



Universal Controller 6.2.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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Introduction

The Universal Controller Command Line Interface (CLI) is implemented as a [set of functions](#) that perform specific actions in a Universal Controller. The results of the actions are written to the CLI standard output.

The CLI command, **uagcmd**, executes a [function](#) according to information specified in its required and optional [Global parameters](#) and [function-specific parameters](#).

CLI Functions

CLI functions perform specific actions in a Universal Controller.

The CLI command, **uagcmd**, can execute functions on any system that has TCP/IP connectivity to the Universal Message Service (OMS).

The [command line syntax](#) for each execution of **uagcmd** must specify a single CLI function, required / optional [Global parameters](#), and required / optional function-specific parameters. You must use the required Global parameters to connect to [OMS Servers](#)) and to log on to a Controller ([User ID](#) and [Password](#)).

(See [Pre-6.2.0.0 CLI Functions](#) for a backward-compatible version of this syntax that can be used for pre-6.2.0.0 CLI functions.)

The following information is provided for each CLI Function:

- Description
- Command line syntax
- Function-specific parameters
- Example

Functions are listed alphabetically, by category, on the following pages:

Agent Functions	<ul style="list-style-type: none"> • Delete Agent • List Agents Status • Resume Agent • Resume Agent Cluster • Resume Agent Cluster Membership • Set Agent Cluster Task Execution Limit • Set Agent Task Execution Limit • Suspend Agent • Suspend Agent Cluster • Suspend Agent Cluster Membership
Bundle Functions	<ul style="list-style-type: none"> • Schedule Bundle Promotion

Import and Export Functions	<ul style="list-style-type: none"> • Export Bulk • Export Trigger • Import Bulk • Import Trigger
OMS Server Functions	<ul style="list-style-type: none"> • List OMS Servers
Password Functions	<ul style="list-style-type: none"> • Change User Password • Change Credentials Password
Resource Functions	<ul style="list-style-type: none"> • List Virtual Resources • Update Resource Limit
Task Functions	<ul style="list-style-type: none"> • Cancel Task • Clear All Dependencies • Clear Virtual Resource Dependencies • Clear Exclusive Dependencies • Clear Time Dependency • Display All Tasks • Display Task Instance Status • Force Finish a Task • Launch a Task • Put Task on Hold • Release a Task from Hold • Rerun a Task • Set Manual Task to Started • Set Manual Task to Success • Set or Modify Wait Time for a Task Instance • Set Task Priority • Skip a Task
Tasks in Workflow Functions	<ul style="list-style-type: none"> • Clear Predecessor Dependencies • Insert a Task into a Workflow Instance with Dependencies • List Predecessors / Successors of a Task Instance in a Workflow
Trigger Functions	<ul style="list-style-type: none"> • Disable a Trigger • Enable a Trigger • Launch Trigger Tasks Now • List Triggers Status • Modify Time of a Time Trigger
Variable Functions	<ul style="list-style-type: none"> • List Variables • Set Variables

Command Line Syntax

The following command line syntax is used for issuing the CLI command, **uagcmd**:

```
uagcmd function Global parameters function-specific parameter(s)
```


Command Line Entry	Description
--------------------	-------------

uagcmd	CLI command that executes all CLI functions.
function	CLI function that performs a specific action in a Universal Controller.
Global parameters	CLI parameters (required and optional) available for all functions.
function-specific parameter(s)	CLI parameters (required and optional) specific to one or more functions.

For example:

```
uagcmd ops-task-launch -c config.cfg -x encryptedfile.txt task-type=unix task-name=task01
```

In this example, the required Global Parameters are contained in the `config.cfg` configuration file.

 **Note**
For backward-compatibility, you can exclude `uagcmd` from the command line for all [pre-6.2.0.0 CLI functions](#).

Special Characters Restrictions

The following restrictions apply to the use of special characters in CLI function parameters.

