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Opswise Controller 6.1.x

Remote Interfaces

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Remote Interfaces



Command Line Interface (CLI)



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Command Line Interface (CLI)

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Overview

The Opwise Command Line Interface (CLI) is implemented as a set of commands that perform specific actions in an Opwise Controller. The results of the actions are written to the CLI commands standard output.

Platforms

For all supported platforms, the CLI is included in the Opwise Universal Agent 5.2.0 package.

Since the network communications provider between a 5.2.0 Agent and a pre-6.1.x Controller could be the Message Hub and Transporter,

support for the Message Hub and Transporter still is included in the CLI.

UNIX	<p>The CLI commands are installed in the following directory:</p> <ul style="list-style-type: none"> • /CLI_HOME/bin <p>Replace CLI_HOME with the directory in which the Agent components are installed.</p>
Windows	<p>The CLI commands are installed in the following directory:</p> <ul style="list-style-type: none"> • DRIVE:\CLI_HOME\bin <p>Replace:</p> <ul style="list-style-type: none"> • DRIVE with the drive they are installed on. Add the appropriate directory for your O/S to your PATH environment variable in order to execute the commands without specifying their full path name. • CLI_HOME with the directory in which the Agent components are installed.
z/OS	<p>The CLI is implemented with a single program, UAGCMDZ. UAGCMDZ with alias OPSCMDZ is installed in the SUNVLOAD library as part of the Opwise Universal Agent for z/OS Installation package.</p>

Modifying Variables

Currently, the CLI only supports modifying global variables, trigger variables, and task definition variables (see [User-Defined Variables](#)).

Modifying a task definition variable does not impact any existing task instances of that task. When the next task instance is created from the updated task definition, the new task instance will use the updated variable.

To modify a variable in a workflow (or task), you can create a [Set Variable](#) action.

Command Parameters

Each CLI command includes two types of parameters:

1. [Global parameters](#) are the same for every command. There are required and optional Global parameters.
2. [Command-specific parameters](#) are either unique to a single command or used by multiple, but not all, commands. There are required and optional command-specific parameters.

Global Parameters

The CLI provides the following Global parameters for use with any [command](#):

- [Configuration File](#)
- [Encrypted File](#)
- [Encrypted File Key](#)
- [Help](#)
- [Message Hub](#)
- [OMS NFT](#)
- [OMS Servers](#)
- [Password](#)
- [Timeout](#)
- [Transporter](#)
- [SSL](#)
- [User ID](#)
- [Version](#)

[Commands](#) can execute on any system that has TCP/IP connectivity to the Opwise Message Service (OMS). You must use the required Global parameters to connect to OMS ([Network Provider](#) and [OMS Servers](#)) and to log on to a Controller ([User ID](#) and [Password](#)).

Three methods are available for specifying global parameters:

1. [Configuration file](#) (`cmdtools.props`)
2. [Command line](#)
3. [Environment variables](#)

The following information is provided for each Global parameter:

- Description
- Syntax for specifying the parameter for each method (configuration file, command line, environment variable).
- Requirement to use the parameter.
- Default value (if any).
- Example

Configuration File

Description	Configuration file containing one or more Global parameters. You can specify a configuration file and/or individual global parameters on the command line.
Configuration File Syntax	n/a
Command Line Syntax	-c
Environment Variable Syntax	n/a
Required	No
Default	(none)
Example	<code>cmdtools.props</code>

Encrypted File

Description	<p>Complete path to a file encrypted with the Universal Encrypt utility that contains encrypted user credentials.</p> <p>This file can be used to store encrypted Controller credentials that would otherwise be specified using the User ID or Password parameters. One or both of these parameters can be encrypted and stored in this file. Any other command line parameters stored in the encrypted file are ignored.</p> <p>Any values specified by User ID or Password on the command line and/or in the configuration file will override values stored in this file.</p> <div style="background-color: #ffffcc; padding: 10px; margin-top: 10px;"> <p> Note Universal Encrypt is included in every Agent installation package.</p> </div>
Configuration File Syntax	n/a
Command Line Syntax	-x
Environment Variable Syntax	n/a
Required	No
Default	(none)
Example	

Encrypted File Key

Description	Optional key that was passed to the Universal Encrypt utility when the encrypted file specified by <code>-x</code> was created.
Configuration File Syntax	n/a
Command Line Syntax	-k
Environment Variable Syntax	n/a
Required	No
Default	(none)

Example**Help**

Description	Provides help information for any command.
Configuration File Syntax	n/a
Command Line Syntax	-h -?
Environment Variable Syntax	n/a
Required	No
Default	(none)
Example	-h

**Note**

This parameter is exclusive; do not use it with any other parameter. If you do, only the Help information will be returned.

Message Hub

Description	<p>Queue name for the Message Hub.</p> <p>You can access this information from the Opwise Controller 5.2.0 user interface:</p> <ul style="list-style-type: none"> From the navigation pane, select Automation Center Resources > Connectors to display the Connectors List screen. Locate the Queue for the Message Hub.
Configuration File Syntax	network.core
Command Line Syntax	-n
Environment Variable Syntax	HUBNAME
Required	Yes (if Network Provider is TRANSPORT)
Default	HUB01
Example	HUB01

**Note:**

If the Message Hub parameter is not contained in the configuration file or specified on the command line, the CLI will attempt to get its value from the HUBNAME environment variable.

Network Provider

Description	<p>Network communication provider used by the command to communicate with Opwise Controller.</p> <p>There are two network providers:</p> <ul style="list-style-type: none"> TRANSPORT specifies that the pre-5.2.0 Opwise Controller network provider is used: the Transporter. OMS specifies that Opwise Message Service (OMS) is used. <p>If Network Provider is set to TRANSPORT, the Message Hub and Transporter parameters are used to configure the Transport network provider.</p> <p>If Network Provider is set to OMS, the OMS Servers parameter is used to configure the OMS network provider.</p>
Configuration File Syntax	network.provider

Command Line Syntax	-r
Environment Variable Syntax	NETPROVIDER
Required	Yes (if you want to specify OMS Servers)
Default	TRANSPORT
Example	

OMS NFT

Description	<p>Specification (yes or no) for whether or not to use NFT (network fault tolerance) for OMS.</p> <p>If NFT is not used:</p> <ul style="list-style-type: none"> • A command execution will attempt to connect to each specified OMS Servers. If no connection can be made, the command will fail with a non-zero exit code (2). • If a network error occurs after a connection to an OMS server is made, the command will fail with a non-zero exit code (2).
Configuration File Syntax	network.omsnft
Command Line Syntax	-f
Environment Variable Syntax	OMSNFT
Required	No
Default	yes
Example	

OMS Servers

Description	<p>Specifies one or more OMS server addresses used for network communication.</p> <p>The syntax of the value is PORT@HOST[,PORT@HOST...], where:</p> <ul style="list-style-type: none"> • PORT is the TCP port on which the OMS server is listening. The OMS default port is 7878. • HOST is the host name or IP address of the OMS server. <p>If multiple OMS servers are specified, they must be comma-separated.</p>
Configuration File Syntax	network.omsservers
Command Line Syntax	-m
Environment Variable Syntax	OMSSERVERS
Required	Yes (if Network Provider is OMS)
Default	
Example	oms_servers 7878@dallas01.acme.com,7878@dallas02.acme.com

Password

Description	Password that the CLI will use to log into the Controller. Must be a valid password for this user.
Configuration File Syntax	security.password
Command Line Syntax	-p
Environment Variable Syntax	n/a
Required	Yes
Default	(none)

Example	o
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SSL

Description	Specification (by its inclusion on the command line) for whether or not to enable SSL.
Configuration File Syntax	n/a
Command Line Syntax	-s
Environment Variable Syntax	n/a
Required	No
Default	(none)
Example	-s

Timeout

Description	Time (in seconds) that the CLI will wait before it reports an error.
Configuration File Syntax	config.timeout
Command Line Syntax	-o
Environment Variable Syntax	n/a
Required	No
Default	60
Example	10

Transporter

Description	<p>Port and machine name (host name or IP address) where the Transporter is running.</p> <p>You can access this information from the Opwise Controller 5.2.0 user interface:</p> <ol style="list-style-type: none"> 1. From the navigation pane, select Automation Center Resources > Connectors to display the Connectors list screen. 2. Click the Connector Name for the Transporter that was specified in the network configuration to display its details, including the Port, Host Name, and IP Address. <p>Provide this information in either of the following formats:</p> <ul style="list-style-type: none"> • Port@Host Name • Port@IP Address
Configuration File Syntax	network.transports
Command Line Syntax	-t
Environment Variable Syntax	TSPNAME
Required	Yes (if Network Provider is TRANSPORT)
Default	(none)
Example	4803@localhost

**Note:**

If the Transporter parameter is not contained in the configuration file or specified on the command line, the CLI will attempt to get its value from the `TSPNAME` environment variable.

