

Integrating with Robotic Process Automation

Version 10.3

October 2018

This document applies to webMethods RPA Integration Version 10.3 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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About this Guide

This guide explains how to use webMethods RPA Integration to create and monitor RPA tasks executed by Kryon unattended robots.

To use webMethods RPA Integration effectively you should:

- Understand the basic concepts and components of the Kryon RPA Platform, including the Kryon Web Service API, as described in the webMethods Robotic Process Automation documentation.
- Be familiar with the setup and operation of webMethods Integration Server and how to manage packages in Integration Server.
- Know how to create and work with flow and Java services using Designer.
- Have a general idea about how to work with REST services.

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.

Convention	Description
[]	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 (...).

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Software AG Empower Product Support Website

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- Access articles, code samples, demos, and tutorials.

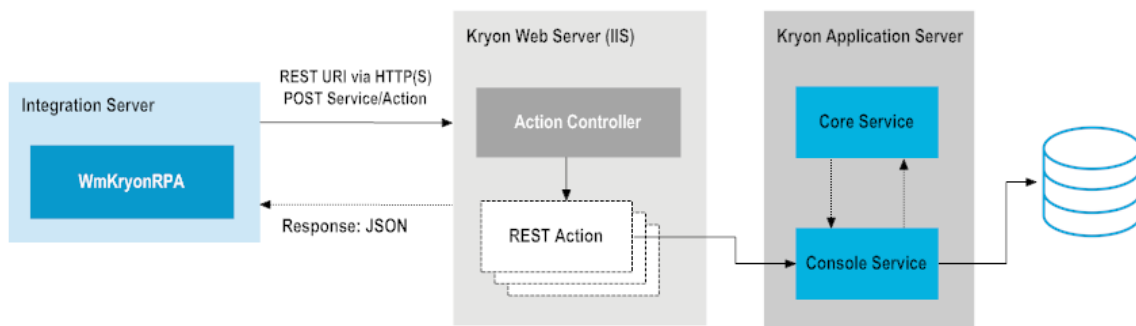
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1 About webMethods RPA Integration

webMethods RPA Integration enables you to create and monitor RPA tasks executed by Kryon unattended robots directly from Integration Server. webMethods RPA Integration is provided as an Integration Server package, called WmKryonRPA. The WmKryonRPA package contains Integration Server services (IS services) that call the REST services of the Kryon Web Service API. You can also use the **Add Task** and **Get Task Status** screens of the WmKryonRPA web user interface in Integration Server Administrator to test the API requests to the Kryon Web Service API. The following diagram illustrates the interaction between the services of the webMethods RPA Integration (WmKryonRPA) and Kryon Web Service API.



2 Setting Up webMethods RPA Integration

You install the WmKryonRPA package as you would install any package on Integration Server using Software AG Installer. The WmKryonRPA package does not require a separate license.

After installing the package, open Integration Server Administrator and connect the WmKryonRPA package to the Kryon Web Service API as follows:

1. Go to Packages > Management and click the home icon for the **WmKryonRPA** package.
2. On the WmKryonRPA > Configuration Settings screen, specify the following fields:
 - **Kryon WebAPI URL** - The URL of the server that hosts the Kryon Web Service API.
Default: `http://localhost:8080/`
 - **User Name** - The user name of a user that can log on to the Kryon Web Service API and access its services.
Default: `WebAPIUser`
 - **Password** - The password of the user you specified in the **User name** field.
Default: `manage`
3. Click **Submit**.

You can now invoke the Kryon Web Service API services using the Integration Server services in the WmKryonRPA package.

You can also use the **Add Task** and **Get Task Status** screens of the WmKryonRPA administrative pages in Integration Server Administrator to test the API requests for adding tasks and getting the status of a task.

3 Running the WmKryonRPA Services

When you use the services in the WmKryonRPA package, you must follow the guidelines for working with Integration Server packages and services.