Special Characters	Restrictions	Examples
	Can be used only if enclosed in double quotation marks.	C:\Program Files\Universal\OpsCli\bin>uagcmd.exe ops-task-launch -c c.cfg task-name=A B 'B' is not recognized as an internal or external command, operable program or batch file. C:\Program Files\Universal\OpsCli\bin>uagcmd.exe ops-task-launch -c c.cfg task-name="A B" Task Type parameter not specified, defaulting to ALL. Successfully launched the Manual task "A B" with task instance sys_id 14503847946836221302J1Y7WP1V75YF. opscmd-complete
~	Cannot be used, even if enclosed in double quotation marks.	C:\Program Files\Universal\OpsCli\bin>uagcmd.exe ops-task-launch -c c.cfg task-name="A~B" Parameter CMDVERB contains malformed name/value pair(s). opscmd-complete
=	Cannot be used, even if enclosed in double quotation marks; prevents a CLI function from running.	C:\Program Files\Universal\OpsCli\bin>uagcmd.exe ops-task-launch -c c.cfg task-name="A=B" uagcmd ops-task-launch usage: uagcmd ops-task-launch [options] [command_parameters]
+	Can be used with or without double quotation marks.	C:\Program Files\Universal\OpsCli\bin>uagcmd.exe ops-task-launch -c c.cfg task-name="A+B" Task Type parameter not specified, defaulting to ALL. Successfully launched the Manual task "A+B" with task instance sys_id 14503847946836441301OS0WDEQOH7Y1. opscmd-complete C:\Program Files\Universal\OpsCli\bin>uagcmd.exe ops-task-launch -c c.cfg task-name=A+B Task Type parameter not specified, defaulting to ALL. Successfully launched the Manual task "A+B" with task instance sys_id 14503847946836541302LCVCMLXWPSO0. opscmd-complete

Restrictions for `task-variables=` Parameter

None of these special characters identified in [Special Characters Restrictions](#) - =, |, +, and ~ - can be use in a `task-variables=` parameter.

Examples

```
C:\Program Files\Universal\OpsCli\bin>uagcmd.exe ops-task-launch -c c.cfg task-name=AB task-variables={variable1="V=1" variable2=V2}
Valid format for variables: {variable=value}.
opscmd-complete
```

```
C:\Program Files\Universal\OpsCli\bin>uagcmd.exe ops-task-launch -c c.cfg task-name=AB task-variables={variable1="V|1" variable2=V2}
Valid format for variables: {variable=value}.
opscmd-complete
```

```
C:\Program Files\Universal\OpsCli\bin>uagcmd.exe ops-task-launch -c c.cfg task-name=AB task-variables={variable1="V+1" variable2=V2}
Valid format for variables: {variable=value}.
opscmd-complete
```

```
C:\Program Files\Universal\OpsCli\bin>uagcmd.exe ops-task-launch -c c.cfg task-name=AB task-variables={variable1="V~1" variable2=V2}
Parameter CMDVERB contains malformed name/value pair(s).
opscmd-complete
```

Pre-6.2.0.0 CLI Functions

For backward-compatibility, you can exclude **uagcmd** from the command line for all pre-6.2.0.0 CLI functions:

Agent Functions	<ul style="list-style-type: none"> List Agents Status Resume Agent Resume Agent Cluster Resume Agent Cluster Membership Set Agent Cluster Task Execution Limit Set Agent Task Execution Limit Suspend Agent Suspend Agent Cluster Suspend Agent Cluster Membership
Import and Export Functions	<ul style="list-style-type: none"> Export Bulk Export Trigger Import Bulk Import Trigger
Password Functions	<ul style="list-style-type: none"> Change User Password Change Credentials Password
Resource Functions	<ul style="list-style-type: none"> Update Resource Limit
Task Functions	<ul style="list-style-type: none"> Cancel Task Display All Tasks Display Task Instance Status Force Finish a Task Launch a Task Put Task on Hold Release a Task from Hold Rerun a Task Set Manual Task to Started Set Manual Task to Success Set Task Priority Skip a Task
Trigger Functions	<ul style="list-style-type: none"> Disable a Trigger Enable a Trigger Launch Trigger Tasks Now List Triggers Status

Variable Functions	<ul style="list-style-type: none"> • List Variables • Set Variables
---------------------------	---


Return Codes

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

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

Supported Platforms

For all supported platforms, the CLI is included in the Universal Agent 6.3.x package.

