



Opswise Automation Center 5.1

RESTful Web Services API Reference

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RESTful Web Services API Reference

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- Set Variables
- Set Limit on a Virtual Resource
- Trigger a Task
- Create Temporary Trigger
- Enable/Disable Trigger
- Create a Windows, Linux/Unix, or z/OS Task
- Launch a Task

Introduction

Opwise supports a RESTful-based web services API that allows you to perform the following tasks:

- Request a list of agents
- Set variables
- Set a limit on a virtual resource
- Trigger a task
- Create a Temporary trigger
- Enable/Disable a trigger
- Create a Windows, Linux/Unix, or z/OS Task
- Launch a task

Access to Opwise requires basic HTTP authentication over HTTPS. Unauthorized access returns HTTP/1.1 403 Access is denied.

The following methods are used:

- HTTP GET is used for data look up (no data is modified).
- HTTP POST is used for data modification such as create and update.

Successful calls return HTTP Status: HTTP/1.1 200 OK

Errors are returned as HTTP/1.1 404 Not Found for a resource not found and HTTP/1.1 500 for all other errors. Most resources (Opwise records) are returned as XML.

Formatting specifications for each of these are provided in the following tables. For details about which fields on which records are required, see the documentation for that record type.

Request a List of Agents

Property	Description
URI	<code>http://host_name/opwise/resources/agents/list</code>
HTTP Method	GET
Description	Returns the list of all agents.
Authentication	HTTP Basic
Produces Content-Type	application/xml
XML Request Example	Not applicable.

XML Response Example	<pre> <agents> <agent> <hostName>testHost</hostName> <ipAddress>10.253.1.111</ipAddress> <name>super2 - 1</name> <queueName>AGNT0001</queueName> <sysID>91149e0dc0a8016b01ddd96883a1ad9a</sysID> <type>Windows</type> <version>1.7.0</version> </agent> ... </agents> </pre>
Error(s)	HTTP/1.1 404 Not Found

Set Variables

Property	Description
URI	http://host_name/opwise/resources/variable/ops-variable-set
HTTP Method	POST
Description	Sets the specified variable.
Authentication	HTTP Basic
Consumes Content-Type	application/xml
Produces Content-Type	application/xml
XML Request Example	<pre> Global Variable <set-variable> <create>true</create> <variable> <name>testGlobalVar</name> <description>testGlobalVar decription</description> <value>testGlobalVar val</value> </variable> </set-variable> Task Variable <set-variable> <create>true</create> <scope>task</scope> <task>Sleep 60</task> <variable> <description>testTaskVar decription</description> <name>testTaskVar</name> <value>testTaskVar val</value> </variable> </set-variable> Trigger Variable <set-variable> <create>true</create> <scope>trigger</scope> <trigger>Opwise - Mon-Fri 9-5</trigger> <variable> <description>testTriggerVar decription</description> <name>testTriggerVar</name> <value>testTriggerVar val</value> </variable> </set-variable> </pre>

XML Response Example	<pre> <command-response> <type>set_variable</type> <success>>true</success> <info>Variable testGlobalVar not found., Successfully created variable=testGlobalVar with value=testGlobalVar val.</info> <errors /> </command-response> </pre>
Error(s)	

Set Limit on a Virtual Resource

Property	Description
URI	http://host_name/opwise/resources/virtual/ops-update-resource-limit
HTTP Method	POST
Description	Updates resource limit for virtual resources.
Authentication	HTTP Basic
Consumes Content-Type	application/xml
Produces Content-Type	application/xml
XML Request Example	<pre> <virtual-resource> <name>Opwise - Solo</name> <limit>1</limit> </virtual-resource> </pre>
XML Response Example	<pre> <command-response> <type>update_resource_limit</type> <success>>true</success> <info>Successfully updated the virtual resource.</info> <errors /> </command-response> </pre>
Error(s)	HTTP/1.1 404 Not Found

Trigger a Task

Property	Description
URI	http://host_name/opwise/resources/trigger/ops-trigger-now
HTTP Method	POST
Description	Launches trigger associated tasks and optionally sets variables.
Authentication	HTTP Basic
Consumes Content-Type	application/xml
Produces Content-Type	application/xml

XML Request Example	<pre> <trigger-now> <name>Opwise - Every 15 Minutes MWF 9-5</name> <variables> <variable> <name>testVariable</name> <value>Hello</value> </variable> </variables> </trigger-now> </pre>
XML Response Example	<pre> <command-response> <type>trigger_now</type> <success>true</success> <info>Successfully triggered Opwise - Every 15 Minutes MWF 9-5 with sys_id 4c7d6b9cc0a801c900e7dac8b24ef142.</info> <errors /> </command-response> </pre>
Error(s)	HTTP/1.1 404 Not Found

