENT_LOG.Event_ID *EQ 1032 *AND *VALUE
KQB_EVENT_LOG.Event_Source *EQ 'MSBizTalkRFID')
```

See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.
**Distribution**
This situation is automatically distributed to instances of this agent.
**Run at startup**
Yes
**Sampling interval**
None. Data is analyzed when it becomes available.
**Situation persistence**
Not Applicable
**Error conditions**
Critical
**Clearing conditions**
The situation does not clear automatically.

**KQB_RFID_ProcessEngine_Fatal situation**
**Description**
Microsoft BizTalk RFID process engine restarts automatically.

The situation is evaluated for each distinct value of the LOGNAME attribute.
**Formula**
```
*IF ( *VALUE KQB_EVENT_LOG.Event_ID *EQ 3007 *AND *VALUE
KQB_EVENT_LOG.Event_Source *EQ 'MSBizTalkRFID')
```

See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.
**Distribution**
This situation is automatically distributed to instances of this agent.
**Run at startup**
Yes
**Sampling interval**
None. Data is analyzed when it becomes available.
**Situation persistence**
Not Applicable
**Error conditions**
Warning
**Clearing conditions**
The situation does not clear automatically.

**KQB_RFID_ProcessEng_MaxRestart situation**
**Description**
Microsoft BizTalk RFID process restarts for maximum times.

The situation is evaluated for each distinct value of the LOGNAME attribute.

**Formula**

```
*IF ( *VALUE KQB_EVENT_LOG.Event_ID *EQ 3014 *AND *VALUE
KQB_EVENT_LOG.Event_Source *EQ 'MSBizTalkRFID')
```

See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.

**Distribution**
This situation is automatically distributed to instances of this agent.

**Run at startup**
Yes

**Sampling interval**
None. Data is analyzed when it becomes available.

**Situation persistence**
Not Applicable

**Error conditions**
Critical

**Clearing conditions**
The situation does not clear automatically.

**KQB_RFID_Service_Auth_Fail situation**

**Description**
The Microsoft BizTalk RFID Service failed to authorize the user.

The situation is evaluated for each distinct value of the LOGNAME attribute.

**Formula**

```
*IF ( *VALUE KQB_EVENT_LOG.Event_ID *EQ 667 *AND *VALUE
KQB_EVENT_LOG.Event_Source *EQ 'MSBizTalkRFID')
```

See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.

**Distribution**
This situation is automatically distributed to instances of this agent.

**Run at startup**
Yes

**Sampling interval**
None. Data is analyzed when it becomes available.

**Situation persistence**
Not Applicable

**Error conditions**
Critical

**Clearing conditions**
The situation does not clear automatically.

**KQB_RFID_Service_StartUpFail situation**

**Description**
The Microsoft BizTalk RFID Service failed to start.

The situation is evaluated for each distinct value of the LOGNAME attribute.

**Formula**

```
*IF ( *VALUE KQB_EVENT_LOG.Event_ID *EQ 1500 *AND *VALUE
KQB_EVENT_LOG.Event_Source *EQ 'MSBizTalkRFID')
```

See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.

**Distribution**
This situation is automatically distributed to instances of this agent.

**Run at startup**
Yes

**Sampling interval**
None. Data is analyzed when it becomes available.

**Situation persistence**
Not Applicable
**Error conditions**
Critical
**Clearing conditions**
The situation does not clear automatically.

**KQB_SendPipeline_ExecutionFail situation**
**Description**
Execution of Send Pipeline failed.

The situation is evaluated for each distinct value of the LOGNAME attribute.
**Formula**

```
*IF ( ( *VALUE KQB_EVENT_LOG.Event_ID *EQ 5720 *AND *VALUE
KQB_EVENT_LOG.Event_Source *EQ 'BizTalk Server 2006') *OR ( *VALUE
KQB_EVENT_LOG.Event_ID *EQ 5720 *AND *VALUE KQB_EVENT_LOG.Event_Source *EQ
'BizTalk Server 2004') *OR ( *VALUE KQB_EVENT_LOG.Event_ID *EQ 5720 *AND *VALUE
KQB_EVENT_LOG.Event_Source *EQ 'BizTalk Server 2009') *OR ( *VALUE
KQB_EVENT_LOG.Event_ID *EQ 5720 *AND *VALUE KQB_EVENT_LOG.Event_Source *EQ
'BizTalk Server'))
```

See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.
**Distribution**
This situation is automatically distributed to instances of this agent.
**Run at startup**
Yes
**Sampling interval**
None. Data is analyzed when it becomes available.
**Situation persistence**
Not Applicable
**Error conditions**
Critical
**Clearing conditions**
The situation does not clear automatically.

**KQB_Stored_ProcCall_Failure situation**
**Description**
A stored procedure call failed.

The situation is evaluated for each distinct value of the LOGNAME attribute.
**Formula**

```
*IF ( ( *VALUE KQB_EVENT_LOG.Event_ID *EQ 6912 *AND *VALUE
KQB_EVENT_LOG.Event_Source *EQ 'BizTalk Server 2006') *OR ( *VALUE
KQB_EVENT_LOG.Event_ID *EQ 6912 *AND *VALUE KQB_EVENT_LOG.Event_Source *EQ
'BizTalk Server 2004') *OR ( *VALUE KQB_EVENT_LOG.Event_ID *EQ 6912 *AND *VALUE
KQB_EVENT_LOG.Event_Source *EQ 'BizTalk Server 2009') *OR ( *VALUE
KQB_EVENT_LOG.Event_ID *EQ 6912 *AND *VALUE KQB_EVENT_LOG.Event_Source *EQ
'BizTalk Server'))
```

See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.
**Distribution**
This situation is automatically distributed to instances of this agent.
**Run at startup**
Yes
**Sampling interval**
None. Data is analyzed when it becomes available.
**Situation persistence**
Not Applicable

**Error conditions**
Warning
**Clearing conditions**
The situation does not clear automatically.

## Host Throttling navigator item

The situation descriptions are organized by the navigator item to which the situations are relevant.

**KQB_HT_High_Database_Session situation**

**Description**
Database session count exceeds current threshold. Not for BT2004

The situation is evaluated for each distinct value of the NAME attribute.

**Formula**

```
*IF *VALUE KQB_HOST_THROTTLING.High_Database_Session *EQ 1 *OR *VALUE
KQB_HOST_THROTTLING.Message_Publishing_Throttling_State *EQ 8
```

See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.

**Distribution**
This situation is available for distribution.
**Run at startup**
No
**Sampling interval**
5 minutes
**Situation persistence**
The number of times the conditions of the situation must occur for the situation to be true is 1.
**Error conditions**
Critical
**Clearing conditions**
The situation clears when the condition becomes false.

**KQB_HT_High_Database_Size situation**

**Description**
Database size count exceeds current threshold. Not for BT2004.

The situation is evaluated for each distinct value of the NAME attribute.

**Formula**

```
*IF *VALUE KQB_HOST_THROTTLING.High_Database_Size *EQ 1 *OR *VALUE
KQB_HOST_THROTTLING.Message_Publishing_Throttling_State *EQ 6
```

See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.

**Distribution**
This situation is available for distribution.
**Run at startup**
No
**Sampling interval**
5 minutes
**Situation persistence**
The number of times the conditions of the situation must occur for the situation to be true is 1.
**Error conditions**
Critical
**Clearing conditions**
The situation clears when the condition becomes false.

**KQB_HT_High_InProcMessageCount situation**

**Description**

InProcess msg count exceeds current threshold. Not for BT2004.

The situation is evaluated for each distinct value of the NAME attribute.

**Formula**

```
*IF *VALUE KQB_HOST_THROTTLING.High_In_Process_Message_Count *EQ 1 *OR *VALUE
KQB_HOST_THROTTLING.Message_Delivery_Throttling_State *EQ 3
```

See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

5 minutes

**Situation persistence**

The number of times the conditions of the situation must occur for the situation to be true is 1.

**Error conditions**

Critical

**Clearing conditions**

The situation clears when the condition becomes false.

**KQB_HT_High_MsgDelivery_Rate situation**

**Description**

Msg delivery rate exceeds msg processing Rate. Not for BT2004.

The situation is evaluated for each distinct value of the NAME attribute.

**Formula**

```
*IF *VALUE KQB_HOST_THROTTLING.High_Message_Delivery_Rate *EQ 1 *OR *VALUE
KQB_HOST_THROTTLING.Message_Delivery_Throttling_State *EQ 1
```

See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

5 minutes

**Situation persistence**

The number of times the conditions of the situation must occur for the situation to be true is 1.

**Error conditions**

Critical

**Clearing conditions**

The situation clears when the condition becomes false.

**KQB_HT_High_MsgPublishing_Rate situation**

**Description**

Publishing request rate exceeds completion rate. Not for BT2004.

The situation is evaluated for each distinct value of the NAME attribute.

**Formula**

```
*IF *VALUE KQB_HOST_THROTTLING.High_Message_Publishing_Rate *EQ 1 *OR *VALUE
KQB_HOST_THROTTLING.Message_Publishing_Throttling_State *EQ 2
```

See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.

**Distribution**
This situation is available for distribution.
**Run at startup**
No
**Sampling interval**
5 minutes
**Situation persistence**
The number of times the conditions of the situation must occur for the situation to be true is 1.
**Error conditions**
Critical
**Clearing conditions**
The situation clears when the condition becomes false.

**KQB_HT_High_Process_Memory situation**
**Description**
Process memory exceeds threshold. Not for BT2004.

The situation is evaluated for each distinct value of the NAME attribute.
**Formula**

```
*IF *VALUE KQB_HOST_THROTTLING.High_Process_Memory *EQ 1 *OR *VALUE
KQB_HOST_THROTTLING.Message_Delivery_Throttling_State *EQ 4 *OR *VALUE
KQB_HOST_THROTTLING.Message_Publishing_Throttling_State *EQ 4
```

See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.
**Distribution**
This situation is available for distribution.
**Run at startup**
No
**Sampling interval**
5 minutes
**Situation persistence**
The number of times the conditions of the situation must occur for the situation to be true is 1.
**Error conditions**
Critical
**Clearing conditions**
The situation clears when the condition becomes false.

**KQB_HT_High_System_Memory situation**
**Description**
System memory exceeds threshold. Not for BT2004.

The situation is evaluated for each distinct value of the NAME attribute.
**Formula**

```
*IF *VALUE KQB_HOST_THROTTLING.High_System_Memory *EQ 1 *OR *VALUE
KQB_HOST_THROTTLING.Message_Delivery_Throttling_State *EQ 5 *OR *VALUE
KQB_HOST_THROTTLING.Message_Publishing_Throttling_State *EQ 5
```

See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.
**Distribution**
This situation is available for distribution.
**Run at startup**
No
**Sampling interval**
5 minutes

**Situation persistence**
The number of times the conditions of the situation must occur for the situation to be true is 1.
**Error conditions**
Critical
**Clearing conditions**
The situation clears when the condition becomes false.

**KQB_HT_High_Thread_Count situation**
**Description**
Thread count exceeds current threshold. Not for BT2004.

The situation is evaluated for each distinct value of the NAME attribute.
**Formula**
```
*IF *VALUE KQB_HOST_THROTTLING.High_Thread_Count *EQ 1 *OR *VALUE
KQB_HOST_THROTTLING.Message_Delivery_Throttling_State *EQ 9 *OR *VALUE
KQB_HOST_THROTTLING.Message_Publishing_Throttling_State *EQ 9
```
See "Attributes in each attribute group" on page 23 for descriptions of the attributes in this formula.
**Distribution**
This situation is available for distribution.
**Run at startup**
No
**Sampling interval**
5 minutes
**Situation persistence**
The number of times the conditions of the situation must occur for the situation to be true is 1.
**Error conditions**
Critical
**Clearing conditions**
The situation clears when the condition becomes false.

## Human Workflow Services navigator item
No predefined situations are included for this navigator item.

## MessageBox navigator item
No predefined situations are included for this navigator item.

## Messaging navigator item
No predefined situations are included for this navigator item.

## Orchestrations navigator item
No predefined situations are included for this navigator item.

## RFID navigator item
No predefined situations are included for this navigator item.

## TDDS navigator item
No predefined situations are included for this navigator item.

# Chapter 4. Take Action commands

Take Action commands can be run from the portal client or included in a situation or a policy.

## About Take Action commands

When included in a situation, the command runs when the situation becomes true. A Take Action command in a situation is also referred to as *reflex automation*. When you enable a Take Action command in a situation, you automate a response to system conditions. For example, you can use a Take Action command to send a command to restart a process on the managed system or to send a text message to a cell phone.

In advanced automation, policies are used to take actions, schedule work, and automate manual tasks. A policy comprises a series of automated steps called activities that are connected to create a workflow. After an activity is completed, the Tivoli Enterprise Portal receives return-code feedback, and advanced automation logic responds with subsequent activities that are prescribed by the feedback.

A basic Take Action command shows the return code of the operation in a message box that is displayed after the action is completed or in a log file. After you close this window, no further information is available for this action.

## Additional information about Take Action commands

For more information about working with Take Action commands, see "Take Action commands" in the *Tivoli Enterprise Portal User's Guide*.

For a list of the Take Action commands for this monitoring agent and a description of each command, see "Predefined Take Action commands" and the information for each individual command.

# Predefined Take Action commands

Not all agents have predefined Take Action commands. But you can create Take Action commands for any agent.

This monitoring agent contains the following Take Action commands:

- Disable Receive Location
- Enable Receive Location
- Enlist Orchestration
- Enlist Send Port
- Enlist Send Port Group
- Start BizTalk Base EDI Service
- Start BizTalk SharePoint Messaging Adapter Service
- Start Enterprise Single Sign-On Service
- Start Host Instance Service
- Start Microsoft BizTalk RFID Service
- Start Orchestration
- Start Rule Engine Update Service
- Start Send Port
- Start Send Port Group

- Stop BizTalk Base EDI Service
- Stop BizTalk SharePoint Messaging Adapter Service
- Stop Enterprise Single Sign-On Service
- Stop Host Instance Service
- Stop Microsoft BizTalk RFID Service
- Stop Orchestration
- Stop Rule Engine Update Service
- Stop Send Port Group
- Unenlist Orchestration
- Unenlist Send Port
- Unenlist Send Port Group

## Take Action command descriptions

Each Take Action command description provides information you can use to decide whether to run the Take Action command or whether to include the Take Action command in a situation or a policy.

The descriptions of the Take Action commands provide the following information:

**Description**
Actions the command performs on the system to which it is sent, and the permissions required for the Take Action command to function.

**Return codes**
Information that the Take Action command returns.

## Disable Receive Location action

Disables receive location selected by the user. If take action timeout error occurs, increase the timeout interval by setting environment variable CDP_DP_ACTION_TIMEOUT. The default interval is 20 seconds.

**System command**
To include the Take Action command in a situation or workflow policy, use the following syntax for the system command:

```
DISABLE_RECEIVE_LOCATION \

   [KQB_RECEIVE_LOCATION_STATUS.Name]
```

You can use attribute substitution to supply the Take Action command arguments from the situation, for example:

```
DISABLE_RECEIVE_LOCATION \

[&{KQB_RECEIVE_LOCATION_STATUS.Name}]
```

You can also use attribute substitution in a workflow policy though the format is slightly different:

```
DISABLE_RECEIVE_LOCATION \

[&WaitOnSituation:KQB_RECEIVE_LOCATION_STATUS.Name]
```

**Authorization**
User must be a member of Administrators group.

**Command arguments**
- **Name:** KQB_RECEIVE_LOCATION_STATUS.Name
  - **Description:** Receive Location
  - **Default:** KQB_RECEIVE_LOCATION_STATUS.Name

**Return codes**

- Return Code: 8
  - Return Code Type: TIMED_OUT
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB1003
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 0
  - Return Code Type: OK
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4100I
  - Message: The Receive Location is disabled.
- Return Code: 2
  - Return Code Type: GENERAL_ERROR
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4101E
  - Message: An error occurred while disabling the Receive Location. Check the BizTalk Server Administration Console.
- Return Code: 1
  - Return Code Type: NOT_APPLICABLE
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4102E
  - Message: The Receive Location name is not provided.
- Return Code: 6
  - Return Code Type: ALREADY_RUNNING
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4103E
  - Message: The Receive Location is already disabled.
- Return Code: 9
  - Return Code Type: DOESNT_EXIST
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4104E
  - Message: The Receive Location does not exist.
- Return Code: 12
  - Return Code Type: INSUFFICIENT_USER_AUTHORITY
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4105E
  - Message: The Receive Location did not disable because of a logon failure.

**Usage** None.

## Enable Receive Location action

Enables receive location selected by the user. If take action timeout error occurs, increase the timeout interval by setting environment variable CDP_DP_ACTION_TIMEOUT. The default interval is 20 seconds.

**System command**

To include the Take Action command in a situation or workflow policy, use the following syntax for the system command:

```
ENABLE_RECEIVE_LOCATION \

   [KQB_RECEIVE_LOCATION_STATUS.Name]
```

You can use attribute substitution to supply the Take Action command arguments from the situation, for example:

```
ENABLE_RECEIVE_LOCATION \

[&{KQB_RECEIVE_LOCATION_STATUS.Name}]
```

You can also use attribute substitution in a workflow policy though the format is slightly different:

```
ENABLE_RECEIVE_LOCATION \

[&WaitOnSituation:KQB_RECEIVE_LOCATION_STATUS.Name]
```

**Authorization**

User must be a member of Administrators group.

**Command arguments**

- **Name:** KQB_RECEIVE_LOCATION_STATUS.Name
  - **Description:** Receive Location
  - **Default:** KQB_RECEIVE_LOCATION_STATUS.Name

**Return codes**

- Return Code: 1
  - Return Code Type: NOT_APPLICABLE
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB1001
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 8
  - Return Code Type: TIMED_OUT
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB1003
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 12
  - Return Code Type: INSUFFICIENT_USER_AUTHORITY
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB1004
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 0
  - Return Code Type: OK
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4043I
  - Message: Receive Location is enabled.
- Return Code: 2
  - Return Code Type: GENERAL_ERROR
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4044E
  - Message: Error enabling the Receive Location. Check whether the Receive Location is already enabled. If not, check the BizTalk Server administration console to ensure all the dependent settings are enabled.

**Usage** None.

## Enlist Orchestration action

Enlists the orchestration that is selected by the user. If Take Action timeout error occurs, increase the timeout interval by setting the CDP_DP_ACTION_TIMEOUT environment variable. The default interval is 20 seconds.

**System command**

To include the Take Action command in a situation or workflow policy, use the following syntax for the system command:

```
ENLIST_ORCHESTRATION \

   [KQB_ORCHESTRATION_STATUS.Orchestration_Name]
```

You can use attribute substitution to supply the Take Action command arguments from the situation, for example:

```
ENLIST_ORCHESTRATION \

[&{KQB_ORCHESTRATION_STATUS.Orchestration_Name}]
```

You can also use attribute substitution in a workflow policy though the format is slightly different:

```
ENLIST_ORCHESTRATION \

[&WaitOnSituation:KQB_ORCHESTRATION_STATUS.Orchestration_Name]
```

**Authorization**

User must be a member of Administrators group.

**Command arguments**

- **Name:** KQB_ORCHESTRATION_STATUS.Orchestration_Name
  - **Description:** Orchestration
  - **Default:** KQB_ORCHESTRATION_STATUS.Orchestration_Name

**Return codes**

- Return Code: 8
  - Return Code Type: TIMED_OUT
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB1003
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 1
  - Return Code Type: NOT_APPLICABLE
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4059E
  - Message: The orchestration name is not provided.
- Return Code: 9
  - Return Code Type: DOESNT_EXIST
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4062E
  - Message: The orchestration does not exist.
- Return Code: 0
  - Return Code Type: OK
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4085I
  - Message: The orchestration is enlisted.
- Return Code: 2
  - Return Code Type: GENERAL_ERROR
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4086E
  - Message: An error occurred while enlisting the orchestration. Check the BizTalk Server Administration Console.
- Return Code: 6
  - Return Code Type: ALREADY_RUNNING
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4087E
  - Message: The orchestration is already enlisted.
- Return Code: 7
  - Return Code Type: PREREQ_NOT_RUNNING
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4088E
  - Message: Could not enlist the orchestration because the state of the orchestration is unbound.
- Return Code: 12
  - Return Code Type: INSUFFICIENT_USER_AUTHORITY
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4089E

– Message: The orchestration did not enlist because of a logon failure.

**Usage** None.

## Enlist Send Port action

Enlists the send port that is selected by the user. If Take Action timeout error occurs, increase the timeout interval by setting the CDP_DP_ACTION_TIMEOUT environment variable. The default interval is 20 seconds.

**System command**

To include the Take Action command in a situation or workflow policy, use the following syntax for the system command:

```
ENLIST_SEND_PORT \

   [KQB_SEND_PORT_STATUS.Send_Port_Name]
```

You can use attribute substitution to supply the Take Action command arguments from the situation, for example:

```
ENLIST_SEND_PORT \

[&{KQB_SEND_PORT_STATUS.Send_Port_Name}]
```

You can also use attribute substitution in a workflow policy though the format is slightly different:

```
ENLIST_SEND_PORT \

[&WaitOnSituation:KQB_SEND_PORT_STATUS.Send_Port_Name]
```

**Authorization**

User must be a member of Administrators group.

**Command arguments**

- **Name:** KQB_SEND_PORT_STATUS.Send_Port_Name
  - **Description:** Send port
  - **Default:** KQB_SEND_PORT_STATUS.Send_Port_Name

**Return codes**

- Return Code: 8
  - Return Code Type: TIMED_OUT
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB1003
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 1
  - Return Code Type: NOT_APPLICABLE
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4064E
  - Message: The send port name is not provided.
- Return Code: 9
  - Return Code Type: DOESNT_EXIST
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4067E
  - Message: The send port does not exist.
- Return Code: 0
  - Return Code Type: OK
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4077I
  - Message: The send port is enlisted.
- Return Code: 2
  - Return Code Type: GENERAL_ERROR
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4078E

- Message: An error occurred while enlisting the send port. Check the BizTalk Server Administration Console.
- Return Code: 6
  - Return Code Type: ALREADY_RUNNING
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4079E
  - Message: The send port is already enlisted.
- Return Code: 12
  - Return Code Type: INSUFFICIENT_USER_AUTHORITY
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4080E
  - Message: The send port did not enlist because of a logon failure.

**Usage** None.

## Enlist Send Port Group action

Enlists the send port group selected by the user. If Take Action timeout error occurs, increase the timeout interval by setting the CDP_DP_ACTION_TIMEOUT environment variable. The default interval is 20 seconds.

**System command**

To include the Take Action command in a situation or workflow policy, use the following syntax for the system command:

```
ENLIST_SEND_PORT_GROUP \

   [KQB_SEND_PORT_GROUP_STATUS.Send_Port_Group_Name]
```

You can use attribute substitution to supply the Take Action command arguments from the situation, for example:

```
ENLIST_SEND_PORT_GROUP \

[&{KQB_SEND_PORT_GROUP_STATUS.Send_Port_Group_Name}]
```

You can also use attribute substitution in a workflow policy though the format is slightly different:

```
ENLIST_SEND_PORT_GROUP \

[&WaitOnSituation:KQB_SEND_PORT_GROUP_STATUS.Send_Port_Group_Name]
```

**Authorization**

The user must be a member of the Administrators group.

**Command arguments**

- **Name:** KQB_SEND_PORT_GROUP_STATUS.Send_Port_Group_Name
  - **Description:** Send Port Group
  - **Default:** KQB_SEND_PORT_GROUP_STATUS.Send_Port_Group_Name

**Return codes**

- Return Code: 8
  - Return Code Type: TIMED_OUT
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB1003
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 1
  - Return Code Type: NOT_APPLICABLE
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4054E
  - Message: The Send Port Group name is not provided.
- Return Code: 9
  - Return Code Type: DOESNT_EXIST
  - Operating systems: Windows, Windows (64-bit)

  - Message ID: KQB4057E
  - Message: The Send Port Group does not exist.
- Return Code: 0
  - Return Code Type: OK
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4069I
  - Message: The send port group is enlisted.
- Return Code: 2
  - Return Code Type: GENERAL_ERROR
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4070E
  - Message: An error occurred while enlisting the send port group. Check the BizTalk Server Administration Console.
- Return Code: 6
  - Return Code Type: NOT_RUNNING
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4071E
  - Message: The send port group is already enlisted.
- Return Code: 12
  - Return Code Type: INSUFFICIENT_USER_AUTHORITY
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4072E
  - Message: The send port group did not enlist because of a logon failure.

**Usage** None.

## Start BizTalk Base EDI Service action

Starts BizTalk Base EDI Service. Applicable for BizTalk 2006 R2, only if it is upgraded from version 2004 or 2006.

**Authorization**

User must be a member of Administrators group.

**Return codes**

- Return Code: 0
  - Return Code Type: OK
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB0004I
  - Message: The BizTalk Base EDI service is started.
- Return Code: 3
  - Return Code Type: ALREADY_RUNNING
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB0005I
  - Message: The BizTalk Base EDI service is already started.
- Return Code: 2
  - Return Code Type: GENERAL_ERROR
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB0006E
  - Message: Error starting the BizTalk Base EDI service.
- Return Code: 9
  - Return Code Type: WARNING
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB0200W
  - Message: The service does not exist as an installed service.
- Return Code: 8
  - Return Code Type: DOESNT_EXIST
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB0201I

  - Message: The service is disabled and cannot be started.
- Return Code: 7
  - Return Code Type: PREREQ_NOT_RUNNING
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB0202E
  - Message: The dependency service or group failed to start.
- Return Code: 6
  - Return Code Type: PREREQ_NOT_RUNNING
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB0203E
  - Message: The dependency service does not exist or has been marked for deletion.
- Return Code: 12
  - Return Code Type: INSUFFICIENT_USER_AUTHORITY
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB0204E
  - Message: The service did not start because of a logon failure.
- Return Code: 1
  - Return Code Type: NOT_APPLICABLE
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB1001
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!

**Usage** None.

## Start BizTalk SharePoint Messaging Adapter Service action

Starts the BizTalk SharePoint Messaging Adapter Service (applicable only for BizTalk Server 2004).

**Authorization**

User must be a member of Administrators group.

**Return codes**

- Return Code: 0
  - Return Code Type: OK
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB0007I
  - Message: The BizTalk SharePoint Messaging Adapter service is started.
- Return Code: 3
  - Return Code Type: ALREADY_RUNNING
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB0008I
  - Message: The BizTalk SharePoint Messaging Adapter service is already started.
- Return Code: 2
  - Return Code Type: GENERAL_ERROR
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB0009E
  - Message: Error starting the BizTalk SharePoint Messaging Adapter service.
- Return Code: 9
  - Return Code Type: WARNING
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB0200W
  - Message: The service does not exist as an installed service.
- Return Code: 8
  - Return Code Type: DOESNT_EXIST
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB0201I
  - Message: The service is disabled and cannot be started.
- Return Code: 7
  - Return Code Type: PREREQ_NOT_RUNNING

- Operating systems: Windows, Windows (64-bit)
- Message ID: KQB0202E
- Message: The dependency service or group failed to start.

- Return Code: 6
  - Return Code Type: PREREQ_NOT_RUNNING
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB0203E
  - Message: The dependency service does not exist or has been marked for deletion.
- Return Code: 12
  - Return Code Type: INSUFFICIENT_USER_AUTHORITY
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB0204E
  - Message: The service did not start because of a logon failure.
- Return Code: 1
  - Return Code Type: NOT_APPLICABLE
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB1001
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!

**Usage** None.

## Start Enterprise Single Sign-On Service action

Starts the Enterprise Single Sign-On Service. If take action timeout error occurs, increase the timeout interval by setting environment variable CDP_DP_ACTION_TIMEOUT. The default interval is 20 seconds.

**Authorization**

User must be a member of Administrators group.

**Return codes**

- Return Code: 0
  - Return Code Type: OK
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB0010I
  - Message: The Enterprise Single Sign-On service is started.
- Return Code: 3
  - Return Code Type: ALREADY_RUNNING
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB0011I
  - Message: The Enterprise Single Sign-On service is already started.
- Return Code: 2
  - Return Code Type: GENERAL_ERROR
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB0012E
  - Message: Error starting the Enterprise Single Sign-On service.
- Return Code: 9
  - Return Code Type: WARNING
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB0200W
  - Message: The service does not exist as an installed service.
- Return Code: 8
  - Return Code Type: DOESNT_EXIST
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB0201I
  - Message: The service is disabled and cannot be started.
- Return Code: 7
  - Return Code Type: PREREQ_NOT_RUNNING
  - Operating systems: Windows, Windows (64-bit)

  - Message ID: KQB0202E
  - Message: The dependency service or group failed to start.
- Return Code: 6
  - Return Code Type: PREREQ_NOT_RUNNING
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB0203E
  - Message: The dependency service does not exist or has been marked for deletion.
- Return Code: 12
  - Return Code Type: INSUFFICIENT_USER_AUTHORITY
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB0204E
  - Message: The service did not start because of a logon failure.
- Return Code: 1
  - Return Code Type: NOT_APPLICABLE
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB1001
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!

**Usage** None.

## Start Host Instance Service action

Starts Host Instance Service for the host instance selected by the user. If take action timeout error occurs, increase the timeout interval by setting environment variable CDP_DP_ACTION_TIMEOUT. The default interval is 20 seconds.

**System command**

To include the Take Action command in a situation or workflow policy, use the following syntax for the system command:

```
START_HOST_INSTANCE_SERVICE \

   [KQB_AVAILABILITY.Name]
```

You can use attribute substitution to supply the Take Action command arguments from the situation, for example:

```
START_HOST_INSTANCE_SERVICE \

[&{KQB_AVAILABILITY.Name}]
```

You can also use attribute substitution in a workflow policy though the format is slightly different:

```
START_HOST_INSTANCE_SERVICE \

[&WaitOnSituation:KQB_AVAILABILITY.Name]
```

**Authorization**

User must be a member of Administrators group.

**Command arguments**

- **Name:** KQB_AVAILABILITY.Name
  - **Description:** Host Instance
  - **Default:** &KQB_AVAILABILITY.Name

**Return codes**

- Return Code: 0
  - Return Code Type: OK
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB0013I
  - Message: Host Instance service is started.
- Return Code: 3
  - Return Code Type: ALREADY_RUNNING
  - Operating systems: Windows, Windows (64-bit)

  - Message ID: KQB0014I
  - Message: Host Instance service is already started.
- Return Code: 2
  - Return Code Type: GENERAL_ERROR
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB0015E
  - Message: Error starting Host Instance service.
- Return Code: 9
  - Return Code Type: WARNING
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB0200W
  - Message: The service does not exist as an installed service.
- Return Code: 8
  - Return Code Type: DOESNT_EXIST
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB0201I
  - Message: The service is disabled and cannot be started.
- Return Code: 7
  - Return Code Type: PREREQ_NOT_RUNNING
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB0202E
  - Message: The dependency service or group failed to start.
- Return Code: 6
  - Return Code Type: PREREQ_NOT_RUNNING
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB0203E
  - Message: The dependency service does not exist or has been marked for deletion.
- Return Code: 12
  - Return Code Type: INSUFFICIENT_USER_AUTHORITY
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB0204E
  - Message: The service did not start because of a logon failure.
- Return Code: 1
  - Return Code Type: NOT_APPLICABLE
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB1001
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!

**Usage** None.

## Start Microsoft BizTalk RFID Service action

Starts the Microsoft BizTalk RFID Service. If a timeout error occurs, set the CDP_DP_ACTION_TIMEOUT environment variable to increase the timeout interval. The default interval is 20 seconds.

**Authorization**

The user must be a member of the Administrators group.

**Return codes**

- Return Code: 0
  - Return Code Type: OK
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB0016I
  - Message: The Microsoft BizTalk RFID Service is started.
- Return Code: 3
  - Return Code Type: ALREADY_RUNNING
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB0017I
  - Message: The Microsoft BizTalk RFID Service has already started.

- Return Code: 2
  - Return Code Type: GENERAL_ERROR
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB0018E
  - Message: An error occurred while starting the Microsoft BizTalk RFID Service.
- Return Code: 9
  - Return Code Type: WARNING
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB0200W
  - Message: The service does not exist as an installed service.
- Return Code: 8
  - Return Code Type: DOESNT_EXIST
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB0201I
  - Message: The service is disabled and cannot be started.
- Return Code: 7
  - Return Code Type: PREREQ_NOT_RUNNING
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB0202E
  - Message: The dependency service or group failed to start.
- Return Code: 6
  - Return Code Type: PREREQ_NOT_RUNNING
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB0203E
  - Message: The dependency service does not exist or has been marked for deletion.
- Return Code: 12
  - Return Code Type: INSUFFICIENT_USER_AUTHORITY
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB0204E
  - Message: The service did not start because of a logon failure.
- Return Code: 1
  - Return Code Type: NOT_APPLICABLE
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB1001
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!

**Usage** None.

## Start Orchestration action

Starts orchestration selected by the user. If the take action timeout error occurs, increase the timeout interval by setting environment variable CDP_DP_ACTION_TIMEOUT. The default interval is 20 seconds.

**System command**

To include the Take Action command in a situation or workflow policy, use the following syntax for the system command:

```
START_ORCHESTRATION \

   [KQB_ORCHESTRATION_STATUS.Orchestration_Name]
```

You can use attribute substitution to supply the Take Action command arguments from the situation, for example:

```
START_ORCHESTRATION \

[&{KQB_ORCHESTRATION_STATUS.Orchestration_Name}]
```

You can also use attribute substitution in a workflow policy though the format is slightly different:

```
START_ORCHESTRATION \

[&WaitOnSituation:KQB_ORCHESTRATION_STATUS.Orchestration_Name]
```

**Authorization**

User must be a member of Administrators group.

**Command arguments**

- **Name:** KQB_ORCHESTRATION_STATUS.Orchestration_Name
  - **Description:** Orchestration
  - **Default:** KQB_ORCHESTRATION_STATUS.Orchestration_Name

**Return codes**

- Return Code: 8
  - Return Code Type: TIMED_OUT
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB1003
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 0
  - Return Code Type: OK
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4039I
  - Message: Orchestration is started.
- Return Code: 2
  - Return Code Type: GENERAL_ERROR
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4040E
  - Message: Error starting the Orchestration. Check whether the Orchestration is already started. If not, check the BizTalk Server administration console.
- Return Code: 1
  - Return Code Type: NOT_APPLICABLE
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4059E
  - Message: The orchestration name is not provided.
- Return Code: 6
  - Return Code Type: ALREADY_RUNNING
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4060E
  - Message: The orchestration has already started.
- Return Code: 7
  - Return Code Type: PREREQ_NOT_RUNNING
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4061E
  - Message: Cannot start the orchestration. All orchestration ports must be bound and the host must be set to start the orchestration.
- Return Code: 9
  - Return Code Type: DOESNT_EXIST
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4062E
  - Message: The orchestration does not exist.
- Return Code: 12
  - Return Code Type: INSUFFICIENT_USER_AUTHORITY
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4063E
  - Message: The orchestration did not start because of a logon failure.

**Usage** None.

## Start Rule Engine Update Service action

Starts the Rule Engine Update Service. If take action timeout error occurs, increase the timeout interval by setting environment variable CDP_DP_ACTION_TIMEOUT. The default interval is 20 seconds.

**Authorization**

User must be a member of Administrators group.

**Return codes**

- Return Code: 0
  - Return Code Type: OK
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB0001I
  - Message: The Rule Engine Update service is started.
- Return Code: 3
  - Return Code Type: ALREADY_RUNNING
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB0002I
  - Message: The Rule Engine Update service is already started.
- Return Code: 2
  - Return Code Type: GENERAL_ERROR
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB0003E
  - Message: Error starting Rule Engine Update service.
- Return Code: 9
  - Return Code Type: WARNING
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB0200W
  - Message: The service does not exist as an installed service.
- Return Code: 8
  - Return Code Type: DOESNT_EXIST
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB0201I
  - Message: The service is disabled and cannot be started.
- Return Code: 7
  - Return Code Type: PREREQ_NOT_RUNNING
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB0202E
  - Message: The dependency service or group failed to start.
- Return Code: 6
  - Return Code Type: PREREQ_NOT_RUNNING
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB0203E
  - Message: The dependency service does not exist or has been marked for deletion.
- Return Code: 12
  - Return Code Type: INSUFFICIENT_USER_AUTHORITY
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB0204E
  - Message: The service did not start because of a logon failure.
- Return Code: 1
  - Return Code Type: NOT_APPLICABLE
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB1001
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!

**Usage** None.

## Start Send Port action

Starts send port selected by the user. If take action timeout error occurs, increase the timeout interval by setting environment variable CDP_DP_ACTION_TIMEOUT. The default interval is 20 seconds.

**System command**

To include the Take Action command in a situation or workflow policy, use the following syntax for the system command:

```
START_SEND_PORT \

   [KQB_SEND_PORT_STATUS.Send_Port_Name]
```

You can use attribute substitution to supply the Take Action command arguments from the situation, for example:

```
START_SEND_PORT \

[&{KQB_SEND_PORT_STATUS.Send_Port_Name}]
```

You can also use attribute substitution in a workflow policy though the format is slightly different:

```
START_SEND_PORT \

[&WaitOnSituation:KQB_SEND_PORT_STATUS.Send_Port_Name]
```

**Authorization**

User must be a member of Administrators group.

**Command arguments**

- **Name:** KQB_SEND_PORT_STATUS.Send_Port_Name
  - **Description:** Send port
  - **Default:** KQB_SEND_PORT_STATUS.Send_Port_Name

**Return codes**

- Return Code: 8
  - Return Code Type: TIMED_OUT
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB1003
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 0
  - Return Code Type: OK
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4041I
  - Message: Send Port is started.
- Return Code: 2
  - Return Code Type: GENERAL_ERROR
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4042E
  - Message: Error starting the Send Port. Check whether the Send Port is already started. If not, check the BizTalk Server administration console.
- Return Code: 1
  - Return Code Type: NOT_APPLICABLE
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4064E
  - Message: The send port name is not provided.
- Return Code: 6
  - Return Code Type: ALREADY_RUNNING
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4065E
  - Message: The send port has already started.
- Return Code: 7
  - Return Code Type: PREREQ_NOT_RUNNING

- Operating systems: Windows, Windows (64-bit)
- Message ID: KQB4066E
- Message: Cannot start the send port.

- Return Code: 9
  - Return Code Type: DOESNT_EXIST
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4067E
  - Message: The send port does not exist.
- Return Code: 12
  - Return Code Type: INSUFFICIENT_USER_AUTHORITY
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4068E
  - Message: The send port did not start because of a logon failure.

**Usage** None.

## Start Send Port Group action

Starts Send Port Group selected by the user. If take action timeout error occurs, increase the timeout interval by setting environment variable CDP_DP_ACTION_TIMEOUT. The default interval is 20 seconds.

**System command**

To include the Take Action command in a situation or workflow policy, use the following syntax for the system command:

```
START_SEND_PORT_GROUP \

   [KQB_SEND_PORT_GROUP_STATUS.Send_Port_Group_Name]
```

You can use attribute substitution to supply the Take Action command arguments from the situation, for example:

```
START_SEND_PORT_GROUP \

[&{KQB_SEND_PORT_GROUP_STATUS.Send_Port_Group_Name}]
```

You can also use attribute substitution in a workflow policy though the format is slightly different:

```
START_SEND_PORT_GROUP \

[&WaitOnSituation:KQB_SEND_PORT_GROUP_STATUS.Send_Port_Group_Name]
```

**Authorization**

The user must be a member of the Administrators group.

**Command arguments**

- **Name:** KQB_SEND_PORT_GROUP_STATUS.Send_Port_Group_Name
  - **Description:** Send Port Group
  - **Default:** KQB_SEND_PORT_GROUP_STATUS.Send_Port_Group_Name

**Return codes**

- Return Code: 8
  - Return Code Type: TIMED_OUT
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB1003
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 0
  - Return Code Type: OK
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4045I
  - Message: Send Port Group is started.
- Return Code: 2
  - Return Code Type: GENERAL_ERROR

- Operating systems: Windows, Windows (64-bit)
- Message ID: KQB4046E
- Message: An error occurred while starting the Send Port Group. Check the BizTalk Server Administration Console.

• Return Code: 1
- Return Code Type: NOT_APPLICABLE
- Operating systems: Windows, Windows (64-bit)
- Message ID: KQB4047E
- Message: The Send Port Group name is not provided.

• Return Code: 6
- Return Code Type: ALREADY_RUNNING
- Operating systems: Windows, Windows (64-bit)
- Message ID: KQB4048E
- Message: The Send Port Group has already started.

• Return Code: 7
- Return Code Type: PREREQ_NOT_RUNNING
- Operating systems: Windows, Windows (64-bit)
- Message ID: KQB4049E
- Message: Cannot start the Send Port Group. At least one associated Send Port must be already enlisted.

• Return Code: 9
- Return Code Type: DOESNT_EXIST
- Operating systems: Windows, Windows (64-bit)
- Message ID: KQB4050E
- Message: The Send Port Group does not exist.

• Return Code: 12
- Return Code Type: INSUFFICIENT_USER_AUTHORITY
- Operating systems: Windows, Windows (64-bit)
- Message ID: KQB4051E
- Message: The Send Port Group did not start because of a logon failure.

**Usage** None.

## Stop BizTalk Base EDI Service action

Stops BizTalk Base EDI Service. Applicable for BizTalk 2006 R2, only if it is upgraded from version 2004 or 2006.

**Authorization**

User must be a member of Administrators group.

**Return codes**

• Return Code: 1
- Return Code Type: NOT_APPLICABLE
- Operating systems: Windows, Windows (64-bit)
- Message ID: KQB1001
- Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!

• Return Code: 8
- Return Code Type: TIMED_OUT
- Operating systems: Windows, Windows (64-bit)
- Message ID: KQB1003
- Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!

• Return Code: 12
- Return Code Type: INSUFFICIENT_USER_AUTHORITY
- Operating systems: Windows, Windows (64-bit)
- Message ID: KQB1004
- Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!

• Return Code: 0
- Return Code Type: OK

  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQH0104I
  - Message: The BizTalk Base EDI service is stopped.
- Return Code: 3
  - Return Code Type: NOT_RUNNING
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQH0105I
  - Message: The BizTalk Base EDI service is already stopped.
- Return Code: 2
  - Return Code Type: GENERAL_ERROR
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQH0106E
  - Message: Error stopping the BizTalk Base EDI service.
- Return Code: 9
  - Return Code Type: WARNING
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQH0200W
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!

**Usage** None.

## Stop BizTalk SharePoint Messaging Adapter Service action

Stops the BizTalk SharePoint Messaging Adapter Service (applicable only for BizTalk Server 2004).

**Authorization**

User must be a member of Administrators group.

**Return codes**

- Return Code: 1
  - Return Code Type: NOT_APPLICABLE
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB1001
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 8
  - Return Code Type: TIMED_OUT
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB1003
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 12
  - Return Code Type: INSUFFICIENT_USER_AUTHORITY
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB1004
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 0
  - Return Code Type: OK
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQH0107I
  - Message: The BizTalk SharePoint Messaging Adapter service is stopped.
- Return Code: 3
  - Return Code Type: NOT_RUNNING
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQH0108I
  - Message: The BizTalk SharePoint Messaging Adapter service is already stopped.
- Return Code: 2
  - Return Code Type: GENERAL_ERROR
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQH0109E
  - Message: Error stopping the BizTalk SharePoint Messaging Adapter service.

- Return Code: 9
  - Return Code Type: WARNING
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQH0200W
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!

**Usage** None.

## Stop Enterprise Single Sign-On Service action

Stops the Enterprise Single Sign-On Service. If take action timeout error occurs, increase the timeout interval by setting environment variable CDP_DP_ACTION_TIMEOUT. The default interval is 20 seconds.

**Authorization**

User must be a member of Administrators group.

**Return codes**

- Return Code: 1
  - Return Code Type: NOT_APPLICABLE
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB1001
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 8
  - Return Code Type: TIMED_OUT
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB1003
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 12
  - Return Code Type: INSUFFICIENT_USER_AUTHORITY
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB1004
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 0
  - Return Code Type: OK
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQH0110I
  - Message: The Enterprise Single Sign-On service is stopped.
- Return Code: 3
  - Return Code Type: NOT_RUNNING
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQH0111I
  - Message: The Enterprise Single Sign-On service is already stopped.
- Return Code: 2
  - Return Code Type: GENERAL_ERROR
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQH0112E
  - Message: Error stopping the Enterprise Single Sign-On service.
- Return Code: 9
  - Return Code Type: WARNING
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQH0200W
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!

**Usage** None.

## Stop Host Instance Service action

Stops Host Instance Service for the host instance selected by the user. If take action timeout error occurs, increase the timeout interval by setting environment variable CDP_DP_ACTION_TIMEOUT. The default interval is 20 seconds.

**System command**

To include the Take Action command in a situation or workflow policy, use the following syntax for the system command:

```
STOP_HOST_INSTANCE_SERVICE \

   [KQB_AVAILABILITY.Name]
```

You can use attribute substitution to supply the Take Action command arguments from the situation, for example:

```
STOP_HOST_INSTANCE_SERVICE \

[&{KQB_AVAILABILITY.Name}]
```

You can also use attribute substitution in a workflow policy though the format is slightly different:

```
STOP_HOST_INSTANCE_SERVICE \

[&WaitOnSituation:KQB_AVAILABILITY.Name]
```

**Authorization**

User must be a member of Administrators group.

**Command arguments**

- **Name:** KQB_AVAILABILITY.Name
  - **Description:** Host Instance
  - **Default:** &KQB_AVAILABILITY.Name

**Return codes**

- Return Code: 1
  - Return Code Type: NOT_APPLICABLE
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB1001
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 8
  - Return Code Type: TIMED_OUT
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB1003
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 12
  - Return Code Type: INSUFFICIENT_USER_AUTHORITY
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB1004
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 0
  - Return Code Type: OK
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQH0113I
  - Message: Host Instance service is stopped.
- Return Code: 3
  - Return Code Type: NOT_RUNNING
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQH0114I
  - Message: Host Instance service is already stopped.
- Return Code: 2
  - Return Code Type: GENERAL_ERROR
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQH0115E
  - Message: Error stopping Host Instance service.
- Return Code: 9
  - Return Code Type: WARNING

- Operating systems: Windows, Windows (64-bit)
- Message ID: KQH0200W
- Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!

**Usage** None.

## Stop Microsoft BizTalk RFID Service action

Stops the Microsoft BizTalk RFID Service. If a timeout error occurs, set the CDP_DP_ACTION_TIMEOUT environment variable to increase the timeout interval. The default interval is 20 seconds.

**Authorization**

The user must be a member of the Administrators group.

**Return codes**

- Return Code: 1
  - Return Code Type: NOT_APPLICABLE
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB1001
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 8
  - Return Code Type: TIMED_OUT
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB1003
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 12
  - Return Code Type: INSUFFICIENT_USER_AUTHORITY
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB1004
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 0
  - Return Code Type: OK
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQH0116I
  - Message: The Microsoft BizTalk RFID service is stopped.
- Return Code: 3
  - Return Code Type: NOT_RUNNING
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQH0117I
  - Message: The Microsoft BizTalk RFID service has already stopped.
- Return Code: 2
  - Return Code Type: GENERAL_ERROR
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQH0118E
  - Message: An error occurred while stopping the Microsoft BizTalk RFID service.
- Return Code: 9
  - Return Code Type: WARNING
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQH0200W
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!

**Usage** None.

## Stop Orchestration action

Stops the orchestration that is selected by the user. If Take Action timeout error occurs, increase the timeout interval by setting the CDP_DP_ACTION_TIMEOUT environment variable. The default interval is 20 seconds.

**System command**

To include the Take Action command in a situation or workflow policy, use the following syntax for the system command:

```
STOP_ORCHESTRATION \

   [KQB_ORCHESTRATION_STATUS.Orchestration_Name]
```

You can use attribute substitution to supply the Take Action command arguments from the situation, for example:

```
STOP_ORCHESTRATION \

[&{KQB_ORCHESTRATION_STATUS.Orchestration_Name}]
```

You can also use attribute substitution in a workflow policy though the format is slightly different:

```
STOP_ORCHESTRATION \

[&WaitOnSituation:KQB_ORCHESTRATION_STATUS.Orchestration_Name]
```

**Authorization**

User must be a member of Administrators group.

**Command arguments**

- **Name:** KQB_ORCHESTRATION_STATUS.Orchestration_Name
  - **Description:** Orchestration
  - **Default:** KQB_ORCHESTRATION_STATUS.Orchestration_Name

**Return codes**

- Return Code: 8
  - Return Code Type: TIMED_OUT
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB1003
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 1
  - Return Code Type: NOT_APPLICABLE
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4059E
  - Message: The orchestration name is not provided.
- Return Code: 9
  - Return Code Type: DOESNT_EXIST
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4062E
  - Message: The orchestration does not exist.
- Return Code: 0
  - Return Code Type: OK
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4095I
  - Message: The orchestration is stopped.
- Return Code: 2
  - Return Code Type: GENERAL_ERROR
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4096E
  - Message: An error occurred while stopping the orchestration. Check the BizTalk Server Administration Console.
- Return Code: 6
  - Return Code Type: ALREADY_RUNNING
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4097E
  - Message: The orchestration is already stopped.
- Return Code: 7
  - Return Code Type: PREREQ_NOT_RUNNING
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4098E

  - Message: Could not stop the orchestration because the state of the orchestration is unbound.
- Return Code: 12
  - Return Code Type: INSUFFICIENT_USER_AUTHORITY
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4099E
  - Message: The orchestration did not stop because of a logon failure.

**Usage** None.

## Stop Rule Engine Update Service action

Stops the Rule Engine Update Service. If take action timeout error occurs, increase the timeout interval by setting environment variable CDP_DP_ACTION_TIMEOUT. The default interval is 20 seconds.

**Authorization**

User must be a member of Administrators group.

**Return codes**

- Return Code: 1
  - Return Code Type: NOT_APPLICABLE
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB1001
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 8
  - Return Code Type: TIMED_OUT
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB1003
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 12
  - Return Code Type: INSUFFICIENT_USER_AUTHORITY
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB1004
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 0
  - Return Code Type: OK
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQH0101I
  - Message: The Rule Engine Update service is stopped.
- Return Code: 3
  - Return Code Type: NOT_RUNNING
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQH0102I
  - Message: The Rule Engine Update service is already stopped.
- Return Code: 2
  - Return Code Type: GENERAL_ERROR
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQH0103E
  - Message: Error stopping the Rule Engine Update service.
- Return Code: 9
  - Return Code Type: WARNING
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQH0200W
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!

**Usage** None.

## Stop Send Port Group action

Stops Send Port Group selected by the user. If take action timeout error occurs, increase the timeout interval by setting environment variable CDP_DP_ACTION_TIMEOUT. The default interval is 20 seconds.

**System command**

To include the Take Action command in a situation or workflow policy, use the following syntax for the system command:

```
STOP_SEND_PORT_GROUP \

   [KQB_SEND_PORT_GROUP_STATUS.Send_Port_Group_Name]
```

You can use attribute substitution to supply the Take Action command arguments from the situation, for example:

```
STOP_SEND_PORT_GROUP \

[&{KQB_SEND_PORT_GROUP_STATUS.Send_Port_Group_Name}]
```

You can also use attribute substitution in a workflow policy though the format is slightly different:

```
STOP_SEND_PORT_GROUP \

[&WaitOnSituation:KQB_SEND_PORT_GROUP_STATUS.Send_Port_Group_Name]
```

**Authorization**

The user must be a member of the Administrators group.

**Command arguments**

- **Name:** KQB_SEND_PORT_GROUP_STATUS.Send_Port_Group_Name
  - **Description:** Send Port Group
  - **Default:** KQB_SEND_PORT_GROUP_STATUS.Send_Port_Group_Name

**Return codes**

- Return Code: 8
  - Return Code Type: TIMED_OUT
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB1003
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 0
  - Return Code Type: OK
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4052I
  - Message: The Send Port Group is stopped.
- Return Code: 2
  - Return Code Type: GENERAL_ERROR
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4053E
  - Message: An error occurred while stopping the Send Port Group. Check the BizTalk Server Administration Console.
- Return Code: 1
  - Return Code Type: NOT_APPLICABLE
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4054E
  - Message: The Send Port Group name is not provided.
- Return Code: 4
  - Return Code Type: NOT_RUNNING
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4055E
  - Message: The Send Port Group has already stopped.
- Return Code: 7
  - Return Code Type: PREREQ_NOT_RUNNING
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4056E
  - Message: Cannot stop the Send Port Group because the state of the Send Port Group is Bound.

- Return Code: 9
  - Return Code Type: DOESNT_EXIST
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4057E
  - Message: The Send Port Group does not exist.
- Return Code: 12
  - Return Code Type: INSUFFICIENT_USER_AUTHORITY
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4058E
  - Message: The Send Port Group did not start because of a logon failure.

**Usage** None.

## Unenlist Orchestration action

Unenlists the orchestration that is selected by the user. If Take Action timeout error occurs, increase the timeout interval by setting the CDP_DP_ACTION_TIMEOUT environment variable. The default interval is 20 seconds.

**System command**

To include the Take Action command in a situation or workflow policy, use the following syntax for the system command:

```
UNENLIST_ORCHESTRATION \

   [KQB_ORCHESTRATION_STATUS.Orchestration_Name]
```

You can use attribute substitution to supply the Take Action command arguments from the situation, for example:

```
UNENLIST_ORCHESTRATION \

[&{KQB_ORCHESTRATION_STATUS.Orchestration_Name}]
```

You can also use attribute substitution in a workflow policy though the format is slightly different:

```
UNENLIST_ORCHESTRATION \

[&WaitOnSituation:KQB_ORCHESTRATION_STATUS.Orchestration_Name]
```

**Authorization**

User must be a member of Administrators group.

**Command arguments**

- **Name:** KQB_ORCHESTRATION_STATUS.Orchestration_Name
  - **Description:** Orchestration
  - **Default:** KQB_ORCHESTRATION_STATUS.Orchestration_Name

**Return codes**

- Return Code: 8
  - Return Code Type: TIMED_OUT
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB1003
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 1
  - Return Code Type: NOT_APPLICABLE
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4059E
  - Message: The orchestration name is not provided.
- Return Code: 9
  - Return Code Type: DOESNT_EXIST
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4062E
  - Message: The orchestration does not exist.

- Return Code: 0
  - Return Code Type: OK
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4090I
  - Message: The orchestration is unenlisted.
- Return Code: 2
  - Return Code Type: GENERAL_ERROR
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4091E
  - Message: An error occurred while unenlisting the orchestration. Check the BizTalk Server Administration Console.
- Return Code: 6
  - Return Code Type: ALREADY_RUNNING
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4092E
  - Message: The orchestration is already unenlisted.
- Return Code: 7
  - Return Code Type: PREREQ_NOT_RUNNING
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4093E
  - Message: Could not unenlist the orchestration because the state of the orchestration is unbound.
- Return Code: 12
  - Return Code Type: INSUFFICIENT_USER_AUTHORITY
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4094E
  - Message: The orchestration did not unenlist because of a logon failure.

**Usage** None.

## Unenlist Send Port action

Unenlists the send port that is selected by the user. If Take Action timeout error occurs, increase the timeout interval by setting the CDP_DP_ACTION_TIMEOUT environment variable. The default interval is 20 seconds.

**System command**

To include the Take Action command in a situation or workflow policy, use the following syntax for the system command:

```
UNENLIST_SEND_PORT \

   [KQB_SEND_PORT_STATUS.Send_Port_Name]
```

You can use attribute substitution to supply the Take Action command arguments from the situation, for example:

```
UNENLIST_SEND_PORT \

[&{KQB_SEND_PORT_STATUS.Send_Port_Name}]
```

You can also use attribute substitution in a workflow policy though the format is slightly different:

```
UNENLIST_SEND_PORT \

[&WaitOnSituation:KQB_SEND_PORT_STATUS.Send_Port_Name]
```

**Authorization**

User must be a member of Administrators group.

**Command arguments**

- **Name:** KQB_SEND_PORT_STATUS.Send_Port_Name
  - **Description:** Send port

– **Default:** KQB_SEND_PORT_STATUS.Send_Port_Name

**Return codes**

- Return Code: 8
  - Return Code Type: TIMED_OUT
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB1003
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 1
  - Return Code Type: NOT_APPLICABLE
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4064E
  - Message: The send port name is not provided.
- Return Code: 9
  - Return Code Type: DOESNT_EXIST
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4067E
  - Message: The send port does not exist.
- Return Code: 0
  - Return Code Type: OK
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4081I
  - Message: The send port is unenlisted.
- Return Code: 2
  - Return Code Type: GENERAL_ERROR
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4082E
  - Message: An error occurred while unenlisting the send port. Check the BizTalk Server Administration Console.
- Return Code: 6
  - Return Code Type: ALREADY_RUNNING
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4083E
  - Message: The send port is already unenlisted.
- Return Code: 12
  - Return Code Type: INSUFFICIENT_USER_AUTHORITY
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4084E
  - Message: The send port did not Unenlist because of a logon failure.

**Usage** None.

## Unenlist Send Port Group action

Unenlists the send port group selected by the user. If Take Action timeout error occurs, increase the timeout interval by setting the CDP_DP_ACTION_TIMEOUT environment variable. The default interval is 20 seconds.

**System command**

To include the Take Action command in a situation or workflow policy, use the following syntax for the system command:

```
UNENLIST_SEND_PORT_GROUP \

   [KQB_SEND_PORT_GROUP_STATUS.Send_Port_Group_Name]
```

You can use attribute substitution to supply the Take Action command arguments from the situation, for example:

```
UNENLIST_SEND_PORT_GROUP \

[&{KQB_SEND_PORT_GROUP_STATUS.Send_Port_Group_Name}]
```

You can also use attribute substitution in a workflow policy though the format is slightly different:

```
UNENLIST_SEND_PORT_GROUP \

[&WaitOnSituation:KQB_SEND_PORT_GROUP_STATUS.Send_Port_Group_Name]
```

**Authorization**

The user must be a member of the Administrators group.

**Command arguments**

- **Name:** KQB_SEND_PORT_GROUP_STATUS.Send_Port_Group_Name
  - **Description:** Send Port Group
  - **Default:** KQB_SEND_PORT_GROUP_STATUS.Send_Port_Group_Name

**Return codes**

- Return Code: 8
  - Return Code Type: TIMED_OUT
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB1003
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 1
  - Return Code Type: NOT_APPLICABLE
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4054E
  - Message: The Send Port Group name is not provided.
- Return Code: 9
  - Return Code Type: DOESNT_EXIST
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4057E
  - Message: The Send Port Group does not exist.
- Return Code: 0
  - Return Code Type: OK
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4073I
  - Message: The send port group is unenlisted.
- Return Code: 2
  - Return Code Type: GENERAL_ERROR
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4074E
  - Message: An error occurred while unenlisting the send port group. Check the BizTalk Server Administration Console.
- Return Code: 6
  - Return Code Type: NOT_RUNNING
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4075E
  - Message: The send port group is already unenlisted.
- Return Code: 12
  - Return Code Type: INSUFFICIENT_USER_AUTHORITY
  - Operating systems: Windows, Windows (64-bit)
  - Message ID: KQB4076E
  - Message: The send port group did not Unenlist because of a logon failure.

**Usage** None.

# Chapter 5. Policies

Policies are used as an advanced automation technique for implementing more complex workflow strategies than you can create through simple automation. All agents do not provide predefined policies, but you can create policies for any agent.

A *policy* is a set of automated system processes that can take actions, schedule work for users, or automate manual tasks. You use the Workflow Editor to design policies. You control the order in which the policy executes a series of automated steps, which are also called *activities*. Policies are connected to create a workflow. After an activity is completed, the Tivoli Enterprise Portal receives return-code feedback, and advanced automation logic responds with subsequent activities prescribed by the feedback.

For more information about working with policies, see "Automation with policies" in the *Tivoli Enterprise Portal User's Guide*.

For information about using the Workflow Editor, see the *IBM Tivoli Monitoring Administrator's Guide* or the Tivoli Enterprise Portal online help.

## Predefined policies

Not all agents have predefined policies. But you can create policies for any agent.

The IBM Tivoli Composite Application Manager for Microsoft Applications: Microsoft BizTalk Server Agent does not provide predefined policies.

# Chapter 6. Event mapping

The Tivoli Event Integration Facility (EIF) interface is used to forward situation events to Tivoli Netcool/OMNIbus or Tivoli Enterprise Console®.

EIF events specify an event class, and the event data is specified as name-value pairs that identify the name of an event slot and the value for the slot. An event class can have subclasses. IBM Tivoli Monitoring provides the base event class definitions and a set of base slots that are included in all monitoring events. Agents extend the base event classes to define subclasses that include agent-specific slots. For Microsoft BizTalk Server agent events, the event classes correspond to the agent attribute groups, and the agent-specific slots correspond to the attributes in the attribute group.

The situation editor in the Tivoli Enterprise Portal can be used to perform custom mapping of data to EIF slots instead of using the default mapping described in this topic. For more information about EIF slot customization, see the *Tivoli Enterprise Portal User's Guide*.

Tivoli Enterprise Console requires that event classes and their slots are defined in BAROC (Basic Recorder of Objects in C) files. Each agent provides a BAROC file that contains event class definitions for the agent and is installed on the Tivoli Enterprise Monitoring Server in the `TECLIB` directory (`install_dir/cms/TECLIB` for Windows systems and `install_dir/tables/TEMS_hostname/TECLIB` for UNIX systems) when application support for the agent is installed. The BAROC file for the agent and the base BAROC files provided with Tivoli Monitoring must also be installed onto the Tivoli Enterprise Console. For details, see "Setting up event forwarding to Tivoli Enterprise Console" in the *IBM Tivoli Monitoring Installation and Setup Guide*.

Each of the event classes is a child of KQB_Base and is defined in the `kqb.baroc` (version 06.3.1.13) file. The KQB_Base event class can be used for generic rules processing for any event from the IBM Tivoli Composite Application Manager for Microsoft Applications: Microsoft BizTalk Server Agent.

For events that are generated by situations in the Application Status attribute group, events are sent by using the ITM_KQB_APPLICATION_STATUS event class. This event class contains the following slots:

- application_name: STRING
- application_status: STRING
- node: STRING
- server_name: STRING
- timestamp: STRING

For events that are generated by situations in the Availability attribute group, events are sent by using the ITM_KQB_AVAILABILITY event class. This event class contains the following slots:

- application_component: STRING
- command_line: STRING
- command_line_enum: STRING
- full_name: STRING
- full_name_enum: STRING
- functionality_test_message: STRING
- functionality_test_message_enum: STRING
- functionality_test_status: INTEGER
- functionality_test_status_enum: STRING
- kqb_status: INTEGER

- kqb_status_enum: STRING
- name: STRING
- name_enum: STRING
- node: STRING
- page_faults_per_sec: INTEGER
- percent_privileged_time: INTEGER
- percent_processor_time: INTEGER
- percent_user_mode_time: INTEGER
- pid: INTEGER
- thread_count: INTEGER
- timestamp: STRING
- type: INTEGER
- type_enum: STRING
- virtual_size: INTEGER
- working_set_size: INTEGER

For events that are generated by situations in the BAM Database attribute group, events are sent by using the ITM_KQB_BAM_DATABASE event class. This event class contains the following slots:

- database_name: STRING
- node: STRING
- server_name: STRING
- timestamp: STRING

For events that are generated by situations in the BAM Interceptor attribute group, events are sent by using the ITM_KQB_BAM_INTERCEPTOR event class. This event class contains the following slots:

- avg_extraction_sec_per_bam_event: INTEGER
- avg_extraction_sec_per_bam_event_enum: STRING
- avg_failed_bam_events_per_flush: REAL
- avg_failed_bam_events_per_flush_enum: STRING
- avg_flush_sec_per_bam_event: INTEGER
- avg_flush_sec_per_bam_event_enum: STRING
- avg_successful_bam_events_per_flush: REAL
- avg_successful_bam_events_per_flush_enum: STRING
- name: STRING
- node: STRING
- timestamp: STRING
- total_failed_bam_events_during_flush: INTEGER
- total_failed_bam_events_during_flush_enum: STRING
- total_successful_bam_events_during_flush: INTEGER
- total_successful_bam_events_during_flush_enum: STRING

For events that are generated by situations in the BizTalk Group Server Host attribute group, events are sent by using the ITM_KQB_BIZTALK_GROUP_SERVER_HOST event class. This event class contains the following slots:

- group_name: STRING
- host_instance: STRING
- host_instance_status: INTEGER

- host_instance_status_enum: STRING
- host_name: STRING
- node: STRING
- server_name: STRING
- timestamp: STRING

For events that are generated by situations in the BizTalk Host attribute group, events are sent by using the ITM_KQB_BIZTALK_HOST event class. This event class contains the following slots:

- group_name: STRING
- host_name: STRING
- node: STRING
- timestamp: STRING

For events that are generated by situations in the BizTalk NET Adapter for Oracle DB attribute group, events are sent by using the ITM_KQB_BIZTALK_NET_ADAPTER_FOR_ORACLE_DB event class. This event class contains the following slots:

- lob_time_cumulative: INTEGER
- lob_time_cumulative_delta: INTEGER
- lob_time_cumulative_delta_enum: STRING
- lob_time_cumulative_enum: STRING
- name: STRING
- node: STRING
- timestamp: STRING

For events that are generated by situations in the BizTalk NET Adapter for Oracle EBusiness Suite attribute group, events are sent by using the ITM_KQB_BIZTALK_NET_ADAPTER_FOR_ORACLE_EBUSINESS_SUITE event class. This event class contains the following slots:

- lob_time_cumulative: INTEGER
- lob_time_cumulative_delta: INTEGER
- lob_time_cumulative_delta_enum: STRING
- lob_time_cumulative_enum: STRING
- name: STRING
- node: STRING
- timestamp: STRING

For events that are generated by situations in the BizTalk NET Adapter for SAP attribute group, events are sent by using the ITM_KQB_BIZTALK_NET_ADAPTER_FOR_SAP event class. This event class contains the following slots:

- lob_time_cumulative: INTEGER
- lob_time_cumulative_delta: INTEGER
- lob_time_cumulative_delta_enum: STRING
- lob_time_cumulative_enum: STRING
- name: STRING
- node: STRING
- timestamp: STRING

For events that are generated by situations in the BizTalk NET Adapter for Siebel attribute group, events are sent by using the ITM_KQB_BIZTALK_NET_ADAPTER_FOR_SIEBEL event class. This event class contains the following slots:

- lob_time_cumulative: INTEGER
- lob_time_cumulative_delta: INTEGER
- lob_time_cumulative_delta_enum: STRING
- lob_time_cumulative_enum: STRING
- name: STRING
- node: STRING
- timestamp: STRING

For events that are generated by situations in the BizTalk NET Adapter for SQL attribute group, events are sent by using the ITM_KQB_BIZTALK_NET_ADAPTER_FOR_SQL event class. This event class contains the following slots:

- lob_time_cumulative: INTEGER
- lob_time_cumulative_delta: INTEGER
- lob_time_cumulative_delta_enum: STRING
- lob_time_cumulative_enum: STRING
- name: STRING
- node: STRING
- timestamp: STRING

For events that are generated by situations in the BizTalk Server attribute group, events are sent by using the ITM_KQB_BIZTALK_SERVER event class. This event class contains the following slots:

- group_name: STRING
- node: STRING
- server_name: STRING
- timestamp: STRING

For events that are generated by situations in the Delivery Channels attribute group, events are sent by using the ITM_KQB_DELIVERY_CHANNELS event class. This event class contains the following slots:

- messages_written_to_transport: REAL
- messages_written_to_transport_enum: STRING
- messages_written_to_transport_rate: REAL
- messages_written_to_transport_rate_enum: STRING
- name: STRING
- node: STRING
- server_name: STRING
- timestamp: STRING

For events that are generated by situations in the Distributors attribute group, events are sent by using the ITM_KQB_DISTRIBUTORS event class. This event class contains the following slots:

- delivery_requests_failed: INTEGER
- delivery_requests_failed_enum: STRING
- delivery_requests_succeeded: INTEGER
- delivery_requests_succeeded_enum: STRING
- format_requests_failed: INTEGER
- format_requests_failed_enum: STRING

- format_requests_succeeded: INTEGER
- format_requests_succeeded_enum: STRING
- name: STRING
- node: STRING
- notification_bodies: INTEGER
- notification_bodies_enum: STRING
- notification_headers: INTEGER
- notification_headers_enum: STRING
- server_name: STRING
- timestamp: STRING

For events that are generated by situations in the Event Log attribute group, events are sent by using the ITM_KQB_EVENT_LOG event class. This event class contains the following slots:
- event_category: STRING
- event_category_enum: STRING
- event_id: INTEGER
- event_source: STRING
- event_type: INTEGER
- event_type_enum: STRING
- log_name: STRING
- message: STRING
- node: STRING
- time_generated: STRING

For events that are generated by situations in the Event Providers attribute group, events are sent by using the ITM_KQB_EVENT_PROVIDERS event class. This event class contains the following slots:
- events_per_batch: INTEGER
- events_per_batch_enum: STRING
- events_received: REAL
- events_received_enum: STRING
- events_received_per_second: REAL
- events_received_per_second_enum: STRING
- event_batches_aborted: REAL
- event_batches_aborted_enum: STRING
- event_batches_committed: REAL
- event_batches_committed_enum: STRING
- name: STRING
- node: STRING
- server_name: STRING
- timestamp: STRING

For events that are generated by situations in the Events attribute group, events are sent by using the ITM_KQB_EVENTS event class. This event class contains the following slots:
- event_batches_awaiting_generation: INTEGER
- event_batches_awaiting_generation_enum: STRING
- event_batches_in_collection: INTEGER
- event_batches_in_collection_enum: STRING

- event_batches_submitted: INTEGER
- event_batches_submitted_enum: STRING
- name: STRING
- node: STRING
- server_name: STRING
- timestamp: STRING
- total_events: INTEGER
- total_events_enum: STRING

For events that are generated by situations in the File Receive Adapter attribute group, events are sent by using the ITM_KQB_FILE_RECEIVE_ADAPTER event class. This event class contains the following slots:

- bytes_received_per_sec: REAL
- bytes_received_per_sec_64: REAL
- bytes_received_per_sec_64_enum: STRING
- bytes_received_per_sec_enum: STRING
- delete_retries: INTEGER
- delete_retries_enum: STRING
- kilobytes_received: REAL
- kilobytes_received_64: REAL
- kilobytes_received_64_enum: STRING
- kilobytes_received_enum: STRING
- lock_failures: INTEGER
- lock_failures_64: REAL
- lock_failures_64_enum: STRING
- lock_failures_enum: STRING
- lock_failures_per_sec: REAL
- lock_failures_per_sec_64: REAL
- lock_failures_per_sec_64_enum: STRING
- lock_failures_per_sec_enum: STRING
- messages_received: INTEGER
- messages_received_enum: STRING
- messages_received_per_sec: REAL
- messages_received_per_sec_enum: STRING
- name: STRING
- node: STRING
- timestamp: STRING
- time_to_build_batch: INTEGER
- time_to_build_batch_enum: STRING

For events that are generated by situations in the File Send Adapter attribute group, events are sent by using the ITM_KQB_FILE_SEND_ADAPTER event class. This event class contains the following slots:

- bytes_sent_per_sec: REAL
- bytes_sent_per_sec_64: REAL
- bytes_sent_per_sec_64_enum: STRING
- bytes_sent_per_sec_enum: STRING
- kilobytes_sent: REAL

- kilobytes_sent_64: REAL
- kilobytes_sent_64_enum: STRING
- kilobytes_sent_enum: STRING
- messages_sent: INTEGER
- messages_sent_enum: STRING
- messages_sent_per_sec: REAL
- messages_sent_per_sec_enum: STRING
- name: STRING
- node: STRING
- timestamp: STRING

For events that are generated by situations in the FTP Receive Adapter attribute group, events are sent by using the ITM_KQB_FTP_RECEIVE_ADAPTER event class. This event class contains the following slots:
- bytes_received_per_sec: REAL
- bytes_received_per_sec_64: REAL
- bytes_received_per_sec_64_enum: STRING
- bytes_received_per_sec_enum: STRING
- kilobytes_received: REAL
- kilobytes_received_64: REAL
- kilobytes_received_64_enum: STRING
- kilobytes_received_enum: STRING
- messages_received: INTEGER
- messages_received_enum: STRING
- messages_received_per_sec: REAL
- messages_received_per_sec_enum: STRING
- name: STRING
- node: STRING
- timestamp: STRING

For events that are generated by situations in the FTP Send Adapter attribute group, events are sent by using the ITM_KQB_FTP_SEND_ADAPTER event class. This event class contains the following slots:
- bytes_sent_per_sec: REAL
- bytes_sent_per_sec_64: REAL
- bytes_sent_per_sec_64_enum: STRING
- bytes_sent_per_sec_enum: STRING
- kilobytes_sent: REAL
- kilobytes_sent_64: REAL
- kilobytes_sent_64_enum: STRING
- kilobytes_sent_enum: STRING
- messages_sent: INTEGER
- messages_sent_enum: STRING
- messages_sent_per_sec: REAL
- messages_sent_per_sec_enum: STRING
- name: STRING
- node: STRING
- timestamp: STRING

For events that are generated by situations in the Generator attribute group, events are sent by using the ITM_KQB_GENERATOR event class. This event class contains the following slots:

- name: STRING
- node: STRING
- notifications_generated_per_second: REAL
- notifications_generated_per_second_enum: STRING
- quanta_behind: INTEGER
- quanta_behind_enum: STRING
- quanta_failed: REAL
- quanta_failed_enum: STRING
- quanta_processed: REAL
- quanta_processed_enum: STRING
- rule_firings: REAL
- rule_firings_enum: STRING
- rule_firing_failures: REAL
- rule_firing_failures_enum: STRING
- server_name: STRING
- skipped_chronicle_rule_firings: REAL
- skipped_chronicle_rule_firings_enum: STRING
- skipped_quanta: REAL
- skipped_quanta_enum: STRING
- skipped_subscription_rule_firings: REAL
- skipped_subscription_rule_firings_enum: STRING
- timestamp: STRING

For events that are generated by situations in the Host Throttling attribute group, events are sent by using the ITM_KQB_HOST_THROTTLING event class. This event class contains the following slots:

- active_instance_count: INTEGER
- active_instance_count_enum: STRING
- database_session: INTEGER
- database_session_enum: STRING
- database_session_threshold: INTEGER
- database_session_threshold_enum: STRING
- database_size: INTEGER
- database_size_enum: STRING
- high_database_session: INTEGER
- high_database_session_enum: STRING
- high_database_size: INTEGER
- high_database_size_enum: STRING
- high_in_process_message_count: INTEGER
- high_in_process_message_count_enum: STRING
- high_message_delivery_rate: INTEGER