User ID

Description	User ID that the CLI will use to log into the Controller. Must be a valid user with the appropriate permissions defined in the Controller database using the Controller Security module.
Configuration File Syntax	security.userid
Command Line Syntax	-u
Environment Variable Syntax	n/a
Required	Yes
Default	(none)
Example	ops.admin

Version

Description	Displays version information for the CLI.
Configuration File Syntax	n/a
Command Line Syntax	-v
Environment Variable Syntax	n/a
Required	No
Default	(none)
Example	-v

**Note**

If this parameter is specified, all other command parameters (except [Help](#)) are ignored.

Using the Configuration File

The following is the command line syntax for using a configuration file to pass [Global parameters](#) into your command:

```
command -c filename command-specific parameter(s)
```

For example:

```
ops-task-status -c c.cfg task-name=mantask
```

**Note**

A sample CLI configuration file (`cmdtools.props`), created during the installation of the CLI (an optionally installed component of Opwise Universal Agent), is provided for your use. However, you can create a configuration file with any name; it must exist in the directory from where you are issuing the commands.

Using the Command Line

The following is the command line syntax for specifying individual [Global parameters](#) on the command line to pass them into your command:

```
command -r network provider -m OMS Server -u user id -p password [-o timeout] command-specific
parameter(s)
```

For example:

```
ops-task-status -r OMS -m 7878@dallas01.acme.com -u ops.admin -p o -o 10 task-name=mantask
```

Using Environment Variables

The following is the command line syntax for specifying Environmental Variables (and individual [Global parameters](#)) on the command line to pass them into your command:

```
command NETPROVIDER=network provider OMSSERVERS=OMS Server -u user id -p password [-o timeout]
command-specific parameter(s)
```

For example:

```
ops-task-status NETPROVIDER=OMS OMSSERVERS=7878@dallas01.acme.com -u ops.admin -p o -o 10
task-name=mantask
```

User Restriction

You can be restricted from logging in to the CLI either of two ways:

1. The system level default for CLI access, specified by the [System Default Command Line Access](#) Opwise Controller system property, has been set to **No**, and the **Command Line access** field on the [User Definition screen](#) for your user account is set to **-- System Default --**.
2. The **Command Line access** field is set to **No**, which overrides the **System Default Command Line Access** value.

If either restriction is in place, the following error message will display when you issue a CLI command:

```
User <your user name> not permitted to use the command line interface. Please check with your
administrator.
```

To remove the restriction, the system administrator must either:

- Set the System Default Command Line Access property to **Yes** and set the **Command Line access** field on the User Definition screen

- for your user account to **-- System Default --**.
- Set the **Command Line access** field on the User Definition screen for your user account to **Yes**.

Password Expiration

While a password is [expired](#), CLI access will be prohibited until the password has been changed.



Note

Password expiration is not applicable to LDAP authenticated users.

Return Codes

The following table identifies all return codes that can be returned in response to a command:

Return Code	Description
0	Completed successfully.
1	Configuration error (incorrect command line or configuration file options).
2	Error processing the request.

Using the Command Line Interface in z/OS

All Opwise Controller commands are supported in the z/OS environment. They are managed and executed by the program UAGCMDZ with alias OPSCMDZ, which may execute as either a command processor or a standard z/OS batch job. OPSCMDZ is installed with the z/OS agent in library SUNVLOAD.

z/OS-Specific Syntax Requirements

The commands and syntax requirements for the z/OS environment are very similar to the other supported platforms with a few exceptions described below.

Command Line Options

When `OPSCMDZ` is executed as a batch program, command line parameters are specified with the step PARM keyword.

For example:

```
//STEP01 EXEC PGM=OPSCMDZ,
// PARM='ops-agent-status -c dd:CMDOPTS agent-type=windows'
```

Configuration File Syntax

If you use the `-c` command line parameter for specifying a configuration file on the command line, you must use one of the following formats for the configuration file name:

Format	Syntax	Description
ddname	<code>-c dd:ddname</code>	<i>ddname</i> references a DD statement that exists in your batch JCL.
Data Set Name	<code>-c " / / ' dsname ' "</code>	<i>dsname</i> is a fully-qualified data set name which may be a partitioned data set with a member name.

Line Numbers in Configuration File

Do not place line numbers in columns 73-80. The entire 80-byte record is read and processed as input.

Methods for Issuing Opwise Controller Commands in z/OS

Three methods are available for running OPSCMDZ and executing Opwise Controller commands:

1. Using a batch job.
2. Under a TSO session.
3. Using a batch TSO Terminal Monitor Program (TMP).

In each example where data sets are specified, we use:

UNV.SUNVLOAD	Library containing the CLI programs UAGCMDZ and OPSCMDZ alias.
USER.PARM	Data set containing command options.
USER.REXX	Data set containing user REXX EXECs.

Running Opwise Controller Commands in a Batch Job

The CLI program OPSCMDZ executes a single Opwise Controller command as a JCL batch job step. If multiple commands are to be executed, run each one as an individual job step.

The following example illustrates running OPSCMDZ as a batch job to request the status of all Windows Agents.

```
//jobname JOB (acctg-info), 'your name',MSGCLASS=X,MSGLEVEL=(1,1),
//          CLASS=A,NOTIFY=&SYSUID
//*
//STEP01 EXEC PGM=OPSCMDZ,
// PARM='ops-agent-status -c dd:CMDOPTS agent-type=windows'
//STEPLIB DD DISP=SHR,DSN=UNV.SUNVLOAD
//SYSPRINT DD SYSOUT=*
//SYSOUT DD SYSOUT=*
//CMDOPTS DD DSN=USER.PARM(CMDOPTS),DISP=SHR
//CEEDUMP DD SYSOUT=*
```

Here is a break-down of this example:

- The step PARM value specifies the CLI command and its options.
- The job step can include only one Opwise Controller command.
- The STEPLIB points to the z/OS Agent load library.
- The command output will be in SYSPRINT.
- CMDOPTS is a DDNAME that references the location of the command parameters.

Issuing Commands under TSO

You can also issue Opwise commands under a TSO session.

The sample command string below shows an Opwise Controller command issued from an ISPF Command Shell prompt:

```
Enter TSO or Workstation commands below:
===> opscmdz ops-agent-status -c "'USER.PARM(CMDOPTS)'" agent-type=windows
```

The above command will return data similar to the sample below:

```
Agentname           AgentType   Status
agent-sys00101      Windows    Active
agent-sys00201      Windows    Offline
opscmd-complete
```

Issuing Commands as a Batch TSO

The following two examples show how to issue an Opwise Controller command in a batch TSO.

Example One

```
//CMDZBAT JOB (acctg-info),'your name',MSGCLASS=X,MSGLEVEL=(1,1),
//          CLASS=A,NOTIFY=&SYSUID,TIME=5
//*
//STEP01 EXEC PGM=IKJEFT01,DYNAMNBR=200,REGION=40M
//STEPLIB DD DISP=SHR,DSN=UNV.SUNVLOAD
//SYSPRINT DD SYSOUT=*
//SYSOUT DD SYSOUT=*
//SYSTSPRT DD SYSOUT=*
//CMDOPTS DD DSN=USER.PARM(CMDOPTS),DISP=SHR
//SYSTSIN DD *
opscmdz ops-agent-status -c dd:CMDOPTS agent-type=windows
/*
```

Output will be in SYSTSPRT.