Create Temporary Trigger

Property	Description
URI	http://host_name/opwise/resources/trigger/ops-create-temp-trigger
HTTP Method	POST
Description	Creates a temporary trigger. Variables are optional.
Authentication	HTTP Basic
Consumes Content-Type	application/xml
Produces Content-Type	application/xml
XML Request Example	<pre> <create-temp-trigger> <date>2015-01-15</date> <enable>true</enable> <name>Test Temp Trigger</name> <tasks> <task name="Sleep 30" /> </tasks> <time>13:42</time> <variables> <variable> <name>var56318389</name> <value>val</value> </variable> </variables> </create-temp-trigger> </pre>

XML Response Example	<pre><command-response> <type>create_trigger</type> <success>true</success> <info>Successfully created the Temporary trigger., Successfully enabled trigger Test Temp Trigger</info> <errors /> </command-response></pre>
Error(s)	HTTP/1.1 404 Not Found

Enable/Disable Trigger

Property	Description
URI	http://host_name/opwise/resources/trigger/ops-enable-disable-triggers
HTTP Method	POST
Description	Enables/Disables a list of triggers.
Authentication	HTTP Basic
Consumes Content-Type	application/xml
Produces Content-Type	application/xml
XML Request Example	<pre><enable-disable-trigger> <trigger enable="true" name="Opwise - 1st and 15th"/> <trigger enable="false" name="Opwise - 1st Sunday of Month"/> </enable-disable-trigger></pre>
XML Response Example	<pre><command-response> <type>Enable Disable Triggers</type> <success>true</success> <info>Successfully enabled trigger Opwise - 1st and 15th, Successfully disabled trigger Opwise - 1st Sunday of Month</info> <errors /> </command-response></pre>
Error(s)	HTTP/1.1 404 Not Found

Create a Windows, Linux/Unix, or z/OS Task

Property	Description
URI	http://host_name/opwise/resources/task/ops-task-create
HTTP Method	POST
Description	Creates a new task (Windows, Linux/Unix, or z/OS) with or without related lists of records (Variables, Notes, Virtual Resources).
Authentication	HTTP Basic
Consumes Content-Type	application/xml

Produces Content-Type	application/xml
XML Request Example - Common Fields (See type-specific properties below)	<pre><task type="windows"> <properties> <entry> <key>summary</key> <value>test summary</value> </entry> <entry> <key>name</key> <value>test task</value> </entry> <entry> <key>command</key> <value>echo 'Hello'</value> </entry> ... </properties></pre>
XML Request Example - Task Variables	<pre><variables> <variable> <description>desc</description> <name>testVar</name> <value>testVar Val</value> </variable> </variables></pre>
XML Request Example - Notes	<pre><notes> <note> <text>note text</text> <title>note title</title> </note> </notes></pre>
XML Request Example - Virtual Resources	<pre><virtual-resources> <virtual-resource> <amount>2</amount> <resource>testresource</resource> </virtual-resource> </virtual-resources></pre>

XML Request Example - Actions - Email Notifications

```

<actions>
  <email-notification>
    <exitCodes>1</exitCodes>
    <notifyOnEarlyFinish>true</notifyOnEarlyFinish>
    <notifyOnLateFinish>true</notifyOnLateFinish>
    <notifyOnLateStart>true</notifyOnLateStart>
    <status>DEFINED,FAILED</status>
    <attachFile>true</attachFile>
    <attachStdError>true</attachStdError>
    <attachStdOut>true</attachStdOut>
    <bcc>bcc@ws.stonebranch.com</bcc>
    <body>Ws test body</body>
    <cc>cc@ws.stonebranch.com</cc>
    <emailConnection> Gmail Account</emailConnection>
    <fileName>test file</fileName>
    <fileNumLines>100</fileNumLines>
    <fileScanText>test file scan text</fileScanText>
    <fileStartLine>1</fileStartLine>
    <replyTo>replyto@ws.stonebranch.com</replyTo>
    <stderrNumLines>100</stderrNumLines>
    <stderrScanText>test stderr scan text</stderrScanText>
    <stderrStartLine>1</stderrStartLine>
    <stdoutNumLines>100</stdoutNumLines>
    <stdoutScanText>test stdout scan text</stdoutScanText>
    <stdoutStartLine>1</stdoutStartLine>
    <subject>WS Test Subject</subject>
    <to>to@ws.stonebranch.com</to>
  </email-notification>
</actions>

```

XML Request Example - Actions - SNMP Notification

```

<actions>
  <snmp-notification>
    <exitCodes>1</exitCodes>
    <notifyOnEarlyFinish>true</notifyOnEarlyFinish>
    <notifyOnLateFinish>true</notifyOnLateFinish>
    <notifyOnLateStart>false</notifyOnLateStart>
    <status>DEFINED,FAILED </status>
    <severity>3</severity>
    <snmpManager>test</snmpManager>
  </snmp-notification>
</actions>

```

XML Request Example - Actions - Abort Action

```

<actions>
  <abort-action>
    <exitCodes>1</exitCodes>
    <notifyOnEarlyFinish>true</notifyOnEarlyFinish>
    <notifyOnLateFinish>true</notifyOnLateFinish>
    <notifyOnLateStart>true</notifyOnLateStart>
    <status> WAITING,RESOURCE REQUESTED</status>
    <cancelProcess>true</cancelProcess>
    <overrideExitCode>4</overrideExitCode>
  </abort-action>
</actions>