- high_message_delivery_rate_enum: STRING
- high_message_publishing_rate: INTEGER
- high_message_publishing_rate_enum: STRING
- high_process_memory: INTEGER

- high_process_memory_enum: STRING
- high_system_memory: INTEGER
- high_system_memory_enum: STRING
- high_thread_count: INTEGER
- high_thread_count_enum: STRING
- in_process_message_count: INTEGER
- in_process_message_count_enum: STRING
- in_process_message_count_threshold: INTEGER
- in_process_message_count_threshold_enum: STRING
- message_delivery_delay_in_sec: REAL
- message_delivery_delay_in_sec_enum: STRING
- message_delivery_incoming_rate: INTEGER
- message_delivery_incoming_rate_enum: STRING
- message_delivery_outgoing_rate: INTEGER
- message_delivery_outgoing_rate_enum: STRING
- message_delivery_throttling_state: INTEGER
- message_delivery_throttling_state_duration_in_min: REAL
- message_delivery_throttling_state_duration_in_min_enum: STRING
- message_delivery_throttling_state_enum: STRING
- message_delivery_throttling_user_override: INTEGER
- message_delivery_throttling_user_override_enum: STRING
- message_publishing_delay_in_sec: REAL
- message_publishing_delay_in_sec_enum: STRING
- message_publishing_incoming_rate: INTEGER
- message_publishing_incoming_rate_enum: STRING
- message_publishing_outgoing_rate: INTEGER
- message_publishing_outgoing_rate_enum: STRING
- message_publishing_throttling_state: INTEGER
- message_publishing_throttling_state_duration_in_min: REAL
- message_publishing_throttling_state_duration_in_min_enum: STRING
- message_publishing_throttling_state_enum: STRING
- message_publishing_throttling_user_override: INTEGER
- message_publishing_throttling_user_override_enum: STRING
- name: STRING
- node: STRING
- physical_memory_usage_in_mb: INTEGER
- physical_memory_usage_in_mb_enum: STRING
- process_memory_usage_in_mb: INTEGER
- process_memory_usage_in_mb_enum: STRING
- process_memory_usage_threshold_in_mb: INTEGER
- process_memory_usage_threshold_in_mb_enum: STRING
- server_name: STRING
- thread_count: INTEGER
- thread_count_enum: STRING
- thread_count_threshold: INTEGER

- thread_count_threshold_enum: STRING
- timestamp: STRING
- total_batches_committed: INTEGER
- total_batches_committed_enum: STRING
- total_messages_delivered: INTEGER
- total_messages_delivered_enum: STRING
- total_messages_published: INTEGER
- total_messages_published_enum: STRING

For events that are generated by situations in the HTTP Receive Adapter attribute group, events are sent by using the ITM_KQB_HTTP_RECEIVE_ADAPTER event class. This event class contains the following slots:

- memory_queue_size: INTEGER
- memory_queue_size_enum: STRING
- messages_received: INTEGER
- messages_received_enum: STRING
- messages_received_per_sec: REAL
- messages_received_per_sec_enum: STRING
- messages_sent: INTEGER
- messages_sent_enum: STRING
- messages_sent_per_sec: REAL
- messages_sent_per_sec_enum: STRING
- name: STRING
- node: STRING
- timestamp: STRING
- time_to_add_message_to_batch: REAL
- time_to_add_message_to_batch_enum: STRING
- time_to_build_batch: REAL
- time_to_build_batch_enum: STRING

For events that are generated by situations in the HTTP Send Adapter attribute group, events are sent by using the ITM_KQB_HTTP_SEND_ADAPTER event class. This event class contains the following slots:

- memory_queue_size: INTEGER
- memory_queue_size_enum: STRING
- messages_received: INTEGER
- messages_received_enum: STRING
- messages_received_per_sec: REAL
- messages_received_per_sec_enum: STRING
- messages_sent: INTEGER
- messages_sent_enum: STRING
- messages_sent_per_sec: REAL
- messages_sent_per_sec_enum: STRING
- name: STRING
- node: STRING
- timestamp: STRING

For events that are generated by situations in the Human Workflow Services attribute group, events are sent by using the ITM_KQB_HUMAN_WORKFLOW_SERVICES event class. This event class contains the following slots:

- activity_flows_retrieved: INTEGER
- activity_flows_retrieved_enum: STRING
- new_action_added: INTEGER
- new_action_added_enum: STRING
- new_activity_flows: INTEGER
- new_activity_flows_enum: STRING
- node: STRING
- server_name: STRING
- steps_retrieved: INTEGER
- steps_retrieved_enum: STRING
- tasks_retrieved: INTEGER
- tasks_retrieved_enum: STRING
- timestamp: STRING

For events that are generated by situations in the Management Database attribute group, events are sent by using the ITM_KQB_MANAGEMENT_DATABASE event class. This event class contains the following slots:

- database_name: STRING
- node: STRING
- server_name: STRING
- timestamp: STRING

For events that are generated by situations in the Message Box General Counters attribute group, events are sent by using the ITM_KQB_MESSAGE_BOX_GENERAL_COUNTERS event class. This event class contains the following slots:

- change_in_tracking_data_size: INTEGER
- change_in_tracking_data_size_enum: STRING
- instances_total_number: INTEGER
- instances_total_number_enum: STRING
- msgbox_dead_processes_cleanup_purge_jobs: INTEGER
- msgbox_dead_processes_cleanup_purge_jobs_enum: STRING
- msgbox_msg_cleanup_purge_jobs: INTEGER
- msgbox_msg_cleanup_purge_jobs_enum: STRING
- msgbox_parts_cleanup_purge_jobs: INTEGER
- msgbox_parts_cleanup_purge_jobs_enum: STRING
- msgbox_purge_subscriptions_job_purge_jobs: INTEGER
- msgbox_purge_subscriptions_job_purge_jobs_enum: STRING
- name: STRING
- node: STRING
- spool_size: INTEGER
- spool_size_enum: STRING
- timestamp: STRING
- tracked_msgs_copy_purge_jobs: INTEGER
- tracked_msgs_copy_purge_jobs_enum: STRING

- tracking_data_size: INTEGER
- tracking_data_size_enum: STRING
- tracking_spool_cleanup_purge_jobs: INTEGER
- tracking_spool_cleanup_purge_jobs_enum: STRING

For events that are generated by situations in the Message Box Host Counters attribute group, events are sent by using the ITM_KQB_MESSAGE_BOX_HOST_COUNTERS event class. This event class contains the following slots:

- host_queue_instance_state_msg_refs_length: INTEGER
- host_queue_instance_state_msg_refs_length_enum: STRING
- host_queue_length: INTEGER
- host_queue_length_enum: STRING
- host_queue_number_of_instances: INTEGER
- host_queue_number_of_instances_enum: STRING
- host_queue_suspended_msgs_length: INTEGER
- host_queue_suspended_msgs_length_enum: STRING
- name: STRING
- node: STRING
- timestamp: STRING

For events that are generated by situations in the Messagebox Database attribute group, events are sent by using the ITM_KQB_MESSAGEBOX_DATABASE event class. This event class contains the following slots:

- database_name: STRING
- disable_new_message_publication: STRING
- is_master_message_box: STRING
- node: STRING
- server_name: STRING
- timestamp: STRING

For events that are generated by situations in the Messaging attribute group, events are sent by using the ITM_KQB_MESSAGING event class. This event class contains the following slots:

- active_receive_locations: INTEGER
- active_receive_locations_enum: STRING
- active_receive_threads: INTEGER
- active_receive_threads_enum: STRING
- active_send_messages: INTEGER
- active_send_messages_enum: STRING
- active_send_threads: INTEGER
- active_send_threads_enum: STRING
- documents_processed: INTEGER
- documents_processed_enum: STRING
- documents_processed_per_sec: REAL
- documents_processed_per_sec_enum: STRING
- documents_received: INTEGER
- documents_received_enum: STRING
- documents_received_per_sec: REAL

- documents_received_per_sec_enum: STRING
- documents_resubmitted: INTEGER
- documents_resubmitted_enum: STRING
- documents_submitted_per_batch: REAL
- documents_submitted_per_batch_64: REAL
- documents_submitted_per_batch_64_enum: STRING
- documents_submitted_per_batch_enum: STRING
- documents_suspended: INTEGER
- documents_suspended_enum: STRING
- documents_suspended_per_sec: REAL
- documents_suspended_per_sec_enum: STRING
- documents_transmitted_per_batch: REAL
- documents_transmitted_per_batch_64: REAL
- documents_transmitted_per_batch_64_enum: STRING
- documents_transmitted_per_batch_enum: STRING
- name: STRING
- node: STRING
- pending_receive_batches: INTEGER
- pending_receive_batches_enum: STRING
- pending_transmitted_messages: INTEGER
- pending_transmitted_messages_enum: STRING
- request_response_timeouts: INTEGER
- request_response_timeouts_enum: STRING
- throttled_receive_batches: INTEGER
- throttled_receive_batches_enum: STRING
- timestamp: STRING

For events that are generated by situations in the Messaging Latency attribute group, events are sent by using the ITM_KQB_MESSAGING_LATENCY event class. This event class contains the following slots:

- inbound_latency_in_ms: REAL
- inbound_latency_in_ms_enum: STRING
- name: STRING
- node: STRING
- outbound_adapter_latency_in_ms: REAL
- outbound_adapter_latency_in_ms_enum: STRING
- outbound_latency_in_ms: REAL
- outbound_latency_in_ms_enum: STRING
- request_response_latency_in_ms: REAL
- request_response_latency_in_ms_enum: STRING
- timestamp: STRING

For events that are generated by situations in the MSMQ Receive Adapter attribute group, events are sent by using the ITM_KQB_MSMQ_RECEIVE_ADAPTER event class. This event class contains the following slots:

- bytes_received_per_sec: REAL
- bytes_received_per_sec_64: REAL

- bytes_received_per_sec_64_enum: STRING
- bytes_received_per_sec_enum: STRING
- kilobytes_received: REAL
- kilobytes_received_64: REAL
- kilobytes_received_64_enum: STRING
- kilobytes_received_enum: STRING
- messages_received: INTEGER
- messages_received_enum: STRING
- messages_received_per_sec: REAL
- messages_received_per_sec_enum: STRING
- name: STRING
- node: STRING
- timestamp: STRING

For events that are generated by situations in the MSMQ Send Adapter attribute group, events are sent by using the ITM_KQB_MSMQ_SEND_ADAPTER event class. This event class contains the following slots:

- bytes_sent_per_sec: REAL
- bytes_sent_per_sec_64: REAL
- bytes_sent_per_sec_64_enum: STRING
- bytes_sent_per_sec_enum: STRING
- kilobytes_sent: REAL
- kilobytes_sent_64: REAL
- kilobytes_sent_64_enum: STRING
- kilobytes_sent_enum: STRING
- messages_sent: INTEGER
- messages_sent_enum: STRING
- messages_sent_per_sec: REAL
- messages_sent_per_sec_enum: STRING
- name: STRING
- node: STRING
- timestamp: STRING

For events that are generated by situations in the Notifications attribute group, events are sent by using the ITM_KQB_NOTIFICATIONS event class. This event class contains the following slots:

- batches: REAL
- batches_awaiting_distribution: REAL
- batches_awaiting_distribution_enum: STRING
- batches_enum: STRING
- batches_expired: REAL
- batches_expired_enum: STRING
- batches_failed_delivery: REAL
- batches_failed_delivery_enum: STRING
- batches_in_retry: REAL
- batches_in_retry_enum: STRING
- batches_successfully_delivered: REAL

- batches_successfully_delivered_enum: STRING
- name: STRING
- node: STRING
- notifications: REAL
- notifications_enum: STRING
- notifications_failed_delivery: REAL
- notifications_failed_delivery_enum: STRING
- notifications_successfully_delivered: REAL
- notifications_successfully_delivered_enum: STRING
- server_name: STRING
- timestamp: STRING

For events that are generated by situations in the Orchestration Status attribute group, events are sent by using the ITM_KQB_ORCHESTRATION_STATUS event class. This event class contains the following slots:

- host_name: STRING
- kqb_status: INTEGER
- kqb_status_enum: STRING
- node: STRING
- orchestration_name: STRING
- server_name: STRING
- timestamp: STRING

For events that are generated by situations in the Orchestrations attribute group, events are sent by using the ITM_KQB_ORCHESTRATIONS event class. This event class contains the following slots:

- active_application_domains: INTEGER
- active_application_domains_enum: STRING
- allocated_private_memory_in_mb: INTEGER
- allocated_private_memory_in_mb_enum: STRING
- allocated_virtual_memory_in_mb: INTEGER
- allocated_virtual_memory_in_mb_enum: STRING
- average_batch_factor: INTEGER
- average_batch_factor_enum: STRING
- database_transactions: INTEGER
- database_transactions_enum: STRING
- database_transactions_per_sec: REAL
- database_transactions_per_sec_enum: STRING
- dehydratable_orchestrations: INTEGER
- dehydratable_orchestrations_enum: STRING
- dehydrating_orchestrations: INTEGER
- dehydrating_orchestrations_enum: STRING
- dehydration_cycles: INTEGER
- dehydration_cycles_enum: STRING
- dehydration_cycle_in_progress: INTEGER
- dehydration_cycle_in_progress_enum: STRING
- dehydration_threshold: INTEGER

- dehydration_threshold_enum: STRING
- idle_orchestrations: INTEGER
- idle_orchestrations_enum: STRING
- messagebox_databases_connection_failures: INTEGER
- messagebox_databases_connection_failures_enum: STRING
- name: STRING
- node: STRING
- online_messagebox_databases: INTEGER
- online_messagebox_databases_enum: STRING
- orchestrations_completed: INTEGER
- orchestrations_completed_enum: STRING
- orchestrations_completed_per_sec: REAL
- orchestrations_completed_per_sec_enum: STRING
- orchestrations_created: INTEGER
- orchestrations_created_enum: STRING
- orchestrations_created_per_sec: REAL
- orchestrations_created_per_sec_enum: STRING
- orchestrations_dehydrated: INTEGER
- orchestrations_dehydrated_enum: STRING
- orchestrations_dehydrated_per_sec: REAL
- orchestrations_dehydrated_per_sec_enum: STRING
- orchestrations_discarded: INTEGER
- orchestrations_discarded_enum: STRING
- orchestrations_discarded_per_sec: REAL
- orchestrations_discarded_per_sec_enum: STRING
- orchestrations_rehydrated: INTEGER
- orchestrations_rehydrated_enum: STRING
- orchestrations_rehydrated_per_sec: REAL
- orchestrations_rehydrated_per_sec_enum: STRING
- orchestrations_resident_in_memory: INTEGER
- orchestrations_resident_in_memory_enum: STRING
- orchestrations_scheduled_for_dehydration: INTEGER
- orchestrations_scheduled_for_dehydration_enum: STRING
- orchestrations_suspended: INTEGER
- orchestrations_suspended_enum: STRING
- orchestrations_suspended_per_sec: REAL
- orchestrations_suspended_per_sec_enum: STRING
- pending_messages: INTEGER
- pending_messages_enum: STRING
- pending_work_items: INTEGER
- pending_work_items_enum: STRING
- percent_used_physical_memory: INTEGER
- percent_used_physical_memory_enum: STRING
- persistence_points: INTEGER
- persistence_points_enum: STRING

- persistence_points_per_sec: REAL
- persistence_points_per_sec_enum: STRING
- runnable_orchestrations: INTEGER
- runnable_orchestrations_enum: STRING
- running_orchestrations: INTEGER
- running_orchestrations_enum: STRING
- timestamp: STRING
- transactional_scopes_aborted: INTEGER
- transactional_scopes_aborted_enum: STRING
- transactional_scopes_aborted_per_sec: REAL
- transactional_scopes_aborted_per_sec_enum: STRING
- transactional_scopes_committed: INTEGER
- transactional_scopes_committed_enum: STRING
- transactional_scopes_committed_per_sec: REAL
- transactional_scopes_committed_per_sec_enum: STRING
- transactional_scopes_compensated: INTEGER
- transactional_scopes_compensated_enum: STRING
- transactional_scopes_compensated_per_sec: REAL
- transactional_scopes_compensated_per_sec_enum: STRING

For events that are generated by situations in the Performance Object Status attribute group, events are sent by using the ITM_KQB_PERFORMANCE_OBJECT_STATUS event class. This event class contains the following slots:

- average_collection_duration: REAL
- average_collection_duration_enum: STRING
- cache_hits: INTEGER
- cache_hit_percent: REAL
- cache_misses: INTEGER
- error_code: INTEGER
- error_code_enum: STRING
- intervals_skipped: INTEGER
- last_collection_duration: REAL
- last_collection_finished: STRING
- last_collection_finished_enum: STRING
- last_collection_start: STRING
- last_collection_start_enum: STRING
- node: STRING
- number_of_collections: INTEGER
- object_name: STRING
- object_status: INTEGER
- object_status_enum: STRING
- object_type: INTEGER
- object_type_enum: STRING
- query_name: STRING
- refresh_interval: INTEGER
- timestamp: STRING

For events that are generated by situations in the POP3 Receive Adapter attribute group, events are sent by using the ITM_KQB_POP3_RECEIVE_ADAPTER event class. This event class contains the following slots:

- active_sessions: INTEGER
- active_sessions_enum: STRING
- bytes_received_per_sec: REAL
- bytes_received_per_sec_64: REAL
- bytes_received_per_sec_64_enum: STRING
- bytes_received_per_sec_enum: STRING
- kilobytes_received: INTEGER
- kilobytes_received_64: REAL
- kilobytes_received_64_enum: STRING
- kilobytes_received_enum: STRING
- messages_received: INTEGER
- messages_received_enum: STRING
- messages_received_per_sec: REAL
- messages_received_per_sec_enum: STRING
- name: STRING
- node: STRING
- timestamp: STRING

For events that are generated by situations in the Receive Location Status attribute group, events are sent by using the ITM_KQB_RECEIVE_LOCATION_STATUS event class. This event class contains the following slots:

- is_primary: STRING
- kqb_status: INTEGER
- kqb_status_enum: STRING
- node: STRING
- receive_handler: STRING
- receive_location_name: STRING
- receive_port_name: STRING
- server_name: STRING
- timestamp: STRING
- transport_address: STRING
- transport_type: STRING

For events that are generated by situations in the Receive Ports attribute group, events are sent by using the ITM_KQB_RECEIVE_PORTS event class. This event class contains the following slots:

- is_two_way: STRING
- node: STRING
- primary_receive_location: STRING
- receive_port_name: STRING
- route_failed_messages: STRING
- server_name: STRING
- timestamp: STRING

For events that are generated by situations in the RFID Devices attribute group, events are sent by using the ITM_KQB_RFID_DEVICES event class. This event class contains the following slots:

