

webMethods Monitor Built-In Services Reference

Version 10.7

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This document applies to webMethods Monitor 10.7 and to all subsequent releases.

Specifications contained herein are subject to change and these changes will be reported in subsequent release notes or new editions.

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This guide describes the built in services provided in the WmMonitor package.

Deprecation of webMethods Broker

webMethods Broker is deprecated for use with webMethods 10.2. If you are starting development using webMethods 10.2, you should use webMethods Universal Messaging instead of webMethods Broker. If you are upgrading to webMethods 10.2, you should consider migrating to Universal Messaging. If you choose to continue to use webMethods Broker, you will still be fully supported, but only until the announced end-of-life dates for webMethods Broker. For details, see <https://empower.softwareag.com/brokerendoflife/>

Document Conventions

Convention	Description
Bold	Identifies elements on a screen.
Narrowfont	Identifies service names and locations in the format <i>folder.subfolder.service</i> , APIs, Java classes, methods, properties.
<i>Italic</i>	Identifies: Variables for which you must supply values specific to your own situation or environment. New terms the first time they occur in the text. References to other documentation sources.
Monospace font	Identifies: Text you must type in. Messages displayed by the system. Program code.
{ }	Indicates a set of choices from which you must choose one. Type only the information inside the curly braces. Do not type the { } symbols.
	Separates two mutually exclusive choices in a syntax line. Type one of these choices. Do not type the symbol.
[]	Indicates one or more options. Type only the information inside the square brackets. Do not type the [] symbols.
...	Indicates that you can type multiple options of the same type. Type only the information. Do not type the ellipsis (...).

Online Information and Support

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Software AG TECHcommunity

You can find documentation and other technical information on the Software AG TECHcommunity website at <http://techcommunity.softwareag.com>. You can:

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- Use the online discussion forums, moderated by Software AG professionals, to ask questions, discuss best practices, and learn how other customers are using Software AG technology.
- Link to external websites that discuss open standards and web technology.

Data Protection

Software AG products provide functionality with respect to processing of personal data according to the EU General Data Protection Regulation (GDPR). Where applicable, appropriate steps are documented in the respective administration documentation.

1 pub.monitor.archive Folder

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Summary of Elements in This Folder

Important:

Before you can archive data, you must set up Monitor to enable archiving. For instructions, see the configuration chapter in *webMethods Monitor User's Guide*.

Note:

For Oracle, SQL Server, and DB2, the default values for all archive and delete service parameters are stored in the OPERATION_PARAMETER in the Archive database component. You can change the defaults in the table by running the [pub.monitor.archive:setOperationParameters](#) service. You can override the defaults for specific archive or delete actions by specifying values on the relevant parameters when you run the archive and delete services.

Note:

If you enable JDBC archive and execute any of the `pub.monitor.archive` services, even though the AUDITTIMESTAMP fields of the relevant runtime tables use the local time, the AUDITTIMESTAMP fields are stored in the UTC time in the corresponding archive tables.

The following table lists and describes the services.

Service and Description

[pub.monitor.archive:documentArchive](#)

Archives or deletes logged document data. The logged data is archived or deleted from the WMDOCUMENT table in the IS Core Audit Log database component and document control data (such as resubmit actions) from the PRA_PROCESS_ACTION table in the IS Core Audit Log database component.

[pub.monitor.archive:getArchiveInfo](#)

Provides information about the components, tables, number of rows in each table, and the date and time of the oldest and newest records in the tables that are available for archive in the database. The service output is useful to understand the current status of the database before you execute the archive services.

[pub.monitor.archive:processArchive](#)

Archives or deletes process data and control data (such as resubmit actions) from the PRA_PROCESS_ACTION, WMCUSTOMFIELDDEFINITION, PRA_PROCESS, PRA_PROCESS_CUSTOM, WMPROCESSDEFINITION, WMPROCESSIMAGE, PRA_PROCESS_RECENT, PRA_STEP_LOGGED_FIELD, PRA_PROCESS_STEP, WMSTEPDEFINITION, and WMSTEPTRANSITIONDEFINITION tables in the Process Audit Log database component, and archives or deletes process-related service data from the PRA_ERROR table in the IS Core Audit Log database component.

[pub.monitor.archive:serverArchive](#)

Archives or deletes server data from the PRA_ERROR, WMSESSION, WMTXIN, and WMTXOUT tables in the IS Core Audit Log database component. Server data includes Integration Server

Service and Description

server, session, and guaranteed delivery log entries, and error log entries that are not associated with logged processes, services, or documents (for example, errors that occur during startup or during the run of unlogged processes, services, activations, and documents).

[pub.monitor.archive:serviceArchive](#)

Archives or deletes service log entries, input pipelines, error data, and user-defined messages from the PRA_ERROR table in the IS Core Audit Log database component and service control data (such as resubmit actions) from the PRA_PROCESS_ACTION table in the Process Audit Log database component.

[pub.monitor.archive:setOperationParameters](#)

Sets parameters in the OPERATION_PARAMETER table of the Archive database component if you are using Oracle, SQL Server, or DB2.

pub.monitor.archive:documentArchive

Archives or deletes logged document data. The logged data is archived or deleted from the WMDOCUMENT table in the IS Core Audit Log database component and document control data (such as resubmit actions) from the PRA_PROCESS_ACTION table in the IS Core Audit Log database component.

Input Parameters

The following table lists the input parameters.

<i>todate</i>	<p>String Optional. Start date for the period to keep the data in the IS Core Audit Log database component. The period ends with and includes the current date. Use the format yyyy-mm-dd hh:mm:ss.</p> <p>Supply either <i>todate</i> or <i>days</i>. Do not supply both.</p>
<i>days</i>	<p>String Optional. Number of days to keep the data in the IS Core Audit Log database component, ending with and including the current date.</p> <p>Supply either <i>todate</i> or <i>days</i>. Do not supply both.</p>
<i>archiveAction</i>	<p>String Optional. Whether to archive or delete the data.</p> <ul style="list-style-type: none"> ■ ARCHIVE Default. Copy the data from the IS Core Audit Log database component to the Archive database component and delete the data from the IS Core Audit Log database component. ■ DELETE Delete the data from the IS Core Audit Log database component without first archiving it.
<i>batchSize</i>	<p>String Optional. Number of documents to archive or delete at a time.</p>

Output Parameters

The following table lists the output parameters.

<i>message</i>	String Message that indicates the success of the archive or delete action.
<i>errorMessage</i>	String Errors that occurred during the archive or delete action.

Usage Notes

You can use this service with Integration Server Administrator to archive or delete data automatically, at specific times or intervals. To do so, build a service that calls the archive or delete service and sets its input parameters; then run the wrapper service as a scheduled task from Integration Server Administrator. For instructions on scheduling services to run at specific times, see *webMethods Integration Server Administrator's Guide*.

Examples

- *todate* parameter: Suppose the current date is September 30 and you want to archive or delete data that was logged more than 15 days ago (that is, before September 15). You would specify this parameter as `2003-10-15 00:00:00`.
- *days* parameter: Suppose the current date is September 30 and you want to archive or delete data that was logged more than 15 days ago (that is, before September 15). You would specify this parameter as `15`.

pub.monitor.archive:getArchiveInfo

This service output provides information about the components, tables, number of rows in each table, and the date and time of the oldest and newest records in the tables that are available for archive in the database. The service output is useful to understand the current status of the database before you execute the archive services.

Input Parameters

None.

Output Parameters

The following table lists the output parameters.

<i>archiveInfo</i>	Document List A table containing the following archive information: <ul style="list-style-type: none">■ Component to be archived (document, server, service, or process).■ Tables that will be archived for each component.■ Number of rows available for archive in each table.
--------------------	---

- Date and time of the oldest record in each table.
- Date and time of the newest record in each table.

pub.monitor.archive:processArchive

Archives or deletes process data and control data (such as resubmit actions) from the PRA_PROCESS_ACTION, WMCUSTOMFIELDDEFINITION, PRA_PROCESS, PRA_PROCESS_CUSTOM, WMPROCESSDEFINITION, WMPROCESSIMAGE, PRA_PROCESS_RECENT, PRA_STEP_LOGGED_FIELD, PRA_PROCESS_STEP, WMSTEPDEFINITION, and WMSTEPTRANSITIONDEFINITION tables in the Process Audit Log database component, and archives or deletes process-related service data from the PRA_ERROR table in the IS Core Audit Log database component.

Specifically, this service archives or deletes the following:

- Process log entries, input pipelines, error data, and run-time values for user-specified input and output document fields.
- Referenced processes, process-related service data (services, service error data, and user-defined messages).
- Process control data (resubmit, suspend, and resume actions).

Input Parameters

The following table lists the input parameters.

<i>todate</i>	<p>String Optional. Start date for the period to keep the data in the IS Core Audit Log and Process Audit Log database components. The period ends with and includes the current date. Use the format yyyy-mm-dd hh:mm:ss.</p> <p>Supply either <i>todate</i> or <i>days</i>. Do not supply both.</p>
<i>days</i>	<p>String Optional. Number of days to keep the data in the IS Core Audit Log and Process Audit Log database components, ending with and including the current date.</p> <p>Supply either <i>todate</i> or <i>days</i>. Do not supply both.</p>
<i>archiveAction</i>	<p>String Optional. Indicates whether to archive or delete the data.</p> <ul style="list-style-type: none"> ■ ARCHIVE Default. Copy the data from the IS Core Audit Log and Process Audit Log database components to the Archive database component and delete the data from the IS Core Audit Log and Process Audit Log database components. ■ DELETE Delete the data from the IS Core Audit Log and Process Audit Log database components without first archiving it.

<i>status</i>	String Optional. Indicates the status on which to archive or delete the data. <ul style="list-style-type: none">■ COMPLETED Default. Archive or delete data for processes with a status of Completed.■ COMPLETED-FAILED Archive or delete data for processes with a status of Completed, Failed, Stopped, or Resubmitted. Data for processes with a status other than those specified is retained in the database.
<i>batchSize</i>	String Optional. Number of processes to archive or delete at a time.
<i>modelId</i>	String array Optional. Complete model ID of the model for the process instance(s) you want to archive. Use a comma to separate multiple <i>modelId</i> string values. You can retrieve model IDs by invoking the <code>pub.monitor.process.instance:getProcessList</code> service and using the value returned in the <i>processNames/PROCESSKEY</i> output parameter. If <i>modelId</i> is null, all processes are archived.

Note:

Whether Monitor treats *modelId* as case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

Output Parameters

The following table lists the output parameters.

<i>message</i>	String Message that indicates the success of the archive or delete action.
<i>errorMessage</i>	String Errors that occurred during the archive or delete action.

Usage Notes

You can use this service with Integration Server Administrator to archive or delete data automatically, at specific times or intervals. To do so, build a service that calls the archive or delete service and sets its input parameters, then run the wrapper service as a scheduled task from Integration Server Administrator. For instructions on scheduling services to run at specific times, see *webMethods Integration Server Administrator's Guide*.

Examples

- *todate* parameter: Suppose the current date is September 30 and you want to archive or delete data for processes that finished running more than 15 days ago (that is, before September 15). You would specify this parameter as `2003-10-15 00:00:00`.

- *days* parameter: Suppose the current date is September 30 and you want to archive or delete data for processes that finished running more than 15 days ago (that is, before September 15). You would specify this parameter as 15.

pub.monitor.archive:serverArchive

Archives or deletes server data from the PRA_ERROR, WMSECURITY, WMSESSION, WMTXIN, and WMTXOUT tables in the IS Core Audit Log database component. Server data includes Integration Server server, session, and guaranteed delivery log entries, and error log entries that are not associated with logged processes, services, or documents (for example, errors that occur during startup or during the run of unlogged processes, services, activations, and documents).

Input Parameters

The following table lists the input parameters.

<i>todate</i>	<p>String Optional. Start date for the period to keep the data in the IS Core Audit Log database component. The period ends with and includes the current date. Use the format yyyy-mm-dd hh:mm:ss.</p> <p>Supply either <i>todate</i> or <i>days</i>. Do not supply both.</p>
<i>days</i>	<p>String Optional. Number of days to keep the data in the IS Core Audit Log database component, ending with and including the current date.</p> <p>Supply either <i>todate</i> or <i>days</i>. Do not supply both.</p>
<i>archiveAction</i>	<p>String Optional. Indicates whether to archive or delete the data.</p> <ul style="list-style-type: none"> ■ ARCHIVE Default. Copy the data from the IS Core Audit Log database component to the Archive database component and delete the data from the IS Core Audit Log database component. ■ DELETE Delete the data from the IS Core Audit Log database component without first archiving it.
<i>batchSize</i>	<p>String Optional. This parameter is ignored.</p>

Output Parameters

The following table lists the output parameters.

<i>message</i>	String Message that indicates the success of the archive or delete action.
<i>errorMessage</i>	String Errors that occurred during the archive or delete action.

Usage Notes

You can use this service with Integration Server Administrator to archive or delete data automatically, at specific times or intervals. To do so, build a service that calls the archive or delete service and sets its input parameters, then run the wrapper service as a scheduled task from Integration Server Administrator. For instructions on scheduling services to run at specific times, see *webMethods Integration Server Administrator's Guide*.

Examples

- *todate* parameter: Suppose the current date is September 30 and you want to archive or delete data that was logged more than 15 days ago (that is, before September 15). You would specify this parameter as `2003-10-15 00:00:00`.
- *days* parameter: Suppose the current date is September 30 and you want to archive or delete data that was logged more than 15 days ago (that is, before September 15). You would specify this parameter as `15`.

pub.monitor.archive:serviceArchive

Archives or deletes service log entries, input pipelines, error data, and user-defined messages from the PRA_ERROR table in the IS Core Audit Log database component and service control data (such as resubmit actions) from the PRA_PROCESS_ACTION table in the Process Audit Log database component.

Note: Monitor can archive user-defined messages for a service only if customized logging is set up for the service in Designer. That is, if service logging is globally enabled in Integration Server but customized logging is not set up for the service in Designer, Monitor cannot archive used-defined messages that a service writes.

Input Parameters

The following table lists the input parameters.

<i>todate</i>	String Optional. Start date for the period to keep the data in the IS Core Audit Log and Process Audit Log database components. The period ends with and includes the current date. Use the format <code>yyyy--mm-dd hh:mm:ss</code> . Supply either <i>todate</i> or <i>days</i> . Do not supply both.
<i>days</i>	String Optional. Number of days to keep the data in the IS Core Audit Log and Process Audit Log database components, ending with and including the current date. Supply either <i>todate</i> or <i>days</i> . Do not supply both.
<i>archiveAction</i>	String Indicates whether to archive or delete the data.

- **ARCHIVE** Default. Copy the data from the IS Core Audit Log and Process Audit Log database components to the Archive database component and delete the data from the and Process Audit Log database components.
- **DELETE** Delete the data from the IS Core Audit Log and Process Audit Log database components without archiving it first.

status **String** Indicates the status for which to archive or delete the data.

- **COMPLETED** Default. Archive or delete data for services with a status of Completed. Data for services with other statuses is retained in the database.
- **COMPLETED-FAILED** Archive or delete data for services with a status of Completed, Failed, or Resubmitted. Data for services with a status of other than those specified is retained in the database.

batchSize **String** Optional. Number of services to archive or delete at a time.

Output Parameters

The following table lists the output parameters.

message **String** Message that indicates the success of the archive or delete action.

errorMessage **String** Errors that occurred during the archive or delete action.

Usage Notes

You can use this service with Integration Server Administrator to archive or delete data automatically, at specific times or intervals. To do so, build a wrapper service that calls the archive or delete service and sets its input parameters; then run the wrapper service as a scheduled task from Integration Server Administrator. For instructions on scheduling services to run at specific times, see *webMethods Integration Server Administrator's Guide*.

Examples

- *todate* parameter: Suppose the current date is September 30 and you want to archive or delete data for 4.x activations that finished running more than 15 days ago (that is, before September 15). You would specify this parameter as 2003-10-15 00:00:00.
- *days* parameter: Suppose the current date is September 30 and you want to archive or delete data for 4.x activations that finished running more than 15 days ago (that is, before September 15). You would specify this parameter as 15.

pub.monitor.archive:setOperationParameters

Sets parameters in the OPERATION_PARAMETER table of the Archive database component if you are using Oracle, SQL Server, or DB2.

The names of the parameters in the table below exactly match the column names in the table.

Input Parameters

The following table lists the input parameters.

<i>COMMIT_SIZE</i>	String Optional. Number of documents, processes, or services to archive or delete at a time. Note: This parameter is ignored for server data.
<i>PROCESS_SCHEMA</i>	String Optional. To archive from the Process Audit Log database component, enter the following for the Process Audit Log database component. If the RDBMS is: <ul style="list-style-type: none">■ Oracle Enter the database user.■ SQL Server Enter the database name.■ DB2 Enter the schema name. If you do not want to archive from the Process Audit Log database component, enter null.
<i>ISCORE_SCHEMA</i>	String Optional. To archive from the IS Core Audit Log database component, enter the following for the IS Core Audit Log database component. If the RDBMS is: <ul style="list-style-type: none">■ Oracle Enter the database user.■ SQL Server Enter the database name.■ DB2 Enter the schema name. If you do not want to archive from the IS Core Audit Log database component, enter null.
<i>PROCESS_DAYS_TO_RETAIN</i>	String Optional. Default number of days to keep the process data in the IS Core Audit Log and Process Audit Log database components, ending with and including the current date. The service archives or deletes process data that is older than the retention period.
<i>PROCESS_ARCHIVE_ACTION</i>	String Optional. Default action to indicate whether a service should archive or delete the process data. <ul style="list-style-type: none">■ ARCHIVE Default. Copy the process data from the IS Core Audit Log and Process Audit Log database components to the Archive database component.

- DELETE Delete the process data from the IS Core Audit Log and Process Audit Log database components without archiving it first.

PROCESS_STATUS_CRITERIA **String** Optional. Default statuses of the process data that services should use to archive or delete the process data. Process data in other statuses is retained in the IS Core Audit Log and Process Audit Log database components.

- 2 Default. Archive or delete data for processes with a status of Completed.
- 4 Archive or delete data for processes with a status of Failed.
- 1024 Archive or delete data for processes with a status of Stopped.
- 32768 Archive or delete data for processes with a status of Resubmitted.

SERVICE_DAYS_TO_RETAIN **String** Optional. Default number of days to keep the service data in the or IS Core Audit Log database component, ending with and including the current date. The service archives or deletes service data that is older than the retention period.

SERVICE_ARCHIVE_ACTION **String** Optional. Default action to indicate whether a service should archive or delete the service data.

- ARCHIVE Default. Copy the service data from the IS Core Audit Log database component to the Archive database component.
- DELETE Delete the service data from the IS Core Audit Log database component without archiving it first.

SERVICE_STATUS_CRITERIA **String** Optional. Default statuses of the service data that services should use to archive or delete the service data. Service data in other statuses is retained in the IS Core Audit Log database component.

- 2 Default. Archive or delete data for services with status of Completed.
- 4 Archive or delete data for services with a status of Failed.
- 32768 Archive or delete data for services with a status of Resubmitted.
- 32776 Archive or delete data for services with a status of Activity.

ACTIVATION_DAYS_TO_RETAIN

String Optional. Default number of days to keep the 4.x activation data in the or IS Core Audit Log database component, ending with and including the current date. The service archives

or deletes 4.x activation data that is older than the retention period.

Note:

Logging data for activations has been deprecated.

ACTIVATION_ARCHIVE_ACTION

String Optional. Default action to indicate whether a service should archive or delete the 4.x activation data.

Note:

Logging data for activations has been deprecated.

- **ARCHIVE** Default. Copy the 4.x activation data from the IS Core Audit Log database component to the Archive database component.
- **DELETE** Delete the 4.x activation data from the IS Core Audit Log database component without archiving it first.

ACTIVATION_STATUS_CRITERIA

String Optional. Default statuses of the 4.x activation data that services should use to archive or delete the 4.x activation data. Data for 4.x activations in other statuses is retained in the IS Core Audit Log database component.

Note:

Logging data for activations has been deprecated.

- **2** Default. Archive or delete data for 4.x activations with a status of Completed.
- **4** Archive or delete data for 4.x activations with a status of Failed.

DOCUMENT_DAYS_TO_RETAIN

String Optional. Default number of days to keep the document data in the or IS Core Audit Log database component, ending with and including the current date. The service archives or deletes document data that is older than the retention period.

DOCUMENT_ARCHIVE_ACTION

String Optional. Default action to indicate whether a service should archive or delete the document data.

- **ARCHIVE**. Default. Copy the document data from the IS Core Audit Log database component to the Archive database component.
- **DELETE**. Delete the document data from the IS Core Audit Log database component without archiving it first.

SERVER_DAYS_TO_RETAIN

String Optional. Default number of days to keep the server data in the or IS Core Audit Log database component, ending with

	and including the current date. The service archives or deletes server data that is older than the retention period.
<i>SERVER_ARCHIVE_ACTION</i>	<p>String Optional. Default action to indicate whether a service should archive or delete the server data.</p> <ul style="list-style-type: none"> ■ ARCHIVE. Default. Copy the server data from the IS Core Audit Log database component to the Archive database component. ■ DELETE. Delete the server data from the IS Core Audit Log database component without archiving it first.
<i>DBO_PROCESSES</i>	<p>Boolean Optional. Determines whether Dynamic Business Orchestrator processes are archived. Valid values are:</p> <ul style="list-style-type: none"> ■ TRUE. Dynamic Business Orchestrator processes are archived. ■ FALSE. Default. Process Engine processes are archived.
<i>DBO_PROCESS_STATUS_CRITERIA</i>	<p>String Optional. When the value of the <i>DBO_PROCESSES</i> parameter is set to TRUE, the value of this parameter determines the statuses of the process data that services use to archive the Dynamic Process Orchestrator process data. Dynamic Process Orchestrator process data in other statuses is retained in the IS Core Audit Log and Process Audit Log database components. Valid values are:</p> <ul style="list-style-type: none"> ■ 102. Default. Completed Dynamic Process Orchestrator processes. ■ 103. Default. Cancelled Dynamic Process Orchestrator processes. ■ 104. Default. Terminated Dynamic Process Orchestrator processes. <div style="background-color: #f0f0f0; padding: 5px; margin-top: 10px;"> <p>Note: The criteria values of this parameter are separated by commas.</p> </div>
<i>USE_BATCH_ARCHIVE</i>	<p>Boolean Optional. ORACLE only. Determines batch archiving is enabled for service archiving and server archiving for faster archiving operations. Valid values are:</p> <ul style="list-style-type: none"> ■ TRUE. Server and service archiving will use batch archiving. ■ FALSE. Default. Server and service archiving will not use batch archiving.

RETAIN_PARENT_CHILD_LINK **String** Optional. DB2 only. Configures whether the processarchive procedure retains the relationship between parent and child process instances. Valid values are:

- **Y.** Retains the relationship between parent and child process instances.
- **N.** Does not retain the relationship between parent and child process instances.

Output Parameters

The following table lists the output parameters.

<i>message</i>	String Message that indicates that the parameters have been set.
----------------	---

Usage Notes

- You can specify more than one status on the *_STATUS_CRITERIA* parameters. To do so, separate the codes using commas.
- When the *RETAIN_PARENT_CHILD_LINK* parameter is set to **Y**, you cannot use model Id as a criteria to determine when to archive the process instances. In this case, Monitor applies the values of the *PROCESS_STATUS_CRITERIA* and *PROCESS_DAYS_TO_RETAIN* parameters to the parent and child instances and archives the parent with its child instances only when all instances meet the specified values.
- When the *RETAIN_PARENT_CHILD_LINK* parameter is set to **N**, the process is archived or deleted without retaining the relationship between parent and child process instances.

Examples

- *PROCESS_STATUS_CRITERIA* parameter: Suppose you want to archive processes with a status of Completed or Failed, specify 2,4 for the *PROCESS_STATUS_CRITERIA* parameter.
- *SERVICE_DAYS_TO_RETAIN* parameter: Suppose the current date is September 30 and you want to archive or delete data for services that finished running more than 15 days ago (that is, before September 15); specify this parameter as 15.

2 pub.monitor.document Folder

■ Summary of Elements in This Folder	26
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■ pub.monitor.document:getActions	27
■ pub.monitor.document:getDetails	28
■ pub.monitor.document:getDocument	29
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Summary of Elements in This Folder

The following table lists and describes the services.

Service and Description
pub.monitor.document:exists
Determines whether a specified document exists in the logging database.
pub.monitor.document:getActions
Gets all resubmit actions associated with a specified document.
pub.monitor.document:getDetails
Gets the most recently logged details about a specified document.
pub.monitor.document:getDocument
Retrieves a specified document from the logging database.
pub.monitor.document:getList
Retrieves a list of documents that meet criteria that you specify.

pub.monitor.document:exists

Determines whether a specified document exists in the logging database.

Input Parameters

The following table lists the input parameters.

<i>documentID</i>	String Document ID of the document to check for in the logging database. Specify the complete, exact ID.
-------------------	---

Note:

Whether the *documentID* is treated as case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

Output Parameters

The following table lists the output parameters.

<i>exists</i>	String Indicates whether the document exists in the logging database. <ul style="list-style-type: none">■ true Document exists in the database.
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- false Document does not exist in the database.

pub.monitor.document:getActions

Gets all resubmit actions associated with a specified document.

Input Parameters

The following table lists the input parameters.

<i>documentID</i>	String Document ID of the document for which you want to obtain resubmit actions. Specify the complete, exact ID.
-------------------	--

Note:

Whether the *documentID* is treated as case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

Output Parameters

The following table lists the output parameters.

<i>actions</i>	<p>Document List The retrieved resubmit actions; each row contains these fields:</p> <ul style="list-style-type: none"> ■ <i>ROOTCONTEXTID</i> String The internal identifier that Integration Server uses. ■ <i>PARENTCONTEXTID</i> String The internal identifier that Integration Server uses. ■ <i>CONTEXTID</i> String The internal identifier that Integration Server uses. ■ <i>DOCUMENTID</i> String Document ID for which the resubmit action was logged. ■ <i>DOCUMENTNAME</i> String Document name for which the resubmit action was logged. ■ <i>ACTION</i> Number Numerical code that represents the resubmit action, that is, 2. ■ <i>ACTIONDECODE</i> String Localized keyword value for the resubmit action, that is (in English), "Document Resubmit." ■ <i>USERNAME</i> String User that performed the resubmit action. ■ <i>SERVERID</i> String Server ID associated with the resubmitted document. <ul style="list-style-type: none"> ■ For webMethods Broker (deprecated)-logged documents, ID of the publishing webMethods Broker (deprecated).
----------------	--

- For in doubt documents, documents that failed during delivery or retrieval, and documents where the retries were exceeded and could not be delivered, ID of the intended recipient.
- For documents that failed during publishing and for documents where the retries were exceeded and could not be published, no server ID is listed.
- **AUDITTIMESTAMP Number** Time the resubmit action was logged, in epoch time; that is, the number of seconds since January 1, 1970.
- **AUDITTIMESTRING String** Time the resubmit action was logged in string format, YYYY-MM-DD hh:mm:ss.SSS zzz, where:
 - YYYY-MM-DD is the date
 - hh:mm:ss:SSS is the time, including milliseconds
 - zzz is the time zone

pub.monitor.document:getDetails

Gets the most recently logged details about a specified document.

Input Parameters

The following table lists the input parameters.

<i>documentID</i>	String Document ID of the document for which to get logged details. Specify the complete, exact ID. If there are multiple entries with the same document ID, the service returns all the entries.
-------------------	--

Note:

Whether the *documentID* is treated as case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

Output Parameters

The following table lists the output parameters.

<i>details</i>	Document List The retrieved details. For each document that matches the specified document ID, the service returns the following logged details: <ul style="list-style-type: none">■ DOCUMENTID String Document ID you specified; that is the document ID to which these details apply.■ DOCUMENTNAME String Document name of the document.
----------------	---

- **STATUS Number** Document type of the document. The service returns the numerical value that represents the type, as follows:
 - 0 webMethods Broker (deprecated)
 - 4 Failed
 - 512 Retries Exceeded
 - 32770 In question
- **STATUSDECODE String** The localized keyword value for the document type. The keyword (in English) will be one of: webMethods Broker(deprecated), Retries Exceeded, In Doubt, or Failed.
- **ENQUEUE_TIMESTAMP String** If a webMethods Broker (deprecated) logged the document, the time webMethods Broker(deprecated) first enqueued the document; otherwise it is null. The timestamp is in string format, YYYY-MM-DD hh:mm:ss.SSS zzz, where:
 - YYYY-MM-DD is the date
 - hh:mm:ss:SSS is the time, including milliseconds
 - zzz is the time zone
- **SERVERID String** The server ID associated with the document:
 - For webMethods Broker(deprecated)-logged documents, ID of the publishing webMethods Broker(deprecated).
 - For in doubt documents, documents that failed during delivery or retrieval, and documents where the retries were exceeded and could not be delivered, ID of the intended recipient.
 - For failed documents that failed during publishing and for retries exceeded documents that could not be published, no server ID is listed.
- **AUDIT_TIMESTAMP Number** Time this document was logged, in epoch time; that is, the number of seconds since January 1, 1970.
- **AUDIT_TIMESTAMP String** Time this document was logged in string format, YYYY-MM-DD hh:mm:ss.SSS zzz, where:
 - YYYY-MM-DD is the date
 - hh:mm:ss:SSS is the time, including milliseconds
 - zzz is the time zone

pub.monitor.document:getDocument

Retrieves a specified document from the logging database.