Example Two

```
//REXXAGNT JOB (acctg-info),'your name',MSGCLASS=X,MSGLEVEL=(1,1),
//          CLASS=A,NOTIFY=&SYSUID,TIME=5
//*
//STEP01 EXEC PGM=IKJEFT01,DYNAMNBR=200,REGION=40M
//STEPLIB DD DISP=SHR,DSN=UNV.SUNVLOAD
//SYSEXEC DD DSN=USER.REXX,DISP=SHR
//SYSPRINT DD SYSOUT=*
//SYSTSPRT DD SYSOUT=*
//CMDOPTS DD DSN=USER.PARM(CMDOPTS),DISP=SHR
//SYSTSIN DD *
%OUTTRAP1
/*
```

The following REXX EXEC must be located in USER.REXX(OUTTRAP1):

```
/****** REXX *****/
/* Using OUTTRAP to */
/* (1) Obtain z/OS agent status */
/* (2) Test status from the command response */
/* (3) Launch a task if the agent status is Active */
/*******/
x = OUTTRAP('OPS.')
opscmdz "ops-agent-status -c dd:CMDOPTS agent-type=z/OS"
SAY 'RC is:' RC
SAY OPS.0 'records were read.'
launch = 'NO'
DO i = 1 to OPS.0 WHILE launch = 'NO'
  IF SUBSTR(OPS.i,61,6) = 'Active' THEN
    DO
      launch = 'YES'
      opscmdz "ops-task-launch -c dd:CMDOPTS task-name=DUMPT"
    END
  END
DO i = 1 to OPS.0
  SAY OPS.i
END
y = OUTTRAP('OFF')
```

Commands

The following tables provide the command line syntax and description for all CLI commands. A description of the command-specific parameters available for each command is listed below its command line syntax.

The commands are listed alphabetically within the following categories:

- Agents
- Import and Export
- Passwords
- Resources
- Tasks
- Triggers
- Variables

Agents

List Agents Status

Description	Lists the status of one or more Agents.
Syntax	<code>ops-agent-status [agent-name=name] agent-type=type [options=v]</code>
Parameters	<ul style="list-style-type: none"> • <code>agent-name=</code> Optional; Name or partial name of one or more Agents. Wildcards are supported. • <code>agent-type=</code> Required; One of the following (not case sensitive): windows, unix, linux, linux/unix, zos, z/os. • <code>options=</code> Optional; v (Return verbose results.)
Example	<pre>ops-agent-status -c config.txt agent-type=windows</pre>

Resume Agent

Description	Resumes the ability of the identified Agent to run tasks.
Syntax	<code>ops-resume-agent {agent-name=name agent-id=id}</code>
Parameters	<ul style="list-style-type: none"> • <code>agent-name=</code> Required if <code>agent-id=</code> is not specified; Agent name of the Agent whose ability to run tasks is to be resumed (<code>agent-name=</code> and <code>agent-id=</code> are mutually exclusive). • <code>agent-id=</code> Required if <code>agent-name=</code> is not specified; Agent ID of the Agent whose ability to run tasks is to be resumed (<code>agent-id=</code> and <code>agent-name=</code> are mutually exclusive).

Resume Agent Cluster

Description	Resumes the ability of the identified Agent Cluster to run tasks.
Syntax	<code>ops-resume-agent-cluster agent-cluster-name=name</code>
Parameter	<ul style="list-style-type: none"> • <code>agent-cluster-name=</code> Required; Agent cluster name of the Agent Cluster whose ability to run tasks is to be resumed.

Resume Agent Cluster Membership

Description	Resumes the membership of the identified Agent in the identified Agent Cluster.
Syntax	<code>ops-resume-agent-cluster-membership {agent-name=name agent-id=ID} agent-cluster-name=name</code>
Parameters	<ul style="list-style-type: none"> • <code>agent-name=</code> Required if <code>agent-id=</code> is not specified; Agent name of the Agent whose membership in the Agent Cluster is to be resumed (<code>agent-name=</code> and <code>agent-id=</code> are mutually exclusive). • <code>agent-id=</code> Required if <code>agent-name=</code> is not specified; Agent ID of the Agent whose membership in the Agent Cluster is to be resumed (<code>agent-id=</code> and <code>agent-name=</code> are mutually exclusive). • <code>agent-cluster-name=</code> Required; Agent cluster name of the Agent Cluster in whose membership the identified Agent is to be resumed.

Set Agent Cluster Task Execution Limit

Description	Specifies whether or not an Agent Cluster has a task execution limit and, if so, sets the task execution limit.
Syntax	<code>ops-set-agent-cluster-task-execution-limit agent-cluster-name=name limit-type=type limit-amount=number</code>
Parameters	<ul style="list-style-type: none"> <code>agent-cluster-name=</code> Required; Name of the Agent Cluster. <code>limit-type=</code> Required; Specification for whether or not there is a limit to the number of tasks that can be run at the same time by the Agent Cluster. Allowable values (not case sensitive) are: limited, unlimited. <code>limit-amount=</code> Required if <code>limit-type=limited</code>; Maximum number of tasks that can be run at the same time by the Agent Cluster.

Set Agent Task Execution Limit

Description	Specifies whether or not an Agent has a task execution limit and, if so, sets the task execution limit.
Syntax	<code>ops-set-agent-task-execution-limit {agent-name=name agent-id=ID} limit-type=type limit-amount=number</code>
Parameters	<ul style="list-style-type: none"> <code>agent-name=</code> Required if <code>agent-id=</code> is not specified; Name of the Agent (<code>agent-name=</code> and <code>agent-id=</code> are mutually exclusive). <code>agent-id=</code> Required if <code>agent-name=</code> is not specified; ID of the Agent (<code>agent-id=</code> and <code>agent-name=</code> are mutually exclusive). <code>limit-type=</code> Required; Specification for whether or not there is a limit to the number of tasks that can be run concurrently by the Agent. Allowable values (not case sensitive) are limited, unlimited. <code>limit-amount=</code> Required if <code>limit-type=limited</code>; Maximum number of tasks that can be run at the same time by the Agent.

Suspend Agent

Description	Suspends the ability of the identified Agent to run tasks.
Syntax	<code>ops-suspend-agent {agent-name=name agent-id=ID}</code>
Parameters	<ul style="list-style-type: none"> <code>agent-name=</code> Required if <code>agent-id=</code> is not specified; Agent name of the Agent whose ability to run tasks is to be suspended (<code>agent-name=</code> and <code>agent-id=</code> are mutually exclusive). <code>agent-id=</code> Required if <code>agent-name=</code> is not specified; Agent ID of the Agent whose ability to run tasks is to be suspended (<code>agent-id=</code> and <code>agent-name=</code> are mutually exclusive).

Suspend Agent Cluster


Description	Suspends the ability of the identified Agent Cluster to run tasks.
Syntax	<code>ops-suspend-agent-cluster agent-cluster-name=name</code>
Parameter	<ul style="list-style-type: none"> <code>agent-cluster-name=</code> Required; Agent cluster name of the Agent Cluster whose ability to run tasks is to be suspended.

Suspend Agent Cluster Membership

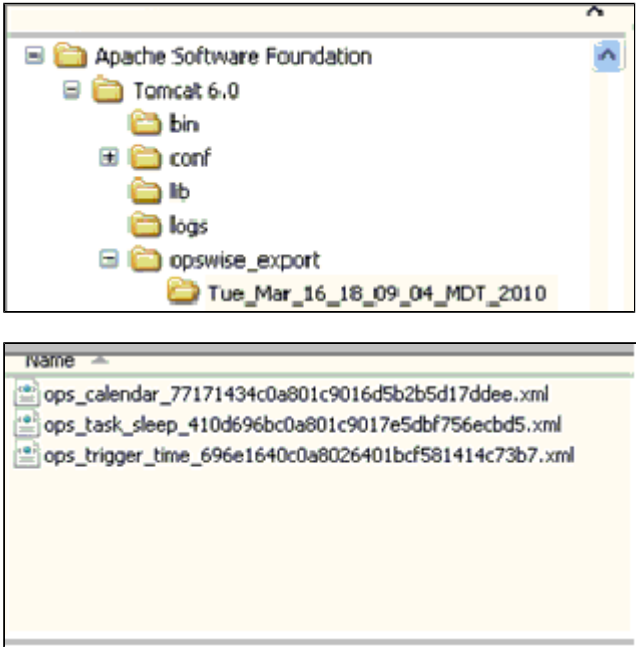
Description	Suspends the membership of the identified Agent in the identified Agent Cluster.
Syntax	<code>ops-suspend-agent-cluster-membership {agent-name=name agent-id=ID} agent-cluster-name=name</code>
Parameters	<ul style="list-style-type: none"> • <code>agent-name=</code> Required if <code>agent-id=</code> is not specified; Agent name of the Agent whose membership in the Agent Cluster is to be suspended (<code>agent-name=</code> and <code>agent-id=</code> are mutually exclusive). • <code>agent-id=</code> Required if <code>agent-name=</code> is not specified; Agent ID of the Agent whose membership in the Agent Cluster is to be suspended (<code>agent-id=</code> and <code>agent-name=</code> are mutually exclusive). • <code>agent-cluster-name=</code> Required; Agent cluster name of the Agent Cluster in whose membership the identified Agent is to be suspended.