UNIX	<p>The CLI functions 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 functions 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 functions without specifying their full path name. • CLI_HOME with the directory in which the Agent components are installed. <div style="background-color: #ffffcc; padding: 5px; margin-top: 10px;"> <p> Note Do not use fully qualified file names (that is, with the .exe extension) in CLI for Windows parameters; an error will occur.</p> </div>
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 Universal Agent for z/OS Installation package.</p> <p>See Using the CLI for z/OS for detailed information on using the CLI in a z/OS environment.</p>

CLI Login

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](#) Universal Controller system property, has been set to **No**, and the [Command Line Access](#) field in the [User Details](#) for your user account is set to **-- System Default --**.
2. The [Command Line Access](#) field in the [User Details](#) for your user account 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.

Global Parameters

The CLI provides the following Global parameters for use with any CLI function:

Parameter	Required	Optional
CA Certificate List		
Configuration File		
CRL File		
Encrypted File		
Encrypted File Key		
Help		
OMS NFT		
OMS Servers		
Password		
Queue Name		
SSL		
Timeout		
User ID		
Version		

The following information is provided below for each Global parameter:

- Description
- Syntax for [specifying the parameter](#).
- Requirement to use the parameter.
- Default value (if any).
- Example

Specifying Global Parameters

Three methods are available for specifying Global parameters:

1. Command line switches
2. Configuration file entries
3. Environment variables



Note

Each method is available only for some Global parameters; only a command line switch is available for each Global parameter.

CA Certificate List

Description	Trusted CA certificate list in PEM format. DDNAME for z/OS and file path for other platforms.
Configuration File Entry	ssl.certstore
Command Line Switch	-a
Environment Variable	n/a
Required	No
Default	(none)
Example	<ul style="list-style-type: none"> • UNIX: /opt/cert/ca.pem • Windows: c:\cert\ca.pem • z/OS: dd:CACERTS


Configuration File

Description	<p>Configuration file containing one or more Global parameters. It can include the required User ID, Password, and OMS Servers Global parameters.</p> <p>You also can specify individual Global parameters (required and optional) on the command line.</p> <div style="border: 1px solid #ccc; background-color: #ffffcc; padding: 10px; margin: 10px 0;"> <p> Note A sample CLI configuration file, cmdtools.props, is created during the installation of the CLI (an optionally installed component of Universal Agent). However, you can create a configuration file with any name; it must exist in the directory from where you are issuing the uagcmd command.</p> </div>
Configuration File Entry	n/a
Command Line Switch	-c
Environment Variable	n/a
Required	No
Default	(none)
Example	<pre style="border: 1px solid #ccc; padding: 10px;">security.userid=ops.admin security.password=abc123 network.omsservers=oms_servers 7878@dallas01.acme.com,7878@dallas02.acme.com network.omsnft=yes config.timeout=60</pre>

CRL File

Description	CRL file in PEM format. DDNAME for z/OS and file path for other platforms.
Configuration File Entry	ssl.crlfile
Command Line Switch	-e
Environment Variable	n/a
Required	No
Default	(none)
Example	<ul style="list-style-type: none"> • UNIX: /opt/cert/crl.pem • Windows: c:\cert\crl.pem • z/OS: dd:CRLFILE

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 Entry	n/a
Command Line Switch	-x
Environment Variable	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 Entry	n/a
Command Line Switch	-k
Environment Variable	n/a
Required	No
Default	(none)
Example	

Help

Description	Provides help information for any function.
--------------------	---

Configuration File Entry	n/a
Command Line Switch	-h -?
Environment Variable	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.

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 *uagcmd* command execution will attempt to connect to each specified OMS Servers. If no connection can be made, *uagcmd* will fail with a non-zero exit code (2). • If a network error occurs after a connection to an OMS server is made, the *uagcmd* will fail with a non-zero exit code (2).
Configuration File Entry	network.omsnft
Command Line Switch	-f
Environment Variable	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 Entry	network.omsservers
Command Line Switch	-m
Environment Variable	OMSSERVERS
Required	Yes
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 Entry	security.password
Command Line Switch	-p

Environment Variable	n/a
Required	Yes
Default	(none)
Example	o

Queue Name

Description	Controller queue name. Must be default for normal set-up.
Configuration File Entry	network.core
Command Line Switch	-n
Environment Variable	HUBNAME
Required	No
Default	ops.controller.queue
Example	queue02

SSL

Description	Specification (by its inclusion on the command line) for whether or not to enable SSL.
Configuration File Entry	n/a
Command Line Switch	-s
Environment Variable	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 Entry	config.timeout
Command Line Switch	-o
Environment Variable	n/a
Required	No
Default	60
Example	10

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 Entry	security.userid
Command Line Switch	-u
Environment Variable	n/a
Required	Yes
Default	(none)

Example	ops.admin
----------------	-----------

Version

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



Note

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

Function-Specific Parameters

Most functions contain one or more required and/or optional parameters that are specific to one or more functions.