1. Start Integration Server, Integration Server Administrator, and Designer if they are not already running.
2. Make sure you have Integration Server administrator privileges so that you can access the WmKryonRPA package administrative screens.
3. In Integration Server Administrator, make sure that the WmKryonRPA package is enabled.
4. In Integration Server Administrator, configure a connection to the Kryon Web Service API as described in [“Setting Up webMethods RPA Integration” on page 11](#).
5. In Designer, expand the WmKryonRPA package and folder that contain the service that you want to run.
6. Right-click the service and click **Run As > Run Flow Service**.
7. On the **Input/Output** tab, specify values for the parameters of the service as required and save the service.

See the WmKryonRPA service reference topics in this guide for details about the input and output parameters of each service. You can view the result from running the service on the **Results** tab.

8. In Integration Server Administrator, test the API requests from the *addTask* and *getTaskStatus* services of the WmKryonRPA package to the Kryon Web Service API. See [“Testing the Add Task API Request” on page 21](#) and [“Testing the Get Task Status API Request” on page 23](#).

For detailed information about working with Integration Server packages and services, see:

- *webMethods Integration Server Administrator’s Guide*
- *webMethods Service Development Help*

4 WmKryonRPA Service Reference

- wmKryonRPA.services:addTask 16
- wmKryonRPA.services:getTaskStatus 17
- wmKryonRPA.javaservices:getConfiguration 18
- wmKryonRPA.javaservices:setConfiguration 18
- wmKryonRPA.javaservices:getErrorDescription 19
- wmKryonRPA.javaservices:getStatusDescription 20

You can configure and use the flow and Java services from the WmKryonRPA package as described in the service reference topics.

wmKryonRPA.services:addTask

Creates a new task in a task queue for unattended robots.

Input Parameters

<i>wmKryonRPA.docs:TaskRequest</i>	Document Contains the parameters required for creating an RPA task.
<i>WizardCustomId</i>	String The ID of the wizard that will execute the RPA task.
<i>NumberOfRuns</i>	Long The number of runs a wizard should execute per task. Default: 1
<i>SingleRunEstimation</i>	Long The estimated period of time in minutes for a single wizard run. Default: 10
<i>Variables</i>	Array (String, String) List of key/value pairs that indicate a sequence of actions that the task wizard will execute as part of an advanced command.
<i>QueuePriority</i>	Integer The priority of the task in the task queue. Valid values: <ul style="list-style-type: none"> ■ 0 - Normal (default) - the task is added at the bottom of the task queue ■ 1- High - the task is added at the top of the task queue (but after other high priority tasks already in queue)
<i>GroupName</i>	String The name of the robot group to which to assign the task. If the value

is empty (default), the task will get assigned to an available robot.

MachineName

String The name of the robot to which to assign the task. If the value is empty (default), the task will get assigned to an available robot.

Output Parameters

wmKryonRPA.docs:TaskStatusResponse

Document Returns the details of the created RPA task.

TaskID

Long The ID of the created task.

Status

Integer A status code that indicates the current status of the task.

Error

Integer Conditional. If an error occurs, the service returns an error code that indicates the type of the error.

ScriptOutputData

String Conditional. Output data reported by the wizard that executes the task.

wmKryonRPA.services:getTaskStatus

Retrieves the status of an RPA task.

Input Parameters

TaskId

String The ID of the RPA task that you want to monitor.

Output Parameters

wmKryonRPA.docs:TaskStatusResponse

Document Returns the details of the monitored RPA task.

TaskID

Long The ID of the monitored task.

<i>Status</i>	Integer A status code that indicates the current status of the task.
<i>Error</i>	Integer Conditional. If an error occurs, the service returns an error code that indicates the type of the error.
<i>ScriptOutputData</i>	String Conditional. Output data reported by the wizard that executes the task.

wmKryonRPA.javaservices:getConfiguration

Retrieves the connection details for the Kryon Web Service API from the *SoftwareAG_directory*/WmKryonRPA/config/WebAPIConnection.properties file. The password is retrieved from the Outbound Password Manager (`wm.is.wmkryonrpa.webapiuser`).

Input Parameters

None.