Import and Export


Export Bulk

Description	<p>Performs a bulk export of all records in your Controller database.</p> <p>The location of the export is specified by the Export Path (<code>opwise.export.path</code>) Opwise Controller system property.</p> <p>The default directory, where <code>tomcat-home></code> is the base Tomcat installation directory, is either:</p> <ul style="list-style-type: none"> • <code>tomcat-home>/opwise_export</code> • <code>tomcat-home\opwise_export</code> <p>Each export creates a sub-directory under the specified path in the following format:</p> <p>WWW_MMM_DD_HH_MM_SS_TZ_YYYY-BULK_EXPORT</p> <ul style="list-style-type: none"> • WWW: 3-Letter Weekday • MMM: 3-Letter Month • DD: Day • HH: Hour • MM: Minute • SS: Second • TZ: Time Zone • YYYY: 4-Digit Year <div style="background-color: #ffffcc; padding: 10px; margin-top: 10px;"> <p> Note Export Bulk performs a similar function as the Bulk Export Server Operation , but not Bulk Export with Versions.</p> </div>
Syntax	<code>ops-export-bulk</code>
Example	<pre>ops-export-bulk -c config.txt</pre>

Export Trigger


Description	<p>Performs an export of the specified trigger(s) and all the associated record(s). For example, if you export one trigger, the CLI also exports the calendar used in the trigger and all tasks launched by the trigger. The CLI creates a separate XML file for each record type and generates the output directory and file names using a date and timestamp, plus an internal record identifier generated by the Controller.</p> <p>All exported XML definition files will be saved to a timestamped directory under the path defined by the Export Path Opwise Controller system property. The following illustrates a sample output directory and exported data:</p> 
Syntax	<code>ops-export-trigger trigger-name=name [trigger-type=type]</code>
Parameters	<ul style="list-style-type: none"> • <code>trigger-name=</code> Required; Name of one or more triggers. Wildcards are supported. • <code>trigger-type=</code> Optional; If you used a wildcard in trigger-name, you can use trigger-type to narrow down the selection to a specific type of trigger. Allowable values are (not case sensitive): cron, time, file_trigger, temporary, task_monitor, manual, application_monitor.
Example	<p>This example exports all triggers whose name begins with SF:</p> <pre>ops-export-trigger -c c.cfg trigger-name=SF*</pre>

Import Bulk

Description	<p>Performs a bulk import of records into your Controller database.</p> <p>The location from where records are imported is specified by the System Default CLI Bulk Import Path (<code>opwise.bulk_import.path.default</code>) Opwise Controller system property.</p> <p>The default directory, where <code>tomcat-home></code> is the base Tomcat installation directory, is either:</p> <ul style="list-style-type: none"> • <code>tomcat-home>/opwise_import</code> • <code>tomcat-home\opwise_import</code> <div style="background-color: #ffffcc; padding: 5px;"> <p> Note The data being imported must have been exported using the Export Bulk command.</p> </div>
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Syntax	<code>ops-import-bulk</code>
Example	<pre>ops-import-bulk -c config.txt</pre>

Import Trigger


Description	Imports into your Opswise database the trigger records in the path specified in the <code>import-file=</code> parameter.
Syntax	<code>ops-import-trigger import-file=file</code>
Parameter	<ul style="list-style-type: none"> <code>import-file=</code> Required; Path containing one or more XML files that were exported via ops-export-trigger or via the Opswise Controller user interface using the Export -> XML feature. <div style="background-color: #ffffcc; padding: 10px; margin-top: 10px;"> <p> Note This is the path on the Controller server where the XML files are stored, not a local path to where the command is run.</p> </div>

Passwords

Change User Password

Description	Changes the password for the specified Opswise Controller User account.
	<div style="background-color: #ffffcc; padding: 10px; margin-top: 10px;"> <p> Note The authenticated user must have the <code>ops_admin</code> user role.</p> </div>
Syntax	<code>ops-change-user-password user-id=userid new-password=password</code>
Parameters	<ul style="list-style-type: none"> <code>user-id=</code> Required; Opswise Controller User ID whose password is to be changed. <code>new-password=</code> Required; The new password that is to be assigned to the specified user.

Change Credentials Password

Description	Changes the runtime password for the specified Opswise credentials resource.
	<div style="background-color: #ffffcc; padding: 10px; margin-top: 10px;"> <p> Note The authenticated user must have the Update Credential permission.</p> </div>
Syntax	<code>ops-change-credentials-password credentials-name=name new-runtime-password=password</code>

Parameters	<ul style="list-style-type: none"> • <code>credentials-name=</code> Required; Name of the Opwise credentials resource that is to have its password changed. • <code>new-runtime-password=</code> Required; The new runtime password that is to be assigned to the specified credentials resource.
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Resources

Update Resource Limit

Description	Updates the resource limit for a resource.
Syntax	<code>ops-update-resource-limit resource-name=name resource-limit=limit</code>
Parameters	<ul style="list-style-type: none"> • <code>resource-name=</code> Required; Name of resource to update the limit on. • <code>resource-limit=</code> Required; Resource limit (any integer ≥ 0).

Tasks

Cancel Task

Description	<p>Cancels the specified task instance.</p> <p>See Cancelling a Task Instance for a description of behavior and restrictions.</p>
Syntax	<code>ops-task-cancel task-instance=ID</code>
Parameter	<ul style="list-style-type: none"> • <code>task-instance=</code> Required; An internal Opwise Controller identifier.

Display All Tasks

Description	Displays all specified tasks.
Syntax	<code>ops-task-list task-name=name [task-type=type]</code>
Parameters	<ul style="list-style-type: none"> • <code>task-name=</code> Optional; Name or partial name of one or more tasks. Wildcards are supported. • <code>task-type=</code> Optional; One of the following (not case sensitive): timer, windows, Unix, zos, file_monitor, manual, email, ftp, sql, ftp_file_monitor, task_monitor, stored_procedure, workflow, sap, system_monitor, indesca, application_control.

Display Task Instances Status

Description	Displays the status of all task instance(s) associated with the specified task.
Syntax	<code>ops-task-status task-name=name [task-type=type] [task-status=status] [options=v]</code>

Parameters	<ul style="list-style-type: none"> • <code>task-name=</code> Required; Name or partial name of one or more tasks. Wildcards are supported. • <code>task-type=</code> Optional; One of the following (not case sensitive): timer, windows, unix, zos, file_monitor, manual, email, ftp, sql, ftp_file_monitor, task_monitor, stored_procedure, workflow, sap, system_monitor, indesca, application_control • <code>task-status=</code> Optional; not case sensitive. Any valid task status. • <code>options=</code> Optional; v (Return verbose results.)
Example	<pre>ops-task-status -c c.cfg task-name=mantask</pre>

Force Finish a Task

Description	Force finishes the specified task instance . See Force Finishing a Task Instance for a description of behavior and restrictions.
Syntax	ops-task-forcefinish <code>task-instance=ID</code>
Parameter	<ul style="list-style-type: none"> • <code>task-instance=</code> Required; An internal Opwise Controller identifier.