Input Parameters

The following table lists the input parameters.

documentID **String** Document ID of the document you want to retrieve. Specify the complete, exact ID.

Note:

Whether the *documentID* is treated as case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

Output Parameters

The following table lists the output parameters.

document **Document** The retrieved document.

pub.monitor.document:getList

Retrieves a list of documents that meet criteria that you specify.

Note:

Whether the search is case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

Input Parameters

The following table lists the input parameters.

documentID **String** Optional. A complete or partial document ID of the documents you want in the list.

type **String** Optional. The document type to list. Use *type* if you want the list to contain all documents of one document type. You can specify either a keyword (for example, *Broker*) or a numerical value that represents the type (for example, 0). Use the value that corresponds to the type of document you want to retrieve.

- *Broker* or 0 webMethods Broker(deprecated)-logged documents
- *In Doubt* or 32770 In doubt documents
- *Retries Exceeded* or 512 Retries exceeded documents
- *Failed* or 4 Failed documents

<i>typeSet</i>	<p>String List Optional. A set of document types to retrieve. Use <i>typeSet</i> when you want the list to contain documents of more than one type. For each document type, you can specify either a keyword (for example, <i>Broker</i>) or a numerical value that represents the type (for example, <i>0</i>). Valid values are:</p> <ul style="list-style-type: none"> ■ <i>Broker</i> or <i>0</i> webMethods Broker(deprecated)-logged documents ■ <i>In Doubt</i> or <i>32770</i> In doubt documents ■ <i>Retries Exceeded</i> or <i>512</i> Retries exceeded documents ■ <i>Failed</i> or <i>4</i> Failed documents
<i>documentName</i>	<p>String Optional. A complete or partial document name on which to match. This works with the <i>documentNameExact</i> parameter.</p>
<i>documentNameExact</i>	<p>String Optional. Whether the service should perform an exact match on the document name you specify in <i>documentName</i>.</p> <ul style="list-style-type: none"> ■ <i>true</i> Get documents whose document name exactly matches the <i>documentName</i> parameter. ■ <i>false</i> Default. Get documents whose document name contains a substring that matches the <i>documentName</i> parameter.
<i>clientID</i>	<p>String Optional. A complete or partial client ID to match. This parameter works with the <i>clientIDExact</i> parameter. Supply the client ID that matches the document type you want to retrieve:</p> <ul style="list-style-type: none"> ■ For webMethods Broker(deprecated)-logged documents, the IDs of the webMethods Brokers(deprecated) that logged the documents. ■ For in doubt documents, the IDs of the webMethods Broker(deprecated) clients associated with the triggers that processed the documents originally. ■ For documents that failed and exceeded retries during delivery, the IDs of the original destination webMethods Broker(deprecated) clients. ■ For documents that failed documents during retrieval, the IDs of the webMethods Broker(deprecated) clients associated with the triggers for which Integration Server tried to retrieve the documents originally. <div style="background-color: #f0f0f0; padding: 10px; margin-top: 10px;"> <p>Note: For documents that failed and exceeded retries during publication, there is no client ID on which to search.</p> </div> <p>The format for webMethods Broker(deprecated) IDs is <i>Broker@host:port</i> (for example, <i>Cust0ps@qatest07:6849</i>). The format for IDs of webMethods Broker(deprecated) clients is <i>clientprefix_folder1.folder2.foldern_trigger</i> (for example, <i>joesmith_documents.history.triggers_MsgHistoryTrigger</i>).</p>

<i>clientIDExact</i>	<p>String Optional. Whether the service should perform an exact match on the client ID you specify in <i>clientID</i>. Valid values are:</p> <ul style="list-style-type: none">■ <code>true</code> Get documents where the document name exactly matches the <i>clientID</i> parameter.■ <code>false</code> Default. Get documents with a document name contains a substring that matches the <i>clientID</i> parameter.
<i>range</i>	<p>String Optional. A date range for the documents you want in the list. The date range identifies the date when the documents were logged. If you use this parameter, do not use the <i>fromDate</i> or <i>toDate</i> parameter. A week is Sunday through Saturday.</p> <ul style="list-style-type: none">■ <code>Today</code> Current date.■ <code>Yesterday</code> Yesterday.■ <code>In the last 7 days</code> Within the last 7 days, including today.■ <code>Last week</code> Any day in the previous calendar last week.■ <code>This week</code> Any day in current calendar week.■ <code>Last month</code> Any day in the previous calendar month.■ <code>This month</code> Any day in the current calendar month.■ <code>Year to date</code> Any day in the current calendar year.
<i>fromDate</i>	<p>String Optional. The start date of when the documents were logged. The service will get all documents logged on or after this date. Use the format <code>YYYY-MM-DD HH:MM:SS</code>. If you use this parameter, use <i>toDate</i> to specify an end date; do not use the <i>range</i> parameter when you use the <i>fromDate</i> and <i>toDate</i> parameters.</p>
<i>toDate</i>	<p>String Optional. The end date of when the documents were logged. The service will get all documents logged on or before this date. Use the format <code>YYYY-MM-DD HH:MM:SS</code>.</p>
<i>maxRows</i>	<p>String Optional. Maximum number of documents to find, starting with those most recently logged. By default, the service gets all documents.</p>
<i>sortColumn</i>	<p>String Optional. How to sort the returned list of documents. This parameter works with the <i>sortAscending</i> parameter.</p> <ul style="list-style-type: none">■ <code>DOCUMENTID</code> Document IDs of the returned documents.■ <code>DOCUMENTNAME</code> Document names of the returned documents.■ <code>STATUS</code> Document types of the returned documents, sorted based on the numerical order as follows:<ul style="list-style-type: none">■ <code>0</code> Broker

	<ul style="list-style-type: none"> ■ 4 Failed ■ 512 Retries Exceeded ■ 32770 In Doubt
	<ul style="list-style-type: none"> ■ SERVERID Server ID associated with the returned documents. ■ ENQUEUETIMESTAMP Time that webMethods Broker(deprecated) first enqueued the returned documents. This is only available for documents logged by webMethods Broker(deprecated). ■ AUDITTIMESTAMP Default. Time the returned documents were logged.
<i>sortAscending</i>	<p>String Optional. Whether to sort the returned list of documents in ascending or descending order. The documents are sorted by the field identified by the <i>sortColumn</i> parameter.</p> <ul style="list-style-type: none"> ■ true Default. Sort in ascending order. ■ false Sort in descending order.
<i>isAnd</i>	<p>String Optional. Whether the service is to use an AND or an OR condition for the criteria specified in the input parameters.</p> <ul style="list-style-type: none"> ■ true Default. Use an AND condition. The service returns documents that match all of the criteria. ■ false Use an OR condition. The service returns documents that match any of the criteria.

Output Parameters

The following table lists the output parameters.

<i>documents</i>	<p>Document List List of documents that match the specified criteria. For each document, the following fields are returned:</p> <ul style="list-style-type: none"> ■ <i>DOCUMENTID</i> String Document ID of a returned document. ■ <i>DOCUMENTNAME</i> String Document name of a returned document. ■ <i>STATUS</i> Number Document type of a returned document. The service returns the numerical value that represents the document type: <ul style="list-style-type: none"> ■ 0 webMethods Broker(deprecated)-logged documents. ■ 4 Failed documents. ■ 32770 In doubt documents. ■ 512 Retries exceeded documents.
------------------	---

- **STATUSCODE String** The localized keyword value for the document type. The keyword (in English) is one of: webMethods Broker(deprecated), Retries Exceeded, In Doubt, or Failed.
- **ENQUEUE_TIMESTAMP String** If the document was logged by a Broker(deprecated), the time the Broker(deprecated) first enqueued the document. The timestamp is in string format, YYYY-MM-DD hh:mm:ss.SSS zzz, where:
 - YYYY-MM-DD is the date
 - hh:mm:ss.SSS is the time, including milliseconds
 - zzz is the time zone
- **SERVERID String** The server ID associated with the documents:
 - For Broker-logged(deprecated) documents, ID of the publishing Broker.
 - For in doubt documents, documents that failed during delivery or retrieval, and documents where the retries were exceeded, ID of the intended recipient.
 - For documents that failed and exceeded retries during publishing, no client ID is listed.
- **AUDIT_TIMESTAMP Number** Time the document was logged, in epoch time; that is, the number of seconds since January 1, 1970.
- **AUDIT_TIMESTAMP_STRING String** Time this document was logged in string format, YYYY-MM-DD hh:mm:ss.SSS zzz, where:
 - YYYY-MM-DD is the date
 - hh:mm:ss.SSS is the time, including milliseconds
 - zzz is the time zone

3 pub.monitor.documentControl Folder

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- pub.monitor.documentControl:resubmit 36

Summary of Elements in This Folder

The following table lists and describes the services.

Service and Description

[pub.monitor.documentControl:resubmit](#)

Resubmits a document.

pub.monitor.documentControl:resubmit

Resubmits a document.

Note: Monitor handles two types of documents:

1. Documents sent directly from Broker (deprecated) using the WmLogUtil package.
2. Documents marked as in-doubt by Integration Server triggers.

In both cases, documents can be viewed and resubmitted from Monitor. However, use case 1 is not supported when Universal Messaging is in use. Use case 2 is supported with Universal Messaging .

Input Parameters

The following table lists the input parameters.

<i>documentID</i>	String Document ID of the document to resubmit. Specify the complete, exact ID.
-------------------	--

Note:

Whether Monitor treats *documentID* as case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

<i>document</i>	Document Optional. Document to resubmit. To retrieve the document, use the pub.monitor.document:getDocument service. If you do not provide <i>document</i> or if you do not have the functional privilege to resubmit the document, the service retrieves the document logged in the database under the specified document ID.
-----------------	---

Output Parameters

None.

Usage Notes

Monitor resubmits documents as follows in the table below:

For this type of document	Monitor
Broker(deprecated)-logged documents	Publishes the documents to the webMethods Broker (deprecated) to which the Monitor-equipped Integration Server is connected.
In doubt documents	Delivers the documents to the triggers that processed the documents originally.
Failed documents that failed during delivery	Delivers the documents to the original destination webMethods Broker (deprecated) clients.
Failed documents that failed during publication	Publishes the documents to the webMethods Broker (deprecated) to which the Monitor-equipped Integration Server is connected.
Failed documents that failed during retrieval	Delivers the documents to the triggers for which Integration Server tried to retrieve the documents originally.
Retries exceeded documents that were exceeded during delivery	Delivers the documents to the original destination Broker (deprecated) clients.
Retries exceeded documents that were exceeded during publication	Publishes the documents to the webMethods Broker (deprecated) to which the Monitor-equipped Integration Server is connected.

4 pub.monitor.integrationProcessLogging Folder

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■ pub.monitor.integrationProcessLogging:createProcessError	44
■ pub.monitor.integrationProcessLogging:createProcessInstance	45
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■ pub.monitor.integrationProcessLogging:createStepMetadata	48
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Summary of Elements in This Folder

Note:

The `pub.monitor.integrationProcessLoggingservices` pass data to the database through the Integration Server audit service. The Integration Server audit service might take some time to store data in the database. Make sure you introduce a delay between each `pub.monitor.integrationProcessLogging` service execution to avoid any errors.

For information about how to use these services, see information about integration process logging in *webMethods Monitor User's Guide*.

The following table describes these services.

Service and Description

[pub.monitor.integrationProcessLogging:createLoggedFieldInstance](#)

Creates an instance of a logged field, setting the field's value to the value that you specify and associating the logged field with the step in the process instance that you specify.

[pub.monitor.integrationProcessLogging:createLoggedFieldMetadata](#)

Adds a definition for a logged field (known as logged field metadata) to the Process Audit Log database. The logged field definition is associated with a specific step definition that is part of a specific integration process definition.

[pub.monitor.integrationProcessLogging:createProcessError](#)

Adds a process error message to an existing process instance in the Process Audit Log.

[pub.monitor.integrationProcessLogging:createProcessInstance](#)

Creates a new process instance of a specified integration process.

[pub.monitor.integrationProcessLogging:createProcessMetadata](#)

Adds a definition for an integration process (known as process metadata) to the Process Audit Log database.

[pub.monitor.integrationProcessLogging:createStepInstance](#)

Creates a new step instance of the specified process step.

[pub.monitor.integrationProcessLogging:createStepMetadata](#)

Adds a definition for a step within an integration process (known as step metadata) to the Process Audit Log database.

[pub.monitor.integrationProcessLogging:generateProcessInstanceID](#)

Generates a unique process instance ID.

Service and Description

[pub.monitor.integrationProcessLogging:updateProcessInstanceStatus](#)

Updates the process status of an existing process instance.

[pub.monitor.integrationProcessLogging:updateStepInstanceStatus](#)

Updates the step status of an existing step instance.

[pub.monitor.integrationProcessLogging:createLoggedFieldInstance](#)

Creates an instance of a logged field, setting the field's value to the value that you specify and associating the logged field with the step in the process instance that you specify.

Input Parameters

The following table lists the input parameters.

<i>processKey</i>	<p>String The internal identifier (that is, process key) of the integration process definition with which the logged field is associated. You define the process key when you add the process definition to the Process Audit Log using the pub.monitor.integrationProcessLogging:createProcessMetadata service.</p> <p>A process key is 1 to 64 alphanumeric characters.</p>
<i>processInstanceID</i>	<p>String The identifier of the process instance for which you are logging a field. You assign the process instance an identifier when you create the process instance using the pub.monitor.integrationProcessLogging:createProcessInstance service.</p> <p>A process instance ID is 1 to 32 alphanumeric characters.</p>
<i>stepID</i>	<p>String The internal identifier of the process step with which the logged field is associated. You define the step identifier and associate it with a process step when you add the step definition to the Process Audit Log using the pub.monitor.integrationProcessLogging:createStepMetadata service.</p> <p>A step identifier is 1 to 128 alphanumeric characters.</p>
<i>stepIteration</i>	<p>Number Optional. The iteration of the step. Specify an iteration count if the step is executed multiple times within a single process instance, for example, if the step is within a loop or is an error handling step that can be executed more than one time. By default, the service uses a value of 1 for <i>stepIteration</i>.</p>
<i>documentName</i>	<p>String Optional. The name of the document that contains the logged field. The value you specify for <i>documentName</i> must be 1 to 128 characters and can include characters that are valid in IS service names. See the <i>webMethods Service Development Help</i> for information about allowed characters.</p>

<i>fieldName</i>	String The internal name of the logged field for which you want to create an instance. You define the internal name when you add the logged field definition to the Process Audit Log using the pub.monitor.integrationProcessLogging:createLoggedFieldMetadata service. A field name is 1 to 512 alphanumeric characters.
<i>fieldValue</i>	Object Optional. The BLOB value of the logged field. Use <i>fieldValue</i> if <code>Blob</code> is specified for the input parameter <i>fieldType</i> of the pub.monitor.integrationProcessLogging:createLoggedFieldMetadata service when the logged field definition is added.
<i>stringValue</i>	String Optional. The string value of the logged field. Use <i>stringValue</i> if <code>String</code> is specified for the input parameter <i>fieldType</i> of the pub.monitor.integrationProcessLogging:createLoggedFieldMetadata service when the logged field definition is added. This value can be 1 to 255 characters.
<i>numberValue</i>	Number Optional. The number value of the logged field. Use <i>numberValue</i> if <code>Number</code> is specified for the input parameter <i>fieldType</i> of the pub.monitor.integrationProcessLogging:createLoggedFieldMetadata service when the logged field definition is added.
<i>dateValue</i>	Date Optional. The date value of the logged field. Use <i>dateValue</i> if <code>Date</code> is specified for the input parameter <i>fieldType</i> of the pub.monitor.integrationProcessLogging:createLoggedFieldMetadata service when the logged field definition is added.

Output Parameters

The following table lists the output parameters.

<i>result</i>	String The outcome of creating the logged field instance. If the service successfully created the logged field instance, <i>result</i> is "success." If the service encountered an error attempting to create the logged field instance, <i>result</i> contains the exception.
---------------	---

Usage Notes

- This service uses a combination of the values you specify for *processInstanceID*, *stepID*, *stepIteration*, and *fieldName* to locate the logged field definition for which you want create a field instance and supply a value.
- The service requires that you specify a value for the logged field using one of *fieldValue*, *stringValue*, *numberValue*, or *dateValue*. Use the variable that matches the data type used in the logged field definition. The data type is defined using the *fieldType* input parameter of the [pub.monitor.integrationProcessLogging:createLoggedFieldMetadata](#) service.

- If you specify values in more than one parameters (for example, if you specify values for both *fieldValue* and *stringValue*), the service uses the value that is associated with the data type of the logged field definition.
- If the service encounters an error, it logs an error to the PRA_ERROR table. You can view the error using Monitor with the Step Instance Detail page for the step instance.

pub.monitor.integrationProcessLogging:createLoggedFieldMetadata

Adds a definition for a logged field (known as logged field metadata) to the Process Audit Log database. The logged field definition is associated with a specific step definition that is part of a specific integration process definition.

The logged field definition is comparable to custom data for a process model that was created with Designer. In the same way you need to create a field defined in a document before you can specify a value for that field, you need to define a logged field definition for an integration process before you can specify a value for the field.

Input Parameters

The following table lists the input parameters.

<i>processKey</i>	<p>String The internal identifier (that is, process key) of the integration process definition with which the logged field is to be associated. You defined the process key when you added the process definition to the Process Audit Log using the pub.monitor.integrationProcessLogging:createProcessMetadata service.</p> <p>A process key is 1 to 64 alphanumeric characters.</p>
<i>stepID</i>	<p>String The internal identifier of the process step with which the logged field is to be associated. You defined the step identifier and associated it with a process step when you added the step definition to the Process Audit Log using the pub.monitor.integrationProcessLogging:createStepMetadata service.</p> <p>A step identifier is 1 to 128 alphanumeric characters.</p>
<i>documentType</i>	<p>String A name that identifies the type of document with which the logged field is to be associated. For example, you might specify a name like “purchaseOrder” or you might specify the fully qualified name of an existing IS document type. The document type you specify does <i>not</i> have to be an existing document defined in a webMethods component, such as a webMethods Broker (deprecated) document type, IS document type, or TN document type. The value you specify for <i>documentType</i> must be 1 to 512 characters and can include characters that are valid in IS service names. See <i>webMethods Service Development Help</i> for information about allowed characters.</p>
<i>fieldName</i>	<p>String The internal name you want to assign to the logged field. The value you specify for <i>fieldName</i> must be 1 to 512 alphanumeric characters. Use this name in subsequent services when you want to reference this logged field definition. It is an internal name only; Monitor does not display this value.</p>

<i>fieldAlias</i>	String The external name you want to assign to the logged field. The value you specify for <i>fieldAlias</i> must be 1 to 640 alphanumeric characters. Monitor displays this value when listing information about the logged field.
<i>fieldType</i>	String The data type of the logged field. Specify one of the following: <code>String</code> , <code>Number</code> , <code>Date</code> , or <code>Blob</code> .

Output Parameters

The following table lists the output parameters.

<i>result</i>	String The outcome of adding the logged field definition. If the service successfully added the logged field definition, <i>result</i> is "success." If the service encountered an error attempting to add the logged field definition, <i>result</i> contains the exception.
---------------	--

pub.monitor.integrationProcessLogging:createProcessError

Adds a process error message to an existing process instance in the Process Audit Log.

Note:

This service does not cause the integration process to fail. It also leaves the process status unchanged; that is, the process status is *not* updated to Failed.

Input Parameters

The following table lists the input parameters.

<i>processInstanceID</i>	String The identifier of the process instance for which you want to add an error message. You assigned the process instance an identifier when you created the process instance using the pub.monitor.integrationProcessLogging:createProcessInstance service. A process instance ID is 1 to 32 alphanumeric characters.
<i>serviceName</i>	String Optional. The name of the service in which the error occurred. This is typically the fully qualified name of the IS service that caused the process error. The value you specify for <i>serviceName</i> can be 1 to 512 characters and can include characters that are valid in IS service names. See <i>webMethods Service Development Help</i> for information about allowed characters.
<i>errorMsg</i>	String The text of the error message that describes the error message. The value you specify for <i>errorMsg</i> can be 1 to 1024 characters.
<i>errorStackTrace</i>	String Optional. The stack trace associated with the error. The value you specify for <i>errorMsg</i> can be 1 to 2000 characters.

Output Parameters

The following table lists the output parameters.

<i>result</i>	String The outcome of adding the error message to the process instance. If the service successfully added the error message, <i>result</i> is "success." If the service encountered an error attempting to add the error message, <i>result</i> contains the exception.
---------------	--

Usage Notes

- You can view the error messages you add with this service using Monitor by viewing the Process Instance Detail page.
- If the service encounters an error, it logs an error to the PRA_ERROR table. You can view the error using Monitor with the Process Instance Detail page.

pub.monitor.integrationProcessLogging:createProcessInstance

Creates a new process instance of a specified integration process.

Input Parameters

The following table lists the input parameters.

<i>processKey</i>	String The internal identifier (that is, process key) of the integration process for which you want to create an instance. The process key that you specify must already be defined in the Process Audit Log. You defined the process key and associated it with an integration process when you added the process definition to the Process Audit Log using the pub.monitor.integrationProcessLogging:createProcessMetadata service.
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A process key is 1 to 64 alphanumeric characters.

<i>processInstanceID</i>	String The process instance ID you want to assign to the new process instance you are creating. You can create your own process instance ID or use the pub.monitor.integrationProcessLogging:generateProcessInstanceID service to generate one.
--------------------------	--

If you create your own process instance ID, the ID must be 1 to 32 characters.

Output Parameters

The following table lists the output parameters.

<i>result</i>	String The outcome of creating the process instance. If the service successfully created the process instance, <i>result</i> is "success." If the service
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encountered an error attempting to create the process instance, *result* contains the exception.

Usage Notes

- The new process instance is added to the Process Audit Log.
- After initially creating a new process instance, the process instance status is Started.
- If this service encounters errors, you can review the errors on the My webMethods pages you use to monitor services.

pub.monitor.integrationProcessLogging:createProcessMetadata

Adds a definition for an integration process (known as process metadata) to the Process Audit Log database.

The process definition is comparable to an entry in the Process Audit Log for a process model that was created with Designer. In the same way you need to create a process model before you can execute process instances that use the model, you need to define the integration process definition before you can create instances of the integration process.

When you add the definition, as part of the process metadata, the service includes a blank image because there is no model diagram for the process. You cannot specify an image to associate with the process definition.

Input Parameters

The following table lists the input parameters.

<i>processKey</i>	String An identifier (that is, process key) that you assign to the integration process, for example, <i>OrderProcess</i> . The value you specify for <i>processKey</i> must be 1 to 64 alphanumeric characters. You use this identifier in subsequent services when you want to reference this process definition. It is an internal identifier only; Monitor does not display this value.
<i>processLabel</i>	String A process name that you assign to the integration process. The value you specify for <i>processLabel</i> must be 1 to 1024 alphanumeric characters. Monitor displays this value when listing information about the integration process.

Output Parameters

The following table lists the output parameters.

<i>result</i>	String The outcome of adding the process definition. If the service successfully added the process definition, <i>result</i> is "success." If the service encountered an error attempting to add the process definition, <i>result</i> contains the exception.
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Usage Notes

If this service encounters errors, you can review the errors on the My webMethods pages you use to monitor services.

pub.monitor.integrationProcessLogging:createStepInstance

Creates a new step instance of the specified process step.

Input Parameters

The following table lists the input parameters.

<i>processKey</i>	<p>String The internal identifier (that is, process key) of the integration process definition that the step is a part of. You defined the process key when you added the process definition to the Process Audit Log using the pub.monitor.integrationProcessLogging:createProcessMetadata service.</p> <p>A process key is 1 to 64 alphanumeric characters.</p>
<i>processInstanceID</i>	<p>String The identifier of the process instance that the step instance is a part of. You assigned the process instance an identifier when you created the process instance using the pub.monitor.integrationProcessLogging:createProcessInstance service.</p> <p>A process instance ID is 1 to 32 alphanumeric characters.</p>
<i>stepID</i>	<p>String The internal identifier of the process step for which you want to create an instance. The step identifier that you specify must already be defined in the Process Audit Log. You defined the step identifier and associated it with a process step when you added the step definition to the Process Audit Log using the pub.monitor.integrationProcessLogging:createStepMetadata service.</p> <p>A step identifier is 1 to 128 alphanumeric characters.</p>
<i>stepIteration</i>	<p>Number Optional. The iteration of the step you are creating. Specify an iteration count if the step is executed multiple times within a single process instance, for example, if the step is within a loop or is an error handling step that can be executed more than one time. By default, the service uses a value of 1 for <i>stepIteration</i>.</p>

Output Parameters

The following table lists the output parameters.

result **String** The outcome of creating the step instance. If the service successfully created the step instance, *result* is "success." If the service encountered an error attempting to create the step instance, *result* contains the exception.

Usage Notes

- The new step instance is added to the Process Audit Log.
- After initially creating a new step instance, the step instance status is Started.
- If this service encounters errors, you can review the errors on the My webMethods pages you use to monitor services.

pub.monitor.integrationProcessLogging:createStepMetadata

Adds a definition for a step within an integration process (known as step metadata) to the Process Audit Log database.

The step definition is comparable to an entry in the Process Audit log for a step in a process model that was created with Designer. In the same way you need to create steps within a process model before you can execute instances of those steps, you need to define the step definitions for steps in an integration process before you can create the step instances for the integration process.

When you add the step definition, as part of the step metadata, the service includes a blank image because there is no step icon for the process step. You cannot specify an image to associate with the step definition.

Input Parameters

The following table lists the input parameters.

<i>processKey</i>	String The internal identifier (that is, process key) of the integration process definition that the step you are defining is a part of. You defined the process key when you added the process definition to the Process Audit Log using the pub.monitor.integrationProcessLogging:createProcessMetadata service. A process key is 1 to 64 alphanumeric characters.
<i>stepID</i>	String An identifier that you assign to the process step. The value you specify for <i>stepID</i> must be 1 to 128 alphanumeric characters. You use this identifier in subsequent services when you want to reference this step definition. It is an internal identifier only; Monitor does not display this value.
<i>stepLabel</i>	String A step name that you assign to the process step. The value you specify for <i>stepLabel</i> must be 1 to 1024 alphanumeric characters. Monitor displays this value when listing information about the process step.

Output Parameters

The following table lists the output parameters.

<i>result</i>	String The outcome of adding the step definition. If the service successfully added the step definition, <i>result</i> is "success." If the service encountered an error attempting to add the step definition, <i>result</i> contains the exception.
---------------	--

Usage Note

If this service encounters errors, you can review the errors on the My webMethods pages you use to monitor services.

pub.monitor.integrationProcessLogging:generateProcessInstanceID

Generates a unique process instance ID.

Input Parameters

None.

Output Parameters

The following table lists the output parameters.

<i>processInstanceID</i>	String The process instance ID that the service generated.
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Usage Notes

- This service does not save the generated process instance ID to the Process Audit Log database.
- Other services in the pub.monitor.integrationProcessLogging folder require a process instance ID as input. You can use this service to generate one rather than creating your own process instance ID.

pub.monitor.integrationProcessLogging:updateProcessInstanceStatus

Updates the process status of an existing process instance.

Input Parameters

The following table lists the input parameters.

<i>processKey</i>	String The internal identifier (that is, process key) of the integration process definition that the process instance uses. You defined the process
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key when you added the process definition to the Process Audit Log using the [pub.monitor.integrationProcessLogging:createProcessMetadata](#) service.

A process key is 1 to 64 alphanumeric characters.

processInstanceID

String The identifier of the process instance whose status you want to update. You assigned the process instance an identifier when you created the process instance using the [pub.monitor.integrationProcessLogging:createProcessInstance](#) service.

A process instance ID is 1 to 32 alphanumeric characters.

status

String The status code number that represents the status you want to assign to the process instance. For a list of status codes you can use, see [“Status Reference” on page 185](#).

Note:

If you are setting the value of *status* using Designer, Designer displays the list of status values rather than listing the status code numbers.

Output Parameters

The following table lists the output parameters.

result

String The outcome of updating the process status. If the service successfully updated the process status, *result* is “success.” If the service encountered an error attempting to update the process status, *result* contains the exception.

Usage Notes

- If the service encounters an error, it logs an error to the PRA_ERROR table. You can view the error using Monitor with the Process Instance Detail page for the process instance.
- You can specify any valid status regardless of the current status. There are no restrictions for what statuses you can use based on the current status.

[pub.monitor.integrationProcessLogging:updateStepInstanceStatus](#)

Updates the step status of an existing step instance.

Input Parameters

The following table lists the input parameters.

processKey

String The internal identifier (that is, process key) of the integration process definition that the step is a part of. You defined the process key when you

added the process definition to the Process Audit Log using the [pub.monitor.integrationProcessLogging:createProcessMetadata](#) service.

A process key is 1 to 64 alphanumeric characters.

processInstanceID **String** The identifier of the process instance that the step instance is a part of. You assigned the process instance an identifier when you created the process instance using the [pub.monitor.integrationProcessLogging:createProcessInstance](#) service.