Modifying Variables

Some function-specific parameters let you modify variables.

Currently, the CLI only supports the modification of [User-Defined Variables](#): global variables, trigger variables, and task/workflow variables.

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

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

Using the CLI for z/OS

All CLI functions 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 functions 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 switch 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	-c dd:ddname	ddname references a DD statement that exists in your batch JCL.
Data Set Name	-c "'/'dsname' "	dsname 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 CLI Functions in z/OS

Three methods are available for running OPSCMDZ and executing CLI functions:

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 OCLI Functions in a Batch Job

The CLI program OPSCMDZ executes a single function as a JCL batch job step. If multiple functions 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=*
```

In this example:

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

Issuing CLI Functions under TSO

You can also issue CLI functions under a TSO session.

The sample command string below shows a CLI function issued from an ISPF Command Shell prompt:

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

This function will return data similar to the sample below:

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

Issuing CLI Functions as a Batch TSO

The following two examples show how to issue a CLI function 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 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')
```


Agent Functions

- Overview
- Delete Agent
- List Agents Status
- Resume Agent
- Resume Agent Cluster
- Resume Agent Cluster Membership
- Set Agent Cluster Task Execution Limit
- Set Agent Task Execution Limit
- Suspend Agent
- Suspend Agent Cluster
- Suspend Agent Cluster Membership

Overview

The command line syntax for each execution of the CLI command, **uagcmd**, must specify a single CLI function, required / optional [Global parameters](#), and required / optional function-specific parameters. You must use the required Global parameters to connect to [OMS Servers](#) and to log on to a Controller ([User ID](#) and [Password](#)).

Universal Controller supports the following CLI functions for Agents, which are listed alphabetically on this page.

- Delete Agent
- List Agents Status
- Resume Agent
- Resume Agent Cluster
- Resume Agent Cluster Membership
- Set Agent Cluster Task Execution Limit
- Set Agent Task Execution Limit
- Suspend Agent
- Suspend Agent Cluster
- Suspend Agent Cluster Membership


Syntax, parameters, and examples for each function are provided.

Delete Agent


Description	Deletes an Agent record.
Syntax	<code>uagcmd ops-delete-agent {agent-name=name agent-id=ID}</code>
Parameters	<ul style="list-style-type: none"> • agent-name= Required if agent-id= is not specified; Agent name of the Agent to be deleted (agent-name= and agent-id= are mutually exclusive). • agent-id= Required if agent-name= is not specified; Agent ID of the Agent w to be deleted (agent-id= and agent-name= are mutually exclusive).
Example	<pre>uagcmd ops-delete-agent- -c config.cfg agent-name=agent A</pre>

List Agents Status


Description	Lists the status of one or more Agents.
--------------------	---

Syntax	<pre>uagcmd ops-agent-status global parameters [agent-name=name] agent-type=type [options=v]</pre> <div style="background-color: #ffffcc; padding: 10px; margin-top: 10px;">  Note For backward-compatibility, you can exclude <code>uagcmd</code> from the command line for this function and all pre-6.2.0.0 CLI functions. </div>
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> Optional; One of the following (not case sensitive): windows, unix, linux, linux/unix, zos, z/os. (If not specified, status of all Agents are listed.) • <code>options=</code> Optional; v (Return verbose results.)
Example	<pre>uagcmd ops-agent-status -c config.cfg agent-type=windows</pre>

Resume Agent


Description	Resumes the ability of the identified Agent to run tasks.
Syntax	<pre>uagcmd ops-resume-agent global parameters {agent-name=name agent-id=id}</pre> <div style="background-color: #ffffcc; padding: 10px; margin-top: 10px;">  Note For backward-compatibility, you can exclude <code>uagcmd</code> from the command line for this function and all pre-6.2.0.0 CLI functions. </div>
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).
Example	<pre>uagcmd ops-resume-agent- -c config.cfg agent-name=agent A</pre>