Output Parameters

<i>wmKryonRPA.docs:Configuration</i>	Document Returns the connection details required for connecting to the Kryon Web Service API.
<i>KryonWebAPIURL</i>	String The URL of the server that hosts the Kryon Web Service API.
<i>UserName</i>	String The user name of a user that can log on to the Kryon Web Service API and access its services.
<i>Password</i>	String The password of the user listed in the <i>UserName</i> parameter.

wmKryonRPA.javaservices:setConfiguration

Modifies the connection details for the Kryon Web Service API. The connection properties are located in the *SoftwareAG_directory*/WmKryonRPA/config/

WebAPIConnection.properties file. The password is retrieved from the Outbound Password Manager (`wm.is.wmkryonrpa.webapiuser`).

Input Parameters

<i>wmKryonRPA.docs:Configuration</i>	Document Contains the connection details required for connecting to the Kryon Web Service API.
<i>KryonWebAPIURL</i>	String The URL of the server that hosts the Kryon Web Service API.
<i>UserName</i>	String The user name of a user that can log on to the Kryon Web Service API and access its services.
<i>Password</i>	String The password of the user listed in the <i>UserName</i> parameter.

Output Parameters

<i>status</i>	String A status code that indicates the current authentication status. For details about authenticating API calls, see <i>Kryon Web Service API User Guide</i> .
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wmKryonRPA.javaservices:getErrorDescription

Retrieves the description of an error from the *SoftwareAG_directory/WmKryonRPA/config/ErrorDescription.properties* file. The error description is based on the *ErrorId* specified in the input.

Input Parameters

<i>ErrorId</i>	Integer The error code returned from the <code>AddTask</code> and <code>GetTaskStatus</code> API. For details about the error code, see <i>Kryon Web Service API User Guide</i> .
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Output Parameters

<i>ErrorId</i>	Integer The error code returned from the <code>AddTask</code> and <code>GetTaskStatus</code> API. For details about the error code, see <i>Kryon Web Service API User Guide</i> .
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<i>ErrorDescription</i>	String A description of what the error code (specified in <i>ErrorId</i>) indicates.
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wmKryonRPA.javaservices:getStatusDescription

Retrieves the status description of a task from the *SoftwareAG_directory /WmKryonRPA/ config/StatusDescription.properties* file. The status description is retrieved based on the *StatusId* specified in the input.

Input Parameters

<i>StatusId</i>	Integer The status code returned from the <i>GetTaskStatus</i> API. For details about the status code, see <i>Kryon Web Service API User Guide</i> .
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Output Parameters

<i>StatusId</i>	Integer The status code returned from the <i>GetTaskStatus</i> API. For details about the status code, see <i>Kryon Web Service API User Guide</i> .
<i>StatusDescription</i>	String A description of what the status code (specified in <i>StatusId</i>) indicates.

5 Testing the Add Task API Request

To test the API request for creating an RPA task in a task queue:

1. Open Integration Server Administrator if it is not already running.
2. Got to Packages > Management and click the **WmKryonRPA** package.
3. On the WmKryonRPA > Add Task screen, specify values in the **Add Task Parameters** fields.

Parameter	Description	Default
Wizard custom id	The ID of the wizard that will execute the RPA task.	
Number of runs	The number of runs a wizard should execute per task.	1
Single run estimation	The estimated period of time in minutes for a single wizard run.	10
Queue priority	<p>The priority of the task in the task queue. Valid values:</p> <ul style="list-style-type: none"> ■ Normal - the task is added at the bottom of the task queue ■ High - the task is added at the top of the task queue (but after other high priority tasks already in queue) 	Normal
Group Name	The name of the robot group to which to assign the task. If this field is empty, the task will get assigned to an available robot.	empty
Machine Name	The name of the robot to which to assign the task. If this field is empty, the task will get assigned to an available robot.	empty
Variables	A variable is a name/value pair that indicates a sequence of actions that	

Parameter	Description	Default
	<p>the task wizard will execute as part of an advanced command.</p> <p>Specify the name of the variable in the first field and its value in the second field and click Add. You can add more than one variable per task.</p>	

4. Click **Submit**.

6 Testing the Get Task Status API Request

To test the API request for monitoring the status of RPA tasks:

1. Open Integration Server Administrator if it is not already running.
2. Go to Packages > Management and click the **WmKryonRPA** package.
3. On the WmKryonRPA > Get Task Status screen, specify the ID of the task that you want to monitor in the **Task ID** field.
4. Click **Submit**.