A process instance ID is 1 to 32 alphanumeric characters.

stepID **String** The internal identifier of the process step whose status you want to update. The step identifier that you specify must already be defined in the Process Audit Log. You defined the step identifier and associated it with a process step when you added the step definition to the Process Audit Log using the [pub.monitor.integrationProcessLogging:createStepMetadata](#) service.

A step identifier is 1 to 128 alphanumeric characters.

stepIteration **Number** Optional. The iteration of the step. Specify an iteration count if the step is executed multiple times within a single process instance, for example, if the step is within a loop or is an error handling step that can be executed more than one time. By default, the service uses a value of 1 for *stepIteration*.

status **String** The status code number that represents the status you want to assign to the step instance. [“Status Reference” on page 185](#).

Note:

If you are setting the value of *status* using Designer, Designer displays the list of status values rather than listing the status code numbers.

Output Parameters

The following table lists the output parameters.

result **String** The outcome of updating the step status. If the service successfully updated the step status, *result* is “success”. If the service encountered an error attempting to update the step status, *result* contains the exception.

Usage Notes

- If the service encounters an error, it logs an error to the PRA_ERROR table. You can view the error using Monitor via the Step Instance Detail page for the step instance.
- You can specify any valid status regardless of the current status. There are no restrictions for what statuses you can use based on the current step status.

5 pub.monitor.process.actions Folder

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Summary of Elements in This Folder

The following table lists and describes the services.

Service and Description

[pub.monitor.process.actions:CustomImplOutputDoc](#)

A document type that describes the required output of a user-defined service used to determine the process instances to be targeted by a business rule process action.

pub.monitor.process.actions:CustomImplOutputDoc

A document type that describes the required output of a user-defined service used to determine the process instances to be targeted by a business rule process action.

Input Parameters

The following table lists the input parameters.

<i>instances</i>	Document list A list of instances that are to be targeted by the business rule process action. For example, if you have 10 instances to process, there will be 10 items in this list.
	<i>instanceID</i> String Specific process iteration that you want to target with the invoked business rule process action.

Output Parameters

None.

6 pub.monitor.process.instance Folder

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Summary of Elements in This Folder

The following table lists and describes the services.

Service and Description
<p>pub.monitor.process.instance:generateInstanceImage</p> <p>Generates the run-time image for a specified process instance in JPG or SVG format.</p>
<p>pub.monitor.process.instance:getDocumentNames</p> <p>Retrieves the names of documents for which a process instance logged user-specified fields. Process instances log user-defined fields to the logging database.</p>
<p>pub.monitor.process.instance:getFieldNames</p> <p>Retrieves the names of user-specified document fields that a process instance logged to the logging database.</p>
<p>pub.monitor.process.instance:getInstance</p> <p>Retrieves details about a process instance from the logging database.</p>
<p>pub.monitor.process.instance:getInstanceActivityLogs</p> <p>Retrieves the user-defined messages that were the logged for the specified process instance.</p>
<p>pub.monitor.process.instance:getInstanceControl</p> <p>Retrieves the control actions (suspend, resume, resubmit, or stop) that have been executed against a specified webMethods-executed process instance.</p>
<p>pub.monitor.process.instance:getInstanceConversationID</p> <p>Retrieves the conversation ID for a process instance that was triggered by a Trading Networks document.</p>
<p>pub.monitor.process.instance:getInstanceCustomData</p> <p>Retrieves the user-specified document field values that a process instance logged to the logging database.</p>
<p>pub.monitor.process.instance:getInstanceErrors</p> <p>Retrieves the errors that were logged to the logging database for a process instance.</p>
<p>pub.monitor.process.instance:getInstanceList</p> <p>Retrieves process instances that meet specified criteria.</p>
<p>pub.monitor.process.instance:getInstanceListByQueryName</p>

Service and Description

Retrieves a list of process instances that meet the criteria specified by a saved query. This service can use the saved queries created in webMethods Monitor version 6.5.x or earlier and have been migrated to the current version. This service is deprecated.

[pub.monitor.process.instance:getInstanceListWithFilter](#)

Retrieves process instances that meet specified criteria. In addition to the criteria that you can specify with the [pub.monitor.process.instance:getInstanceList](#) service, with this service you can also use filters to limit the returned instances based on pipeline values logged at run time and filter fields assigned to the process model on which the instance is based.

[pub.monitor.process.instance:getInstanceListCustomData](#)

Retrieves process instances that meet specified criteria, including specifying the value of a single logged field, which instructs the service to return all instances where the value you specify was logged for a specified custom logged field.

[pub.monitor.process.instance:getInstanceListCustomData Set](#)

Retrieves process instances that meet specified criteria, including specifying a set of values of multiple custom logged fields, which instructs the service to return all process instances where the values you specify were logged for the specified custom logged fields.

[pub.monitor.process.instance:getInstanceSteps](#)

Retrieves information about all steps that were executed within a process instance.

[pub.monitor.process.instance:getInstanceTransitions](#)

Retrieves information from the logging database about the transitions that were logged for the most recent iteration of a process instance.

[pub.monitor.process.instance:getProcessList](#)

Retrieves the model names of all process instances that have run, successfully or otherwise, and for which logging data exists in the logging database.

[pub.monitor.process.instance:getRecentlyCompleted](#)

Retrieves information for the most recently completed process instances. The service returns information for up to twenty process instances that completed in the last two weeks.

[pub.monitor.process.instance:getRecentlyCreated](#)

Retrieves information for the most recently created process instances. The service returns information for up to twenty process instances that were created in the last two weeks.

[pub.monitor.process.instance:getRecentlyFailed](#)

Retrieves information for the most recently failed process instances. The service returns information for up to twenty process instances that failed in the last two weeks.

Service and Description

[pub.monitor.process.instance:getRecentlySuspended](#)

Retrieves information for the most recently suspended process instances. The service returns information for up to twenty process instances that were suspended in the last two weeks.

pub.monitor.process.instance:generateInstanceImage

Generates the run-time image for a specified process instance in JPG or SVG format. Run-time images show the process model image with icons that indicate each step's status.

This service returns the location of the generated image. To view the JPG image, open the image from the specified location. To view the SVG image, open an Internet browser and type the Integration Server host and port along with the location returned by the service as the URL. For example, if Integration Server is running on localhost:5555 and the service returned the location `/WmMonitor/images/processes/process_image1352194153648935.svg`, type the URL `http://localhost:5555/WmMonitor/images/processes/process_image1352194153648935.svg`.

Input Parameters

The following table lists the input parameters.

<i>instanceID</i>	String Instance ID of the process instance for which to generate the image. Specify the complete, exact ID.
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Note:

Whether Monitor treats *instanceID* as case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

<i>nodeID</i>	String Optional. Node ID of a step within the process that represents an inline process (or subprocess) within the process; that is, a set of steps that have been collapsed into a single step. When you specify <i>nodeID</i> , the service generates the image for the subprocess only, not for the entire process. You can retrieve the node IDs for the subprocess within a process by executing the service and using the value returned in the <i>modelSteps/INLINESTEPID</i> field.
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<i>imageType</i>	String Requested image type, either JPG or SVG.
------------------	--

Output Parameters

The following table lists the output parameters.

<i>imageData</i>	Document The generated image. The returned <i>imageData</i> document contains the following fields:
------------------	--

- *imageURL* **String** URL to the generated image file on the file system.

- *width* **String** Width of the image.
- *height* **String** Height of the image.
- *type* **String** Image type.
 - 1 Image is in JPG format.
 - 2 Image is in SVG format.
- *imageMap* **Document List** A list of the steps within the process instance. The following fields are returned for each step:
 - *key* **String** If the step represents a referenced process, *key* is the model ID of the model for the referenced process.
 - *stepid* **String** The step ID of the step.
 - *x* **String** The X coordinate of the top, left corner for where the icon for this step is placed within the image for the process instance.
 - *y* **String** The Y coordinate of the top, left corner for where the icon for this step is placed with in the image for the process instance.
 - *x2* **String** The X coordinate of the bottom, right corner for where the icon for this step is placed with in the image for the process instance.
 - *y2* **String** The Y coordinate of the bottom, right corner for where the icon for this step is placed with in the image for the process instance.

imageError **String** Errors that occurred during generation of the image.

pub.monitor.process.instance:getDocumentNames

Retrieves the names of documents for which a process instance logged user-specified fields. Process instances log user-defined fields to the logging database.

Note:

Whether the search is case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

Input Parameters

The following table lists the input parameters.

<i>instanceID</i>	String Instance ID for the process instance for which to retrieve document names. Specify the complete, exact ID.
-------------------	--

Output Parameters

The following table lists the output parameters.

<i>documentNames</i>	Document List The retrieved document names. For each document, the following field is returned. <i>documentName</i> String The name of a document for which the process instance logged user-specified fields.
<i>message</i>	String Error that occurred during the execution of this service if this service encountered an error.

pub.monitor.process.instance:getFieldNames

Retrieves the names of user-specified document fields that a process instance logged to the logging database.

Note:

Whether the search is case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

Input Parameters

The following table lists the input parameters.

<i>instanceID</i>	String Instance ID for the process instance for which to retrieve the names of user-specified document fields. Specify the complete, exact ID.
-------------------	---

Output Parameters

The following table lists the output parameters.

<i>fieldNames</i>	Document List The retrieved field names. For each field name, the following field is returned. <i>fieldName</i> String Name of the field name that was logged.
<i>message</i>	String Error that occurred during the execution of this service if this service encountered an error.

pub.monitor.process.instance:getInstance

Retrieves details about a process instance from the logging database.

Note:

Whether the search is case-sensitive or case-insensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

Input Parameters

The following table lists the input parameters.

<i>instanceID</i>	String Instance ID for the process instance for which you want to retrieve details. Specify the complete, exact ID.
-------------------	--

Output Parameters

The following table lists the output parameters.

<i>data</i>	<p>Document The details for the process instance. The returned <i>data</i> parameter contains these fields:</p> <ul style="list-style-type: none"> ■ <i>instanceID</i> String The instance ID for the process instance that you specified in the input parameter. ■ <i>customID</i> String An ID that the process instance logged during execution using the pub.prt.log:logCustomId service. If this service was not used to log a custom ID, <i>customID</i> and <i>instanceID</i> are the same value. ■ <i>modelID</i> String The unique ID for the process model. ■ <i>modelName</i> String The name of the model. ■ <i>modelVersion</i> String The version of the model. ■ <i>instanceIteration</i> Number Most recent instance iteration count for the process instance. The first time a process instance is executed, the iteration count is 1. Each time a process instance is resubmitted, the iteration count is incremented. ■ <i>parentInstanceID</i> String Instance ID for parent process instance, if any. If the process instance does not have a parent process, <i>parentInstanceID</i> is null. ■ <i>parentInstanceIteration</i> Number Iteration count of the parent process instance, if any. If the process instance does not have a parent process, <i>parentInstanceIteration</i> is 0. ■ <i>statusDecode</i> String A keyword value for the most recent status of the process instance. For the list of keyword values, for example “Started” or “Completed,” see “Status Reference” on page 185.
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- **status String** A numerical value that represents the status of the process instance. For a list of values you can specify, see [“Status Reference” on page 185](#).
- **timeStamp String** Time data was last logged for the process instance in the string format YYYY-MM-DD hh:mm:ss.SSS zzz.
- **errorMessage String** Error that occurred during the execution of this service if this service encountered an error.

processControl

String Whether you have the functional privileges to suspend/resume, stop, and resubmit the process.

- `true` You have all three functional privileges for this process instance.
- `false` You do not have all three functional privileges to control this process instance.

pub.monitor.process.instance:getInstanceActivityLogs

Retrieves the user-defined messages that were the logged for the specified process instance.

The process instance logged these messages using the `pub.prt.log:logActivityMessages` service.

Note:

Whether the search is case-sensitive or case-insensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

Input Parameters

The following table lists the input parameters.

<i>instanceID</i>	String Instance ID for the process instance for which to retrieve user-defined messages. Specify the complete, exact ID.
<i>stepNames</i>	HashMap Optional. A hash map that provides the names of the steps within the process instance. The hash map is a key value pair, where the key is the step ID and the value is the name of the step. To obtain a hash map, use the pub.monitor.process.instance:getInstanceSteps service.
<i>stepCidList</i>	HashMap Optional. A hash map that provides the context IDs of the services that were executed within the process instance. The hash map is a key value pair, where the key is the step ID of a step that executed a service and the value is the context ID of the service that was executed. To obtain a hash map, use the pub.monitor.process.instance:getInstanceSteps service.
<i>cidList</i>	HashSet Optional. Context IDs for the steps that the process ran. You can retrieve the context IDs using the pub.monitor.process.instance:getInstanceSteps service.

Output Parameters

The following table lists the output parameters.

<i>activityLog</i>	<p>Document List A list of logged activity messages. For each activity message, the following fields are returned.</p> <ul style="list-style-type: none">■ PROCESSTEPCONTEXT String The internal identifier (i.e., the step ID) of the step that logged activity message.■ ENTRYTYPE String The type of user-defined message, that is error, warning, or message.■ FULLMESSAGE String The text of the user-defined message. It contains up to 1024 characters.■ BRIEFMESSAGE String A brief version of the text of the message that contains only up to 240 characters.■ B2BUSER String The Integration Server user name of the user that invoked the service that logged the user-defined message.■ SERVERID String ID of the server where the service that logged the user-defined message ran.■ AUDITTIMESTAMP Number Time the message was logged, in epoch time; that is, the number of seconds since January 1, 1970.■ AUDITTIMESTRING String Time the message was logged in string format, YYYY-MM-DD hh:mm:ss.SSS zzz, where:<ul style="list-style-type: none">■ YYYY-MM-DD is the date■ hh:mm:ss:SSS is the time, including milliseconds■ zzz is the time zone
<i>message</i>	<p>String Error that occurred during the execution of this service if this service encountered an error.</p>

pub.monitor.process.instance:getInstanceControl

Retrieves the control actions (suspend, resume, resubmit, or stop) that have been executed against a specified webMethods-executed process instance.

Note:

This service only reports on control actions that you can perform using Monitor. Using Monitor, you can only perform control actions against webMethods-executed process instances, which are the only type of process instances that the Process Engine executes. Because the Process Engine does not execute externally executed and integration processes, you cannot use Monitor

to perform control actions against them, and consequently, this service does not return information about them.

Note:

Whether the search is case-sensitive or case-insensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

Input Parameters

The following table lists the input parameters.

<i>instanceID</i>	String Instance ID of the webMethods-executed process instance for which to retrieve control actions. Specify the complete, exact ID.
<i>stepNames</i>	HashMap Optional. A hash map that provides the names of the steps within the process instance. The hash map is a key value pair, where the key is the step ID and the value is the name of the step. To obtain a hash map you can use as input, use the pub.monitor.process.instance:getInstanceSteps service.

Output Parameters

The following table lists the output parameters.

<i>instanceControl</i>	<p>Document List The list of control actions that have been executed. For each control action that was taken against a step in the process instance, the following fields are returned:</p> <ul style="list-style-type: none"> ■ ACTION String Type of action. The service returns a numerical value that represents the type of action as follows. <ul style="list-style-type: none"> ■ 1 Service Resubmit ■ 2 Document Resubmit ■ 3 Process Resubmit ■ 4 Process Suspend ■ 5 Process Resume ■ 6 Process Stop ■ ACTIONDECODE String The keyword value that represents the action. The keyword is: Service Resubmit, Document Resubmit, Process Resubmit, Process Suspend, Process Resume, or Process Stop. ■ USERNAME String User who initiated the control action. ■ SERVERID String Server where the action was initiated.
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- **AUDITTIMESTAMP** **String** Time the action was logged in string format, YYYY-MM-DD hh:mm:ss.SSS zzz, where:
 - YYYY-MM-DD is the date
 - hh:mm:ss.SSS is the time, including milliseconds
 - zzz is the time zone
- **STEPID** **String** The ID of the step against which the control action was executed. The step ID uniquely identifies a specific step within a specific process instance.
- **INSTANCEITERATION** **Number** The process instance iteration that contains the step against which the control action was executed.
- **STEPITERATION** **Number** The iteration of step against which the control action was executed.

message

String Error that occurred during the execution of this service if this service encountered an error.

pub.monitor.process.instance:getInstanceConversationID

Retrieves the conversation ID for a process instance that was triggered by a Trading Networks document.

Note:

Whether the search is case-sensitive or case-insensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

Input Parameters

The following table lists the input parameters.

instanceID **String** Instance ID for the process instance for which to retrieve the conversation ID. Specify the complete, exact ID.

Output Parameters

The following table lists the output parameters.

conversationID **String** The retrieved conversation ID.

message **String** Error that occurred during the execution of this service if this service encountered an error.

pub.monitor.process.instance:getInstanceCustomData

Retrieves the user-specified document field values that a process instance logged to the logging database.

Note:

Whether the search is case-sensitive or case-insensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

Input Parameters

The following table lists the input parameters.

<i>instanceID</i>	String Instance ID of the process instance for which to retrieve the user-specified document field values. Specify the complete, exact ID.
<i>recent</i>	<p>String The iterations of the process instance for which to retrieve the user-specified document field values. The code value indicates whether to retrieve document field values logged for all process instances or the most recent process instance iterations:</p> <ul style="list-style-type: none"> ■ 0 Default. Retrieve field values only for most recent process instance iteration. ■ 1 Retrieve field values logged for all process instance iterations.
<i>documentName</i>	<p>String Optional. If values were logged for more than one document, complete name of the document whose logged values you want retrieved. By default, the service returns logged values for all documents. You can retrieve document names using the pub.monitor.process.instance:getDocumentNames service.</p> <p>Note: Specify the name of the document that was assigned through Designer, not the document type name (for example, not the fully qualified name of an IS document type).</p>
<i>fieldName</i>	String Optional. Complete name of the field whose value you want retrieved. By default, the service returns logged values for all fields. You can retrieve field names using pub.monitor.process.instance:getFieldNames service.
<i>sortBy</i>	<p>String Optional. Value to use to sort the returned list of document field value. This parameter works with the <i>sortOrder</i> parameter.</p> <ul style="list-style-type: none"> ■ STEPLABEL Default. Names of the steps for which the field value was logged. ■ INSTANCEITERATION Process instance iteration when the field value was logged. ■ STEPITERATION Step iteration when the field value was logged. ■ DOCUMENTNAME Name of the document for which values were logged.

- **FIELDNAME** Name of the document field for which a value was logged.
- **STRINGVALUE** Values of String type document fields.
- **NUMBERVALUE** Values of Number type document fields.
- **DATEVALUE** Values of Date type document fields.

sortOrder **String** Optional. Whether to sort the returned list of documents in ascending or descending order. The documents are sorted by the field identified by the *sortBy* parameter.

- 0 Default. Sort in ascending order.
- 1 Sort in descending order.

Output Parameters

The following table lists the output parameters.

customData **Document List** The list of returned document field values. For each document field value, the following fields are returned:

- **STEPLABEL String** Step name of the step that logged the field value.
- **INSTANCEITERATION Number** Process instance iteration when the field value was logged.
- **STEPITERATION Number** Step iteration when the field value was logged.
- **DOCUMENTNAME String** Name of the document that contains the field value that was logged.
- **FIELDNAME String** Name of the field within the document that was logged.
- **STRINGVALUE String** The value of the field if the logged field value is a string.
- **NUMBERVALUE String** The value of the field if the logged field value is a number; otherwise the service returns 0.0 in this field.
- **DATEVALUE String** The value of the field if the logged field value is date.

message **String** Error that occurred during the execution of this service if this service encountered an error.

pub.monitor.process.instance:getInstanceErrors

Retrieves the errors that were logged to the logging database for a process instance.

Note:

Whether the search is case-sensitive or case-insensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

Input Parameters

The following table lists the input parameters.

<i>instanceID</i>	String Instance ID of the webMethods-executed process instance for which to retrieve control actions. Specify the complete, exact ID.
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Output Parameters

The following table lists the output parameters.

<i>instanceErrors</i>	<p>Document List The retrieved errors. The following fields are returned for each error.</p> <ul style="list-style-type: none"> ■ <i>SERVERID</i> String ID of the server where the error occurred. ■ <i>SERVICENAME</i> String Name of the service that logged the error. ■ <i>ERRORMSG</i> String The logged error. ■ <i>ERRORSTACKTRACE</i> String Any stack trace logged for this error. ■ <i>AUDITTIMESTAMP</i> Number Time the action was logged, in epoch time; that is, the number of seconds since January 1, 1970. ■ <i>AUDITTIMESTRING</i> String Time the action was logged in string format, YYYY-MM-DD hh:mm:ss.SSS zzz, where: <ul style="list-style-type: none"> ■ YYYY-MM-DD is the date ■ hh:mm:ss:SSS is the time, including milliseconds ■ zzz is the time zone
<i>message</i>	String Error that occurred during the execution of this service if this service encountered an error.

pub.monitor.process.instance:getInstanceList

Retrieves process instances that meet specified criteria.

Note:

Whether the search is case-sensitive or case-insensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

Input Parameters

The following table lists the input parameters.

<i>modelID</i>	String Optional. Complete model ID used for the process instances you want retrieved. You can retrieve model IDs by invoking the pub.monitor.process.instance:getProcessList service and using the value returned in the <i>processNames/PROCESSKEY</i> output parameter. When you specify <i>modelID</i> , do not use the <i>modelNameInput</i> parameter.
<i>modelIDSet</i>	String List Optional. A set of complete model IDs used for the process instances you want retrieved. You can retrieve model IDs by invoking the pub.monitor.process.instance:getProcessList service and using the value returned in the <i>processNames/PROCESSKEY</i> output parameter. When you specify <i>modelID</i> , do not use the <i>modelNameInput</i> parameter.
<i>modelNameInput</i>	String Optional. Complete or partial model name used for the process instances you want retrieved. You can retrieve model names by invoking the pub.monitor.process.instance:getProcessList service and using the value returned in the <i>processNames/PROCESSKEYDECODE</i> output parameter. When you specify <i>modelNameInput</i> , do not use the <i>modelID</i> parameter.
<i>instanceID</i>	String Optional. Complete or partial instance ID for the process instances you want retrieved.
<i>status</i>	String Optional. The status of the process instances you want retrieved. The status you specify is matched against the most recently logged status. Use <i>status</i> if you want the list to contain all process instances of a single specified status. Specify the numerical value that represents the status. For a list of values you can specify, see “Status Reference” on page 185 . Note: If you do not specify <i>status</i> or <i>statusSet</i> , the service returns process instances of all statuses.
<i>statusSet</i>	String List Optional. A set of statuses for the process instances you want retrieved. Use <i>statusSet</i> when you want the list to contain process instances of more than one specified status. For each status that you specify in <i>statusSet</i> , specify the numerical value that represents the status, as described above for the <i>status</i> parameter.
<i>parentInstanceID</i>	String Optional. Complete or partial instance ID for the parent process of the process instances that you want retrieved.
<i>customID</i>	String Optional. The full, user-defined ID for the process instances that you want retrieved. User-defined IDs are assigned by executing the <code>pub.prt.log:logCustomID</code> service.
<i>dateCreated</i>	String Optional. A date range for the process instances you want retrieved. The date range identifies the date of the most recent log entry for the process

instances. If you use this parameter, do not use the *fromDate* or *toDate* parameter.

- Today Today
- Yesterday Yesterday
- In the last 7 days Within the last 7 days, including today.
- Last week Any day in the previous calendar last week (A week is Sunday through Saturday.)
- This week Any day in the current calendar week. (A week is Sunday through Saturday.)
- Last month Any day in the previous calendar month.
- This month Any day in the current calendar month.
- Year to date Any day in the current calendar year.

<i>fromDate</i>	String Optional. The start date of when data was logged for the process instances you want retrieved. The service retrieves process instances with entries logged on or after this date. Use the format <i>YYYY-MM-DD HH:MM:SS</i> . If you use this parameter, use <i>toDate</i> to specify the end date; do not use the <i>dateCreated</i> parameter when you use the <i>fromDate</i> and <i>toDate</i> parameters.
<i>toDate</i>	String Optional. The end date of when data was logged for the process instances you want retrieved. The service retrieves process instances with entries logged on or before this date. Use the format <i>YYYY-MM-DD HH:MM:SS</i> .
<i>stepID</i>	String Optional. The full ID of a step that was executed in the process instances you want retrieved. You can retrieve step IDs using the service. When you use this <i>stepID</i> parameter, you must also specify: <ul style="list-style-type: none"> ■ The <i>modelID</i> parameter to identify the model in which to search for the specified step. ■ The <i>user</i> or <i>role</i> parameters.
<i>user</i>	String Optional. To retrieve information about tasks, user on which to match (that is, user that performed a task). When you use this <i>user</i> parameter, you must also specify the <i>modelID</i> parameter.
<i>role</i>	String Optional. To retrieve information about tasks, role on which to match (that is, role that performed a task). When you use this <i>role</i> parameter, you must also specify the <i>modelID</i> parameter.
<i>maxRows</i>	String Optional. Maximum number of process instances to return, starting with those most recently logged. By default, the service gets all process instances.

- isAnd* **String** Optional. Whether the service is to use an AND or an OR condition for the criteria specified in the input parameters.
- `true` Default. Use an AND condition. The service returns process instances that match all the criteria you specify.
 - `false` Use an OR condition. The service returns process instances that match any of the criteria you specify.
- sortColumn* **String** Optional. How to sort the returned list of process instances. By default, the service sorts the returned data using AUDITTIMESTAMP. This parameter works with the *sortAscending* parameter. Sort by:
- PROCESSLABEL Model name.
 - INSTANCEID Process instance ID.
 - PARENTINSTANCEID Parent process instance ID, if any.
 - STATUS Most recent status; the sort order is based on the numerical values associated with statuses. For a list of the status values, see [“Status Reference” on page 185](#).
 - AUDITTIMESTAMP The last time data was logged for the process instance.
- sortAscending* **String** Optional. Whether to sort the returned list of process instances in ascending or descending order. The entries are sorted by the field identified by the *sortColumn* parameter.
- `true` Default. Sort in ascending order.
 - `false` Sort in descending order.

Output Parameters

The following table lists the output parameters.

- instances* **Document List** List of process instances that match the specified criteria. For each process instance, the following fields are returned:
- **AUDITTIMESTAMP Number** Time data was last logged for the process instance, in epoch time; that is, the number of seconds since January 1, 1970.
 - **AUDITTIMESTRING String** Time data was last logged for the process instance in string format, YYYY-MM-DD hh:mm:ss.SSS zzz, where:
 - YYYY-MM-DD is the date
 - hh:mm:ss:SSS is the time, including milliseconds
 - zzz is the time zone

- **PARENTINSTANCEID String** Instance ID of the process instance's parent instance, if any.
- **PARENTINSTANCEITERATION Number** Instance iteration of the process instance's parent instance, if any.
- **INSTANCEID String** Instance ID of the process instance.
- **INSTANCEITERATION Number** Instance iteration of the process instance.
- **STATUS String** Status of the process instance. The service returns the numerical value that represents the status. For a description of the status values, see [“Status Reference” on page 185](#).
- **STATUSDECODE String** Status value for this process instance. The service returns the keyword value that represents the status. For the list of keyword values, for example, "Started" or "Completed", see [“Status Reference” on page 185](#).
- **PROCESSKEY String** Unique model ID of the process instance.
- **PROCESSKEYDECODE String** Process name of the process instance.
- **CUSTOMID String** The user-defined ID for the process instance that was assigned by executing the `pub.prt.log:logCustomID` service.
- **PROCESSLABEL String** Process name of the process instance.

message

String Optional. Error that occurred during the execution of this service if this service encountered an error.

Usage Notes

If you want to improve performance and limit the number of results returned, use the related service, `pub.monitor.process.instance:getPagedInstanceList`. This service limits the number of results returned in the query by the *fromIndex* and *toIndex*.

`pub.monitor.process.instance:getInstanceListByQueryName`

Deprecated. Retrieves a list of process instances that meet the criteria specified by a saved query. This service can use the saved queries created in webMethods Monitor version 6.5.x or earlier and have been migrated to the current version. This service is deprecated.

Input Parameters

The following table lists the input parameters.

<i>loadQuery</i>	String Name of the saved query that specifies the criteria for retrieving the process instances.
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Output Parameters

The following table lists the output parameters.

<i>instances</i>	Document List List of process instances that match the criteria specified in the query.
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pub.monitor.process.instance:getInstanceListCustomData

Retrieves process instances that meet specified criteria, including specifying the value of a single logged field, which instructs the service to return all instances where the value you specify was logged for a specified custom logged field.

Note:

Whether the search is case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

Input Parameters

The following table lists the input parameters.

<i>modelID</i>	String Optional. Complete model ID used for the process instances you want retrieved. You can retrieve model IDs by invoking the pub.monitor.process.instance:getProcessList service and using the value returned in the <i>processNames/PROCESSKEY</i> output parameter. When you specify <i>modelID</i> , do not use the <i>modelNameInput</i> parameter.
<i>modelIDSet</i>	String List Optional. A set of complete model IDs used for the process instances you want retrieved. You can retrieve model IDs by invoking the pub.monitor.process.instance:getProcessList service and using the value returned in the <i>processNames/PROCESSKEY</i> output parameter. When you specify <i>modelID</i> , do not use the <i>modelNameInput</i> parameter.
<i>modelNameInput</i>	String Optional. Complete or partial model name used for the process instances you want retrieved. You can retrieve model names by invoking the pub.monitor.process.instance:getProcessList service and using the value returned in the <i>processNames/PROCESSKEYDECODE</i> output parameter. When you specify <i>modelNameInput</i> , do not use the <i>modelID</i> parameter.
<i>instanceID</i>	String Optional. Complete or partial instance ID for the process instances you want retrieved.
<i>status</i>	String Optional. The status of the process instances you want retrieved. The status you specify is matched against the most recently logged status. Use <i>status</i> if you want the list to contain all process instances of a single specified status. Specify the numerical value that represents the status. For a list of values you can specify, see “Status Reference” on page 185 .