Resume Agent Cluster


Description	Resumes the ability of the identified Agent Cluster to run tasks.
Syntax	<pre>uagcmd ops-resume-agent-cluster global parameters agent-cluster-name=name</pre> <div style="background-color: #ffffcc; padding: 10px; margin-top: 10px;">  Note For backward-compatibility, you can exclude <code>uagcmd</code> from the command line for this function and all pre-6.2.0.0 CLI functions. </div>

Parameter	<ul style="list-style-type: none"> agent-cluster-name= Required; Agent cluster name of the Agent Cluster whose ability to run tasks is to be resumed.
Example	<pre>uagcmd ops-resume-agent-cluster -c config.cfg agent-cluster-name=cluster A</pre>

Resume Agent Cluster Membership


Description	Resumes the membership of the identified Agent in the identified Agent Cluster.
Syntax	<pre>uagcmd ops-resume-agent-cluster-membership global parameters {agent-name=name agent-id=ID} agent-cluster-name=name</pre> <div style="background-color: #ffffcc; padding: 10px; margin-top: 10px;"> <p> Note For backward-compatibility, you can exclude <code>uagcmd</code> from the command line for this function and all pre-6.2.0.0 CLI functions.</p> </div>
Parameters	<ul style="list-style-type: none"> agent-name= Required if agent-id= is not specified; Agent name of the Agent whose membership in the Agent Cluster is to be resumed (agent-name= and agent-id= are mutually exclusive). agent-id= Required if agent-name= is not specified; Agent ID of the Agent whose membership in the Agent Cluster is to be resumed (agent-id= and agent-name= are mutually exclusive). agent-cluster-name= Required; Agent cluster name of the Agent Cluster in whose membership the identified Agent is to be resumed.
Example	<pre>uagcmd ops-resume-agent-cluster-membership -c config.cfg agent-name=agent A agent-cluster-name=cluster A</pre>

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	<pre>uagcmd ops-set-agent-cluster-task-execution-limit global parameters agent-cluster-name=name limit-type=type limit-amount=number</pre> <div style="background-color: #ffffcc; padding: 10px; margin-top: 10px;"> <p> Note For backward-compatibility, you can exclude <code>uagcmd</code> from the command line for this function and all pre-6.2.0.0 CLI functions.</p> </div>
Parameters	<ul style="list-style-type: none"> agent-cluster-name= Required; Name of the Agent Cluster. limit-type= 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. limit-amount= Required if limit-type=limited; Maximum number of tasks that can be run at the same time by the Agent Cluster.

Example	<pre>uagcmd ops-set-agent-cluster-task-execution-limit -c config.cfg agent-cluster-name=cluster A limit-type=limit limit-amount=500</pre>
----------------	---


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	<pre>uagcmd ops-set-agent-task-execution-limit global parameters {agent-name=name agent-id=ID} limit-type=type limit-amount=number</pre> <div style="background-color: #ffffcc; padding: 10px; margin-top: 10px;"> <p> Note For backward-compatibility, you can exclude <code>uagcmd</code> from the command line for this function and all pre-6.2.0.0 CLI functions.</p> </div>
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.
Example	<pre>uagcmd ops-set-agent-task-execution-limit -c config.cfg agent-name=agent A limit-type=limit limit-amount=500</pre>


Suspend Agent

Description	Suspends the ability of the identified Agent to run tasks.
Syntax	<pre>uagcmd ops-suspend-agent global parameters {agent-name=name agent-id=ID}</pre> <div style="background-color: #ffffcc; padding: 10px; margin-top: 10px;"> <p> Note For backward-compatibility, you can exclude <code>uagcmd</code> from the command line for this function and all pre-6.2.0.0 CLI functions.</p> </div>
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).
Example	<pre>uagcmd ops-suspend-agent- -c config.cfg agent-name=agent A</pre>