- downtime: INTEGER
- downtime_enum: STRING
- errors_raised: INTEGER
- errors_raised_enum: STRING
- errors_raised_per_sec: INTEGER
- errors_raised_per_sec_enum: STRING
- name: STRING
- node: STRING
- tags_read_per_sec: INTEGER
- tags_read_per_sec_enum: STRING
- tags_written_per_sec: INTEGER
- tags_written_per_sec_enum: STRING
- timestamp: STRING
- total_tags_read: INTEGER
- total_tags_read_enum: STRING
- total_tags_written: INTEGER
- total_tags_written_enum: STRING

For events that are generated by situations in the RFID Processes attribute group, events are sent by using the ITM_KQB_RFID_PROCESSES event class. This event class contains the following slots:

- name: STRING
- node: STRING
- process_uptime: INTEGER
- process_uptime_enum: STRING
- tags_being_processed: INTEGER
- tags_being_processed_enum: STRING
- tags_in_queue: INTEGER
- tags_in_queue_enum: STRING
- tags_processed: INTEGER
- tags_processed_enum: STRING
- tags_suspended: INTEGER
- tags_suspended_enum: STRING
- timestamp: STRING

For events that are generated by situations in the Rule Engine Database attribute group, events are sent by using the ITM_KQB_RULE_ENGINE_DATABASE event class. This event class contains the following slots:

- database_name: STRING
- node: STRING
- server_name: STRING
- timestamp: STRING

For events that are generated by situations in the Send Port Group Status attribute group, events are sent by using the ITM_KQB_SEND_PORT_GROUP_STATUS event class. This event class contains the following slots:

- kqb_status: INTEGER
- kqb_status_enum: STRING
- node: STRING
- send_port_group_name: STRING
- server_name: STRING
- timestamp: STRING

For events that are generated by situations in the Send Port Status attribute group, events are sent by using the ITM_KQB_SEND_PORT_STATUS event class. This event class contains the following slots:

- is_dynamic: STRING
- is_twoway: STRING
- kqb_status: INTEGER
- kqb_status_enum: STRING
- node: STRING
- primary_transport_address: STRING
- send_port_name: STRING
- server_name: STRING
- timestamp: STRING
- transport_type: STRING

For events that are generated by situations in the Service Instance Status and Class attribute group, events are sent by using the ITM_KQB_SERVICE_INSTANCE_STATUS_AND_CLASS event class. This event class contains the following slots:

- error_description: STRING
- host_name: STRING
- instance_id: STRING
- node: STRING
- server_name: STRING
- service_class: INTEGER
- service_class_enum: STRING
- service_name: STRING
- service_status: INTEGER
- service_status_enum: STRING
- timestamp: STRING

For events that are generated by situations in the SFTP Receive Adapter attribute group, events are sent by using the ITM_KQB_SFTP_RECEIVE_ADAPTER event class. This event class contains the following slots:

- bytes_received_per_sec: REAL
- bytes_received_per_sec_enum: STRING
- kilobytes_received: REAL
- kilobytes_received_enum: STRING
- messages_received: INTEGER
- messages_received_enum: STRING
- messages_received_per_sec: REAL
- messages_received_per_sec_enum: STRING
- name: STRING

- node: STRING
- timestamp: STRING

For events that are generated by situations in the SFTP Send Adapter attribute group, events are sent by using the ITM_KQB_SFTP_SEND_ADAPTER event class. This event class contains the following slots:
- bytes_sent_per_sec: REAL
- bytes_sent_per_sec_enum: STRING
- kilobytes_sent: REAL
- kilobytes_sent_enum: STRING
- messages_sent: INTEGER
- messages_sent_enum: STRING
- messages_sent_per_sec: REAL
- messages_sent_per_sec_enum: STRING
- name: STRING
- node: STRING
- timestamp: STRING

For events that are generated by situations in the Single Sign On Database attribute group, events are sent by using the ITM_KQB_SINGLE_SIGN_ON_DATABASE event class. This event class contains the following slots:
- database_name: STRING
- node: STRING
- server_name: STRING
- timestamp: STRING

For events that are generated by situations in the SMTP Send Adapter attribute group, events are sent by using the ITM_KQB_SMTP_SEND_ADAPTER event class. This event class contains the following slots:
- messages_sent: INTEGER
- messages_sent_enum: STRING
- messages_sent_per_sec: REAL
- messages_sent_per_sec_enum: STRING
- name: STRING
- node: STRING
- timestamp: STRING

For events that are generated by situations in the SOAP Receive Adapter attribute group, events are sent by using the ITM_KQB_SOAP_RECEIVE_ADAPTER event class. This event class contains the following slots:
- messages_received: INTEGER
- messages_received_enum: STRING
- messages_received_per_sec: REAL
- messages_received_per_sec_enum: STRING
- name: STRING
- node: STRING
- timestamp: STRING

For events that are generated by situations in the SOAP Send Adapter attribute group, events are sent by using the ITM_KQB_SOAP_SEND_ADAPTER event class. This event class contains the following slots:

- messages_sent: INTEGER
- messages_sent_enum: STRING
- messages_sent_per_sec: REAL
- messages_sent_per_sec_enum: STRING
- name: STRING
- node: STRING
- timestamp: STRING

For events that are generated by situations in the SQL Receive Adapter attribute group, events are sent by using the ITM_KQB_SQL_RECEIVE_ADAPTER event class. This event class contains the following slots:

- messages_received: INTEGER
- messages_received_enum: STRING
- messages_received_per_sec: REAL
- messages_received_per_sec_enum: STRING
- name: STRING
- node: STRING
- timestamp: STRING

For events that are generated by situations in the SQL Send Adapter attribute group, events are sent by using the ITM_KQB_SQL_SEND_ADAPTER event class. This event class contains the following slots:

- messages_sent: INTEGER
- messages_sent_enum: STRING
- messages_sent_per_sec: REAL
- messages_sent_per_sec_enum: STRING
- name: STRING
- node: STRING
- timestamp: STRING

For events that are generated by situations in the Subscribers attribute group, events are sent by using the ITM_KQB_SUBSCRIBERS event class. This event class contains the following slots:

- name: STRING
- node: STRING
- server_name: STRING
- subscribers_added: REAL
- subscribers_added_enum: STRING
- subscribers_disabled: REAL
- subscribers_disabled_enum: STRING
- subscribers_enabled: REAL
- subscribers_enabled_enum: STRING
- timestamp: STRING

For events that are generated by situations in the Subscriptions attribute group, events are sent by using the ITM_KQB_SUBSCRIPTIONS event class. This event class contains the following slots:

- name: STRING
- node: STRING
- server_name: STRING
- subscriptions_added: INTEGER

- subscriptions_added_enum: STRING
- subscriptions_disabled: REAL
- subscriptions_disabled_enum: STRING
- subscriptions_enabled: REAL
- subscriptions_enabled_enum: STRING
- timestamp: STRING

For events that are generated by situations in the TDDS attribute group, events are sent by using the ITM_KQB_TDDS event class. This event class contains the following slots:

- batches_being_processed: INTEGER
- batches_being_processed_enum: STRING
- batches_committed: REAL
- batches_committed_enum: STRING
- events_being_processed: INTEGER
- events_being_processed_enum: STRING
- events_committed: REAL
- events_committed_enum: STRING
- name: STRING
- node: STRING
- records_being_processed: INTEGER
- records_being_processed_enum: STRING
- records_committed: REAL
- records_committed_enum: STRING
- timestamp: STRING
- total_batches: INTEGER
- total_batches_64: REAL
- total_batches_64_enum: STRING
- total_batches_enum: STRING
- total_events: INTEGER
- total_events_64: REAL
- total_events_64_enum: STRING
- total_events_enum: STRING
- total_failed_batches: INTEGER
- total_failed_batches_64: REAL
- total_failed_batches_64_enum: STRING
- total_failed_batches_enum: STRING
- total_failed_events: INTEGER
- total_failed_events_64: REAL
- total_failed_events_64_enum: STRING
- total_failed_events_enum: STRING
- total_records: INTEGER
- total_records_64: REAL
- total_records_64_enum: STRING
- total_records_enum: STRING

For events that are generated by situations in the Tracking Database attribute group, events are sent by using the ITM_KQB_TRACKING_DATABASE event class. This event class contains the following slots:

- database_name: STRING
- node: STRING
- server_name: STRING
- timestamp: STRING

For events that are generated by situations in the Vacuumer attribute group, events are sent by using the ITM_KQB_VACUUMER event class. This event class contains the following slots:

- completed_periods: REAL
- completed_periods_enum: STRING
- name: STRING
- node: STRING
- quanta_remaining: REAL
- quanta_remaining_enum: STRING
- quanta_vacuumed: REAL
- quanta_vacuumed_enum: STRING
- server_name: STRING
- timeouts: REAL
- timeouts_enum: STRING
- timestamp: STRING

For events that are generated by situations in the Windows SharePoint Services attribute group, events are sent by using the ITM_KQB_WINDOWS_SHAREPOINT_SERVICES event class. This event class contains the following slots:

- node: STRING
- percent_receive_message_failures: REAL
- percent_receive_message_failures_enum: STRING
- percent_send_message_failures: REAL
- percent_send_message_failures_enum: STRING
- percent_web_service_call_failures: REAL
- percent_web_service_call_failures_enum: STRING
- timestamp: STRING
- total_received_messages: INTEGER
- total_received_messages_enum: STRING
- total_receive_commit_failures: INTEGER
- total_receive_commit_failures_enum: STRING
- total_receive_message_failures: INTEGER
- total_receive_message_failures_enum: STRING
- total_send_message_failures: INTEGER
- total_send_message_failures_enum: STRING
- total_sent_messages: INTEGER
- total_sent_messages_enum: STRING
- total_web_service_call_failures: INTEGER
- total_web_service_call_failures_enum: STRING
- web_service_calls_per_sec: REAL

- web_service_calls_per_sec_enum: STRING

For events that are generated by situations in the Windows SharePoint Services Adapter attribute group, events are sent by using the ITM_KQB_WINDOWS_SHAREPOINT_SERVICES_ADAPTER event class. This event class contains the following slots:

- name: STRING
- node: STRING
- percent_receive_message_failures: REAL
- percent_receive_message_failures_enum: STRING
- percent_send_message_failures: REAL
- percent_send_message_failures_enum: STRING
- percent_web_service_call_failures: REAL
- percent_web_service_call_failures_enum: STRING
- timestamp: STRING
- total_received_messages: INTEGER
- total_received_messages_enum: STRING
- total_receive_commit_failures: INTEGER
- total_receive_commit_failures_enum: STRING
- total_receive_message_failures: INTEGER
- total_receive_message_failures_enum: STRING
- total_send_message_failures: INTEGER
- total_send_message_failures_enum: STRING
- total_sent_messages: INTEGER
- total_sent_messages_enum: STRING
- total_web_service_call_failures: INTEGER
- total_web_service_call_failures_enum: STRING
- web_service_calls_per_sec: REAL
- web_service_calls_per_sec_enum: STRING

# Appendix. Documentation library

A variety of documentation is available for insert the short product name from the list.

IBM Knowledge Center contains topics of information for the product and links to relevant PDFs. In IBM Knowledge Center, you can create a custom PDF that contains only the topics in which you are interested. See the directions for Creating your own set of topics (http://www.ibm.com/support/knowledgecenter/doc/kc_help.html#create).

## Prerequisite documentation

To use the information about the components effectively, you must have some prerequisite knowledge.

The following information for Tivoli Monitoring is available in the IBM Knowledge Center (http://www.ibm.com/support/knowledgecenter) to gain prerequisite knowledge:

- *IBM Tivoli Monitoring Administrator's Guide*
- *IBM Tivoli Monitoring Installation and Setup Guide*
- *IBM Tivoli Monitoring High Availability Guide for Distributed Systems*
- IBM Tivoli Monitoring: Installation and Configuration Guides for the following agents: Operating System agents and Warehouse agents
- IBM Tivoli Monitoring: User's Guides for the following agents: Agentless OS monitors, Log File agent, System p agents, Systems Director base agent
- *IBM Tivoli Monitoring Agent Builder User's Guide*
- *IBM Tivoli Monitoring Command Reference*
- *IBM Tivoli Monitoring: Messages*
- *IBM Tivoli Monitoring Troubleshooting Guide*
- IBM Tivoli Monitoring: References for the following agents: Operating System agents and Warehouse agents
- IBM Tivoli Monitoring: Troubleshooting Guides for the following agents: Operating System agents and Warehouse agents
- *Tivoli Enterprise Portal User's Guide*

## Related documentation

The documentation for related products provides useful information.

See the following products in IBM Knowledge Center (http://www.ibm.com/support/knowledgecenter/):

- Tivoli Monitoring
- Tivoli Application Dependency Discovery Manager
- Tivoli Business Service Manager
- Tivoli Common Reporting
- Tivoli Enterprise Console
- Tivoli Netcool/OMNIbus

Terminology that is relevant to IBM products is consolidated in one convenient locations at the IBM Terminology website (http://www.ibm.com/software/globalization/terminology).

## Tivoli Monitoring Community on Service Management Connect

Service Management Connect (SMC) is a repository of technical information that is organized by communities.

Access Service Management Connect at https://www.ibm.com/developerworks/servicemanagement.

For information about Tivoli products, see the Application Performance Management community (http://www.ibm.com/developerworks/servicemanagement/apm/index.html).

Connect, learn, and share with Service Management professionals. Get access to developers and product support technical experts who provide their perspectives and expertise. You can use SMC for these purposes:

- Become involved with transparent development, an ongoing, open engagement between other users and IBM developers of Tivoli products. You can access early designs, sprint demonstrations, product roadmaps, and prerelease code.
- Connect one-on-one with the experts to collaborate and network about Tivoli and the Application Performance Management community.
- Read blogs to benefit from the expertise and experience of others.
- Use wikis and forums to collaborate with the broader user community.

## Other sources of documentation

You can obtain additional technical documentation about monitoring products from other sources.

See the following sources of technical documentation about monitoring products:

- IBM Integrated Service Management Library (http://www.ibm.com/software/brandcatalog/ismlibrary/) is an online catalog that contains integration documentation as well as other downloadable product extensions.
- IBM Redbook publications (http://www.redbooks.ibm.com/) include Redbooks® publications, Redpapers, and Redbooks technotes that provide information about products from platform and solution perspectives.
- Technotes (http://www.ibm.com/support/entry/portal/software), which are found through the IBM Software Support website, provide the latest information about known product limitations and workarounds.

## Conventions used in the documentation

Several conventions are used in the documentation for special terms, actions, commands, and paths that are dependent on your operating system.

### Typeface conventions

The following typeface conventions are used in the documentation:

**Bold**

- Lowercase commands, mixed-case commands, parameters, and environment variables that are otherwise difficult to distinguish from the surrounding text
- Interface controls (check boxes, push buttons, radio buttons, spin buttons, fields, folders, icons, list boxes, items inside list boxes, multicolumn lists, containers, menu choices, menu names, tabs, property sheets), labels (such as **Tip:**)
- Keywords and parameters in text

*Italic*

- Citations (examples: titles of publications, CDs, and DVDs)
- Words and phrases defined in text (example: a nonswitched line is called a *point-to-point line*)
- Emphasis of words and letters (example: The LUN address must start with the letter *L*.)
- New terms in text , except in a definition list (example: a *view* is a frame in a workspace that contains data.)
- Variables and values you must provide (example: where *myname* represents...)

**`Monospace`**

- Examples and code examples
- File names, directory names, path names, programming keywords, properties, and other elements that are difficult to distinguish from the surrounding text
- Message text and prompts
- Text that you must type
- Values for arguments or command options

**`Bold monospace`**

- Command names, and names of macros and utilities that you can type as commands
- Environment variable names in text
- Keywords
- Parameter names in text: API structure parameters, command parameters and arguments, and configuration parameters
- Process names
- Registry variable names in text
- Script names

## Operating system-dependent variables and paths

The direction of the slash for directory paths might vary in the documentation. Regardless of what you see in the documentation, follow these guidelines:

- For UNIX or Linux, use a forward slash (/).
- For Windows, use a backslash (\).

The names of environment variables are not always the same in Windows and UNIX. For example, %TEMP% in Windows is equivalent to $TMPDIR in UNIX or Linux.

For environment variables, follow these guidelines:

- For UNIX or Linux, use **$***variable*.
- For Windows, use **%***variable***%**.

If you are using the bash shell on a Windows system, you can use the UNIX conventions.

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