Launch a Task

Description	Launches the specified task(s) . Wildcards are supported.
Syntax	ops-task-launch [<code>task-type=type</code>] <code>task-name=name</code> [<code>task-variables=_variables</code>]
Parameters	<ul style="list-style-type: none"> • <code>task-type=</code> Optional; One of the following (not case sensitive): timer, windows, unix, zos, file_monitor, manual, email, ftp, sql, ftp_file_monitor, task_monitor, stored_procedure, workflow, sap, system_monitor, indesca, application_control • <code>task-name=</code> Required; Valid task name. • <code>task-variables=</code> Optional; Any variables specified in the task that need a value to run properly.
Example	(All variable=value pairs must be specified within one set of braces.) <pre>task-variables={variable1=first value variable2=second value}</pre>

Put Task on Hold

Description	Puts the specified task instance on hold. See Putting a Task Instance on Hold for a description of behavior and restrictions.
Syntax	ops-task-hold <code>task-instance=ID</code>
Parameter	<ul style="list-style-type: none"> • <code>task-instance=</code> Required; An internal Opwise Controller identifier.

Example	<pre>ops-task-hold -c c.cfg task-instance=90079020d861e5e40128cbb3cdbe1cf3</pre>
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Release a Task from Hold

Description	<p>Releases the specified task instance from hold.</p> <p>See Releasing a Task Instance from Hold for a description of behavior and restrictions.</p>
Syntax	ops-task-release task-instance= <i>ID</i>
Parameter	<ul style="list-style-type: none"> task-instance= Required; An internal Opwise Controller identifier.
Example	<pre>ops-task-release -c c.cfg task-instance=90079020d861e5e40128cbb3cdbe1cf3</pre>

Rerun a Task

Description	<p>Reruns the specified Task instance.</p> <p>See Re-running a Task Instance for a description of behavior and restrictions.</p>
Syntax	ops-task-rerun task-instance= <i>ID</i>
Parameter	<ul style="list-style-type: none"> task-instance= Required; An internal Opwise Controller identifier.

Set Manual Task to Started

Description	<p>For a Manual task, changes its status from Action Required to Started. This allows you to acknowledge the Manual task and indicate that the manual procedures have been started.</p>
Syntax	ops-manual-setstarted task-instance= <i>ID</i>
Parameter	<ul style="list-style-type: none"> task-instance= Required; An internal Opwise Controller identifier.
Example	<pre>ops-manual-setstarted -c c.cfg task-instance=8fda93dcd861e5e4005bf48e2cad6206</pre>

Set Manual Task to Success

Description	<p>For a Manual task, sets its status to Success.</p>
Syntax	ops-manual-setcompleted task-instance= <i>ID</i>
Parameter	<ul style="list-style-type: none"> task-instance= Required; An internal Opwise Controller identifier.

Example	<pre>ops-manual-setcompleted -c c.cfg task-instance=8fda93dcd861e5e4005bf48e2cad6206</pre>
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Set Task Priority

Description	<p>For Agent-based tasks (Windows, Linux/Unix, or z/OS) in a status of Started, changes the priority on the specified task instance.</p> <p>See Changing the Priority of a Task Instance for a description of behavior and restrictions.</p>
Syntax	<code>ops-task-setpriority task-instance=ID priority=priority</code>
Parameters	<ul style="list-style-type: none"> task-instance= Required; An internal Opwise Controller identifier. priority= Required; One of the following (not case sensitive): high, medium, low.

Skip a Task

Description	<p>Skips the specified task instance.</p> <p>See Skipping a Task Instance for a description of behavior and restrictions.</p>
Syntax	<code>ops-task-skip task-instance=ID</code>
Parameter	<ul style="list-style-type: none"> task-instance= Required; An internal Opwise Controller identifier.
Example	<pre>ops-task-skip -c c.cfg task-instance=90079026d861e5e400bba81913a4fdd0</pre>

Triggers

Disable a Trigger

Description	Disables the specified trigger(s).
Syntax	<code>ops-trigger-disable trigger-name=name [trigger-type=type]</code>
Parameters	<ul style="list-style-type: none"> trigger-name= Name or partial name of one or more triggers. <i>Wildcards</i> are supported. trigger-type= Optional; If you used a wildcard in <code>trigger-name=</code>, you can use <code>trigger-type=</code> to narrow down the selection to a specific type of trigger. One of the following (not case-sensitive): cron, time, file_trigger, temporary, task_monitor, manual, application_monitor.

Enable a Trigger

Description	Enables the specified trigger(s).
Syntax	<code>ops-trigger-enable trigger-name=name [trigger-type=type]</code>

Parameters	<ul style="list-style-type: none"> • <code>trigger-name=</code> Name or partial name of one or more triggers. Wildcards are supported. • <code>trigger-type=</code> Optional; If you used a wildcard in <code>trigger-name=</code>, you can use <code>trigger-type=</code> to narrow down the selection to a specific type of trigger. One of the following (not case-sensitive): cron, time, file_trigger, temporary, task_monitor, manual, application_monitor.
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Launch Trigger Tasks Now

Description	Marks all conditions as satisfied in the specified trigger(s) and launches its associated tasks.
Syntax	<code>ops-trigger-now trigger-name=name [trigger-type=type] [trigger-variables=variables]</code>
Parameters	<ul style="list-style-type: none"> • <code>trigger-name=</code> Required; Name or partial name of one or more triggers. Wildcards supported. • <code>trigger-type=</code> Optional; If you used a wildcard in <code>trigger-name=</code>, you can use <code>trigger-type=</code> to narrow down the selection to a specific type of trigger. One of the following (not case-sensitive): cron, time, file_trigger, temporary, task_monitor, manual, application_monitor. • <code>trigger-variables=</code> Optional; Any variables specified in the task(s) being triggered that need a value to run properly.
Example	<p>All variable=value pairs must be specified within one set of braces:</p> <pre style="border: 1px solid #ccc; padding: 5px; margin: 10px 0;">trigger-variables={variable1=first value variable2=second value}</pre>

List Triggers Status

Description	Lists the status of the specified trigger(s). Possible statuses are Enabled or Disabled .
Syntax	<code>ops-trigger-status trigger-name=name [trigger-type=type] [trigger-status=status] [options=v]</code>
Parameters	<ul style="list-style-type: none"> • <code>trigger-name=</code> Name or partial name of one or more triggers. Wildcards are supported. • <code>trigger-type=</code> Optional; One of the following (not case-sensitive): cron, time, file_trigger, temporary, task_monitor, manual, application_monitor. • <code>trigger-status=</code> Optional; One of the following (not case sensitive): enabled, disabled. • <code>options=</code> Optional; v (Return verbose results.)


Variables

List Variables

Description	Lists the specified variable(s).
Syntax	<code>ops-variable-list variable-name=name variable-scope=scope [task-name=name] [trigger-name=name] [options=v]</code>

Parameters	<ul style="list-style-type: none"> • <code>variable-name=</code> Optional; Name or partial name of one or more variables. Wildcards are supported. • <code>variable-scope=</code> Optional; One of the following (not case sensitive): global (default), task, trigger, local (task or trigger). Defines the type of variable being listed. A global variable is created independently by selecting Variables from the Opwise Controller user interface navigator. A trigger variable is attached to a trigger; a task variable is attached to a task. A local variable can be either a task or trigger variable. • <code>task-name=</code> Required if <code>variable-scope=task</code>; A single task name. • <code>trigger-name=</code> Required if <code>variable-scope=trigger</code>; A single trigger name. • <code>options=</code> Optional; v (Return verbose results.)
Example	<pre>ops-variable-list -c c.cfg variable-name=abc variable-scope=global</pre>