Suspend Agent Cluster

Description	Suspends the ability of the identified Agent Cluster to run tasks.
Syntax	<pre>uagcmd ops-suspend-agent-cluster global parameters agent-cluster-name=name</pre> <div style="background-color: #ffffcc; padding: 10px; margin-top: 10px;"> <p> Note For backward-compatibility, you can exclude <code>uagcmd</code> from the command line for this function and all pre-6.2.0.0 CLI functions.</p> </div>
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.
Example	<pre>uagcmd ops-suspend-agent-cluster -c config.cfg agent-cluster-name=cluster A</pre>

Suspend Agent Cluster Membership

Description	Suspends the membership of the identified Agent in the identified Agent Cluster.
Syntax	<pre>uagcmd ops-suspend-agent-cluster-membership global parameters {agent-name=name agent-id=ID} agent-cluster-name=name</pre> <div style="background-color: #ffffcc; padding: 10px; margin-top: 10px;"> <p> Note For backward-compatibility, you can exclude <code>uagcmd</code> from the command line for this function and all pre-6.2.0.0 CLI functions.</p> </div>
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.
Example	<pre>uagcmd ops-suspend-agent-cluster-membership -c config.cfg agent-name=agent A agent-cluster-name=cluster A</pre>

Bundle Functions

- [Overview](#)
- [Schedule Bundle Promotion](#)

Overview

The [command line syntax](#) for each execution of the CLI command, **uagcmd**, must specify a single CLI function, required / optional [Global parameters](#), and required / optional function-specific parameters. You must use the required Global parameters to connect to [OMS Servers](#) and to log on to a Controller ([User ID](#) and [Password](#)).

Universal Controller supports the following CLI functions for Bundles, which are listed alphabetically on this page.

- [Schedule Bundle Promotion](#)

Syntax, parameters, and examples for each function are provided.

Schedule Bundle Promotion

Description	Schedules the promotion of a Bundle.
Syntax	<pre>uagcmd ops-promote-bundle global parameters {bundle-id=ID bundle-name=name} [promotion-target-id=ID promotion-target-name=name] {[override-user=user] override-password= password} schedule=option {date=date [time=time]} [create-snapshot=option] [notification-option=notification]</pre>
Parameters	<ul style="list-style-type: none"> • bundle-id= Required if bundle_name= is not specified; sys_id of the bundle to be promoted. • bundle-name= Required if bundle_id= is not specified; Name of the bundle to be promoted. • promotion-target-id= sys_id of the promotion target; Optional if specified on the bundle and if promotion-target-name= is not specified. • promotion-target-name= Name of the promotion target; Optional if specified on the bundle and if promotion-target-id= is not specified. • override-user= Optional; User ID to override the user ID provided from the Promotion Target record. • override-password= Required if override-user= is specified; Password of the User ID being used to override the user ID provided from the Promotion Target record. • schedule= Required; Specification (not case sensitive) for whether to schedule the promotion (Yes/Y/true) or promote the Bundle immediately (No/N/false). • date= Required if schedule=Yes/Y/true; Promotion schedule date in format yyyy-MM-dd. • time= Optional if schedule=Yes/Y/true; Promotion schedule time in format HH-mm (default is 00:00). • create-snapshot= Optional if schedule=Yes/Y/true; Specification (Yes/Y/true or No/N/false; not case sensitive) for whether a Bundle snapshot should be taken and stored with the scheduled promotion. Default is No/N/false. • notification-option= Optional; Operation (if any) that will cause a System Notification to be sent when the promotion is done (not case sensitive): operation_failure (default), operation_success/failure, or operation_success.
Example	<pre>uagcmd ops-promote-bundle -c config.cfg bundle-name=Bundle A schedule=Yes date=2015-06-12 create-snapshot=Yes</pre>

Import and Export Functions

- [Overview](#)
- [Export Bulk](#)
- [Export Trigger](#)
- [Import Bulk](#)
- [Import Trigger](#)

Overview



The **command line syntax** for each execution of the CLI command, **uagcmd**, must specify a single CLI function, required / optional **Global parameters**, and required / optional function-specific parameters. You must use the required Global parameters to connect to **OMS Servers** and to log on to a Controller (**User ID** and **Password**).

Universal Controller supports the following CLI functions for Imports and Exports, which are listed alphabetically on this page.

- [Export Bulk](#)
- [Export Trigger](#)
- [Import Bulk](#)
- [Import Trigger](#)

Syntax, parameters, and examples for each function are provided.