Note:

If you do not specify *status* or *statusSet*, the service returns process instances of all statuses.

<i>statusSet</i>	String List Optional. A set of statuses for the of the process instances you want retrieved. Use <i>statusSet</i> when you want the list to contain process instances of more than one specified status. For each status that you specify in <i>statusSet</i> , specify the numerical value that represents the status, as described above for the <i>status</i> parameter.
<i>parentInstanceID</i>	String Optional. Complete or partial instance ID for the parent process of the process instances that you want retrieved.
<i>dateCreated</i>	<p>String Optional. A date range for the process instances you want to retrieve. The date range identifies the date of the most recent log entry for the process instances. If you use this parameter, do not use the <i>fromDate</i> or <i>toDate</i> parameter. A week is Sunday through Saturday.</p> <ul style="list-style-type: none"> ■ Today Today. ■ Yesterday Yesterday. ■ In the last 7 days Within the last 7 days, including the current date. ■ Last week Any day in the previous calendar last week. ■ This week Any day in the current calendar week. ■ Last month Any day in the previous calendar month. ■ This month Any day in the current calendar month. ■ Year to date Any day in the current calendar year.
<i>fromDate</i>	String Optional. The start date of when data was logged for the process instances you want retrieved. The service retrieves process instances with entries logged on or after this date. Use the format <i>YYYY-MM-DD HH:MM:SS</i> . If you use this parameter, use <i>toDate</i> to specify the end date; do not use the <i>dateCreated</i> parameter when you use the <i>fromDate</i> and <i>toDate</i> parameters.
<i>toDate</i>	String Optional. The end date of when data was logged for the process instances you want retrieved. The service retrieves process instances with entries logged on or before this date. Use the format <i>YYYY-MM-DD HH:MM:SS</i> .
<i>stepID</i>	<p>String Optional. The full ID of a step that was executed in the process instances you want retrieved. You can retrieve step IDs using the service. When you use this <i>stepID</i> parameter, you must also specify:</p> <ul style="list-style-type: none"> ■ The <i>modelID</i> parameter to identify the model in which to search for the specified step.

	<ul style="list-style-type: none">■ The <i>user</i> or <i>role</i> parameters.
<i>user</i>	String Optional. To retrieve information about tasks, user on which to match (that is, user that performed a task). When you use this <i>user</i> parameter, you must also specify the <i>modelID</i> parameter.
<i>role</i>	String Optional. To retrieve information about tasks, role on which to match (that is, role that performed a task). When you use this <i>role</i> parameter, you must also specify the <i>modelID</i> parameter.
<i>documentName</i>	String The complete name of the document that contains the custom field that you want to use to search for process instances. Specify the name as it was defined in Designer.
<i>fieldName</i>	String Complete name of the logged field that you want to use to search for process instances. The logged field should be a field within the document identified by <i>documentName</i> .
<i>fieldType</i>	String The data type of <i>fieldname</i> . Specify either <code>String</code> or <code>Number</code> .
<i>comparator</i>	String A comparator indicates how the service should compare the value you specify in <i>value</i> to the actual value logged for the custom field specified by <i>fieldName</i> . Specify one of the following: <code>=</code> , <code>Contains</code> , <code>Not Contains</code> , <code>!=</code> , <code><</code> , <code>></code> , <code><=</code> , <code>>=</code>
<i>value</i>	String The value that you want the service to use to compare with the actual value stored for the custom field specified by <i>fieldName</i> .
<i>maxRows</i>	String Optional. Maximum number of process instances to return, starting with those most recently logged. By default, the service gets all process instances.
<i>isAnd</i>	String Optional. Whether to use an AND or an OR condition for the criteria specified in the input parameters. <ul style="list-style-type: none">■ <code>true</code> Default. Use an AND condition. The service returns process instances that match all the criteria you specify.■ <code>false</code> Use an OR condition. The service returns process instances that match any of the criteria you specify.
<i>sortColumn</i>	String Optional. How to sort the returned list of process instances. By default, the service sorts the returned data using <code>AUDITTIMESTAMP</code> . This parameter works with the <i>sortAscending</i> parameter. <ul style="list-style-type: none">■ <code>PROCESSLABEL</code> Model name.■ <code>INSTANCEID</code> Process instance ID.■ <code>PARENTINSTANCEID</code> Parent process instance ID, if any.

- **STATUS** Most recent status; the sort order is based on the numerical values associated with statuses. For a list of the status values, see [“Status Reference” on page 185](#).
 - **AUDITTIMESTAMP** The last time data was logged for the process instance.
- sortAscending* **String** Optional. Whether to sort the returned list of process[®] instances in ascending or descending order. The entries are sorted[®] by the field identified by the *sortColumn* parameter.
- `true` Default. Sort in ascending order.
 - `false` Sort in descending order.

Output Parameters

The following table lists the output parameters.

- instances* **Document List** List of process instances that match the specified criteria. For each process instance, the following fields are returned:
- **AUDITTIMESTAMP Number** Time data was last logged for the process instance, in epoch time; that is, the number of seconds since January 1, 1970.
 - **AUDITTIMESTRING String** Time data was last logged for the process instance in string format, *YYYY-MM-DD hh:mm:ss.SSS zzz*, where:
 - *YYYY-MM-DD* is the date
 - *hh:mm:ss:SSS* is the time, including milliseconds
 - *zzz* is the time zone
 - **PARENTINSTANCEID String** Instance ID of the process instance's parent instance, if any.
 - **PARENTINSTANCEITERATION Number** Instance iteration of the process instance's parent instance, if any.
 - **INSTANCEID String** Instance ID of the process instance.
 - **INSTANCEITERATION Number** Instance iteration of the process instance.
 - **STATUS String** Status of the process instance. The service returns the numerical value that represents the status. For a description of the status values, see [“Status Reference” on page 185](#).
 - **STATUSDECODE String** Status value for this process instance. The service returns the keyword value that represents the status. For the

list of keyword values, for example, “Started” or “Completed,” see “[Status Reference](#)” on page 185.

- **PROCESSKEY String** Unique model ID of the process instance.
- **PROCESSKEYDECODE String** Process name of the process instance.
- **CUSTOMID String** The user-defined ID for the process instance that was assigned by executing the `pub.prt.log:logCustomID` service.
- **PROCESSLABEL String** Process name of the process instance.

message **String** Optional. Error that occurred during the execution of this service if this service encountered an error.

pub.monitor.process.instance:getInstanceListCustomData Set

Retrieves process instances that meet specified criteria, including specifying a set of values of multiple custom logged fields, which instructs the service to return all process instances where the values you specify were logged for the specified custom logged fields.

Note:

Whether the search is case-sensitive or case-insensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

Input Parameters

The following table lists the input parameters.

<i>modelID</i>	String Optional. Complete model ID used for the process instances you want retrieved. You can retrieve model IDs by invoking the pub.monitor.process.instance:getProcessList service and using the value returned in the <i>processNames/PROCESSKEY</i> output parameter. When you specify <i>modelID</i> , do not use the <i>modelNameInput</i> parameter.
<i>modelIDSet</i>	String List Optional. A set of complete model IDs used for the process instances you want retrieved. You can retrieve model IDs by invoking the pub.monitor.process.instance:getProcessList service and using the value returned in the <i>processNames/PROCESSKEY</i> output parameter. When you specify <i>modelID</i> , do not use the <i>modelNameInput</i> parameter.
<i>modelNameInput</i>	String Optional. Complete or Partial model name used for the process instances you want retrieved. You can retrieve model names by invoking the pub.monitor.process.instance:getProcessList service and using the value returned in the <i>processNames/PROCESSKEYDECODE</i> output parameter. When you specify <i>modelNameInput</i> , do not use the <i>modelID</i> parameter.
<i>instanceID</i>	String Optional. Complete or partial instance ID for the process instances you want retrieved.

<i>status</i>	<p>String Optional. The status of the process instances you want retrieved. The status you specify is matched against the most recently logged status. Use <i>status</i> if you want the list to contain all process instances of a single specified status. Specify the numerical value that represents the status. For a list of values you can specify, see “Status Reference” on page 185.</p> <div style="background-color: #f0f0f0; padding: 5px; border: 1px solid #ccc;"> <p>Note: If you do not specify <i>status</i> or <i>statusSet</i>, the service returns process instances of all statuses.</p> </div>
<i>statusSet</i>	<p>String List Optional. A set of statuses for the of the process instances you want retrieved. Use <i>statusSet</i> when you want the list to contain process instances of more than one specified status. For each status that you specify in <i>statusSet</i>, specify the numerical value that represents the status, as described above for the <i>status</i> parameter.</p>
<i>parentInstanceID</i>	<p>String Optional. Complete or partial instance ID for the parent process of the process instances that you want retrieved.</p>
<i>customID</i>	<p>String Optional. The full, user-defined ID for the process instances that you want retrieved. User-defined IDs are assigned by executing the <code>pub.prt.log:logCustomID</code> service.</p>
<i>dateCreated</i>	<p>String Optional. A date range for the process instances you want retrieved. The date range identifies the date of the most recent log entry for the process instances. If you use this parameter, do not use the <i>fromDate</i> or <i>toDate</i> parameter. Set the value to the code to retrieve process instances that match the most recent entry:</p> <ul style="list-style-type: none"> ■ Today Today ■ Yesterday Yesterday ■ In the last 7 days Within the last 7 days, including current date. ■ Last week Any day in the previous calendar last week. (A week is Sunday through Saturday.) ■ This week Any day in the current calendar week (A week is Sunday through Saturday.) ■ Last month Any day in the previous calendar month. ■ This month Any day in the current calendar month. ■ Year to date Any day in the current calendar year.
<i>fromDate</i>	<p>String Optional. The start date of when data was logged for the process instances you want retrieved. The service retrieves process instances with entries logged on or after this date. Use the format <code>YYYY-MM-DD HH:MM:SS</code>. If you use this parameter, use <i>toDate</i> to specify the end date;</p>

do not use the *dateCreated* parameter when you use the *fromDate* and *toDate* parameters.

<i>toDate</i>	String Optional. The end date of when data was logged for the process instances you want retrieved. The service retrieves process instances with entries logged on or before this date. Use the format <i>YYYY-MM-DD HH:MM:SS</i> .
<i>stepID</i>	String Optional. The full ID of a step that was executed in the process instances you want retrieved. You can retrieve step IDs using the service. When you use this <i>stepID</i> parameter, you must also specify: <ul style="list-style-type: none">■ The <i>modelID</i> parameter to identify the model in which to search for the specified step.■ The <i>user</i> or <i>role</i> parameters.
<i>user</i>	String Optional. To retrieve information about tasks, user on which to match (that is, user that performed a task). When you use this <i>user</i> parameter, you must also specify the <i>modelID</i> parameter.
<i>role</i>	String Optional. To retrieve information about tasks, role on which to match (that is, role that performed a task). When you use this <i>role</i> parameter, you must also specify the <i>modelID</i> parameter.
<i>sortAscending</i>	String Optional. Whether to sort the returned list of process instances in ascending or descending order. The entries are sorted by the field identified by the <i>sortColumn</i> parameter. <ul style="list-style-type: none">■ <code>true</code> Default. Sort in ascending order.■ <code>false</code> Sort in descending order.
<i>customTable</i>	String Table Optional. The custom fields and their values that you want to use to search for process instances. The service returns process instances that match all the custom field data you specify. For each custom field, specify the following fields. <ul style="list-style-type: none">■ <i>documentName</i> String The complete name of the document that contains the custom field that you want to use to search for process instances. Specify the name as it was defined in Designer.■ <i>fieldName</i> String The complete name of the logged field that you want to use to search for process instances. The logged field should be a field within the document identified by <i>documentName</i>.■ <i>fieldType</i> String The data type of <i>fieldname</i>. Specify either <code>String</code> or <code>Number</code>.■ <i>comparator</i> String A comparator indicates how the service should compare the value you specify in <i>value</i> to the actual value logged for

	<p>the custom field specified by <i>fieldName</i>. Specify one of the following: =, Contains, Not Contains, !=, <, >, <=, >=</p> <ul style="list-style-type: none"> ■ <i>value</i> String The value that you want the service to use to compare with the actual value stored for the custom field specified by <i>fieldName</i>.
<i>maxRows</i>	<p>String Optional. Maximum number of process instances to return, starting with those most recently logged. By default, the service gets all process instances.</p>
<i>isAnd</i>	<p>String Optional. Whether the service uses an AND or an OR condition for the criteria specified in the input parameters.</p> <ul style="list-style-type: none"> ■ <code>true</code> Default. Use an AND condition. The service returns process instances that match all the criteria you specify. ■ <code>false</code> Use an OR condition. The service returns process instances that match any of the criteria you specify.
<i>sortColumn</i>	<p>String Optional. How to sort the returned list of process instances. By default, the service sorts the returned data using AUDITTIMESTAMP. This parameter works with the <i>sortAscending</i> parameter.</p> <ul style="list-style-type: none"> ■ PROCESSLABEL Model name. ■ INSTANCEID Process instance ID. ■ PARENTINSTANCEID Parent process instance ID, if any. ■ STATUS Most recent status; the sort order is based on the numerical values associated with statuses. For a list of the status values, see “Status Reference” on page 185. ■ AUDITTIMESTAMP The last time data was logged for the process instance.

Output Parameters

The following table lists the output parameters.

<i>instances</i>	<p>Document List List of process instances that match the specified criteria. For each process instance, the following fields are returned:</p> <ul style="list-style-type: none"> ■ AUDITTIMESTAMP Number Time data was last logged for the process instance, in epoch time; that is, the number of seconds since January 1, 1970. ■ AUDITTIMESTRING String Time data was last logged for the process instance in string format, YYYY-MM-DD hh:mm:ss.SSS zzz, where: <ul style="list-style-type: none"> ■ YYYY-MM-DD is the date ■ hh:mm:ss:SSS is the time, including milliseconds
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- `zzz` is the time zone
- **PARENTINSTANCEID String** Instance ID of the parent instance, if any.
- **PARENTINSTANCEITERATION Number** Instance iteration of the parent instance, if any.
- **INSTANCEID String** Instance ID.
- **INSTANCEITERATION Number** Instance iteration.
- **STATUS String** Instance status. The service returns the numerical value that represents the status. For a description of the status values, see [“Status Reference” on page 185](#).
- **STATUSDECODE String** Status value for this process instance. The service returns the keyword value that represents the status. For the list of keyword values, for example “Started” or “Completed,” see [“Status Reference” on page 185](#).
- **PROCESSKEY String** Unique model ID of the process instance.
- **PROCESSKEYDECODE String** Process name of the process instance.
- **CUSTOMID String** User-defined ID for the process instance that was assigned by executing the `pub.prt.log:logCustomID` service.
- **PROCESSLABEL String** Process name of the process instance.

message

String Optional. Error that occurred during the execution of this service if this service encountered an error.

pub.monitor.process.instance:getInstanceListWithFilter

Retrieves process instances that meet specified criteria. In addition to the criteria that you can specify with the [pub.monitor.process.instance:getInstanceList](#) service, with this service you can also use filters to limit the returned instances based on pipeline values logged at run time and filter fields assigned to the process model on which the instance is based.

Note:

Whether the search is case-sensitive or case-insensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

Input Parameters

The following table lists the input parameters.

<i>modelID</i>	String Optional. Complete model ID used for the process instances you want retrieved. You can retrieve model IDs by invoking the pub.monitor.process.instance:getProcessList service and using the value returned
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in the *processNames/PROCESSKEY* output parameter. When you specify *modelID*, do not use the *modelNameInput* parameter.

<i>modelIDSet</i>	String List Optional. A set of complete model IDs used for the process instances you want retrieved. You can retrieve model IDs by invoking the pub.monitor.process.instance:getProcessList service and using the value returned in the <i>processNames/PROCESSKEY</i> output parameter. When you specify <i>modelID</i> , do not use the <i>modelNameInput</i> parameter.
<i>modelNameInput</i>	String Optional. Complete or partial model name used for the process instances you want retrieved. You can retrieve model names by invoking the pub.monitor.process.instance:getProcessList service and using the value returned in the <i>processNames/PROCESSKEYDECODE</i> output parameter. When you specify <i>modelNameInput</i> , do not use the <i>modelID</i> parameter.
<i>instanceID</i>	String Optional. Complete or partial instance ID for the process instances you want retrieved.
<i>status</i>	String Optional. The status of the process instances you want retrieved. The status you specify is matched against the most recently logged status. Use <i>status</i> if you want the list to contain all process instances of a single specified status. Specify the numerical value that represents the status. For a list of values you can specify, see “Status Reference” on page 185 .
	Note: If you do not specify <i>status</i> or <i>statusSet</i> , the service returns process instances of all statuses.
<i>statusSet</i>	String List Optional. A set of statuses for the process instances you want retrieved. Use <i>statusSet</i> when you want the list to contain process instances of more than one specified status. For each status that you specify in <i>statusSet</i> , specify the numerical value that represents the status, as described above for the <i>status</i> parameter.
<i>parentInstanceID</i>	String Optional. Complete or partial instance ID for the parent process of the process instances that you want retrieved.
<i>customID</i>	String Optional. The full, user-defined ID for the process instances that you want retrieved. User-defined IDs are assigned by executing the <code>pub.prt.log:logCustomID</code> service.
<i>dateCreated</i>	String Optional. A date range for the process instances you want retrieved. The date range identifies the date of the most recent log entry for the process instances. If you use this parameter, do not use the <i>fromDate</i> or <i>toDate</i> parameter. <ul style="list-style-type: none"> ■ Today Today ■ Yesterday Yesterday ■ In the last 7 days Within the last 7 days, including the current date.

- Last week Any day in the previous calendar last week (A week is Sunday through Saturday.)
- This week Any day in the current calendar week (A week is Sunday through Saturday.)
- Last month Any day in the previous calendar month
- This month Any day in the current calendar month

fromDate **String** Optional. The start date of when data was logged for the process instances you want retrieved. The service retrieves process instances with entries logged on or after this date. Use the format *YYYY-MM-DD HH:MM:SS*. If you use this parameter, use *toDate* to specify the end date; do not use the *dateCreated* parameter when you use the *fromDate* and *toDate* parameters.

toDate **String** Optional. The end date of when data was logged for the process instances you want retrieved. The service retrieves process instances with entries logged on or before this date. Use the format *YYYY-MM-DD HH:MM:SS*.

stepID **String** Optional. The full ID of a step that was executed in the process instances you want retrieved. You can retrieve step IDs using the service. When you use this *stepID* parameter, you must also specify:

- The *modelID* parameter to identify the model in which to search for the specified step.
- The *user* or *role* parameters.

user **String** Optional. To retrieve information about tasks, user on which to match (that is, user that performed a task). When you use this *user* parameter, you must also specify the *modelID* parameter.

role **String** Optional. To retrieve information about tasks, role on which to match (that is, role that performed a task). When you use this *role* parameter, you must also specify the *modelID* parameter.

maxRows **String** Optional. Maximum number of process instances to return, starting with those most recently logged. By default, the service gets all process instances.

isAnd **String** Optional. Whether to use an AND or an OR condition for the criteria specified in the input parameters.

- true Default. Use an AND condition. The service returns process instances that match all the criteria you specify.
- false Use an OR condition. The service returns process instances that match any of the criteria you specify.

<i>sortColumn</i>	<p>String Optional. How to sort the returned list of process instances. By default, the service sorts the returned data using AUDITTIMESTAMP. This parameter works with the <i>sortAscending</i> parameter.</p> <ul style="list-style-type: none"> ■ PROCESSLABEL Model name. ■ INSTANCEID Process instance ID. ■ PARENTINSTANCEID Parent process instance ID, if any. ■ STATUS Most recent status; the sort order is based on the numerical values associated with statuses. For a list of the status values, see “Status Reference” on page 185. ■ AUDITTIMESTAMP The last time data was logged for the process instance.
<i>sortAscending</i>	<p>String Optional. Whether to sort the returned list of process instances in ascending or descending order. The entries are sorted by the field identified by the <i>sortColumn</i> parameter.</p> <ul style="list-style-type: none"> ■ true Default. Sort in ascending order. ■ false Sort in descending order.
<i>criteriaFilter</i>	<p>String Optional. A filter that limits the returned instances based on pipeline values that are logged at run time. Define the pipeline variables to log when creating the process model and defining the step properties in Software AG Designer. For more information, see the <i>Software AG Designer Online Help</i>.</p> <p>Use the following format to specify the filter: <i>variable1=value1, value2, ... , valueN</i></p> <p>For example, if a pipeline variable named <i>city</i> is logged and you want to return only those instances for which the value of the pipeline variable <i>city</i> is Paris, use the following filter: <i>city=Paris</i></p> <p>If you want to return instances for which <i>city</i> is Paris or Madrid, use the following filter: <i>city=Paris, Madrid</i></p> <p>To use multiple logged pipeline variables, specify and between the variables/values. For example, to return instances for which <i>city</i> is Paris and <i>manager</i> is Mercier, use the following filter: <i>city=Paris and manager=Mercier</i></p>
<i>modelCriteriaFilter</i>	<p>String Optional. A filter that limits the returned instances based on filter fields and values that are associated with the process model on which the instance is based. Assign filter fields and values to process models using the service.</p> <p>Use the following format to specify the filter: <i>field1=value1, value2, ... , valueN</i></p>

For example, if you have set a filter field named *countryCode* and want to return only those instances that use models for which *countryCode* is *es*, use the following filter: `countryCode=es`

If you want to return instances that use models for which the *countryCode* is *es* or *fr*, use the following filter: `countryCode=es, fr`

To use multiple filter fields, specify `and` between the fields/values. For example, to return instances of models for which the *countryCode* is *es* or *fr* and the *department* is *AP*, use the following filter: `countryCode=es, fr and department=AP`

isCustomIDExact

Boolean Optional. If *isCustomIDExact* is set to true, it matches the exact *customID* in the query; otherwise it uses the LIKE condition.

Output Parameters

The following table lists the output parameters.

instances

Document List List of process instances that match the specified criteria. For each process instance, the following fields are returned:

- **AUDITTIMESTAMP Number** Time data was last logged for the process instance, in epoch time; that is, the number of seconds since January 1, 1970.
- **AUDITTIMESTRING String** Time data was last logged for the process instance in string format, YYYY-MM-DD hh:mm:ss.SSS zzz, where:
 - YYYY-MM-DD is the date
 - hh:mm:ss.SSS is the time, including milliseconds
 - zzz is the time zone
- **PARENTINSTANCEID String** Instance ID of the process instance's parent instance, if any.
- **PARENTINSTANCEITERATION Number** Instance iteration of the process instance's parent instance, if any.
- **INSTANCEID String** Instance ID of the process instance.
- **INSTANCEITERATION Number** Instance iteration of the process instance.
- **STATUS String** Status of the process instance. The service returns the numerical value that represents the status. For a list of the status values, see [“Status Reference” on page 185](#).

- **STATUSDECODE String** Status value for this process instance. The service returns the keyword value that represents the status. For the list of keyword values, for example, “Started” or “Completed,” see “Status Reference” on page 185.
- **PROCESSKEY String** Unique model ID of the process instance.
- **PROCESSKEYDECODE String** Process name of the process instance.
- **CUSTOMID String** The user-defined ID for the process instance that was assigned by executing the `pub.prt.log:logCustomID` service.
- **PROCESSLABEL String** Process name of the process instance.

message

String Optional. Error that occurred during the execution of this service if this service encountered an error.

Usage Notes

The following are services related to the *modelCriteriaFilter* input field:

- To assign a filter field that you can reference in *modelCriteriaFilter*, use the `pub.monitor.process.model:setProcessFilter` service.
- To retrieve a list of filter fields that are already set, use the `pub.monitor.process.model:getProcessFilter` service.
- To clear a filter field that you no longer need, use the `pub.monitor.process.model:clearProcessFilter` service.

pub.monitor.process.instance:getInstanceModelInfo

Retrieves information about the models that were invoked by a specified process instance.

Input Parameters

The following table lists the input parameters.

<i>instanceID</i>	String Process instance ID corresponding to the process model information you want to retrieve. Specify the complete, exact ID.
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Output Parameters

The following table lists the output parameters.

<i>modelID</i>	String Complete model ID corresponding to the process instance. To retrieve model IDs, invoke the service,
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[pub.monitor.process.instance:getProcessList](#), and use the value returned in the *processNames/PROCESSKEY* output parameter.

<i>modelVersion</i>	String The version of the process model to retrieve.
<i>deployment Version</i>	String The deployment version of the process model to retrieve.

pub.monitor.process.instance:getInstanceSteps

Retrieves information about all steps that were executed within a process instance.

Note:

Whether the search is case-sensitive or case-insensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

Input Parameters

The following table lists the input parameters.

<i>instanceID</i>	String Instance ID for the process instance for which to retrieve steps. Specify the complete, exact ID.
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Output Parameters

The following table lists the output parameters.

<i>instanceSteps</i>	Document List List of the steps that the specified process executed. For each step, the following fields are returned: <ul style="list-style-type: none">■ AUDITTIMESTAMP Number Time the step was logged, in epoch time; that is, the number of seconds since January 1, 1970.■ AUDITTIMESTRING String Time the step was logged in string format, YYYY-MM-DD hh:mm:ss.SSS zzz, where:<ul style="list-style-type: none">■ YYYY-MM-DD is the date■ hh:mm:ss.SSS is the time, including milliseconds■ zzz is the time zone■ INSTANCEID String Instance ID of the process instance in which the step was executed.■ INSTANCEITERATION Number Instance iteration for the process instance when the step was executed.■ STEPID String ID of the process step.
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- **STEPITERATION Number** Iteration of the process step.
- **STATUS String** Status of the process step. The service returns the numerical value that represents the status. For a description of the status values, see [“Status Reference” on page 185](#).
- **USERNAME String** If the step is a Task step, the user name associated with the task.
- **ROLENAME String** If the step is a Task step, the role name associated with the task.
- **SYSTEM String** System identified with this step. The service returns a numerical value to represent the system, as follows:
 - 1 Integration Server
 - 2 Task Engine
- **STEPLABEL String** Name of the step.
- **STATUSDECODE String** The keyword value for the process step's status. For the list of keyword values, see [“Status Reference” on page 185](#).
- **SYSTEMDECODE String** The name of the system upon which the step was executed. If the *SYSTEM* code is 1, the service returns “Integration Server;” if the *SYSTEM* code is 2, the service returns “Workflow.”

<i>stepNames</i>	HashMap List of the returned steps executed in the specified process instance. This is a hash map of key/value pairs, where the keys are the step IDs of the steps and values are the names of the steps.
<i>stepCidList</i>	HashMap List of the context IDs for the steps executed in the specified process instance. This is a hash map of key/value pairs, where the keys are the step IDs of the steps and the values are the context IDs for the steps.
<i>cidList</i>	HashSet A list of context IDs that correlate to the steps executed for the specified process instance.
<i>message</i>	String Error that occurred during the execution of this service if this service encountered an error.

pub.monitor.process.instance:getInstanceTransitions

Retrieves information from the logging database about the transitions that were logged for the most recent iteration of a process instance.

Note:

Whether the search is case-sensitive or case-insensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

Input Parameters

The following table lists the input parameters.

<i>instanceID</i>	String Instance ID for the process instance for which to retrieve logged transitions. Specify the complete, exact ID.
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Output Parameters

The following table lists the output parameters.

<i>transitions</i>	Document List List of the logged transitions for the specified process instance. For each transition, the following fields are returned: <ul style="list-style-type: none">■ <i>INSTANCEID</i> String Instance ID.■ <i>INSTANCEITERATION</i> Number Instance iteration.■ <i>SOURCESTEPID</i> String Step ID of the source step for this transition.■ <i>SOURCESTEPITERATION</i> Number Iteration of the source step for this transition.■ <i>TARGETSTEPID</i> String Step ID of the target step.■ <i>AUDITTIMESTAMP</i> Number Time the transition was logged, in epoch time; that is, the number of seconds since January 1, 1970.■ <i>AUDITTIMESTRING</i> String Time the transition was logged in string format, YYYY-MM-DD hh:mm:ss.SSS zzz, where:<ul style="list-style-type: none">■ YYYY-MM-DD is the date■ hh:mm:ss:SSS is the time, including milliseconds■ zzz is the time zone
<i>message</i>	String Optional. Error that occurred during the execution of this service if this service encountered an error.

pub.monitor.process.instance:getPagedInstanceList

Retrieves process instances between the *fromIndex* and *toIndex*, inclusive. Use this service instead of `pub.monitor.process.instance:getInstanceList` for better performance when retrieving records.

Input Parameters

The following table lists the input parameters.