```


XML Request Example - Actions - Set Variable

```

<actions>
  <set-variable-action>
    <exitCodes>1</exitCodes>
    <notifyOnEarlyFinish>>false</notifyOnEarlyFinish>
    <notifyOnLateFinish>>false</notifyOnLateFinish>
    <notifyOnLateStart>>false</notifyOnLateStart>
    <status>finished</status>
    <variableDescription>testvarDescr</variableDescription>
    <variableName>testVar</variableName>
    <variableScope>1</variableScope>
    <variableValue>testVarVal</variableValue>
  </set-variable-action>
</actions>

```

Windows Task Properties

```

name - required / unique
summary
credentials
credentials_var
retry_maximum
retry_indefinitely
retry_interval
opswise_groups
ls_enabled
ls_type
ls_time - format hh:mm
ls_duration - format hh:mm:ss
lf_enabled
lf_type
lf_time - format hh:mm
lf_duration - format hh:mm:ss
ef_enabled
ef_type
ef_time - format hh:mm
ef_duration - format hh:mm:ss
start_held
start_held_reason
agent - required
agent_var
agent_cluster
agent_cluster_var
broadcast_cluster
command_or_script *
command
script
runtime_dir
parameters
environment
exit_code_processing *
exit_codes
exit_code_text
exit_code_output
output_type *
output_return_type *
output_return_file
output_return_sline
output_return_nline
output_return_text


```

Linux/Unix Task Properties

```
name - required /unique
summary
credentials
credentials_var
retry_maximum
retry_indefinitely
retry_interval
opwise_groups
ls_enabled
ls_type
ls_time - format hh:mm
ls_duration - format hh:mm:ss
lf_enabled
lf_type
lf_time - format hh:mm
lf_duration - format hh:mm:ss
ef_enabled
ef_type
ef_time - format hh:mm
ef_duration - format hh:mm:ss
start_held
start_held_reason
agent_var
agent_cluster
agent_cluster_var
agent
broadcast_cluster
command_or_script *
command
script
runtime_dir
parameters
environment
exit_code_processing *
exit_codes
exit_code_text
exit_code_output
output_type *
run_as_sudo
output_return_type *
output_return_file
output_return_sline
output_return_nline
output_return_text
```

z/OS Task Properties

```
name
summary
credentials
credentials_var
retry_maximum
retry_indefinitely
retry_interval
opwise_groups
ls_enabled
ls_type
ls_time
ls_duration - format hh:mm:ss
lf_enabled
lf_type
lf_time - format hh:mm
lf_duration - format hh:mm:ss
ef_enabled
ef_type
ef_time - format hh:mm
ef_duration - format hh:mm:ss
start_held
start_held_reason
agent_var
agent_cluster
agent_cluster_var
agent
broadcast_cluster
jobname_new
jobclass_new
msgclass_new
jcl_location
jcl
parameters
exit_code_processing *
exit_codes
exit_code_text
exit_code_output
output_type *
schedule_id
proclib_name
output_return_type *
output_return_file
output_return_sline
output_return_nline
output_return_text
```

Fixed Type Values *	<p>Valid exit_code_processing types: Success Exitcode Range (1) Failure Exitcode Range (2) Success Output Contains (3) Failure Output Contains (4)</p> <p>Valid output_types: STDOUT (1) STDERR (2) FILE (3)</p> <p>Valid output_return_types: NONE (1) STDOUT (2) - Windows and Linux/Unix only STDERR (3) - Windows and Linux/Unix only FILE (4) JOBLLOG (5) - z/OS only OUTERR (6) - Windows and Linux/Unix only</p> <p>Valid command_or_script types: Command (1) Script (2)</p> <div style="background-color: #ffffcc; padding: 10px; border: 1px solid #ccc;"> <p> Note If command_or_script = 1, you must specify a command; if command_or_script = 2, you must specify a script.</p> </div>
XML Response Example	<pre style="border: 1px solid #ccc; padding: 10px;"> <command-response> <type>create_task</type> <success>true</success> <info /> <errors /> </command-response></pre>
Error(s)	HTTP/1.1 404 Not Found

Launch a Task

Property	Description
URI	http://host_name/opswise/resources/task/ops-task-launch
HTTP Method	POST
Description	Launches the specified task. Variables optional.
Authentication	HTTP Basic
Consumes Content-Type	application/xml
Produces Content-Type	application/xml

XML Request Example	<pre><task-launch> <name>Sleep 0</name> <variables> <variable> <name>testVariable</name> <value>Hello</value> </variable> </variables> </task-launch></pre>
XML Response Example	<pre><command-response> <type>launch</type> <success>true</success> <info>Successfully launched the Sleep task Sleep 0 with Execid f505b243c0a801af0026913343d8dcfa.</info> <errors /> </command-response></pre>
Error(s)	HTTP/1.1 404 Not Found