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>opswise.export.path</code>) Universal 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/opswise_export</code> • <code>tomcat-home\opswise_export</code> <p>Each export creates a sub-directory under the specified path in the following format:</p> <p><code>WWW_MMM_DD_HH_MM_SS_TZ_YYYY-BULK_EXPORT</code></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: #FFFF00; 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	<p><code>uagcmd ops-export-bulk global parameters</code></p> <div style="background-color: #FFFF00; padding: 10px; margin-top: 10px;"> <p> Note For backward-compatibility, you can exclude <code>uagcmd</code> from the command line for this function and all pre-6.2.0.0 CLI functions.</p> </div>

Example	<pre>uagcmd ops-export-bulk -c config.cfg</pre>
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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 Universal Controller system property. The following illustrates a sample output directory and exported data:</p> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> </div> <div style="border: 1px solid #ccc; padding: 5px;"> <table border="1"> <thead> <tr> <th>Name</th> </tr> </thead> <tbody> <tr> <td>ops_calendar_77171434c0a801c9016d5b2b5d17ddee.xml</td> </tr> <tr> <td>ops_task_sleep_410d696bc0a801c9017e5dbf756ecbd5.xml</td> </tr> <tr> <td>ops_trigger_time_696e1640c0a8026401bcf581414c73b7.xml</td> </tr> </tbody> </table> </div>	Name	ops_calendar_77171434c0a801c9016d5b2b5d17ddee.xml	ops_task_sleep_410d696bc0a801c9017e5dbf756ecbd5.xml	ops_trigger_time_696e1640c0a8026401bcf581414c73b7.xml
Name					
ops_calendar_77171434c0a801c9016d5b2b5d17ddee.xml					
ops_task_sleep_410d696bc0a801c9017e5dbf756ecbd5.xml					
ops_trigger_time_696e1640c0a8026401bcf581414c73b7.xml					
Syntax	<pre>uagcmd ops-export-trigger global parameters trigger-name=name [trigger-type=type]</pre> <div style="background-color: #ffffcc; padding: 10px; margin-top: 10px;"> <p>Note For backward-compatibility, you can exclude <code>uagcmd</code> from the command line for this function and all pre-6.2.0.0 CLI functions.</p> </div>				
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 <code>trigger-name</code>, you can use <code>trigger-type</code> to narrow down the selection to a specific type of trigger. Allowable values are (not case sensitive): <code>cron</code>, <code>time</code>, <code>file_trigger</code>, <code>temporary</code>, <code>task_monitor</code>, <code>manual</code>, <code>application_monitor</code>. 				
Example	<p>This example exports all triggers whose name begins with SF:</p> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"> <pre>uagcmd ops-export-trigger -c config.cfg trigger-name=SF*</pre> </div>				

Import Bulk

<p>Description</p>	<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>opswise.bulk_import.path.default</code>) Universal 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/opswise_import</code> • <code>tomcat-home\opswise_import</code> <div data-bbox="316 394 1445 499" style="background-color: #ffffcc; padding: 5px;"> <p> Note The data being imported must have been exported using the Export Bulk command.</p> </div>
<p>Syntax</p>	<p><code>uagcmd ops-import-bulk global parameters</code></p> <div data-bbox="316 611 1445 741" style="background-color: #ffffcc; padding: 5px;"> <p> Note For backward-compatibility, you can exclude <code>uagcmd</code> from the command line for this function and all pre-6.2.0.0 CLI functions.</p> </div>
<p>Example</p>	<div data-bbox="316 804 1445 877" style="border: 1px solid #ccc; padding: 5px;"> <pre>uagcmd ops-import-bulk -c config.cfg</pre> </div>

Import Trigger

<p>Description</p>	<p>Imports into your Universal Controller database the trigger records in the path specified in the <code>import-file=</code> parameter.</p>
<p>Syntax</p>	<p><code>uagcmd ops-import-trigger global parameters import-file=file</code></p> <div data-bbox="316 1140 1445 1270" style="background-color: #ffffcc; padding: 5px;"> <p> Note For backward-compatibility, you can exclude <code>uagcmd</code> from the command line for this function and all pre-6.2.0.0 CLI functions.</p> </div>
<p>Parameter</p>	<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 Universal Controller user interface using the Export -> XML feature. <div data-bbox="394 1455 1445 1585" style="background-color: #ffffcc; padding: 5px;"> <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>
<p>Example</p>	<div data-bbox="316 1650 1445 1724" style="border: 1px solid #ccc; padding: 5px;"> <pre>uagcmd ops-import-trigger -c config.cfg import-file=ops\import</pre> </div>