<i>modelID</i>	String Optional. Complete model ID used for the process instances you want retrieved. You can retrieve model IDs by invoking the pub.monitor.process.instance:getProcessList service and using the value returned in the <i>processNames/PROCESSKEY</i> output parameter. When you specify <i>modelID</i> , do not use the <i>modelNameInput</i> parameter.
<i>modelNameInput</i>	String Optional. Complete or partial model name used for the process instances you want retrieved. You can retrieve model names by invoking the pub.monitor.process.instance:getProcessList service and using the value returned in the <i>processNames/PROCESSKEYDECODE</i> output parameter. When you specify <i>modelNameInput</i> , do not use the <i>modelID</i> parameter.
<i>instanceID</i>	String Optional. Complete or partial instance ID for the process instances you want retrieved.
<i>customID</i>	String Optional. The full, user-defined ID for the process instances that you want retrieved. User-defined IDs are assigned by executing the pub.prt.log:logCustomID service.
<i>parentInstanceID</i>	String Optional. Complete or partial instance ID for the parent process of the process instances that you want retrieved.
<i>status</i>	String Optional. The status of the process instances you want retrieved. The status you specify is matched against the most recently logged status. Use <i>status</i> if you want the list to contain all process instances of a single specified status. Specify the numerical value that represents the status. For a list of values you can specify, see “Status Reference” on page 185 .
	Note: If you do not specify <i>status</i> or <i>statusSet</i> , the service returns process instances of all statuses.
<i>statusSet</i>	String List Optional. A set of statuses for the process instances you want retrieved. Use <i>statusSet</i> when you want the list to contain process instances of more than one specified status. For each status that you specify in <i>statusSet</i> , specify the numerical value that represents the status, as described above for the <i>status</i> parameter.
<i>dateCreated</i>	String Optional. A date range for the process instances you want retrieved. The date range identifies the date of the most recent log entry for the process instances. If you use this parameter, do not use the <i>fromDate</i> or <i>toDate</i> parameter. <ul style="list-style-type: none"> ■ Today Today ■ Yesterday Yesterday

- In the last 7 days Within the last 7 days, including today.
- Last week Any day in the previous calendar last week (A week is Sunday through Saturday.)
- This week Any day in the current calendar week. (A week is Sunday through Saturday.)
- Last month Any day in the previous calendar month.
- This month Any day in the current calendar month.
- Year to date Any day in the current calendar year.

<i>fromDate</i>	String Optional. The start date of when data was logged for the process instances you want retrieved. The service retrieves process instances with entries logged on or after this date. Use the format <i>YYYY-MM-DD HH:MM:SS</i> . If you use this parameter, use <i>toDate</i> to specify the end date; do not use the <i>dateCreated</i> parameter when you use the <i>fromDate</i> and <i>toDate</i> parameters.
<i>toDate</i>	String Optional. The end date of when data was logged for the process instances you want retrieved. The service retrieves process instances with entries logged on or before this date. Use the format <i>YYYY-MM-DD HH:MM:SS</i> .
<i>stepID</i>	String Optional. The full ID of a step that was executed in the process instances you want retrieved. You can retrieve step IDs using the service. When you use this <i>stepID</i> parameter, you must also specify: <ul style="list-style-type: none">■ The <i>modelID</i> parameter to identify the model in which to search for the specified step.■ The <i>user</i> or <i>role</i> parameters.
<i>user</i>	String Optional. To retrieve information about tasks, user on which to match (that is, user that performed a task). When you use this <i>user</i> parameter, you must also specify the <i>modelID</i> parameter.
<i>role</i>	String Optional. To retrieve information about tasks, role on which to match (that is, role that performed a task). When you use this <i>role</i> parameter, you must also specify the <i>modelID</i> parameter.
<i>maxRows</i>	String Optional. Maximum number of process instances to return, starting with those most recently logged. By default, the service gets all process instances.
<i>sortColumn</i>	String Optional. How to sort the returned list of process instances. By default, the service sorts the returned data using <i>AUDITTIMESTAMP</i> . This parameter works with the <i>sortAscending</i> parameter. Sort by: <ul style="list-style-type: none">■ <i>PROCESSLABEL</i> Model name.

	<ul style="list-style-type: none"> ■ INSTANCEID Process instance ID. ■ PARENTINSTANCEID Parent process instance ID, if any. ■ STATUS Most recent status; the sort order is based on the numerical values associated with statuses. For a list of the status values, see “Status Reference” on page 185. ■ AUDITTIMESTAMP The last time data was logged for the process instance.
<i>sortAscending</i>	<p>String Optional. Whether to sort the returned list of process instances in ascending or descending order. The entries are sorted by the field identified by the <i>sortColumn</i> parameter.</p> <ul style="list-style-type: none"> ■ <code>true</code> Default. Sort in ascending order. ■ <code>false</code> Sort in descending order.
<i>isAnd</i>	<p>String Optional. Whether the service is to use an AND or an OR condition for the criteria specified in the input parameters.</p> <ul style="list-style-type: none"> ■ <code>true</code> Default. Use an AND condition. The service returns process instances that match all the criteria you specify. ■ <code>false</code> Use an OR condition. The service returns process instances that match any of the criteria you specify.
<i>fromIndex</i>	String The starting start row number of the data to retrieve.
<i>toIndex</i>	String The ending row number of the data to retrieve.

Output Parameters

The following table lists the output parameters.

<i>instances</i>	<p>Document List List of process instances that match the specified criteria. For each process instance, the following fields are returned:</p> <ul style="list-style-type: none"> ■ <i>instanceId</i> String Instance ID of the process instance. ■ <i>parentInstanceId</i> String Instance ID of the process instance's parent instance, if any. ■ <i>instanceIteration</i> Number Instance iteration of the process instance. ■ <i>customId</i> String The user-defined ID for the process instance that was assigned by executing the <code>pub.prt.log:logCustomID</code> service. ■ <i>modelId</i> String Unique model ID of the process instance. ■ <i>modelName</i> String Name of the process instance. ■ <i>modelVersion</i> String The version of the model.
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- *firstStatus* **Number** First status of the process instance.
- *firstTime* **String** Time that data was first logged for the process instance, in string format, YYYY-MM-DD hh:mm:ss.SSS zzz, where: YYYY-MM-DD is the date, hh:mm:ss.SSS is the time and zzz is the time in milliseconds.
- *lastStatus* **Number** Latest status of the process instance.
- *lastTime* **String** Time that data was last logged for the process instance, in string format, YYYY-MM-DD hh:mm:ss.SSS zzz, where: YYYY-MM-DD is the date, hh:mm:ss.SSS is the time and zzz is the time in milliseconds.

message **String** Optional. Error that occurred during the execution of this service, if this service encountered an error.

Usage Notes

This service is related to the `pub.monitor.process.instance:getInstanceList` service but limits the process models returned by the *fromIndex* and *toIndex*. This query performs best if there is not a large difference between the input parameters.

pub.monitor.process.instance:getProcessList

Retrieves the model names of all process instances that have run, successfully or otherwise, and for which logging data exists in the logging database.

Input Parameters

None.

Output Parameters

The following table lists the output parameters.

<i>processNames</i>	Document List List of the process models for process instances that have run and for which logging data exists in the logging database. For each process model, the following fields are returned: <ul style="list-style-type: none">■ <i>PROCESSKEY</i> String Internal model ID that Designer assigned to the process model.■ <i>PROCESSKEYDECODE</i> String User-defined name assigned to the process model.
<i>message</i>	String Error that occurred during the execution of this service if this service encountered an error.

pub.monitor.process.instance:getRecentlyCompleted

Retrieves information for the most recently completed process instances. The service returns information for up to twenty process instances that completed in the last two weeks.

Input Parameters

None.

Output Parameters

The following table lists the output parameters.

<i>recentlyCompleted</i>	<p>Document List List of the most recently completed process instances. For each process instance, the following fields are returned:</p> <ul style="list-style-type: none"> ■ AUDITTIMESTAMP Number Latest logged timestamp in epoch time; that is, the number of seconds since January 1, 1970. ■ AUDITTIMESTAMP String Latest logged timestamp in string format, YYYY-MM-DDhh:mm:ss.SSS zzz, where: <ul style="list-style-type: none"> ■ YYYY-MM-DD is the date ■ hh:mm:ss:SSS is the time, including milliseconds ■ zzz is the time zone ■ PARENTINSTANCEID String Parent instance ID, if any. ■ PARENTINSTANCEITERATION Number Parent instance iteration, if any. ■ INSTANCEID String Instance ID. ■ INSTANCEITERATION Number Instance iteration. ■ STATUS String Status code, which is 2 for completed instances. ■ STATUSDECODE String Status value, which is Completed. ■ PROCESSKEY String Internal model ID that Designer assigned to the process model used for the process instance. ■ PROCESSKEYDECODE String User-defined name of the process model that was used for the process instance. ■ CUSTOMID String The user-defined ID for the process instance that was assigned by executing the pub.prt.log:logCustomID service.
<i>message</i>	<p>String Optional. Error that occurred during the execution of this service if this service encountered an error.</p>

pub.monitor.process.instance:getRecentlyCreated

Retrieves information for the most recently created process instances. The service returns information for up to twenty process instances that were created in the last two weeks.

Input Parameters

None.

Output Parameters

The following table lists the output parameters.

<i>recentlyCreated</i>	<p>Document List List of the most recently created process instances. For each process instance, the following fields are returned:</p> <ul style="list-style-type: none">■ AUDITTIMESTAMP Number Latest logged timestamp in epoch time; that is, the number of seconds since January 1, 1970.■ AUDITTIMESTRING String Latest logged timestamp in string format, YYYY-MM-DD hh:mm:ss.SSS zzz, where:<ul style="list-style-type: none">■ YYYY-MM-DD is the date■ hh:mm:ss:SSS is the time, including milliseconds■ zzz is the time zone■ PARENTINSTANCEID String Parent instance ID, if any.■ PARENTINSTANCEITERATION Number Parent instance iteration, if any.■ INSTANCEID String Instance ID.■ INSTANCEITERATION Number Instance iteration.■ STATUS String Status code, which is 1 for Started.■ STATUSDECODE String Status value, which is Started.■ PROCESSKEY String Internal model ID that Designer assigned to the process model used for the process instance.■ PROCESSKEYDECODE String User-defined name of the process model that was used for the process instance.■ CUSTOMID String The user-defined ID for the process instance that was assigned by executing the pub.prt.log:logCustomID service.
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pub.monitor.process.instance:getRecentlyFailed

Retrieves information for the most recently failed process instances. The service returns information for up to twenty process instances that failed in the last two weeks.

Input Parameters

None.

Output Parameters

The following table lists the output parameters.

<i>recentlyFailed</i>	<p>Document List List of the most recently failed process instances. For each process instance, the following fields are returned:</p> <ul style="list-style-type: none"> ■ AUDITTIMESTAMP Number Latest logged timestamp in epoch time; that is, the number of seconds since January 1, 1970. ■ AUDITTIMESTAMP String Latest logged timestamp in string format, YYYY-MM-DD hh:mm:ss.SSS zzz, where: <ul style="list-style-type: none"> ■ YYYY-MM-DD is the date ■ hh:mm:ss:SSS is the time, including milliseconds ■ zzz is the time zone ■ PARENTINSTANCEID String Parent instance ID, if any. ■ PARENTINSTANCEITERATION Number Parent instance iteration, if any. ■ INSTANCEID String Instance ID. ■ INSTANCEITERATION Number Instance iteration. ■ STATUS String Status code, which is 4 for failed instances. ■ STATUSDECODE String Status value, which is Failed. ■ PROCESSKEY String Internal model ID that Designer assigned to the process model used for the process instance. ■ PROCESSKEYDECODE String User-defined name of the process model that was used for the process instance. ■ CUSTOMID String The user-defined ID for the process instance that was assigned by executing the pub.prt.log:logCustomID service.
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pub.monitor.process.instance:getRecentlySuspended

Retrieves information for the most recently suspended process instances. The service returns information for up to twenty process instances that were suspended in the last two weeks.

Input Parameters

None.

Output Parameters

The following table lists the output parameters.

<i>recentlySuspended</i>	<p>Document List List of the most recently suspended process instances. For each process instance, the following fields are returned. For the process instance:</p> <ul style="list-style-type: none">■ AUDITTIMESTAMP Number Latest logged timestamp in epoch time; that is, the number of seconds since January 1, 1970.■ AUDITTIMESTRING String Latest logged timestamp in string format, YYYY-MM-DD hh:mm:ss.SSS zzz, where:<ul style="list-style-type: none">■ YYYY-MM-DD is the date■ hh:mm:ss:SSS is the time, including milliseconds■ zzz is the time zone■ PARENTINSTANCEID String Parent instance ID, if any.■ PARENTINSTANCEITERATION Number Parent instance iteration, if any.■ INSTANCEID String Instance ID.■ INSTANCEITERATION Number Instance iteration.■ STATUS String Status code, which is 8 for suspended instances.■ STATUSDECODE String Status value, which is Suspended.■ PROCESSKEY String Internal model ID that Designer assigned to the process model used for the process instance.■ PROCESSKEYDECODE String User-defined name of the process model that was used for the process instance.■ CUSTOMID String The user-defined ID for the process instance that was assigned by executing the pub.prt.log:logCustomID service.
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7 pub.monitor.process.instanceControl Folder

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■ pub.monitor.process.instanceControl:resubmitAllFailed	102
■ pub.monitor.process.instanceControl:resubmitInstanceStep	103

Summary of Elements in This Folder

The following table lists and describes the services.

Service and Description
<p>pub.monitor.process.instanceControl:changeInstanceStatus</p> <p>Stops, suspends, or resumes a specified process instance.</p>
<p>pub.monitor.process.instanceControl:changeUserTaskPriority</p> <p>Changes the priority of the user tasks in a specified process instance.</p>
<p>pub.monitor.process.instanceControl:resubmitAllFailed</p> <p>Resubmits all iterations of the specified failed process instances at the failed step.</p>
<p>pub.monitor.process.instanceControl:resubmitInstanceStep</p> <p>Resubmits a specified iteration of a specified completed or failed process instance at a specified iteration of a process step.</p>

pub.monitor.process.instanceControl:changeInstanceStatus

Stops, suspends, or resumes a specified process instance.

Input Parameters

The following table lists the input parameters.

<i>instanceID</i>	<p>String Instance ID for the process instance that you want to stop, suspend, or resume. Specify the complete, exact ID.</p> <p>Note: Whether Monitor treats <i>instanceID</i> as case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.</p>
<i>instanceIteration</i>	<p>Number Specific process iteration that you want to stop, suspend, or resume.</p>
<i>modelID</i>	<p>String Complete model ID of the model that the process instance uses. You can retrieve model IDs by invoking the pub.monitor.process.instance:getProcessList service and using the value returned in the <i>processNames/PROCESSKEY</i> output parameter.</p> <p>Note:</p>

Whether Monitor treats *modelID* as case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

<i>controlAction</i>	<p>String Control action that you want to take against the specified process instance.</p> <ul style="list-style-type: none"> ■ CANCEL Stop the running process iteration. ■ SUSPEND Suspend the running process iteration. ■ RESUME Resume the suspended process iteration. ■ String x
<i>modelVersion</i>	<p>String The version of the process model that the process instance uses. The model version for externally executed process models is always 1.</p>

Output Parameters

The following table lists the output parameters.

<i>controlMessage</i>	String Message that indicates the success of the status change.
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pub.monitor.process.instanceControl:changeUserTaskPriority

Changes the priority of the user tasks in a specified process instance.

Input Parameters

The following table lists the input parameters.

<i>ProcessInstanceID</i>	String Instance ID for the process instance containing the user tasks.
<i>Priority</i>	<p>String The priority of the user tasks in the specified process instance. Valid values are:</p> <ul style="list-style-type: none"> ■ critical ■ high ■ medium ■ low ■ none

Output Parameters

The following table lists the output parameters.

<i>EscalatedTasks</i>	String The IDs of the user tasks that had their priority changed.
<i>message</i>	String Optional. Error that occurred during the execution of this service if this service encountered an error.

pub.monitor.process.instanceControl:resubmitAllFailed

Resubmits all iterations of the specified failed process instances at the failed step.

Input Parameters

The following table lists the input parameters.

<i>modelID</i>	String Optional. Complete model ID of the model used for the process instances whose iterations you want to resubmit. You can retrieve model IDs by invoking the pub.monitor.process.instance:getProcessList service and using the value returned in the <i>processNames/PROCESSKEY</i> output parameter. When you specify <i>modelID</i> , do not use the <i>modelNameInput</i> parameter.
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Note:

Whether Monitor treats *modelID* as case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

<i>modelNameInput</i>	String Optional. Partial model name of the model used for the process instances whose iterations you want to resubmit. You can retrieve model names by invoking the pub.monitor.process.instance:getProcessList service and using the value returned in the <i>processNames/PROCESSKEYDECODE</i> output parameter. When you specify <i>modelNameInput</i> , do not use the <i>modelID</i> parameter.
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Note:

Whether Monitor treats *modelNameInput* as case-sensitive or case-insensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

<i>dateCreated</i>	String Optional. A date range for the process iterations you want to resubmit. The date range identifies the date of the most recent log entry for the process iterations. To select processes whose most recent entry was logged, set the parameters as follows:
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- Today The current date.

- Yesterday The day before the current date.
- In the last 7 days Within the last 7 days, including the current date.
- Last week Any day in the last calendar last week. (A week is Sunday through Saturday.)
- This week Any day in this calendar week. (A week is Sunday through Saturday.)
- Last month Any day in the last calendar month.
- This month Any day in the current calendar month.
- Year to date Any day in the current calendar year.

maxRows **String** Optional. Maximum number of process iterations to resubmit, starting with those most recently logged. By default, the service resubmits the 100 most recent process iterations.

Output Parameters

The following table lists the output parameters.

controlMessage **String** Message that indicates the success of the resubmission.

Usage Notes

You must have the proper functional privileges to resubmit processes. For more information, see information about granting users the ability to perform Monitor actions in *webMethods Monitor User's Guide*.

pub.monitor.process.instanceControl:resubmitInstanceStep

Resubmits a specified iteration of a specified completed or failed process instance at a specified iteration of a process step.

Input Parameters

The following table lists the input parameters.

instanceID **String** Instance ID for the process instance to resubmit. Specify the complete, exact ID.

Note:

Whether Monitor treats *instanceID* as case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

<i>instanceIteration</i>	Number Iteration of the process instance to resubmit.
<i>stepID</i>	String The full step ID for the step at which to resubmit the process instance.
<i>stepIteration</i>	Number Iteration of the step to resubmit.
<i>stepPipeline</i>	Document Optional. Input pipeline for the step.
<i>globalData</i>	Document Optional. Global data for this step.

Output Parameters

The following table lists the output parameters.

<i>controlMessage</i>	String Message that indicates the success of the resubmission.
-----------------------	---

Usage Notes

You can retrieve all input data needed to run this service using the [pub.monitor.process.instanceSteps:getStepDetails](#) service.

You must have the proper functional privileges to resubmit processes. If you have functional privileges to resubmit but not to modify the input pipeline or global data, the service retrieves that information from the logging database even if you try to supply them on the *stepPipeline* and *globalData* parameters. For more information, see information about granting users the ability to perform Monitor actions in *webMethods Monitor User's Guide*.

8 pub.monitor.process.instanceSteps Folder

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Summary of Elements in This Folder

The following table lists and describes the services.

Service and Description
pub.monitor.process.instanceSteps:getStepActivityLogs
Retrieves all user-defined messages that were logged by the process instance that contains the specified process step. This includes all messages that any service, invoked in any iteration of any step logged.
pub.monitor.process.instanceSteps:getStepControl
Retrieves all control actions for all iterations of a specified process step.
pub.monitor.process.instanceSteps:getStepCustomData
Retrieves the user-specified document field values, which were logged for a specified iteration of either a specified Invoke step or Task step.
pub.monitor.process.instanceSteps:getStepDetails
Retrieves details about a step that has a specified status and that was executed in the specified process iteration and step iteration.
pub.monitor.process.instanceSteps:getStepErrors
Retrieves the errors associated with a specified process step.
pub.monitor.process.instanceSteps:getStepHistory
Retrieves all log entries from the logging database for all iterations of the specified step.
pub.monitor.process.instanceSteps:getStepPipeline
Retrieves the pipeline details of the specified process step executed in the specified process iteration and step iteration.

pub.monitor.process.instanceSteps:getStepActivityLogs

Retrieves all user-defined messages that were logged by the process instance that contains the specified process step. This includes all messages that any service, invoked in any iteration of any step logged.

Input Parameters

The following table lists the input parameters.

<i>instanceID</i>	String Instance ID of the process instance in which the step exists. Specify the complete, exact ID.
	<p>Note: Whether Monitor treats <i>instanceID</i> as case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.</p>
<i>instanceIteration</i>	String A number that indicates the iteration of the process instance that contains the step.
<i>stepID</i>	String Optional. The full step ID for the step. You can retrieve step IDs using the pub.monitor.process.modelSteps:getStepIDNames service.
<i>stepIteration</i>	String Optional. A number that indicates the iteration of the step for which to retrieve document field values.

Output Parameters

The following table lists the output parameters.

<i>activityLogData</i>	<p>Document List List of the retrieved user-defined messages. For each user-defined message, the following fields are returned:</p> <ul style="list-style-type: none"> ■ STEPID String Step ID of the step that logged the document field value. ■ ENTRYTYPE String The type of user-defined message, that is error, warning, or message. ■ FULLMESSAGE String The text of the user-defined message. It will contain up to 1024 characters. ■ BRIEFMESSAGE String A brief version of the text of the message that contains only up to 240 characters. ■ B2BUSER String The Integration Server user that invoked the service that logged the user-defined message. ■ SERVERID String ID of server where service that logged the user-defined message ran. ■ AUDITTIMESTAMP Number Time the message was logged, in epoch time; that is, the number of seconds since January 1, 1970. ■ AUDITTIMESTRING String Time the message was logged in string format, YYYY-MM-DD hh:mm:ss.SSS zzz, where: <ul style="list-style-type: none"> ■ YYYY-MM-DD is the date ■ hh:mm:ss:SSS is the time, including milliseconds
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- zzz is the time zone

message **String** Optional. Error that occurred during the execution of this service if this service encountered an error.

pub.monitor.process.instanceSteps:getStepControl

Retrieves all control actions for all iterations of a specified process step.

Input Parameters

The following table lists the input parameters.

instanceID **String** Instance ID of the process instance in which the step exists. Specify the complete, exact ID.

Note:

Whether Monitor treats *instanceID* as case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

instanceIteration **String** A number that indicates the iteration of the process instance that contains the step.

stepID **String** Optional. The full step ID for the step. You can retrieve step IDs using the [pub.monitor.process.modelSteps:getStepIDNames](#) service.

stepIteration **String** Optional. A number that indicates the iteration of the step for which to retrieve document field values.

Output Parameters

The following table lists the output parameters.

stepControl **Document List** List of the retrieved control actions. For each control action, the following fields are returned:

- **ACTION String** The type of control action. The service returns the numerical value that represents the type, as follows:
 - 1 Service Resubmit
 - 2 Document Resubmit
 - 3 Process Resubmit
 - 4 Process Suspend
 - 5 Process Resume

- 6 Process Stop
- **ACTIONDECODE String** The keyword value for the type of control action; that is, one of the following:
 - Service Resubmit
 - Document Resubmit
 - Process Resubmit
 - Process Suspend
 - Process Resume
 - Process Stop
- **INSTANCEITERATION Number** The step iteration of the step when the control action was taken.
- **USERNAME String** User who initiated the control action.
- **SERVERID String** Server where the action was initiated.
- **AUDITTIMESTRING String** Time the action was logged in string format, YYYY-MM-DD hh:mm:ss.SSS zzz, where:
 - YYYY-MM-DD is the date
 - hh:mm:ss:SSS is the time, including milliseconds
 - zzz is the time zone

message **String** Optional. Error that occurred during the execution of this service if this service encountered an error.

pub.monitor.process.instanceSteps:getStepCustomData

Retrieves the user-specified document field values, which were logged for a specified iteration of either a specified Invoke step or Task step.

Input Parameters

The following table lists the input parameters.

<i>instanceID</i>	String Instance ID of the process instance that contains the step whose user-specified document field values to retrieve. Specify the complete, exact ID.
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Note:

Whether Monitor treats *instanceID* as case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

<i>instanceIteration</i>	Number Iteration of the process instance that contains the step.
<i>stepID</i>	String The full step ID for the step. You can retrieve step IDs using the pub.monitor.process.modelSteps:getStepIDNames service.
<i>stepIteration</i>	Number Iteration of the step for which to retrieve document field values.

Output Parameters

The following table lists the output parameters.

<i>stepCustomData</i>	Document List List of the retrieved user-specified document field values. For each document field, the following fields are returned: <ul style="list-style-type: none">■ STEPID String Step ID of the step that logged the document field value.■ STEPITERATION Number Step iteration of the step that logged the document field value.■ INSTANCEITERATION Number Iteration of the process instance when the step logged the document field value.■ DOCUMENTNAME String The name of the user-defined document that contains the field that was logged.■ FIELDNAME String Name of the logged field.■ STRINGVALUE String The value of the field if the logged field value is a String.■ NUMBERVALUE String The value of the field if the logged field value is a number.■ DATEVALUE String The value of the logged field if the logged field value is a date.■ AUDITTIMESTAMP Number Timestamp that the field was logged, in epoch time; that is, the number of seconds since January 1, 1970.
<i>message</i>	String Error that occurred during the execution of this service if this service encountered an error.

pub.monitor.process.instanceSteps:getStepDetails

Retrieves details for a specific step, with a specified status that was executed in the specified process iteration and step iteration.

Input Parameters

The following table lists the input parameters.

<i>stepID</i>	String The full step ID of the step whose details you want to retrieve. You can retrieve step IDs using the pub.monitor.process.instance:getInstanceSteps service.
<i>instanceID</i>	String Instance ID for the process instance. Specify the complete, exact ID.
	Note: Whether Monitor treats <i>instanceID</i> as case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues.
<i>status</i>	String Status of the step for which to retrieve information. Specify the numerical value that represents the status. For a list of valid values, see “Status Reference” on page 185 .
<i>instanceIteration</i>	Number Iteration of the process instance that contains the step.
<i>stepIteration</i>	Number Iteration of the step for which to retrieve information.

Output Parameters

The following table lists the output parameters.

<i>stepData</i>	<p>Document The details for the step. <i>stepData</i> returns the following:</p> <ul style="list-style-type: none"> ■ <i>stepLabel</i> String Name of the step. ■ <i>timestamp</i> String Timestamp for the retrieved status, in string format YYYY-MM-DD hh:mm:ss.SSS zzz, where: <ul style="list-style-type: none"> ■ YYYY-MM-DD is the date ■ hh:mm:ss:SSS is the time, including milliseconds ■ zzz is the time zone ■ <i>description</i> String Description of the step. ■ <i>user</i> String For task steps, the user assigned to perform the task. ■ <i>roleName</i> String For task steps, the roles assigned to perform the task. ■ <i>rootContextID</i> String The root context ID is an internal identifier that Integration Server uses. ■ <i>parentContextID</i> String The parent context ID is an internal identifier that Integration Server uses. ■ <i>contextID</i> String Context ID to retrieve errors associated with the step.
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- *instanceID* **String** Instance ID for the process instance.
- *instanceIteration* **Number** Iteration of the process instance that contained the step.
- *instanceStatus* **String** Status of the process instance that contains the step. The service returns a numerical value that represents the status. For a description of the status values, see [“Status Reference” on page 185](#).
- *modelID* **String** Model ID for the model that contains the step and that the process instance uses.
- *modelName* **String** Name of the model that contains the step and that the process instance uses.
- *stepID* **String** Step ID of the step.
- *stepIteration* **Number** Step iteration of the step.
- *status* **String** Status of the step. The service returns the numerical value that represents the status. For a description of the status values, see [“Status Reference” on page 185](#).
- *statusDecode* **String** Status value of the step. The service returns the localized keyword value that represents the status. For the list of status values, for example, “Started” or “Completed” (in English), see [“Status Reference” on page 185](#).
- *serverID* **String** Host name and port of the Integration Server on which the step ran.
- *pipeNull* **String** Whether the step's input pipeline was logged.
 - `true` Input pipeline was not logged.
 - `false` Input pipeline was logged and is available for viewing or resubmission.
- *globalDataNull* **String** Whether the step's input global data was logged.
 - `true` Input global data was not logged.
 - `false` Input global data was logged and is available for viewing or resubmission.
- *icon* **String** URL for the step's status icon in the file system.
- *stepPipeline* **Document** Input pipeline for the step, if logged.
- *globalData* **Document** Global data for the step, if logged.

message

String Error that occurred during the execution of this service if this service encountered an error.

<i>processResubmit</i>	<p>String Indicates if the user who invoked the <code>pub.monitor.process.instanceSteps:getStepDetails</code> service belongs to a My webMethods role that has the functional privilege to resubmit the process instance:</p> <ul style="list-style-type: none"> ■ <code>true</code> User has the functional privilege to resubmit the process. ■ <code>false</code> User does not have the functional privilege.
<i>pipelineEdit</i>	<p>String Whether the user who invoked the <code>pub.monitor.process.instanceSteps:getStepDetails</code> service belongs to a My webMethods role that has the functional privilege to modify the pipeline for a process step.</p> <ul style="list-style-type: none"> ■ <code>true</code> User has the privilege to modify the step. ■ <code>false</code> User does not have the privilege to modify the step.