Set Variables

Description	Sets the specified variable.
Syntax	<code>ops-variable-set variable-name=name variable-scope=scope variable-value=string [variable-description=description] [task-name=name] [trigger-name=name] create=option</code>
Parameters	<ul style="list-style-type: none"> • <code>variable-name=</code> Required; Name of a specific variable. The name must begin with an alphabetic character and can consist of: alphabetic characters (a-z, A-Z), numbers (0-9), _ (underscore). White spaces are not permitted; names are not case-sensitive. • <code>variable-scope=</code> Optional; One of the following (not case sensitive): global (default), task, trigger. In cases where there may be more than one occurrence of the specified variable, <code>variable-scope=</code> defines which one should be set. A global variable is created independently by selecting Variables from the Opwise Controller user interface navigation pane. A trigger variable is attached to a trigger; a task variable is attached to a task. • <code>variable-value=</code> Required; String that will become the value of the specified variable. UTF-8 character set is supported. • <code>variable-description=</code> Optional; Description of the variable. • <code>task-name=</code> Required if <code>variable-scope=task</code>; A single task name. • <code>trigger-name=</code> Required if <code>variable-scope=trigger</code>; A single trigger name. • <code>create=</code> Required; Specification (yes or no) for whether or not a new variable may be created for this request.
Example	<pre>ops-variable-set -c c.cfg variable-name=myvar1 variable-value=mydata1 create=yes</pre> <div style="background-color: #ffe6e6; padding: 10px; margin-top: 10px;"> <p> Warning CLI only supports modifying certain types of variables - see Modifying Variables, above.</p> </div>

RESTful Web Services API

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Overview

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

- Request a list of agents
- Resume agent
- Resume agent cluster
- Resume agent cluster membership
- Set agent task execution limit
- Set agent cluster task execution limit
- Suspend agent
- Suspend agent cluster
- Suspend agent cluster membership
- Change an Opwise Controller user password
- Change a runtime password on credentials
- Set a limit on a virtual resource
- Create a task (Windows, Linux/Unix, or z/OS)
- Launch a task
- Query a list of tasks
- Trigger a task
- Create a Temporary trigger
- Enable/Disable a trigger
- Query a list of triggers
- List variables
- Set variables

Formatting specifications for each of these web services, including details about field requirements, are provided [below](#).

Access

Access to the Controller requires basic HTTP authentication over HTTPS.

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.

Returned Messages

The following table identifies the status codes (part of the HTTP/1.1 standard) that can be returned.

Status Code	Description
200	Success
401	User does not have authorization (password identification failure).
403	User does not have permission to access Web Services. Access options are set via: <ul style="list-style-type: none"> • System Default Web Service Access Opwise Controller system property. • User Details (Web Service Access field)
404	Resource not found.
500	All other errors. For List Variables , 500 is returned if the Web Service fails due to invalid parameters. (A status description also is returned.)

Any other failure status codes may be returned by the underlying RESTful services. Most resources (Controller records) are returned as XML.

You can check status codes in the [Audits](#) and the [opwise.log](#) file to determine the cause if their Web Service client is not displaying the error message that comes back with the response.

User Restriction

You can be restricted from logging in to the RESTful Web Services API either of two ways:

1. The system level default for RESTful Web Services API access, specified by the [System Default Web Service Access](#) Opwise Controller system property, has been set to **No**, and the [Web Service Access](#) field in the [User Details](#) for your user account is set to **-- System Default --**.
2. The [Web Service Access](#) field is set to **No**, which overrides the [System Default Web Service Access](#) value.

If either restriction is in place, the following error message will be written to the [Audits](#) table and the [opwise.log](#) file when you attempt to access the RESTful Web Services API:

```
User <your user name> not permitted to use Web Services. Please check with your administrator.
```

To remove the restriction, the system administrator must either:

- Set the System Default Web Service Access property to **Yes** and set the **Web Service access** field on the User Definition screen for your user account to **-- System Default --**.
- Set the **Web Service access** field on the User Definition screen for your user account to **Yes**.

Password Expiration

While a password is [expired](#), RESTful Web Services API access will be prohibited until the password has been changed.



Note

Password expiration is not applicable to LDAP authenticated users.

Operations

The RESTful Web Service API [operations](#) are listed alphabetically within the following categories:

- [Agents](#)
- [Passwords](#)
- [Resources](#)
- [Tasks](#)
- [Triggers](#)
- [Variables](#)

Agents

Request a List of Agents

Property	Description
URI	<code>http://host_name/opswise/resources/agents/list</code>
HTTP Method	GET
Description	Returns the list of all agents .
Authentication	HTTP Basic
Consumes Content-Type	n/a
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>

Resume Agent

Property	Description
URI	<code>http://host_name/opswise/resources/agents/ops-resume-agent</code>
HTTP Method	POST
Description	Resumes the specified agent .
Authentication	HTTP Basic
Consumes Content-Type	application/xml
Produces Content-Type	application/xml

XML Request Example	<p>By Agent Name</p> <pre><resume-agent> <agentName>XPS-8300 - AGNT0001</agentName> </resume-agent></pre> <p>By Agent ID</p> <pre><resume-agent> <agentID>AGNT0001</agentID> </resume-agent></pre>
XML Response Example	<pre><command-response> <type>resume_agent</type> <success>>true</success> <info>Successfully resumed agent "XPS-8300 - AGNT0001".</info> <errors /> </command-response></pre>

Resume Agent Cluster

Property	Description
URI	http://host_name/opwise/resources/agents/ops-resume-agent-cluster
HTTP Method	POST
Description	Resumes the specified agent cluster .
Authentication	HTTP Basic
Consumes Content-Type	application/xml
Produces Content-Type	application/xml
XML Request Example	<pre><resume-agent-cluster> <agentClusterName>Opwise - Default Windows Cluster</agentClusterName> </resume-agent-cluster></pre>
XML Response Example	<pre><command-response> <type>resume_agent_cluster</type> <success>>true</success> <info>Successfully resumed agent cluster "Opwise - Default Windows Cluster".</info> <errors /> </command-response></pre>

Resume Agent Cluster Membership

Property	Description
URI	http://host_name/opwise/resources/agents/ops-resume-agent-cluster-membership

HTTP Method	POST
Description	Resumes the specified agent cluster membership.
Authentication	HTTP Basic
Consumes Content-Type	application/xml
Produces Content-Type	application/xml
XML Request Example	<p>By Agent Name</p> <pre><resume-agent-cluster-membership> <agentClusterName>Opwise - Default Windows Cluster</agentClusterName> <agentName>XPS-8300 - AGNT0001</agentName> </resume-agent-cluster-membership></pre> <p>By Agent ID</p> <pre><resume-agent-cluster-membership> <agentClusterName>Opwise - Default Windows Cluster</agentClusterName> <agentID>AGNT0001</agentID> </resume-agent-cluster-membership></pre>
XML Response Example	<pre><command-response> <type>resume_agent_cluster_membership</type> <success>>true</success> <info>Successfully resumed agent cluster membership.</info> <errors /> </command-response></pre>

Set Agent Cluster Task Execution Limit

Property	Description
URI	http://host_name/opwise/resources/agents/ops-set-agent-cluster-task-execution-limit
HTTP Method	POST
Description	Sets the task execution limit for the specified agent cluster.
Authentication	HTTP Basic
Consumes Content-Type	application/xml
Produces Content-Type	application/xml

XML Request Example	<p>Limit Type: Limited</p> <pre><set-agent-cluster-task-execution-limit> <agentClusterName>Opwise - Default Windows Cluster</agentClusterName> <limitAmount>15</limitAmount> <limitType>Limited</limitType> </set-agent-cluster-task-execution-limit></pre> <p>Limit Type: Unlimited</p> <pre><set-agent-cluster-task-execution-limit> <agentClusterName>Opwise - Default Windows Cluster</agentClusterName> <limitType>Unlimited</limitType> </set-agent-cluster-task-execution-limit></pre>
XML Response Example	<pre><command-response> <type>set_agent_cluster_task_execution_limit</type> <success>>true</success> <info>Successfully updated agent cluster "Opwise - Default Windows Cluster" with task limit type: "Limited", amount: "15".</info> <errors /> </command-response></pre>

Set Agent Task Execution Limit

Property	Description
URI	http://host_name/opwise/resources/agents/ops-set-agent-task-execution-limit
HTTP Method	POST
Description	Sets the <i>task execution limit</i> for the specified agent.
Authentication	HTTP Basic
Consumes Content-Type	application/xml
Produces Content-Type	application/xml