Usage Notes

The *stepPipeline* and *globalData* parameters are encoded as IData. You can modify and resubmit them (if you have the proper functional privileges) with the [pub.monitor.process.instanceControl:resubmitInstanceStep](#) service.

pub.monitor.process.instanceSteps:getStepErrors

Retrieves the errors associated with a specified process step.

Input Parameters

The following table lists the input parameters.

<i>instanceID</i>	<p>String Instance ID of the process instance in which the step exists. Specify the complete, exact ID.</p> <div style="background-color: #f0f0f0; padding: 5px;"> <p>Note: Whether Monitor treats <i>instanceID</i> as case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.</p> </div>
<i>instanceIteration</i>	<p>String A number that indicates the iteration of the process instance that contains the step.</p>
<i>stepID</i>	<p>String Optional. The full step ID for the step. You can retrieve step IDs using the pub.monitor.process.modelSteps:getStepIDNames service.</p>
<i>stepIteration</i>	<p>String Optional. A number that indicates the iteration of the step for which to retrieve document field values.</p>

Output Parameters

The following table lists the output parameters.

<i>stepErrors</i>	Document List The retrieved list of errors. If there are no errors associated with the step, the service returns a null value. If there are errors, the following fields are returned for each error: <ul style="list-style-type: none">■ <i>AUDITTIMESTAMP</i> Number Time the error was logged, in epoch time; that is, the number of seconds since January 1, 1970.■ <i>ERRORSTACKTRACE</i> String Stack trace for the error.■ <i>SERVERID</i> String Server ID of the server where the error occurred.
<i>message</i>	String Optional. Error that occurred during the execution of this service if this service encountered an error.

pub.monitor.process.instanceSteps:getStepHistory

Retrieves all log entries from the logging database for all iterations of the specified step.

Input Parameters

The following table lists the input parameters.

<i>instanceID</i>	String Instance ID of the process instance in which the step exists. Specify the complete, exact ID.
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Note:

Whether Monitor treats *instanceID* as case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

<i>stepID</i>	String The full step ID of the step. To retrieve step IDs, use the pub.monitor.process.instance:getInstanceSteps service.
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Output Parameters

The following table lists the output parameters.

<i>stepHistory</i>	com.wm.util.Table Logging information for the specified step.
<i>message</i>	String Error that occurred during the execution of this service if this service encountered an error.

pub.monitor.process.instanceSteps:getStepPipeline

Retrieves the pipeline details of the specified process step executed in the specified process iteration and step iteration.

Input Parameters

The following table lists the input parameters.

<i>instanceId</i>	String Optional. Instance ID for the process instance. Specify the complete, exact ID.
	<p>Note: Whether Monitor treats <i>instanceID</i> as case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.</p>
<i>instanceIteration</i>	Number Optional. Iteration of the process instance that contains the step.
<i>stepId</i>	String Optional. The full step ID for the step details to retrieve. To retrieve step IDs, use the <code>pub.monitor.process.instance:getInstanceSteps</code> service.
<i>stepIteration</i>	Number Optional. The step iteration for which to retrieve information.

Output Parameters

The following table lists the output parameters.

<i>pipeXML</i>	String. Contains the pipeline information of the specified step of the process. If there is no data in the pipeline for the process step, the string contains No Data message.
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9 pub.monitor.process.model Folder

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Summary of Elements in This Folder

The following table lists and describes the services.

Service and Description	
pub.monitor.process.model:clearProcessFilter	Removes a filter field and its value that was previously assigned to a process model.
pub.monitor.process.model:generateModellImage	Generates the model image for a specified process model in SVG format.
pub.monitor.process.model:getCustomFieldDefinitions	Retrieves the custom field definitions for the specified model.
pub.monitor.process.model:getCustomFields	Retrieves all custom document fields that were defined for a specified process model.
pub.monitor.process.model:getModelDetails	Retrieves the detailed information for a specified process model.
pub.monitor.process.model:getModellImage	Retrieves the model image for a specified process model.
pub.monitor.process.model:getModelList	Retrieves a list of process models for which at least one process instance of the model has run.
pub.monitor.process.model:getModelListWithFilter	Retrieves a list of process models that match a specified filter and for which at least one process instance of the model has run.
pub.monitor.process.model:getModelNames	Retrieves the names and IDs of all process models for which information is stored in the logging database.
pub.monitor.process.model:getModelNamesWithFilter	Retrieves names and IDs of process models that match a specified filter and for which information is stored in the logging database.
pub.monitor.process.model:getProcessFilter	Retrieves the list of all filter fields and values that are assigned to all process models.
pub.monitor.process.model:getUnusedModels	

Service and Description

Retrieves process models that are available for execution, but for which no logging data exists in the Process Audit Log database component.

[pub.monitor.process.model:setProcessFilter](#)

Assigns a filter field and its value to a process model. You can then use the filter field and value in a filter that limits the items returned when you execute services to retrieve a list of process models, list of process model names and IDs, or a list of process instances.

[pub.monitor.process.model:clearProcessFilter](#)

Removes a filter field and its value that was previously assigned to a process model.

Note:

The service uses the input parameters to search for the filter field/value to remove. Whether the search is case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to locate the field/value to remove. If the search is case-sensitive, be sure to specify the field name and value using the exact case used when the field was assigned.

Input Parameters

The following table lists the input parameters.

<i>processKey</i>	String The internal identifier (that is, process key) of the process model from which to remove a field and value.
<i>fieldName</i>	String The name of the field to remove from the process model.
<i>stringValue</i>	String The value of the field that you want to remove.

Output Parameters

The following table lists the output parameters.

<i>result</i>	String The result of the service. If the service completes successfully, the <i>result</i> returns success. Otherwise, <i>result</i> returns the failure message.
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Usage Notes

To retrieve a list of filter fields that are already set, use the [pub.monitor.process.model:getProcessFilter](#) service. Use this service if you need to determine the exact combination of upper- and lowercase characters used for a field and/or value.

pub.monitor.process.model:generateModelImage

Generates the model image for a specified process model in SVG format. The service writes the generated image to the file system in IData format.

Input Parameters

The following table lists the input parameters.

<i>modelID</i>	String Model ID of the process model image to create. To retrieve model IDs, invoke the pub.monitor.process.model:getModelNames service and use the value returned in the <i>modelNames/PROCESSKEY</i> output parameter.
	Note: Whether Monitor treats <i>modelID</i> as case-sensitive or case-insensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.
<i>subNodeID</i>	String Optional. Node ID of a step within the process model that represents an inline process (or subprocess) within the process; that is a set of steps that are collapsed into a single step. When you specify <i>subnodeID</i> , the service generates the image for the subprocess only, not for the entire process. To retrieve the node IDs for the subprocesses within a process, execute the pub.monitor.process.modelSteps:getModelSteps service and use the value returned in the <i>modelSteps/INLINESTEPID</i> field.
<i>deployVersion</i>	String The version of the process model for which you want to generate a model image. The model version for externally executed process models is always 1. There is no image associated with integration processes.

Output Parameters

The following table lists the output parameters.

<i>imageData</i>	Document The generated image. The returned <i>imageData</i> document contains the following fields: <ul style="list-style-type: none"> ■ <i>imageUrl</i> String URL of the image in the file system. ■ <i>width</i> String Width of the image. ■ <i>height</i> String Height of the image. ■ <i>type</i> String Image type. The value is 2 for images in SVG format. ■ <i>imageMap</i> Document List A list of IDs for the child processes (that is, referenced processes and subprocesses) contained in the model. To obtain the details for one of these child processes, you can re-execute this service
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specifying its ID. For each child process in the mode, the following fields are returned:

- **key String** If the child process is a referenced process, *key* contains the model ID of the referenced process model.
- **stepid String** If the child process is a subprocess, *stepid* contains the ID of the step that represents the inline subprocess.
- **x String** The top x coordinate of the step icon for the child process.
- **y String** The left y coordinate of the step icon for the child process.
- **x2 String** The bottom x coordinate of the step icon for the child process.
- **y2 String** The right y coordinate of the step icon for the child process.

imageError **String** Errors that occurred while generating the image.

pub.monitor.process.model:getCustomFieldDefinitions

Retrieves the custom field definitions for the specified model.

Input Parameters

The following table lists the input parameters.

<i>modelID</i>	String Model ID of the process model from which to retrieve custom field definitions. To retrieve model IDs, invoke the pub.monitor.process.model:getModelNames service and use the value returned in the <i>modelNames/PROCESSKEY</i> output parameter.
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Note:

Whether Monitor treats *modelID* as case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

<i>deployVersion</i>	String The version of the process model. The model version for externally executed and integration processes models is always 1.
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Output Parameters

The following table lists the output parameters.

<i>customFields</i>	Document List List of the retrieved custom field definitions. For each custom field definition, the following fields are returned: <ul style="list-style-type: none"> ■ PROCESSKEY String The model ID of the process model that contains the custom field definition.
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- **STEPID String** Step ID of the step that is set up to log a field for a custom field definition.
- **DOCUMENTTYPE String** Fully-qualified name of the IS document type for the document that contains the custom field.
- **DOCUMENTNAME String** User-defined name of the document as it was specified in Designer.
- **FIELDNAME String** The field name as defined in the IS document type.
- **FIELDTYPE String** Data type for the field, which will be one of String, Number, or Date.
- **TYPE String** Whether the custom field is in the pipeline data or the global data.
 - 1 The custom field is in the pipeline data.
 - 2 The custom field is in the global data.

message

String Error that occurred during the execution of this service if this service encountered an error.

pub.monitor.process.model:getCustomFields

Retrieves all custom document fields that were defined for a specified process model.

Input Parameters

The following table lists the input parameters.

modelID

String Complete model ID of the process model for which you want to retrieve user-specified document fields. You can retrieve model IDs by invoking the [pub.monitor.process.model:getModelNames](#) service and using the value returned in the *modelNames/PROCESSKEY* output parameter.

Note:

Whether Monitor treats *modelID* as case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

deployVersion

String The version of the process model. The model version for externally executed and integration processes models is always 1.

Output Parameters

The following table lists the output parameters.

<i>customFields</i>	<p>Document List List of the retrieved user-defined document fields. For each user-defined document field, the following fields are returned:</p> <ul style="list-style-type: none"> ■ <i>FIELDNAME</i> String The field name as defined in the IS document type. ■ <i>FIELDTYPE</i> String Data type of the field, which will be one of String, Number, or Date.
<i>message</i>	<p>String Error that occurred during the execution of this service if this service encountered an error.</p>

pub.monitor.process.model:getModelDetails

Retrieves the detailed information for a specified process model.

Input Parameters

The following table lists the input parameters.

<i>modelID</i>	<p>String Complete model ID of the process model. You can retrieve model IDs by invoking the pub.monitor.process.model:getModelNames service and using the value returned in the <i>modelNames/PROCESSKEY</i> output parameter.</p> <div style="background-color: #f0f0f0; padding: 5px;"> <p>Note: Whether Monitor treats <i>modelID</i> as case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.</p> </div>
<i>deployVersion</i>	<p>String The version of the process model. The model version for externally executed and integration processes models is always 1.</p>

Output Parameters

The following table lists the output parameters.

<i>modelDetails</i>	<p>Document The retrieved detail information for the specified process model. The returned IS document contains the following fields:</p> <ul style="list-style-type: none"> ■ <i>modelName</i> String Name of the process model. ■ <i>deployTime</i> String Date and time the process model was last added to the Process Audit Log: <ul style="list-style-type: none"> ■ For a webMethods-executed process model, this is the last date and time the process model version was built and uploaded for execution. ■ For an externally executed process model, this is the last date and time the process model was uploaded for analysis.
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- For an integration process, this is when the `pub.monitor.integrationProcessLogging:createProcessMetadata` service was used to log information about the process.
- *description* **String** Description of the process model.
- *createdBy* **String** User who created the process model.
- *enabled* **String** Whether the model is enabled or disabled (webMethods-executed process models only).
 - 0 Disabled.
 - 1 Enabled
 - -1 Disabled and process model generation failed.
 - -2 Enabled and process model generation failed.
- *started* **String** Number of process instances in Started status.
- *ended* **String** Number of process instances in Completed status.
- *failed* **String** Number of process instances in Failed status.
- *suspended* **String** Number of process instances in Suspended status.
- *canceled* **String** Number of process instances in Stopped status.
- *resumed* **String** Number of process instances in Resumed status.
- *resubmitted* **String** Number of process instances in Resubmitted status.

message **String** Error that occurred during the execution of this service if this service encountered an error.

pub.monitor.process.model:getModelImage

Retrieves the model image for a specified process model.

Input Parameters

The following table lists the input parameters.

<i>modelID</i>	String Complete model ID of the process model for which you want to obtain the model image. You can retrieve model IDs by invoking the pub.monitor.process.model:getModelNames service and using the value returned in the <i>modelNames/PROCESSKEY</i> output parameter.
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Note:

Whether Monitor treats *modelID* as case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

<i>subNodeID</i>	String Optional. Node ID of a step within the process model that represents an inline process (or subprocess) within the process; that is a set of steps that have been collapsed into a single step. When you specify <i>subnodeID</i> , the service generates the image for the subprocess only, not for the entire process. You can retrieve the node IDs for the sub processes within a process by executing the pub.monitor.process.modelSteps:getModelSteps service and using the value returned in the <i>modelSteps/INLINESTEPID</i> field.
<i>type</i>	String Whether to return the image in JPG or SVG format. <ul style="list-style-type: none"> ■ 1 JPG ■ 2 SVG
<i>deployVersion</i>	String The version of the process model for which you want to generate a model image. The model version for externally executed process models is always 1. There is no image associated with integration processes.

Output Parameters

The following table lists the output parameters.

<i>imageData</i>	Document The model image. The returned <i>imageData</i> document contains these fields: <ul style="list-style-type: none"> ■ <i>imageStream</i> byte[] A byte array that contains the image data. ■ <i>width</i> String Width of the image. ■ <i>height</i> String Height of the image. ■ <i>type</i> String Image type. <ul style="list-style-type: none"> ■ 1 Image is in JPG format. ■ 2 Image is in SVG format.
<i>imageError</i>	String Errors that occurred during the retrieval of the image.

pub.monitor.process.model:getModelList

Retrieves a list of process models for which at least one process instance of the model has run.

Input Parameters

The following table lists the input parameters.

modelID **String** Optional. Complete model ID of a process model. Use the *modelID* parameter if you want to determine whether a specific model has had any running process instances. You can retrieve model IDs by invoking the [pub.monitor.process.model:getModelNames](#) service and using the value returned in the *modelNames/PROCESSKEY* output parameter. If you specify *modelID*, do not use the *modelNameInput* parameter.

Note:

Whether Monitor treats *modelID* as case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

modelNameInput **String** Optional. Partial model name of a model. Use the *modelNameInput* parameter if you want to limit the retrieved models to those that match the partial model name. You can retrieve model names by invoking the [pub.monitor.process.model:getModelNames](#) service and using the value returned in the *modelNames/PROCESSKEYDECODE* output parameter. When you specify *modelNameInput*, do not use the *modelID* parameter.

Note:

Whether Monitor treats *modelNameInput* as case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

enabled **String** Optional. For webMethods-executed process models only, whether you want to retrieve models that are enabled or disabled.

- 0 Disabled
- 1 Enabled
- 2 Default. Either enabled or disabled

sortColumn **String** Optional. How you want the service to sort the list of retrieved process models. This parameter works with the *sortOrder* parameter.

- *started* The value in the Started column, which is the number of process instances that use this process model that are started.
- *completed* The value in the Completed column, which is the number of process instances that are completed.
- *suspended* The value in the Suspended column, which is the number of process instances that are suspended.
- *failed* The value in the Failed column, which is the number of process instances that have failed.
- *canceled* The value in the Canceled column, which is the number of process instances that have been canceled.

- resumed The value in the Resumed column, which is the number of process instances that have been resumed.
- resubmitted The value in the Resubmitted column, which is the number of process instances that have been resubmitted.
- modelName Default. Name of the process model.
- enabled Whether the process models are enabled or disabled.
- deployTime The time the process models were updated in the Process Audit Log database component.
 - For a webMethods-executed process model, this is the last date and time the process model version was built and uploaded for execution.
 - For an externally executed process model, this is the last date and time the process model was uploaded for analysis.
 - For an integration process, this is when the pub.monitor.integrationProcessLogging:createProcessMetadata service was used to log information about the process.

sortOrder

String Optional. Whether to sort in ascending or descending order. This parameter works with the *sortColumn* parameter.

- 0 Default. Sort in ascending order.
- 1 Sort in descending order.

Output Parameters

The following table lists the output parameters.

modelTable

Document List List of the retrieved webMethods-executed process models, externally executed process models, integration processes, and task models. For each model, the following fields are returned:

- *MODELID* **String** Unique model ID of the process model.
- *MODELNAME* **String** Name of the process model.

For the process model, the total number of process instances:

- *STARTED* **String** Number of process instances in Started status.
- *COMPLETED* **String** Number of process instances in Completed status.
- *FAILED* **String** Number of process instances in Failed status.
- *SUSPENDED* **String** Number of process instances in Suspended status.
- *CANCELED* **String** Number of process instances in Canceled status.

- **RESUMED String** Number of process instances in Resumed status.
- **RESUBMITTED String** Total number of process instances in Resubmitted status.
- **DEPLOYDATE String** Time the process model was last updated in the Process Audit Log database component. The time is in string format, YYYY-MM-DD hh:mm:ss.SSS zzz, where:
 - YYYY-MM-DD is the date
 - hh:mm:ss:SSS is the time, including milliseconds
 - zzz is the time zone
- **DEPLOYTIME Number** Time the process model was last updated in the Process Audit Log database component. The time is specified in epoch time, which is the number of seconds since January 1, 1970.
- **ENABLED String** For webMethods-executed process models, whether the process model is enabled or disabled.
 - 0 Disabled
 - 1 Enabled
 - -1 Disabled and generation failed
 - -2 Enabled and generation failed
- **DeployVersion String** The version of the process model. Externally executed process models are always version 1.

wfTable

Document List List of workflow models that were created using webMethods Workflow. If you still have workflow models in your logging database, they are returned in the following fields for each workflow model.

- **MODELID String** Unique model ID of the workflow.
- **MODELNAME String** Name of the workflow.
- **STARTED String** Number of processes in Started status.
- **COMPLETED String** Number of processes in Completed status.
- **FAILED String** Number of processes that are currently in the Failed status and are based on the workflow.
- **SUSPENDED String** Number of processes that are currently in the Suspended status and are based on the workflow.
- **CANCELED String** Number of processes in Canceled status.
- **RESUMED String** Number of processes in Resumed status.

- **RESUBMITTED String** Number of processes in Resubmitted status.
- **DEPLOYDATE String** Time the model was last updated in the Process Audit Log database tables, in string format, YYYY-MM-DD hh:mm:ss.SSS zzz, where:
 - YYYY-MM-DD is the date
 - hh:mm:ss:SSS is the time, including milliseconds
 - zzz is the time zone
- **DEPLOYTIME Number** Time the model was last updated in the Process Audit Log database component. The time is in epoch time, which is the number of seconds since January 1, 1970.

message **String** Error that occurred while executing this service.

Usage Notes

If there are multiple versions of a process model, the service returns all versions.

pub.monitor.process.model:getModelListWithFilter

Retrieves a list of process models that match a specified filter and for which at least one process instance of the model has run.

Use the [pub.monitor.process.model:setProcessFilter](#) service to set the filters that you want to reference in this `getModelListWithFilter` service.

Note:

Whether the search is case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

Input Parameters

The following table lists the input parameters.

criteriaField **String** Optional. Filter that you want to use to limit the list of returned values. Use the following format to create the filter:

field1=value1, value2, ... , valueN

For example, if you have set a filter field named *countryCode* and want to return only those process models for which *countryCode* is *es*, use the following filter, `countryCode=es`

To return process models for which the *countryCode* is *es* or *fr*, use the filter: `countryCode=es, fr`

To use multiple filter fields, specify `and` between the fields/values. For example, to return process models for which the *countryCode* is `es` or `fr` and the *department* is `AP`, use the filter, `countryCode=es, fr and department=AP`

modelID

String Optional. Complete model ID of a process model. Use the *modelID* parameter if you want to determine whether a specific model has had any running process instances. To retrieve model IDs, invoke the [pub.monitor.process.model:getModelNames](#) service and use the value returned in the *modelNames/PROCESSKEY* output parameter. If you specify *modelID*, do not use the *modelNameInput* parameter.

Note:

Whether Monitor treats *modelID* as case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

modelNameInput

String Optional. Partial model name of a model. Use the *modelNameInput* parameter if you want to limit the retrieved models to those that match the partial model name. You can retrieve model names by invoking the [pub.monitor.process.model:getModelNames](#) service and using the value returned in the *modelNames/PROCESSKEYDECODE* output parameter. When you specify *modelNameInput*, do not use the *modelID* parameter.

Note:

Whether Monitor treats *modelNameInput* as case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

enabled

String Optional. For webMethods-executed process models only, whether you want to retrieve models that are enabled or disabled.

- 0 Disabled.
- 1 Enabled.
- 2 Default. Either enabled or disabled.

sortColumn

String Optional. How to sort retrieved process models. This parameter works with the *sortOrder* parameter. Sort by any of the following columns:

- *started* Number of process instances model that are started.
- *completed* Number of process instances that are completed.
- *suspended* Number of process instances that are suspended.
- *failed* Number of process instances that have failed.
- *canceled* Number of process instances that have been canceled.
- *resumed* Number of process instances that have been resumed.

- resubmitted Number of process instances that have been resubmitted.
- modelName Default. The name of the process model.
- enabled Whether the process models are enabled.
- deployTime The time the process models were updated in the Process Audit Log database tables. The value varies by model type:
 - webMethods-executed process model, the last date and time the process model version was built and uploaded for execution.
 - Externally executed process model, the last date and time the process model was uploaded for analysis.
 - Integration process, when the pub.monitor.integrationProcessLogging:createProcessMetadata service was used to log information about the process.

sortOrder **String** Optional. Whether to sort in ascending or descending order. This parameter works with the *sortColumn* parameter.

- 0 Default. Sort in ascending order.
- 1 Sort in descending order.

Output Parameters

The following table lists the output parameters.

modelTable **Document List** List of the retrieved webMethods-executed process models, externally executed process models, integration processes, and task models. For each model, the following fields are returned:

- *MODELID* **String** Unique model ID of the process model.
- *MODELNAME* **String** Name of the process model.
- *STARTED* **String** Number of process instances in Started status.
- *COMPLETED* **String** Number of process instances in Completed status.
- *FAILED* **String** Number of process instances in Failed status.
- *SUSPENDED* **String** Number of process instances in Suspended status.
- *CANCELED* **String** Number of process instances in Canceled status.
- *RESUMED* **String** Number of process instances in Resumed status.
- *RESUBMITTED* **String** Number of process instances in Resubmitted status.

- **DEPLOYDATE String** Time the process model was last updated in the Process Audit Log database tables. The time is specified in string format, YYYY-MM-DD hh:mm:ss.SSS zzz, where:
 - YYYY-MM-DD is the date
 - hh:mm:ss.SSS is the time, including milliseconds
 - zzz is the time zone
- **DEPLOYTIME Number** Time the process model was last updated in the Process Audit Log tables. The time is in epoch time, which is the number of seconds since January 1, 1970.

ENABLED String For webMethods-executed process models, whether the process model is enabled or disabled.

- 0 Disabled.
- 1 Enabled.
- -1 Disabled and generation failed.
- -2 Enabled and generation failed.

wfTable

Document List List of workflow models that were created using webMethods Workflow. If you still have workflow models in your logging database, they are returned in the following fields for each workflow model:

- **MODELID String** Unique model ID of the workflow.
- **STARTED String** Number of processes in Started status.
- **COMPLETED String** Number of processes in Completed status.
- **FAILED String** Number of processes in Failed status.
- **SUSPENDED String** Number of processes in Suspended status.
- **CANCELED String** Number of processes in Canceled status.
- **RESUMED String** Number of processes in Resumed status.
- **RESUBMITTED String** Number of processes in Resubmitted status.
- **DEPLOYDATE String** Time the model was last updated in the Process Audit Log database tables, in string format, YYYY-MM-DD hh:mm:ss.SSS zzz, where:
 - YYYY-MM-DD is the date
 - hh:mm:ss.SSS is the time, including milliseconds
 - zzz is the time zone

- **DEPLOYTIME Number** Time the model was last updated in the Process Audit Log database component. The time is in epoch time, which is the number of seconds since January 1, 1970.

message

String Error that occurred during the execution of this service if this service encountered an error.

Usage Notes

The following services are related to the *criteriaFilter* input field:

- To assign a filter field that you can reference in *criteriaFilter*, use the [pub.monitor.process.model:setProcessFilter](#) service.
- To retrieve a list of filter fields that are already set, use the [pub.monitor.process.model:getProcessFilter](#) service.
- To clear a filter field, use the [pub.monitor.process.model:clearProcessFilter](#) service.

pub.monitor.process.model:getModelNames

Retrieves the names and IDs of all process models for which information is stored in the logging database.

Input Parameters

None.

Output Parameters

The following table lists the output parameters.

modelName

Document List List of the retrieved model names and IDs. The following fields are returned for each process model.

- **PROCESSKEYDECODE String** The name of the process model.
- **PROCESSLABEL String** The name of the process model.
- **PROCESSKEY String** The model ID for the process.
- **PROCESSPATH String** The directory path to the folder where the process file is stored.

message

String Error that occurred during the execution of this service if this service encountered an error.

Usage Notes

If there are multiple versions of a process model, the service returns all versions.

pub.monitor.process.model:getModelNamesWithFilter

Retrieves names and IDs of process models that match a specified filter and for which information is stored in the logging database.

Use the [pub.monitor.process.model:setProcessFilter](#) service to set the filters that you want to reference in this `getModelNamesWithFilter` service.

Note:

Whether the search is case-sensitive or case-insensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

Input Parameters

The following table lists the input parameters.

<i>criteriaField</i>	String Optional. Filter to limit the list of returned values. Use the following format: <i>field1=value1, value2, ... , valueN</i> For example, if you have set a filter field <i>countryCode</i> and want to return only the names and IDs of process models for which <i>countryCode</i> is <i>es</i> , use the filter, <code>countryCode=es</code> To return the names and IDs of process models for which the <i>countryCode</i> is <i>es</i> or <i>fr</i> , use the filter, <code>countryCode=es, fr</code> To use multiple filter fields, specify and between the fields/values. For example, to return names and IDs of process models for which the <i>countryCode</i> is <i>es</i> or <i>fr</i> and the <i>department</i> is <i>AP</i> , use the following filter, <code>countryCode=es, fr and department=AP</code>
----------------------	--

Output Parameters

The following table lists the output parameters.

<i>modelNames</i>	Document List List of the retrieved model names and IDs. The following fields are returned for each process model. <ul style="list-style-type: none">■ <i>PROCESSKEYDECODE</i> String The name of the process model.■ <i>PROCESSLABEL</i> String The name of the process model.■ <i>PROCESSKEY</i> String The model ID for the process.
-------------------	---

- **PROCESSPATH String** The directory path to the folder where the process file in is stored.

message

String Error that occurred during the execution of this service if this service encountered an error.

Usage Notes

The following are services are related to the *criteriaFilter* input field:

- To assign a filter field that you can reference in *criteriaFilter*, use the [pub.monitor.process.model:setProcessFilter](#) service.
- To retrieve a list of filter fields that are already set, use the [pub.monitor.process.model:getProcessFilter](#) service.
- To clear a filter field, use the [pub.monitor.process.model:clearProcessFilter](#) service.

[pub.monitor.process.model:getProcessFilter](#)

Retrieves the list of all filter fields and values that are assigned to all process models.

Input Parameters

None.

Output Parameters

The following table lists the output parameters.

processFilter

Document List List of the retrieved filter fields and values. The following fields are returned for each field.

- *processKey* **String** The internal ID (that is, process key) of a process model.
- *fieldName* **String** The name of the field assigned to the process model.
- *stringValue* **String** The value of the field.

Usage Notes

- The output from this service is sorted so that all the fields assigned to a process model are grouped together. Additionally, within the output for a process model, all the settings for the same field name are grouped together.
- To assign a filter field to a process model, use the [pub.monitor.process.model:setProcessFilter](#) service.
- To clear a filter field, use the [pub.monitor.process.model:clearProcessFilter](#) service.

pub.monitor.process.model:getUnusedModels

Retrieves process models that are available for execution, but for which no logging data exists in the Process Audit Log database component.

This includes process models for which no process instance has ever been executed and process models for which instances have run, but the logged data for the executed instances has been archived or deleted from the logging database.

Input Parameters

The following table lists the input parameters.