XML Request Example	<p>By Agent Name Limit Type: Limited</p> <pre><set-agent-task-execution-limit> <agentName>XPS-8300 - AGNT0001</agentName> <limitAmount>10</limitAmount> <limitType>Limited</limitType> </set-agent-task-execution-limit></pre> <p>By Agent ID Limit Type: Limited</p> <pre><set-agent-task-execution-limit> <agentID>AGNT0001</agentID> <limitAmount>10</limitAmount> <limitType>Limited</limitType> </set-agent-task-execution-limit></pre> <p>By Agent ID Limit Type: Unlimited</p> <pre><set-agent-task-execution-limit> <agentID>AGNT0001</agentID> <limitType>Unlimited</limitType> </set-agent-task-execution-limit></pre>
XML Response Example	<pre><command-response> <type>set_agent_task_execution_limit</type> <success>true</success> <info>Successfully updated agent "XPS-8300 - AGNT0001" with task limit type: "Limited", amount: "10".</info> <errors /> </command-response></pre>

Suspend Agent

Property	Description
URI	http://host_name/opwise/resources/agents/ops-suspend-agent
HTTP Method	POST
Description	Suspends the specified agent .
Authentication	HTTP Basic
Consumes Content-Type	application/xml
Produces Content-Type	application/xml

XML Request Example	<p>By Agent Name</p> <pre><suspend-agent> <agentName>XPS-8300 - AGNT0001</agentName> </suspend-agent></pre> <p>By Agent ID</p> <pre><suspend-agent> <agentID>AGNT0001</agentID> </suspend-agent></pre>
XML Response Example	<pre><command-response> <type>suspend_agent</type> <success>>true</success> <info>Successfully suspended agent "XPS-8300 - AGNT0001".</info> <errors /> </command-response></pre>

Suspend Agent Cluster

Property	Description
URI	http://host_name/opwise/resources/agents/ops-suspend-agent-cluster
HTTP Method	POST
Description	Suspends the specified agent cluster.
Authentication	HTTP Basic
Consumes Content-Type	application/xml
Produces Content-Type	application/xml
XML Request Example	<pre><suspend-agent-cluster> <agentClusterName>Opwise - Default Windows Cluster</agentClusterName> </suspend-agent-cluster></pre>
XML Response Example	<pre><command-response> <type>suspend_agent_cluster</type> <success>>true</success> <info>Successfully suspended agent cluster "Opwise - Default Windows Cluster".</info> <errors /> </command-response></pre>

Suspend Agent Cluster Membership

Property	Description
URI	http://host_name/opwise/resources/agents/ops-suspend-agent-cluster-membership

HTTP Method	POST
Description	Suspends the specified agent cluster membership.
Authentication	HTTP Basic
Consumes Content-Type	application/xml
Produces Content-Type	application/xml
XML Request Example	<p>By Agent Name</p> <pre><suspend-agent-cluster-membership> <agentClusterName>Opwise - Default Windows Cluster</agentClusterName> <agentName>XPS-8300 - AGNT0001</agentName> </suspend-agent-cluster-membership></pre> <p>By Agent ID</p> <pre><suspend-agent-cluster-membership> <agentClusterName>Opwise - Default Windows Cluster</agentClusterName> <agentID>AGNT0001</agentID> </suspend-agent-cluster-membership></pre>
XML Response Example	<pre><command-response> <type>suspend_agent_cluster_membership</type> <success>>true</success> <info>Successfully suspended agent cluster membership.</info> <errors /> </command-response></pre>

Passwords

Change an Opwise Controller User Password

Property	Description
URI	http://host_name/opwise/resources/opwise/ops-change-user-password
HTTP Method	POST
Description	Changes an Opwise Controller user password.
Authentication	HTTP Basic
Consumes Content-Type	application/xml
Produces Content-Type	application/xml
XML Request Example	<pre><change-user-password> <userId>test_password</userId> <newPassword>test</newPassword> </change-user-password></pre>

XML Response Example	<pre data-bbox="435 159 1032 352"> <command-response> <type>change_user_password</type> <success>true</success> <info /> <errors /> </command-response> </pre>
----------------------	--

**Note**

The Authentication used must have the `ops_admin` user role.

Change Runtime Password on Credentials

Property	Description
URI	http://host_name/opswise/resources/credentials/ops-change-password
HTTP Method	POST
Description	Changes the runtime password of the credentials based on name.
Authentication	HTTP Basic
Consumes Content-Type	application/xml
Produces Content-Type	application/xml
XML Request Example	<pre data-bbox="435 972 1065 1121"> <change-credentials-password> <name>test</name> <newRuntimePassword>test2</newRuntimePassword> </change-credentials-password> </pre>
XML Response Example	<pre data-bbox="435 1186 1065 1377"> <command-response> <type>change_credentials_password</type> <success>true</success> <info /> <errors /> </command-response> </pre>

**Note**

The user must have the **Update Credential** permission.

Resources

Set Limit on a Virtual Resource

Property	Description
URI	http://host_name/opswise/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>

Tasks

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

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 task 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> </task></pre>

XML Request Example - Task Variables	<pre data-bbox="721 159 1446 380"><variables> <variable> <description>desc</description> <name>testVar</name> <value>testVar Val</value> </variable> </variables></pre>
XML Request Example - Notes	<pre data-bbox="721 443 1446 642"><notes> <note> <text>note text</text> <title>note title</title> </note> </notes></pre>
XML Request Example - Virtual Resources	<pre data-bbox="721 701 1446 900"><virtual-resources> <virtual-resource> <amount>2</amount> <resource>testresource</resource> </virtual-resource> </virtual-resources></pre>

XML Request - Actions - Email Notifications

```

    <actions>
      <email-notification>
        <status>status</status>
        <exitCodes>exit codes</exitCodes>
        <notifyOnLateStart>true
      </notifyOnLateStart>
        <notifyOnLateFinish>true
      </notifyOnLateFinish>
        <notifyOnEarlyFinish>true
      </notifyOnEarlyFinish>
        <emailTemplate>email template
      </emailTemplate>
        <emailConnection>email connection
      </emailConnection>
        <replyTo>reply to</replyTo>
        <to>to</to>
        <cc>cc</cc>
        <bcc>bcc</bcc>
        <subject>subject</subject>
        <body>body</body>
        <attachStdOut>attach standard output
      </attachStdOut>
        <attachStdError>attach standard error
      </attachStdError>
        <attachFile>attach file</attachFile>
        <stdoutStartLine>start line
      </stdoutStartLine>
        <stdoutNumLines>number of lines
      </stdoutNumLines>
        <stdoutScanText>scan text
      </stdoutScanText>
        <stderrStartLine>start line
      </stderrStartLine>
        <stderrNumLines>number of lines
      </stderrNumLines>
        <stderrScanText>scan text
      </stderrScanText>
        <fileStartLine>start line
      </fileStartLine>
        <fileNumLines>number of lines
      </fileNumLines>
        <fileScanText>scan text</fileScanText>
        <fileName>file name</fileName>
      </email-notification>
    </actions>

```

XML Request - Actions - SNMP Notification

```

    <actions>
      <snmp-notification>
        <status>status</status>
        <exitCodes>exit codes</exitCodes>
        <notifyOnLateStart>On Late Start
      </notifyOnLateStart>
        <notifyOnLateFinish>On Late Finish
      </notifyOnLateFinish>
        <notifyOnEarlyFinish>On Early Finish
      </notifyOnEarlyFinish>
        <snmpManager>SNMP Manager</snmpManager>
        <severity>severity</severity>
      </snmp-notification>
    </actions>

```

XML Request - Actions - Abort Action

```
<actions>
  <abort-action>
    <status>status</status>
    <exitCodes>exit codes</exitCodes>
    <notifyOnLateStart>On Late Start
  </notifyOnLateStart>
    <notifyOnLateFinish>On Late Finish
  </notifyOnLateFinish>
    <notifyOnEarlyFinish>On Early Finish
  </notifyOnEarlyFinish>
    <cancelProcess>Cancel Process if Active
  </cancelProcess>
    <overrideExitCode>Override Exit Code
  </overrideExitCode>
  </abort-action>
</actions>
```

XML Request - Actions - Set Variable

```
<actions>
  <set-variable-action>
    <status>status</status>
    <exitCodes>exit codes</exitCodes>
    <notifyOnLateStart>On Late Start
  </notifyOnLateStart>
    <notifyOnLateFinish>On Late Finish
  </notifyOnLateFinish>
    <notifyOnEarlyFinish>On Early Finsh
  </notifyOnEarlyFinish>
    <variableDescription>Description
  </variableDescription>
    <variableScope>variable scope
  </variableScope>
    <variableName>name</variableName>
    <variableValue>value</variableValue>
  </set-variable-action>
</actions>
```

XML Request - Actions - System Operation

```

<actions>
  <system-operation>
    <operation>type of operation</operation>
    <status>status</status>
    <exitCodes>exit codes</exitCodes>
    <notifyOnLateStart>On Late Start
  </notifyOnLateStart>
    <notifyOnLateFinish>On Late Finish
  </notifyOnLateFinish>
    <notifyOnEarlyFinish>On Early Finish
  </notifyOnEarlyFinish>
    <notificationOption>system notification
  </notificationOption>
    <agent>Agent</agent>
    <agentVar>Agent</agentVar>
    <agentVarCheck>Agent variable
  </agentVarCheck>
    <agentCluster>Agent cluster
  </agentCluster>
    <agentClusterVar>Agent cluster variable
  </agentClusterVar>
    <agentClusterVarCheck>Agent cluster
variable</agentClusterVarCheck>
    <virtualResource>virtual resource
  </virtualResource>
    <virtualResourceVar>virtual resource
  </virtualResourceVar>
    <virtualResourceVarCheck>virtual
resource variable</virtualResourceVarCheck>
    <taskLimitType>task execution type
  </taskLimitType>
    <limit>limit</limit>
    <execCommand>exec command</execCommand>
    <execLookupOption>instance iookup
  </execLookupOption>
    <execCriteria>instance criteria
  </execCriteria>
    <execName>instance name</execName>
    <execId>instance Id</execId>
    <execWorkflowName>workflow instance name
  </execWorkflowName>
    <task>task reference</task>
    <taskVar>task reference</taskVar>
    <taskVarCheck>task reference variable
  </taskVarCheck>
  </system-operation>
</actions>

```


Windows Task Properties


```
name - required / unique
summary
credentials
credentials_var
retry_maximum
retry_indefinitely
retry_interval
opswise_groups - sys_id of Business Service
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 - required
exit_codes - required
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
opswise_groups - sys_id of Business Service
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 - required
exit_codes - required
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 - required / unique
summary
credentials
credentials_var
retry_maximum
retry_indefinitely
retry_interval
opswise_groups - sys_id of Business Service
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
jobname_new
jobclass_new
msgclass_new
jcl_location
parameters
exit_code_processing - required
exit_codes - required
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
```

<p>Fixed Type Values</p>	<p>Valid Type Values:</p> <p>exit_code_processing types: Success Exitcode Range (1) Failure Exitcode Range (2) Success Output Contains (3) Failure Output Contains (4)</p> <p>output_types: STDOUT (1) STDERR (2) FILE (3) JOBLLOG (4) SCRIPT (5)</p> <p>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>command_or_script types: Command (1) Script (2)</p> <div style="background-color: #ffffcc; padding: 5px; 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>
<p>XML Response Example</p>	<pre style="border: 1px solid #ccc; padding: 10px;"> <command-response> <type>create_task</type> <success>>true</success> <info /> <errors /> </command-response></pre>

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>Timer 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 Timer task Timer 0 with Execid f505b243c0a801af0026913343d8dcfa.</info> <errors /> </command-response> </pre>

Query a List of Tasks

Property	Description
URI	http://host_name/opwise/resources/task/list
HTTP Method	POST
Description	Lists the specified task .
Authentication	HTTP Basic
Consumes Content-Type	application/xml
Produces Content-Type	application/xml
XML Request Example	<p>name and type are optional.</p> <pre> <generic-query-filter> <name>*0</name> <type>Timer</type> </generic-query-filter> </pre>
XML Response Example	<pre> <tasks> <task> <name>Timer 0</name> <sysID>410d6c0bc0a801c901838d8ac43b3279</sysID> <type>Timer</type> </task> <task> <name>Timer 30</name> <sysID>410d6880c0a801c90196685fcc1ecb47</sysID> <type>Timer</type> </task> </tasks> </pre>

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>

Triggers

Create a 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="Timer 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>

Enable/Disable a Trigger

Property	Description
URI	http://host_name/opwise/resources/trigger/ops-enable-disable-trigger
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> <trigger enable="false" name="Opwise - 1st Sunday of Month"></trigger> </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>

Query a List of Triggers

Property	Description
URI	http://host_name/opswise/resources/trigger/list
HTTP Method	POST
Description	Lists the specified trigger .
Authentication	HTTP Basic
Consumes Content-Type	application/xml
Produces Content-Type	application/xml
XML Request Example	<p>name, enabled, and type are optional.</p> <pre><generic-query-filter> <name>*time*</name> <enabled>>true</enabled> <type>Time</type> </generic-query-filter></pre>
XML Response Example	<pre><triggers> <trigger> <enabled>true</enabled> <name>Example time trigger 1</name> <sysID>07e69e9ac0a830016f4e065eb8e4ffe0</sysID> <type>Time</type> </trigger> <trigger> <enabled>true</enabled> <name>Example time trigger 2</name> <sysID>07e69051c0a8300135a540b2d5b07ade</sysID> <type>Time</type> </trigger> </triggers></pre>

Variables

List Variables

Property	Description
URI	http://host_name/opswise/resources/variable/list
HTTP Method	POST
Description	Lists the specified variable .
Authentication	HTTP Basic
Consumes Content-Type	application/xml
Produces Content-Type	application/xml

XML Request Example

variableName is optional in all cases.

Global Variable

```
<variable-query-filter>
  <scope>global</scope>
</variable-query-filter>
```

```
<variable-query-filter>
  <scope>GLOBAL</scope>
  <variableName>demo*</variableName>
</variable-query-filter>
```

Local Variable

```
<variable-query-filter>
  <scope>LOCAL</scope>
</variable-query-filter>
```

```
<variable-query-filter>
  <scope>LOCAL</scope>
  <variableName>*2</variableName>
</variable-query-filter>
```

Task Variable

```
<variable-query-filter>
  <scope>TASK</scope>
  <taskName>UT-WS-Task</taskName>
</variable-query-filter>
```

```
<variable-query-filter>
  <scope>TASK</scope>
  <taskName>UT-WS-Task</taskName>
  <variableName>UT*2</variableName>
</variable-query-filter>
```

Trigger Variable

```
<variable-query-filter>
  <scope>TRIGGER</scope>
  <triggerName>UT-WS-Trigger</triggerName>
</variable-query-filter>
```

```
<variable-query-filter>
  <scope>TRIGGER</scope>
  <triggerName>UT-WS-Trigger</triggerName>
  <variableName>*2</variableName>
</variable-query-filter>
```

XML Response Example	<p>type is either GLOBAL, Task, or Trigger.</p> <pre> Example 1 <variables> <variable> <description></description> <name>demo_ops_download_dir</name> <sysId>db5c436ac0a8016501f1ab660b585961</sysId> <type>Global</type> <value>/home/opwise/download</value> </variable> <variable> <description></description> <name>demo_ops_linux_rc</name> <sysId>db5c7b72c0a80165004cda781dbf3115</sysId> <type>Global</type> <value>0</value> </variable> </variables> Example 2 <variables> <variable> <description>varDescription2</description> <name>UT_WS_var_2</name> <sysId>164a03300a0a0a6475b497e5d985c1aa</sysId> <taskId>164a02a80a0a0a644fc9a3d6dd33f72b</taskId> <taskName>UT-WS-Task - 9103c2e0-4395-4c75-84e8-a5da8dfb0244</taskName> <triggerId></triggerId> <type>Task</type> <value>varVal2</value> </variable> <variable> <description></description> <name>UT_WS_var_2</name> <sysId>164ea9ff0a0a0a6449f209da49f594c0</sysId> <taskId></taskId> <triggerId>164ea9a40a0a0a647df8372b88eb2394</triggerId> <triggerName>UT-WS-Trigger - 85777e3e-cd4b-4d29-9810-6974182de21e</triggerName> <type>Trigger</type> <value>val</value> </variable> </variables> </pre>
----------------------	--

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

```

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>Timer 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>

```

XML Response
Example

```

<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>

```