<i>modelID</i>	<p>String Optional. Complete model ID of a process model. Use the <i>modelID</i> parameter to determine whether a specific model has no logged data for process instances. To retrieve model IDs, invoke the pub.monitor.process.model:getModelNames service and use the value returned in the <i>modelNames/PROCESSKEY</i> output parameter. If you specify <i>modelID</i>, do not use the <i>modelNameInput</i> parameter.</p> <p>Note: Whether Monitor treats <i>modelID</i> as case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.</p>
<i>modelNameInput</i>	<p>String Optional. Partial model name of a process model. Use the <i>modelNameInput</i> parameter if you want to limit the retrieved process models to those that match the partial model name. To retrieve model names, invoke the pub.monitor.process.model:getModelNames service and use the value returned in the <i>modelNames/PROCESSKEYDECODE</i> output parameter. When you specify <i>modelNameInput</i>, do not use the <i>modelID</i> parameter.</p> <p>Note: Whether Monitor treats <i>modelNameInput</i> as case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.</p>
<i>enabled</i>	<p>String For webMethods-executed process models only, whether you want to retrieve models that are enabled or disabled.</p> <ul style="list-style-type: none"> ■ 0 Disabled ■ 1 Enabled ■ 2 Default. Either enabled or disabled
<i>sortBy</i>	<p>String Optional. How to sort the retrieved list of process models. This parameter works with the <i>sortOrder</i> parameter.</p> <ul style="list-style-type: none"> ■ PROCESSLABEL Default. Sorts by the name of the process model.

- ENABLED Sorts by whether the process models is enabled.
- DESCRIPTION Sorts by the description of the process model.
- CREATEDBY Sorts by the user that created the process model.
- DEPLOYMENTTIMESTAMP Sorts by the time the process model were updated in the Process Audit Log database. This time varies by the process model type:
 - webMethods-executed, the last date and time the process model version was built and uploaded for execution.
 - Externally executed, the last date and time the process model was uploaded for analysis.
 - Integration, when pub.monitor.integrationProcessLogging: createProcessMetadata service was used to log information about the process.

sortOrder

String Optional. Whether to sort in ascending or descending order. This parameter works with the *sortBy* parameter.

- 0 Default. Sort in ascending order.
- 1 Sort in descending order.

Output Parameters

The following table lists the output parameters.

unusedModels

Document List List of the retrieved webMethods-executed process models, externally executed process models, integration processes, and task models. For each model, the following fields are returned:

- *PROCESSKEYDECODE* **String** The name of the process model.
- *PROCESSLABEL* **String** The name of the process model.
- *PROCESSKEY* **String** The model ID for the process model.
- *PROCESSPATH* **String** The directory path to the folder where the process file is stored.
- *DESCRIPTION* **String** Description of the process model.
- *CREATEDBY* **String** User who created the process model.
- *DEPLOYMENTTIME* **Number** Time the process model was last updated in the Process Audit Log database. The time is in epoch time, which is the number of seconds since January 1, 1970.

- **ENABLED String** For webMethods-executed process models, whether the process model is enabled or disabled.
 - 0 Disabled process models.
 - 1 Enabled
 - -1 Disabled and generation failed.
 - -2 Enabled and generation failed.
- **TYPE String** A number that represents the type of model. This will always be 1 for models created using Designer.
- **DEPLOYMENTTIMESTAMP String** Time the process model was last updated in the Process Audit Log database. The time is in string format, YYYY-MM-DD hh:mm:ss.SSS zzz, where:
 - YYYY-MM-DD is the date
 - hh:mm:ss:SSS is the time, including milliseconds
 - zzz is the time zone

unusedWorkflows

Document List List of workflow models that were created using webMethods Workflow. If you still have workflows in your logging database, they are returned in the following fields for each workflow model.

- **PROCESSKEYDECODE String** The name of the workflow.
- **PROCESSLABEL String** The name of the workflow.
- **PROCESSKEY String** The ID for the workflow.
- **PROCESSPATH String** This is null.
- **DESCRIPTION String** Description of the workflow.
- **CREATEDBY String** User who created the workflow.
- **DEPLOYMENTTIME Number** Deployment time, in epoch time; that is, the number of seconds since January 1, 1970.
- **ENABLED String** Always returns 0 for workflows.
- **TYPE String** A number that represents the type of model. This will always be 2 for the models created using Workflow.
- **DEPLOYMENTTIMESTAMP String** Deployment time in string format, YYYY-MM-DD hh:mm:ss.SSS zzz, where:
 - YYYY-MM-DD is the date
 - hh:mm:ss:SSS is the time, including milliseconds

- `zzz` is the time zone

message **String** Error that occurred during the execution of this service if this service encountered an error.

Usage Notes

If there are multiple unused versions of a process model, the service returns all versions.

pub.monitor.process.model:setProcessFilter

Assigns a filter field and its value to a process model. You can then use the filter field and value in a filter that limits the items returned when you execute services to retrieve a list of process models, list of process model names and IDs, or a list of process instances.

You can specify filters with the following services:

- [pub.monitor.process.model:getModelListWithFilter](#) to limit the list of process models that are returned to those that match the filter you specify.
- [pub.monitor.process.model:getModelNamesWithFilter](#) to limit the list of process model names and IDs that are returned to those that match the filter you specify.
- [pub.monitor.process.instance:getInstanceListWithFilter](#) to limit the list of process instances that are returned to those that match filters you specify.

Input Parameters

The following table lists the input parameters.

<i>processKey</i>	String The internal identifier (that is, process key) of the process model to which you want to assign the filter field and value.
<i>fieldName</i>	String The name of the filter field you want to assign to the process model. For example, you might specify <code>countryCode</code> so that you can associate a country code with a process model.
<i>stringValue</i>	String The value to set for the filter field. For example, if you specify <code>countryCode</code> for <i>fieldName</i> , you might specify <code>es</code> for <i>stringValue</i> .

Output Parameters

The following table lists the output parameters.

<i>result</i>	String The outcome of the service. If the service completes successfully, the value of <i>result</i> will be <code>success</code> . Otherwise, <i>result</i> will contain the failure message.
---------------	---

Usage Notes

- To retrieve a list of filter fields that are already set, use the [pub.monitor.process.model:getProcessFilter](#) service.
- To clear a filter field, use the [pub.monitor.process.model:clearProcessFilter](#) service.

10 pub.monitor.process.modelControl Folder

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Summary of Elements in This Folder

The following table lists and describes the services.

Service and Description

[pub.monitor.process.modelControl:changeModelEnabled](#)

Enables or disables the specified webMethods-executed process model.

[pub.monitor.process.modelControl:deleteUnusedModel](#)

Deletes information about a specified process model from the logging database and, as a result, also the Monitor user interface.

[pub.monitor.process.modelControl:getProcessLogical Servers](#)

Retrieves the names of the logical servers for a specified process model.

[pub.monitor.process.modelControl:isModelEnabled](#)

Returns a list of process models and whether they are currently enabled or disabled.

[pub.monitor.process.modelControl:refreshModelNames](#)

Clears the process model labels stored in the cache.

pub.monitor.process.modelControl:changeModelEnabled

Enables or disables the specified webMethods-executed process model.

Input Parameters

The following table lists the input parameters.

enableModelID **String** Complete model ID of a process model. You can retrieve model IDs by invoking the [pub.monitor.process.model:getModelNames](#) service and using the value returned in the *modelNames/PROCESSKEY* output parameter.

Note:

Whether Monitor treats *enable ModelID* as case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

enabledStatus **String** Optional. Whether the process model is currently enabled or disabled. You can determine whether it is enabled or disabled by using the [pub.monitor.process.modelControl:isModelEnabled](#) service.

- 0 Default. Disabled model.

- 1 Enabled model.

Output Parameters

The following table lists the output parameters.

message **String** Success or error message, as appropriate.

Usage Notes

- If you disable a process model that is invoked by another process model, when a process instance based on the parent model is executed, it will fail at the step that attempts to start a process instance for the disabled process model.
- If there are multiple versions of a process model, this service acts on the latest version.

pub.monitor.process.modelControl:deleteUnusedModel

Deletes information about a specified process model from the logging database and, as a result, also the Monitor user interface.

Input Parameters

The following table lists the input parameters.

modelToDelete **String** Complete model ID of the process model you want to delete. You can retrieve model IDs by invoking the [pub.monitor.process.model:getModelNames](#) service and using the value returned in the *modelNames/PROCESSKEY* output parameter.

Note:

Whether Monitor treats *modelToDelete* as case-sensitive or case-insensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

modelVersion **String** The version of the process model that you want to delete. The model version for externally executed process models is always 1.

Output Parameters

The following table lists the output parameters.

message **String** Confirmation or error message, as appropriate.

See Also

[pub.monitor.process.modelControl:changeModelEnabled](#)

[pub.monitor.process.modelControl:isModelEnabled](#)

Usage Notes

- You can delete information for process models that are disabled and unused.
- If there are multiple versions of a process model, this service acts on the latest version.

pub.monitor.process.modelControl:getProcessLogical Servers

Retrieves the names of the logical servers for a specified process model.

Input Parameters

The following table lists the input parameters.

<i>modelID</i>	String Complete model ID of the process model whose logical server names you want to retrieve. You can retrieve model IDs by invoking the pub.monitor.process.model:getModelNames service and using the value returned in the <i>modelName/PROCESSKEY</i> output parameter.
----------------	--

Note:

Whether Monitor treats *modelID* as case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

Output Parameters

The following table lists the output parameters.

<i>logicalServers</i>	Document List List of the retrieved logical server names. For each logical server name, the following fields are returned: <i>SERVER</i> String Name of the logical server.
<i>message</i>	String Error that occurred during the execution of this service if this service encountered an error.

Usage Notes

If there are multiple versions of a process model, this service retrieves the logical server names for the latest version.

pub.monitor.process.modelControl:isModelEnabled

Returns a list of process models and whether they are currently enabled or disabled.

Input Parameters

None.

Output Parameters

The following table lists the output parameters.

<i>modelStatuses</i>	<p>Document List List of the retrieved process models and their enabled/disabled status. For each process model, the following fields are returned:</p> <ul style="list-style-type: none"> ■ <i>PROCESSLABEL</i> String Name of the process model. ■ <i>MODELID</i> String Model ID of the process model. ■ <i>ENABLED</i> String For webMethods-executed process models, whether the model is enabled or disabled. The following list indicates the value the service returns for each model status: <ul style="list-style-type: none"> ■ 0 Disabled models. ■ 1 Enabled models ■ -1 Disabled and generation failed models. ■ -2 Enabled and generation failed models.
<i>message</i>	<p>String Error that occurred during the execution of this service if this service encountered an error.</p>
<i>modelVersion</i>	<p>String The version of the process model.</p>

Usage Notes

If there are multiple versions of a process model, this service retrieves only returns information for the latest version.

pub.monitor.process.modelControl:refreshModelNames

Clears the process model labels stored in the cache.

After the process model labels are cleared from the cache, if a process model label is required, the process model label is fetched from the database and then stored in the cache.

Input Parameters

None.

Output Parameters

None.

11 pub.monitor.process.modelSteps Folder

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■ pub.monitor.process.modelSteps:getModelTransitions	151
■ pub.monitor.process.modelSteps:getStepIDNames	152

Summary of Elements in This Folder

The following table lists and describes the services.

Service and Description
pub.monitor.process.modelSteps:getModelSteps Retrieves information for each step in a specified webMethods-executed or externally executed process model.
pub.monitor.process.modelSteps:getModelTransitions Retrieves the step transitions for a specified webMethods-executed process model.
pub.monitor.process.modelSteps:getStepIDNames Retrieves step ID, step label, and step type for each step in a specified process model.

pub.monitor.process.modelSteps:getModelSteps

Retrieves information for each step in a specified webMethods-executed or externally executed process model.

Input Parameters

The following table lists the input parameters.

<i>modelID</i>	String Complete model ID of the process model that contains the step information you want to obtain. You can retrieve available model IDs by running the pub.monitor.process.model:getModelNames service. Use the value returned in the <i>modelNames()/PROCESSKEY</i> output parameter. For example: MyProcessProject/MyProcess.
----------------	--

Note:

Whether Monitor treats *modelID* as case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

<i>deployVersion</i>	String The version of the process model. The model version for externally executed and integration processes is always 1. There is no image associated with integration processes.
----------------------	---

Output Parameters

The following table lists the output parameters.

modelSteps

Document List List of the steps in the specified process. The following fields are returned for each step:

- **PROCESSKEY String** Model ID of the process model for which the visual elements were retrieved. For example: *projectName/processName*
- **STEPID String** Step ID of the step.
- **STEPLABEL String** Step label of the step.
- **DESCRIPTION String** Description for the step.
- **TYPE String** The keyword that describes the type of step. Valid values are:
 - **Abstract Task** A BPMN abstract task activity.
 - **webMethods Subprocess** A webMethods subprocess.
 - **Referenced Process** A webMethods referenced process step (deprecated).
 - **Boundary Timer Event** A BPMN boundary timer event.
 - **BPMN Subprocess** A BPMN subprocess.
 - **Call Activity** A BPMN call activity.
 - **Service Task** A BPMN service task activity.
 - **User Task** A BPMN user task activity.
 - **Manual Task** A BPMN manual task activity.
 - **Rule Task** A BPMN rule task activity.
 - **Send Task** A BPMN send task activity.
 - **Receive Task** A BPMN receive task activity.
 - **Gateway** A BPMN gateway.
 - **Start Event** A BPMN start event.
 - **Intermediate Event** A BPMN intermediate event.
 - **End Event** A BPMN end event.
- **STEPINTTYPE String** Numerical representation of the type of visual element. The service returns one of the following numerical values as described below:
 - 1 Abstract task
 - 2 webMethods subprocess
 - 3 Referenced process (webMethods referenced process, deprecated)

- 12 Boundary timer event
- 13 BPMN subprocess
- 14 Call activity
- 30 Service task
- 31 User task
- 32 Manual task
- 33 Rule task
- 34 Send task
- 35 Receive task
- 40 Gateway
- 50 Start event
- 80 Intermediate event
- 110 End event
- **ICON String** URL to the image file that is used for the icon of the step. This will either be a URL to the file provided with Designer or if the model uses a non-standard image, the URL provided for that image when the model was created. Null for an abstract task.
- **ICONBYTE String** Byte array that contains the icon of the step.
- **ICON_X String** X coordinate of the top, left corner for where the icon is placed within the model image.
- **ICON_Y String** Y coordinate for of the top, left corner for where the icon is placed within the model image.
- **ICON_WIDTH String** Width of the icon used for the step.
- **ICON_HEIGHT String** Height of the icon used for the step.
- **SUBPROCESSKEY String** If the visual element represents a referenced process, *SUBPROCESSKEY* contains the model ID for the referenced process model. Otherwise, *SUBPROCESSKEY* will be null.
- **INLINESTEPID String** If visual element represents an inline subprocess, *INLINESTEPID* contains the model ID for the parent process model in which the subprocess resides. Otherwise, *INLINESTEPID* will be null.
- **REFSTEPID String** An internal identifier that the Integration Server uses.
- **SERVER String** Logical server name of the server that is to execute the step.

- **IS_START String** Whether the step is a start step. The service returns the following values for steps:
 - 1 A start step
 - 0 Not a start step
- **IS_STOP String** Whether the step is a stop step. The service returns the following values:
 - 1 A stop step
 - 0 Not a stop step

message

String Error that occurred during the execution of this service if this service encountered an error.

pub.monitor.process.modelSteps:getModelTransitions

Retrieves the step transitions for a specified webMethods-executed process model.

Input Parameters

The following table lists the input parameters.

modelID

String Complete model ID of the process model whose transitions you want to retrieve. You can retrieve model IDs by invoking the [pub.monitor.process.model:getModelNames](#) service and using the value returned in the *modelNames/PROCESSKEY* output parameter.

Note:

Whether Monitor treats *modelID* as case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

deployVersion

String The version of the process model. The model version for externally executed and integration processes is always 1. There is no image associated with integration processes.

Output Parameters

The following table lists the output parameters.

modelTransitions

Document List List of the retrieved step transitions. For each step transition, the following fields are returned:

- **PROCESSKEY String** Model ID of the process model that contains the step transition.

- **SOURCESTEPID String** Step ID of the source step for this transition.
- **TARGETSTEPID String** Step ID of the target step for this transition.
- **SOURCEX String** X coordinate of the start of the line.
- **SOURCEY String** Y coordinate of the start of the line.
- **TARGETX String** X coordinate of the end of the line.
- **TARGETY String** Y coordinate of the end of the line.
- **VISUALTYPE String** Whether the line in the process model that represents the transition is straight or curved. The service codes that the service returns indicate the line shape:
 - 0 straight
 - 1 curved
- **TYPE String** Whether the transition is an internal (i.e., between steps in an internal pool or no pool) or external transition (i.e., between steps from an internal pool to an external pool). The service codes that the service returns indicate the line shape:
 - 0 internal transition
 - 1 external transition
- **LABEL String** Label of the transition, if any.
- **CONDITION String** Transition condition, if any.
- **LEVELCHANGE String** An internal value that Integration Server uses.

message

String Error that occurred during the execution of this service if this service encountered an error.

pub.monitor.process.modelSteps:getStepIDNames

Retrieves step ID, step label, and step type for each step in a specified process model.

Input Parameters

The following table lists the input parameters.

modelID

String Complete model ID of the process model that contains the step information you want to obtain. You can retrieve available model IDs by running the [pub.monitor.process.model:getModelNames](#) service. Use the value returned in the *modelNames()/PROCESSKEY* output parameter. For example: MyProcessProject/MyProcess.

Note:

Whether Monitor treats *modelID* as case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

deployVersion **String** The version of the process model. The model version for externally executed and integration processes is always 1.

Output Parameters

The following table lists the output parameters.

<i>stepNames</i>	<p>Document List List of the retrieved step names and step IDs. For each step, the following fields are returned:</p> <ul style="list-style-type: none"> ■ <i>STEPID</i> Step ID of the step. ■ <i>STEPLABEL</i> Step label for the step. ■ <i>STEPINTTYPE</i> String Numerical representation of the type of step. The service returns one of the following values: <ul style="list-style-type: none"> ■ 1 Abstract task ■ 2 webMethods subprocess ■ 3 Referenced process (legacy webMethods referenced process, deprecated) ■ 12 Boundary timer event ■ 13 BPMN subprocess) ■ 14 Call activity ■ 30 Service task ■ 31 User task ■ 32 Manual task ■ 33 Rule task ■ 34 Send task ■ 35 Receive task ■ 40 Gateway ■ 50 Start event ■ 80 Intermediate event
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■ 110 End event

message

String Error that occurred during the execution of this service if this service encountered an error.

12 pub.monitor.service Folder

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Summary of Elements in This Folder

The following table lists and describes the services.

Service and Description

[pub.monitor.service:exists](#)

Checks whether a specified service has logged data to the logging database.

[pub.monitor.service:getActions](#)

Retrieves all resubmit actions associated with a specified service.

[pub.monitor.service:getActivityLogs](#)

Retrieves all user-defined messages that were logged for a specified service or all services that are descendants of the specified service.

[pub.monitor.service:getChildDetails](#)

Retrieves detailed information for all services that have the same parent service.

[pub.monitor.service:getCustomData](#)

Retrieves user-defined logged field values of a service and returns them as name/value pairs.

[pub.monitor.service:getDetails](#)

Retrieves information about the most recently logged status for a specified service.

[pub.monitor.service:getErrors](#)

Retrieves all errors that were logged for a specified service.

[pub.monitor.service:getHistory](#)

Retrieves the status history for a specified service.

[pub.monitor.service:getList](#)

Retrieves a list of services whose most recent log entry (that is, current state) matches specified criteria.

[pub.monitor.service:getListCustomData](#)

Retrieves a list of services that meet the specified criteria, including specifying the value of a single logged field, which instructs the service to return all instances where the value you specify was logged for a specified custom logged field.

[pub.monitor.service:getListCustomDataSet](#)

Service and Description

Retrieves a list of services that meet the specified criteria, including specifying the value of multiple logged fields, which instructs the service to return all services where the value you specify was logged for multiple specified custom logged field.

[pub.monitor.service:getPipeline](#)

Retrieves the input pipeline for a specified service.

[pub.monitor.service:isResubmittable](#)

Checks whether a specified service is resubmittable.

pub.monitor.service:exists

Checks whether a specified service has logged data to the logging database.

Input Parameters

The following table lists the input parameters.

<i>contextID</i>	String Context ID for the service for which to check the database. Specify the complete, exact ID.
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Note:

Whether Monitor treats *contextID* as case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

Output Parameters

The following table lists the output parameters.

<i>exists</i>	String Whether logging data for the service exists in logging database. <ul style="list-style-type: none"> ■ true Logging data for the service exists in the database. ■ false Logging data for the service does not exist in the database.
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pub.monitor.service:getActions

Retrieves all resubmit actions associated with a specified service.

Input Parameters

The following table lists the input parameters.

contextID **String** Context ID for the service whose control actions you want to get. Specify the complete, exact ID.

Note:

Whether Monitor treats *contextID* as case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

Output Parameters

The following table lists the output parameters.

actions **Document List** List of the retrieved resubmit actions. For each resubmit action, the following fields are returned:

- *ROOTCONTEXTID* **String** Context ID of the service's root service. If the service is a top-level service, the root context ID is the same as the context ID.
- *PARENTCONTEXTID* **String** Context ID of the service's parent service if the service was nested or resubmitted.
- *CONTEXTID* **String** Context ID for the service.
- *ACTION* **String** Code for the resubmit action that was performed on the service; that is, the service returns the number, 1, for this parameter.
- *ACTIONDECODE* **String** The keyword for the resubmit action; that is, in English, the service returns "Service Resubmit" for this parameter.
- *USERNAME* **String** Integration Server user that performed the resubmit action.
- *SERVERID* **String** Host name and port for the Integration Server on which the service was resubmitted.
- *AUDITTIMESTAMP* **Number** Time the action was logged, in epoch time; that is, the number of seconds since January 1, 1970.
- *AUDITTIMESTRING* **String** Time the action was logged in string format, YYYY-MM-DD hh:mm:ss.SSS zzz, where:
 - YYYY-MM-DD is the date
 - hh:mm:ss.SSS is the time, including milliseconds
 - zzz is the time zone

pub.monitor.service:getActivityLogs

Retrieves all user-defined messages that were logged for a specified service or all services that are descendants of the specified service.

Input Parameters

The following table lists the input parameters.

<i>contextID</i>	String Context ID for the service whose user-defined messages you want to retrieve. Specify the complete, exact ID.
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Note:

Whether Monitor treats *contextID* as case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

Output Parameters

The following table lists the output parameters.

<i>activityLogs</i>	<p>Document List List of the retrieved messages. For each user-defined message, the following fields are returned:</p> <ul style="list-style-type: none"> ■ ROOTCONTEXTID String Context ID of the service's root service. If the service is a top-level service, the root context ID is the same as the context ID. ■ PARENTCONTEXTID String Context ID of the service's parent service if the service was nested or resubmitted. ■ CONTEXTID String Context ID for the service. ■ ENTRYTYPE String The type of user-defined message, that is error, warning, or message. ■ BRIEFMESSAGE String A brief version of the text of the message that contains only up to 240 characters. ■ FULLMESSAGE String The text of the user-defined message. It will contain up to 1024 characters. ■ B2BUSER String Integration Server user name of the client that invoked the service. ■ SERVERID String DNS name and port of the Integration Server that ran the service (for example, titanium.east.webmethods.com:5555).
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- **AUDITTIMESTAMP Number** Time the message was logged, in epoch time; that is, the number of seconds since January 1, 1970.
- **AUDITTIMESTRING String** Time the message was logged in string format, YYYY-MM-DD hh:mm:ss.SSS zzz, where:
 - YYYY-MM-DD is the date
 - hh:mm:ss:SSS is the time, including milliseconds
 - zzz is the time zone

pub.monitor.service:getChildDetails

Retrieves detailed information for all services that have the same parent service.

Input Parameters

The following table lists the input parameters.

contextID **String** Context ID for the parent service. Specify the complete, exact ID.

Note:

Whether Monitor treats *contextID* as case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

Output Parameters

The following table lists the output parameters.

details **Document List** List of the retrieved services that have the specified parent service. For each service, the following fields are returned:

- **ROOTCONTEXTID String** Context ID of the parent service's root service. If the parent service is a top-level service, the root context ID is the same as the context ID.
- **PARENTCONTEXTID String** Context ID of the specified parent service.
- **CONTEXTID String** Context ID for the child service; the information in *details* is for this service.
- **STATUS String** Status of the service. The service returns the numerical value that represents the status. For a description of the status values, see [“Status Reference” on page 185](#).

- **STATUSDECODE String** Status value of the service. The service returns the keyword value that represents the status. For the list of keyword values, for example, “Started” or “Completed,” see “[Status Reference](#)” on page 185.
- **SERVICENAME String** Fully qualified name of the child service; the information in *details* is for this service.
- **USERID String** Integration Server user name of the client that invoked the service.
- **RESUBMITTABLE String** Whether the service exists in the logging database and is resubmittable.
 - `true` Service exists and is resubmittable.
 - `false` Service does not exist and is not resubmittable.
- **ERRORMESSAGE String** If the service's status is 4 (Failed), the error message for the service.
- **SERVERID String** DNS name and port of the Integration Server that ran the service (for example, `titan.east.webmethod.com:5555`).
- **DURATION String** If the service's status is 2 (Completed) or 4 (Failed), length of time the service ran (in milliseconds).
- **AUDITTIMESTAMP Number** Time the service's status was logged, in epoch time; that is, the number of seconds since January 1, 1970.
- **AUDITTIMESTRING String** Time the service's status was logged in string format, `YYYY-MM-DD hh:mm:ss.SSS zzz`, where:
 - `YYYY-MM-DD` is the date
 - `hh:mm:ss.SSS` is the time, including milliseconds
 - `zzz` is the time zone

pub.monitor.service:getCustomData

Retrieves user-defined logged field values of a service and returns them as name/value pairs.

Input Parameters

The following table lists the input parameters.

<i>contextID</i>	String Context ID for the service whose user-defined logged fields you want to retrieve. Specify the complete, exact ID.
<i>fieldName</i>	String Optional. Complete name of the logged field whose value you want to retrieve.

- sortBy* **String** Optional. Value to use to sort the returned list of logged field values. This parameter works with the *sortOrder* parameter.
- **SERVERID** DNS name and port for the Integration Server that ran the service.
 - **MSGID** ID of user-defined messages that contain the logged fields.
 - **FIELDNAME** Name of the field for which a value was logged.
 - **STRINGVALUE** Values of string type document fields.
 - **NUMBERVALUE** Values of Number type document fields.
 - **DATEVALUE** Values of Date type document fields.
- sortOrder* **String** Optional. Whether to sort the returned list of logged field values in ascending or descending order. The documents are sorted by the field identified by the *sortBy* parameter.
- 0 Default. Sort in ascending order.
 - 1 Sort in descending order.

Output Parameters

The following table lists the output parameters.

- customData* **Document List** The list of returned logged field values. For each logged field value, the following fields are returned:
- **CONTEXTID String** Context ID for the service.
 - **SERVERID String** ID of server where service that logged the fields ran.
 - **MSGID String** ID of user-defined messages that contain the logged fields.
 - **FIELDNAME String** Name of the field for which a value was logged.
 - **STRINGVALUE String** The value of the field if the logged field value is a string.
 - **NUMBERVALUE String** The value of the field if the logged field value is a number; otherwise the service returns 0.0 in this field.
 - **DATEVALUE String** The value of the field if the logged field value is date.
- message* **String** Optional. Error that occurred during the execution of this service if this service encountered an error.

pub.monitor.service:getDetails

Retrieves information about the most recently logged status for a specified service.

Input Parameters

The following table lists the input parameters.

<i>contextID</i>	String Context ID for the service for which to get information. Specify the complete, exact ID.
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Note:

Whether Monitor treats *contextID* as case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

Output Parameters

The following table lists the output parameters.

<i>details</i>	<p>Document The retrieved information for the specified service. The following fields are returned for the service.</p> <ul style="list-style-type: none"> ■ ROOTCONTEXTID String Context ID of the service's root service. If the service is a top-level service, the root context ID is the same as the context ID. ■ PARENTCONTEXTID String Context ID of the service's parent service, if the service was nested or resubmitted. ■ CONTEXTID String Context ID for the service. ■ CUSTOMCONTEXTID String The full, user-defined ID of the retrieved service that was assigned by executing the <code>pub.flow:setCustomContextID</code> service. ■ AUDITEDPARENTID String Complete ID of the parent service for which you have logged user-defined fields. ■ STATUS String Status of the service. The <code>getDetails</code> service returns the numerical value that represents the status. For a description of the numerical values, see “Status Reference” on page 185. ■ STATUSDECODE String Status value of the service. The <code>getDetails</code> service returns the keyword value that represents the status. For the list of keyword values, for example, "Started" or "Completed", see “Status Reference” on page 185. ■ SERVICENAME String Name of the service.
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- **USERID String** Integration Server user name of the client that invoked the service.
- **RESUBMITTABLE String** Whether the service exists in the logging database and is resubmittable.
 - `true` Service exists and is resubmittable.
 - `false` Service does not exist and is not resubmittable.
- **ERRORMESSAGE String** If the service's status is 4 (Failed), the error message for the service.
- **SERVERID String** DNS name and port of the Integration Server that ran the service (for example, `titan.east.webmethod.com:5555`).
- **DURATION String** If the service's status is 2 (Completed) or 4 (Failed), length of time the service ran (in milliseconds)

Usage Notes

If there are multiple log entries with the same timestamp and the timestamp is the most recent timestamp, the service returns all the entries.

pub.monitor.service:getErrors

Retrieves all errors that were logged for a specified service.

Input Parameters

The following table lists the input parameters.

<i>contextID</i>	String Context ID for the service whose errors you want to retrieve. Specify the complete, exact ID.
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Note:

Whether Monitor treats *contextID* as case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

Output Parameters

The following table lists the output parameters.

<i>errors</i>	Document List The retrieved errors for the specified service. For each error, the following fields are returned:
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- **ROOTCONTEXTID String** Context ID for the root service of the service that logged the error message. If the service that logged the error message is a top-level service, the root context ID is the same as the context ID.
- **PARENTCONTEXTID String** If the service was nested or resubmitted, context ID for the parent service of the service that logged the error message.
- **CONTEXTID String** Context ID for the service that logged the error message.
- **ERRORMSG String** The text of the error message.
- **ERRSTACKTRACE String** Stack trace data associated with the error.
- **SERVICENAME String** Name of the service that logged the error message.
- **SERVERID String** DNS name and port of the Integration Server that ran the service (for example, titan.east.webmethod.com:5555).
- **AUDITTIMESTAMP Number** Time the error was logged, in epoch time; that is, the number of seconds since January 1, 1970.
- **AUDITTIMESTRING String** Time the error was logged in string format, YYYY-MM-DDhh:mm:ss.SSS zzz, where:
 - YYYY-MM-DD is the date
 - hh:mm:ss.SSS is the time, including milliseconds
 - zzz is the time zone

pub.monitor.service:getHistory

Retrieves the status history for a specified service.

Input Parameters

The following table lists the input parameters.

<i>contextID</i>	String Context ID for the service whose status history you want to retrieve. Specify the complete, exact ID.
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Note:

Whether Monitor treats *contextID* as case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

Output Parameters

The following table lists the output parameters.

history

Document List The retrieved logged statuses for the specified service. For each logged status, the following fields are returned:

- **ROOTCONTEXTID String** Context ID of the service's root service. If the service is a top-level service, the root context ID is the same as the context ID.
- **PARENTCONTEXTID String** Context ID of the service's parent service, if the service was nested or resubmitted.
- **CONTEXTID String** Context ID for the service.
- **STATUS String** Status of the service when the message was logged. The `getHistory` service returns the numerical value that represents the status. For a description of the status values, see [“Status Reference” on page 185](#).
- **STATUSDECODE String** Status value of the service when the message was logged. The `getHistory` service returns the keyword value that represents the status. For the list of keyword values, for example, “Started” or “Completed,” see [“Status Reference” on page 185](#).
- **SERVICENAME String** Name of the service.
- **USERID String** Integration Server user name of the client that invoked the service.
- **RESUBMITTABLE String** Whether the service is currently resubmittable.
 - `true` Service is resubmittable.
 - `false` Service is not resubmittable.
- **ERRORMESSAGE String** If the service's status was 4 (Failed) when the message was logged, the text of the error message.
- **SERVERID String** DNS name and port for the Integration Server that ran the service (for example, `titan.east.webmethod.com:5555`).
- **DURATION String** If the service's status was 2 (Completed) or 4 (Failed) when the message was logged, length of time the service ran (in milliseconds).
- **AUDITTIMESTAMP Number** Time the service's status was logged, in epoch time; that is, the number of seconds since January 1, 1970.
- **AUDITTIMESTRING String** Time the service's status was logged in string format, `YYYY-MM-DD hh:mm:ss.SSS zzz`, where:
 - `YYYY-MM-DD` is the date
 - `hh:mm:ss.SSS` is the time, including milliseconds
 - `zzz` is the time zone

pub.monitor.service:getList

Retrieves a list of services whose most recent log entry (that is, current state) matches specified criteria.

Note:

Whether the search is case-sensitive or case-insensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

Input Parameters

The following table lists the input parameters.

<i>serviceName</i>	String Optional. Fully qualified or partial service name on services that you want to retrieve. The <i>serviceNameExact</i> parameter is used with this parameter.
<i>serviceNameExact</i>	String Optional. How to match on the value specified in <i>serviceName</i> . <ul style="list-style-type: none"> ■ <code>true</code> Exactly match the <i>serviceName</i> parameter. ■ <code>false</code> Default. Contains a substring that matches the <i>serviceName</i> parameter.
<i>serverID</i>	String Optional. Complete or partial DNS name and port for the Integration Server that ran the service (for example, <code>titan.east.webmethod.com:5555</code>). The <i>serverIDExact</i> parameter is used with this parameter.
<i>serverIDExact</i>	String Optional. How to match on the value specified in <i>serverID</i> . <ul style="list-style-type: none"> ■ <code>true</code> Exactly matches the <i>serverID</i> parameter. ■ <code>false</code> Default. Contains a substring that matches the <i>serverID</i> parameter.
<i>contextID</i>	String Optional. Complete context ID of the services you want to retrieve.
<i>parentContextID</i>	String Optional. Complete context ID of the parent service of the services you want to retrieve.
<i>rootContextID</i>	String Optional. Complete context ID for the root service of the services you want to retrieve.
<i>customContextID</i>	String Optional. The full, user-defined ID for the services that you want to retrieve. User-defined IDs are assigned by executing the <code>pub.flow:setCustomContextID</code> service. Use <i>customContextID</i> to retrieve services based on exact match of the given custom <i>ContextID</i> .
<i>username</i>	String Optional. Integration Server user name of the client that invoked the services that you want to retrieve.

Note:

Whether Monitor treats *username* as case-sensitive or case-insensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

<i>status</i>	String Optional. Status of the services that you want to retrieve. Use <i>status</i> if you want to retrieve services that all have a single specified status. You can specify either the keyword value for the status or the numerical value that represents the status. For a list of numerical and keyword values, see “Status Reference” on page 185 .
<i>statusSet</i>	String List Optional. A set of statuses for the of the services you want to retrieve. Use <i>statusSet</i> when you want retrieve services of more than one specified status. For each status that you specify in <i>statusSet</i> , specify the keyword value for the status or the numerical value that represents the status, as described above for the <i>status</i> parameter.
<i>range</i>	<p>String Optional. The date range for when the most recent log entries for the services you want to retrieved were logged. If you use this parameter, do not use the <i>fromDate</i> or <i>toDate</i> parameter. A week is Sunday through Saturday.</p> <ul style="list-style-type: none"> ■ Today Today ■ Yesterday Yesterday ■ In the last 7 days Within the last 7 days, including today. ■ Last week Any day in the last calendar week. ■ This week Any day in this calendar week. ■ Last month Any day in the last calendar month. ■ This month Any day in the current calendar month. ■ Year to date Any day in the current calendar year.
<i>fromDate</i>	Object Optional. The start date of when the most recent log entries of the services you want retrieved were logged. The <code>getList</code> service will get services whose log entries were logged on or after this date. If you use this parameter, use <i>toDate</i> to specify the end date; do not use the <i>range</i> parameter when you use the <i>fromDate</i> and <i>toDate</i> parameters.
<i>toDate</i>	Object Optional. The end date of when the most recent log entries of the services you want retrieved were logged. The <code>getList</code> service will get services whose log entries were logged on or before this date. If you use this parameter, use <i>fromDate</i> to specify the start date; do not use the <i>range</i> parameter when you use the <i>fromDate</i> and <i>toDate</i> parameters.
<i>maxRows</i>	String Optional. Maximum number of services to find, starting with those most recently logged. By default, the service gets all services.

- isAnd* **String** Optional. Whether the service is to use an AND condition or an OR condition for the criteria specified in the input parameters.
- `true` Use an AND condition. Services that match all the criteria you specify are returned. This is the default.
 - `false` Use an OR condition. Services that match any of the criteria you specify are returned.
- sortColumn* **String** How you want the retrieved list of services sorted. This parameter works with the *sortAscending* parameter.
- `ROOTCONTEXTID` Root context ID
 - `PARENTCONTEXTID` Parent context ID
 - `CONTEXTID` Context ID
 - `SERVICENAME` Service name
 - `STATUS` Status
 - `USERID` Integration Server client that invoked the service.
 - `SERVERID` Integration Server that ran the service.
 - `AUDITTIMESTAMP` Default. Time the most recent log entry was logged.
- sortAscending* **String** Optional. Whether to sort the retrieved lists of services in ascending or descending order. This parameter works with the *sortColumn* parameter.
- `true` Default. Sort in ascending order.
 - `false` Sort in descending order.

Output Parameters

The following table lists the output parameters.

- services* **Document List** The retrieved list of services. For each service, the following fields are returned:
- `ROOTCONTEXTID` **String** Root context ID of the service.
 - `PARENTCONTEXTID` **String** Context ID of the service's parent service.
 - `CONTEXTID` **String** Context ID of the service.
 - `SERVICENAME` **String** Name of the service.
 - `SERVERID` **String** Integration Server on which the service ran.

- **USERID String** Integration Server user name of the client that invoked the service.
- **FIRSTSTATUS Number** First status of the process instance.
- **FIRSTSTATUSDECODE String** Status value of the first status of the service. The `getList` service returns the keyword value that represents the status. For the list of keyword values, for example, “Started” or “Completed,” see [“Status Reference” on page 185](#).
- **FIRSTTIME Number** Time that data was last logged for the process instance, in epoch time; that is, the number of seconds since January 1, 1970.
- **FIRSTTIMESTRING String** Time that data was first logged for the process instance, in string format, YYYY-MM-DD hh:mm:ss.SSS zzz, where: YYYY-MM-DD is the date, hh:mm:ss.SSS is the time and zzz is the time in milliseconds.
- **LASTSTATUS Number** Last status of the process instance.
- **LASTSTATUSDECODE String** Status value of the last status of the service. The `getList` service returns the keyword value that represents the status. For the list of keyword values, for example, “Started” or “Completed,” see [“Status Reference” on page 185](#).
- **LASTTIME Number** Time that data was last logged for the process instance, in epoch time; that is, the number of seconds since January 1, 1970.
- **LASTTIMESTRING String** Time that data was last logged for the process instance, in string format, YYYY-MM-DD hh:mm:ss.SSS zzz, where: YYYY-MM-DD is the date, hh:mm:ss.SSS is the time and zzz is the time in milliseconds.
- **DURATION String** If the service's status is 2 (Completed) or 4 (Failed), the length of time the service ran (in milliseconds).
- **RESUBMITTABLE String** Whether the service is resubmittable.
 - `true` Service is resubmittable.
 - `false` Service is not resubmittable.

pub.monitor.service:getListCustomData

Retrieves a list of services that meet the specified criteria, including specifying the value of a single logged field, which instructs the service to return all instances where the value you specify was logged for a specified custom logged field.

Note:

Whether the search is case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

Input Parameters

The following table lists the input parameters.

<i>serviceName</i>	String Optional. Fully qualified or partial service name of services that you want to retrieve. The <i>serviceNameExact</i> parameter is used with this parameter.
<i>serviceNameExact</i>	<p>String Optional. How to match the value specified in <i>serviceName</i>.</p> <ul style="list-style-type: none"> ■ <code>true</code> Exactly match the <i>serviceName</i> parameter. ■ <code>false</code> Default. Contains a substring that matches the <i>serviceName</i> parameter.
<i>serverID</i>	String Optional. Complete or partial DNS name and port for the Integration Server that ran the service (for example, <code>titan.east.webmethod.com:5555</code>). The <i>serverIDExact</i> parameter is used with this parameter.
<i>serverIDExact</i>	<p>String Optional. How to match the value specified in <i>serverID</i>. To retrieve services executed on Integration Servers whose server IDs...</p> <ul style="list-style-type: none"> ■ <code>true</code> Exactly matches the <i>serverID</i> parameter. ■ <code>false</code> Default. Contains a substring that matches the <i>serverID</i> parameter.
<i>contextID</i>	String Optional. Complete context ID of the services to retrieve.
<i>parentContextID</i>	String Optional. Complete context ID of the parent service of the services to retrieve.
<i>rootContextID</i>	String Optional. Complete context ID for the root service of the services to retrieve.
<i>customContextID</i>	String Optional. The full, user-defined ID for the services to retrieve. User-defined IDs are assigned by executing the <code>pub.flow:setCustomContextID</code> service.
<i>username</i>	<p>String Optional. Integration Server user name of the client that invoked the services to retrieve.</p> <div style="background-color: #f0f0f0; padding: 10px; margin-top: 10px;"> <p>Note: Whether Monitor treats <i>username</i> as case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.</p> </div>
<i>status</i>	String Optional. Status of the services that you want to retrieve. Use <i>status</i> if you want to retrieve services that all have a single specified status. You can specify either the keyword value for the status or the numerical value that represents the status. For a list of numerical and keyword values, see “Status Reference” on page 185 .

<i>statusSet</i>	String List Optional. A set of statuses of the services you want to retrieve. Use <i>statusSet</i> when you want retrieve services of more than one specified status. For each status that you specify in <i>statusSet</i> , specify the keyword value for the status or the numerical value that represents the status, as described above for the <i>status</i> parameter.
<i>range</i>	String Optional. The date range for when the most recent log entries for the services you want to retrieve were logged. If you use this parameter, do not use the <i>fromDate</i> or <i>toDate</i> parameter. A week is Sunday through Saturday. <ul style="list-style-type: none">■ Today Today■ Yesterday Yesterday■ In the last 7 days Within the last 7 days, including today.■ Last week Any day in the last calendar week.■ This week Any day in this calendar week.■ Last month Any day in the last calendar month.■ This month Any day in the current calendar month.■ Year to date Any day in the current calendar year.
<i>fromDate</i>	String Optional. The start date of when the most recent log entries of the services you want retrieved were logged. The <i>getList</i> service will get services whose log entries were logged on or after this date. Use the format <i>YYYY-MM-DD HH:MM:SS</i> . If you use this parameter, use <i>toDate</i> to specify the end date; do not use the <i>range</i> parameter when you use the <i>fromDate</i> and <i>toDate</i> parameters.
<i>toDate</i>	String Optional. The end date of when the most recent log entries of the services you want retrieved were logged. The <i>getList</i> service will get services whose log entries were logged on or before this date. Use the format <i>YYYY-MM-DD HH:MM:SS</i> . If you use this parameter, use <i>fromDate</i> to specify the start date; do not use the <i>range</i> parameter when you use the <i>fromDate</i> and <i>toDate</i> parameters.
<i>maxRows</i>	String Optional. Maximum number of services to find, starting with those most recently logged. By default, the service gets all services.
<i>fieldName</i>	String Complete name of the logged field that you want to use to search for services.
<i>fieldType</i>	String The data type of <i>fieldName</i> . Specify either <i>String</i> , <i>Number</i> , or <i>Date</i> .
<i>comparator</i>	String A comparator indicates how the service should compare the value you specify in <i>value</i> to the actual value logged for the custom field specified by <i>fieldName</i> . Specify one of the following: <i>=</i> , <i>Contains</i> , <i>Not Contains</i> , <i>!=</i> , <i><</i> , <i>></i> , <i><=</i> , <i>>=</i>

<i>value</i>	String The value that you want the service to use to compare with the actual value stored for the custom field specified by <i>fieldName</i> .
<i>isAnd</i>	<p>String Optional. Whether the service is to use an AND condition or an OR condition for the specified criteria specified in the input parameters.</p> <ul style="list-style-type: none"> ■ <code>true</code> Use an AND condition. Services that match all the criteria you specify are returned. This is the default. ■ <code>false</code> Use an OR condition. Services that match any of the criteria you specify are returned.
<i>sortColumn</i>	<p>String The column to use to sort the list of retrieved services. This parameter works with the <i>sortAscending</i> parameter. Sort by:</p> <ul style="list-style-type: none"> ■ <code>ROOTCONTEXTID</code> Root context ID ■ <code>PARENTCONTEXTID</code> Parent context ID ■ <code>CONTEXTID</code> Context ID ■ <code>SERVICENAME</code> Service name ■ <code>STATUS</code> Status ■ <code>USERID</code> Integration Server client that invoked the service. ■ <code>SERVERID</code> Integration Server that ran the service. ■ <code>AUDITTIMESTAMP</code> Default. Time the most recent log entry was logged.
<i>sortAscending</i>	<p>String Optional. Whether to sort the retrieved lists of services in ascending or descending order. This parameter works with the <i>sortColumn</i> parameter.</p> <ul style="list-style-type: none"> ■ <code>true</code> Default. Sort in ascending order. ■ <code>false</code> Sort in descending order.

Output Parameters

The following table lists the output parameters.

<i>services</i>	<p>Document List The retrieved list of services. For each service, the following fields are returned:</p> <ul style="list-style-type: none"> ■ <code>ROOTCONTEXTID</code> String Root context ID of the service. ■ <code>PARENTCONTEXTID</code> String Context ID of the service's parent service. ■ <code>CONTEXTID</code> String Context ID of the service. ■ <code>AUDITTIMESTAMP</code> Number Time the service's status was logged, in epoch time; that is, the number of seconds since January 1, 1970.
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- **AUDITTIMESTRING String** Time the service's status was logged in string format, YYYY-MM-DD hh:mm:ss.SSS zzz, where:
 - YYYY-MM-DD is the date
 - hh:mm:ss.SSS is the time, including milliseconds
 - zzz is the time zone
- **USERID String** Integration Server user name of the client that invoked the service.
- **RESUBMITTABLE String** Whether the service is resubmittable.
 - true Service is resubmittable.
 - false Service is not resubmittable.
- **DURATION String** If the service's status is 2 (Completed) or 4 (Failed), the length of time the service ran (in milliseconds).
- **SERVICENAME String** Name of the service.
- **STATUS String** Status of the service. The `getList` service returns the numerical value that represents the status. For a description of the status values, see ["Status Reference" on page 185](#).
- **STATUSDECODE String** Status value of the service. The `getList` service returns the keyword value that represents the status. For the list of keyword values, for example, "Started" or "Completed", see ["Status Reference" on page 185](#).
- **ERRORMESSAGE String** If the service's status is 4 (Failed), the text of the error message.
- **SERVERID String** Integration Server on which the service ran.
- **CUSTOMCONTEXTID String** The full, user-defined ID of the retrieved service that was assigned by executing the `pub.flow:setCustomContextID` service.
- **AUDITEDPARENTID String** Complete ID of the parent service for which you have logged user-defined fields.

pub.monitor.service:getListCustomDataSet

Retrieves a list of services that meet the specified criteria, including specifying the value of multiple logged fields, which instructs the service to return all services where the value you specify was logged for multiple specified custom logged field.

Note:

Whether the search is case-sensitive or case-insensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

Input Parameters

The following table lists the input parameters.

<i>serviceName</i>	String Optional. Fully qualified or partial service name of services that you want to retrieve. The <i>serviceNameExact</i> parameter is used with this parameter.
<i>serviceNameExact</i>	String Optional. How to match the value specified in <i>serviceName</i> . <ul style="list-style-type: none"> ■ <code>true</code> Exactly match the <i>serviceName</i> parameter. ■ <code>false</code> Default. Contains a substring that matches the <i>serviceName</i> parameter.
<i>serverID</i>	String Optional. Complete or partial DNS name and port for the Integration Server that ran the service (for example, <code>titan.east.webmethod.com:5555</code>). The <i>serverIDExact</i> parameter is used with this parameter.
<i>serverIDExact</i>	String Optional. How to match the value specified in <i>serverID</i> . To retrieve services executed on Integration Servers whose server IDs... <ul style="list-style-type: none"> ■ <code>true</code> Exactly matches the <i>serverID</i> parameter. ■ <code>false</code> Default. Contains a substring that matches the <i>serverID</i> parameter.
<i>contextID</i>	String Optional. Complete context ID of the services to retrieve.
<i>parentContextID</i>	String Optional. Complete context ID of the parent service of the services to retrieve.
<i>rootContextID</i>	String Optional. Complete context ID for the root service of the services to retrieve.
<i>customContextID</i>	String Optional. The full, user-defined ID for the service to retrieve. User-defined IDs are assigned by executing the <code>pub.flow:setCustomContextID</code> service.
<i>username</i>	String Optional. Integration Server user name of the client that invoked the services that you want to retrieve. <div style="background-color: #f0f0f0; padding: 5px; margin-top: 10px;"> <p>Note: Whether Monitor treats <i>username</i> as case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.</p> </div>
<i>status</i>	String Optional. Status of the services that you want to retrieve. Use <i>status</i> if you want to retrieve services that all have a single specified status. You can specify either the keyword value for the status or the numerical value that represents the status. For a list of numerical and keyword values, see “Status Reference” on page 185 .

<i>statusSet</i>	String List Optional. A set of statuses of the services you want to retrieve. Use <i>statusSet</i> when you want retrieve services of more than one specified status. For each status that you specify in <i>statusSet</i> , specify the keyword value for the status or the numerical value that represents the status, as described above for the <i>status</i> parameter.
<i>range</i>	<p>String Optional. The date range for when the most recent log entries for the services you want to retrieve were logged. If you use this parameter, do not use the <i>fromDate</i> or <i>toDate</i> parameter. A week is Sunday through Saturday.</p> <ul style="list-style-type: none"> ■ Today Today ■ Yesterday Yesterday ■ In the last 7 days Within the last 7 days, including today. ■ Last week Any day in the last calendar week. ■ This week Any day in this calendar week. ■ Last month Any day in the last calendar month. ■ This month Any day in the current calendar month. ■ Year to date Any day in the current calendar year.
<i>fromDate</i>	String Optional. The start date of when the most recent log entries of the services you want retrieved were logged. The <code>getList</code> service will get services whose log entries were logged on or after this date. Use the format <code>YYYY-MM-DD HH:MM:SS</code> . If you use this parameter, use <i>toDate</i> to specify the end date; do not use the <i>range</i> parameter when you use the <i>fromDate</i> and <i>toDate</i> parameters.
<i>toDate</i>	String Optional. The end date of when the most recent log entries of the services you want retrieved were logged. The <code>getList</code> service will get services whose log entries were logged on or before this date. Use the format <code>YYYY-MM-DD HH:MM:SS</code> . If you use this parameter, use <i>fromDate</i> to specify the start date; do not use the <i>range</i> parameter when you use the <i>fromDate</i> and <i>toDate</i> parameters.
<i>maxRows</i>	String Optional. Maximum number of services to find, starting with those most recently logged. By default, the service gets all services.
<i>customTable</i>	String Table The custom fields and their values that you want to use to search for services. The service returns services that match all the custom field data you specify.

Note:

When searching for logged service data using user-logged fields as search criteria, Monitor always uses the OR operation.

For each custom field, specify the following fields.

- *fieldName* **String** The complete name of the logged field that you want to use to search for services.
- *fieldType* **String** The data type of *fieldName*. Specify either `String`, `Number`, or `Date`.
- *comparator* **String** A comparator indicates how the service should compare the value you specify in *value* to the actual value logged for the custom field specified by *fieldName*. Specify one of the following: `=`, `,`, `Contains`, `Not Contains`, `!=`, `<`, `>`, `<=`, `>=`
- *value* **String** The value that you want the service to use to compare with the actual value stored for the custom field specified by *fieldName*.

isAnd

String Optional. Whether the service is to use an AND condition or an OR condition for the criteria specified in the input parameters.

- `true` Use an AND condition. Services that match all the criteria you specify are returned. This is the default.
- `false` Use an OR condition. Services that match any of the criteria you specify are returned.

sortColumn

String How you want the retrieved list of services sorted. This parameter works with the *sortAscending* parameter.

- `ROOTCONTEXTID` Root context ID
- `PARENTCONTEXTID` Parent context ID
- `CONTEXTID` Context ID
- `SERVICENAME` Service name
- `STATUS` Status
- `USERID` Integration Server client that invoked the service.
- `SERVERID` Integration Server that ran the service.
- `AUDITTIMESTAMP` Default. Time the most recent log entry was logged.

sortAscending

String Optional. Whether to sort the retrieved lists of services in ascending or descending order. This parameter works with the *sortColumn* parameter.

- `true` Default. Sort in ascending order.
- `false` Sort in descending order.

Output Parameters

The following table lists the output parameters.

services

Document List The retrieved list of services. For each service, the following fields are returned:

- **ROOTCONTEXTID String** Root context ID of the service.
- **PARENTCONTEXTID String** Context ID of the service's parent service.
- **CONTEXTID String** Context ID of the service.
- **AUDITTIMESTAMP Number** Time the service's status was logged, in epoch time; that is, the number of seconds since January 1, 1970.
- **AUDITTIMESTRING String** Time the service's status was logged in string format, YYYY-MM-DD hh:mm:ss.SSS zzz, where:
 - YYYY-MM-DD is the date
 - hh:mm:ss:SSS is the time, including milliseconds
 - zzz is the time zone
- **USERID String** Integration Server user name of the client that invoked the service.
- **RESUBMITTABLE String** Whether the service is resubmittable.
 - true Service is resubmittable.
 - false Service is not resubmittable.
- **DURATION String** If the service's status is 2 (Completed) or 4 (Failed), the length of time the service ran (in milliseconds).
- **SERVICENAME String** Name of the service.
- **STATUS String** Status of the service. The `getList` service returns the numerical value that represents the status. For a description of the status values, see ["Status Reference" on page 185](#).
- **STATUSDECODE String** Status value of the service. The `getList` service returns the keyword value that represents the status. For the list of keyword values, for example, "Started" or "Completed," see ["Status Reference" on page 185](#).
- **ERRORMESSAGE String** If the service's status is 4 (Failed), the text of the error message.
- **SERVERID String** Integration Server on which the service ran.
- **CUSTOMCONTEXTID String** The full, user-defined ID of the retrieved service that was assigned by executing the service.
- **AUDITEDPARENTID String** Complete ID of the parent service for which you have logged user-defined fields.

pub.monitor.service:getPipeline

Retrieves the input pipeline for a specified service.

Input Parameters

The following table lists the input parameters.

<i>contextID</i>	String Context ID of the service with the input pipeline you want to retrieve. Specify the complete, exact ID.
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Note:

Whether Monitor treats *contextID* as case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

Output Parameters

The following table lists the output parameters.

<i>inputPipeline</i>	Document The retrieved input pipeline.
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pub.monitor.service:isResubmittable

Checks whether a specified service is resubmittable.

Input Parameters

The following table lists the input parameters.

<i>contextID</i>	String Context ID for the service to check. Specify the complete, exact ID.
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Note:

Whether Monitor treats *contextID* as case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

Output Parameters

The following table lists the output parameters.

<i>resubmittable</i>	String Whether the service exists in the logging database and is resubmittable. <ul style="list-style-type: none"> ■ true Service exists and is resubmittable.
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- false Service does not exist and is not resubmittable.

Usage Notes

To qualify as resubmittable, a service must be a top-level service whose input pipeline was logged in the logging database.

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■ pub.monitor.serviceControl:resubmit	182

Summary of Elements in This Folder

The following table lists and describes the services.

Service and Description

[pub.monitor.serviceControl:resubmit](#)

Resubmits a specified service to a specified Integration Server.

pub.monitor.serviceControl:resubmit

Resubmits a specified service to a specified Integration Server.

Input Parameters

The following table lists the input parameters.

contextID **String** Context ID for the service to resubmit. Specify the complete, exact ID.

Note:

Whether Monitor treats *contextID* as case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

altServer **String** Optional. Integration Server to which to resubmit the service, in the format *Integration Server_host:Integration Server_port*. By default, the service is resubmitted to the Integration Server on which the service originally ran.

Note:

Whether Monitor treats *altServer* as case-sensitive depends on how the underlying database (for example, Oracle, DB2, or SQL server) handles the queries that Monitor issues to obtain data.

inputPipeline **Document** Optional. Input pipeline to resubmit. You can retrieve the pipeline using the [pub.monitor.service:getPipeline](#) service. If you do not provide *inputPipeline*, or if you do not have permission to modify the pipeline, the service retrieves the pipeline that was logged with the service in the logging database.

Output Parameters

None.

Usage Notes

You can resubmit services to any Integration Server that is defined as a remote server in the Integration Server Administrator for the local Integration Server (that is, the Integration Server

on which Monitor is installed). If you want to resubmit services on the local Integration Server, that Integration Server must be defined to itself as a remote server. To define an Integration Server to itself as a remote server, you must set up a remote server alias in Integration Server Administrator.

Note:

When setting up a remote server alias in Integration Server Administrator, make sure that the **Host Name** parameter contains the complete DNS name for the Integration Server (for example, titanium.east.webmethods.com).

For more information on setting up Integration Server as a remote server, see *webMethods Integration Server Administrator's Guide*.

A Status Reference

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Statuses

Many services use a numerical value to represent a status.

- When the status variable is an input parameter, use the table below to determine the numerical value to use for an input parameter based on the status you want.
- When the status variable is an output variable, use the table below to determine a status based on the numerical value in the output variable.

Value	Status
1	Started
2	Completed
4	Failed
8	Suspended
16	Waiting
32	Cached
64	Expired
128	Message
256	User Data
512	Retries Exceeded (documents and services only)
768	Unsatisfied Join
776	Interrupted
1024	Stopped
2048	Resumed
4096	Activated
8192	Requeued
12288	Revised
16384	Reassigned
32768	Resubmitted
32769	Rejected (documents only)
32770	In Doubt (documents only)
32772	Retried (services only)

Value	Status
32777	Resubmitted - ErrorOnly (services only)
33024	Queued (tasks only)
33025	Accepted (tasks only)
33026	Completed (tasks only)
33030	Failed (Escalated)