OMS Server Functions

- [Overview](#)
- [List OMS Servers](#)

Overview

The [command line syntax](#) for each execution of the CLI command, **uagcmd**, must specify a single CLI function, required / optional [Global parameters](#), and required / optional function-specific parameters. You must use the required Global parameters to connect to [OMS Servers](#) and to log on to a Controller ([User ID](#) and [Password](#)).

Universal Controller supports the following CLI functions for OMS Servers, which are listed alphabetically on this page.

- [List OMS Servers](#)

Syntax, parameters, and examples for each function are provided.

List OMS Servers

Description	Lists OMS Servers and their status.
Syntax	<code>uagcmd ops-oms-status global parameters server-address=address:[port] [options=v]</code>
Parameter	<ul style="list-style-type: none"> • <code>server-address=</code> Required; Server address or partial server address of one or more OMS servers. Wildcards are supported. • <code>options=</code> Optional; Supports the v (verbose) option, which will toggle the SysId column in the response output.
Example	<pre>uagcmd ops-oms-status -c config.cfg server-address=lx12-x64:7878</pre>



Note

The CLI command response will contain the following information for each matching OMS Server:

- Name - OMS Server name
- Status - OMS Server status
- Session Status - OMS Server sessions status
- Sysid - OMS Server `sys_id`

Password Functions

- [Overview](#)
- [Change User Password](#)
- [Change Credentials Password](#)

Overview



The **command line syntax** for each execution of the CLI command, **uagcmd**, must specify a single CLI function, required / optional **Global parameters**, and required / optional function-specific parameters. You must use the required Global parameters to connect to **OMS Servers** and to log on to a Controller (**User ID** and **Password**).

Universal Controller supports the following CLI functions for Passwords, which are listed alphabetically on this page.


- [Change User Password](#)
- [Change Credentials Password](#)


Syntax, parameters, and examples for each function are provided.

Change User Password

Description	<p>Changes the password for the specified Universal Controller User account.</p> <div style="background-color: #FFFF00; padding: 5px; margin-top: 10px;">  Note The authenticated user must have the <code>ops_admin</code> user role. </div>
Syntax	<p><code>uagcmd ops-change-user-password global parameters user-id=userid new-password=password</code></p> <div style="background-color: #FFFF00; padding: 5px; margin-top: 10px;">  Note For backward-compatibility, you can exclude <code>uagcmd</code> from the command line for this function and all pre-6.2.0.0 CLI functions. </div>
Parameters	<ul style="list-style-type: none"> • <code>user-id=</code> Required; Universal 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.
Example	<div style="border: 1px solid #0070C0; padding: 5px; margin-top: 10px;"> <pre>uagcmd ops-change-user-password -c config.cfg user-id=user A new-password=password A</pre> </div>

Change Credentials Password

Description	<p>Changes the runtime password for the specified Universal Controller credentials resource.</p> <div style="background-color: #FFFF00; padding: 5px; margin-top: 10px;">  Note The authenticated user must have the Update Credential permission. </div>
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<p>Syntax</p>	<pre>uagcmd ops-change-credentials-password global parameters credentials-name=name new-runtime-password=password</pre> <div data-bbox="315 233 1446 365" style="background-color: #ffffcc; padding: 10px; border: 1px solid #ccc;"> <p> Note For backward-compatibility, you can exclude <code>uagcmd</code> from the command line for this function and all pre-6.2.0.0 CLI functions.</p> </div>
<p>Parameters</p>	<ul style="list-style-type: none"> • <code>credentials-name=</code> Required; Name of the Universal Controller 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.
<p>Example</p>	<div data-bbox="315 596 1446 695" style="border: 1px solid #ccc; padding: 10px;"> <pre>uagcmd ops-change-credentials-password -c config.cfg credentials-name=Credential A new-runtime-password=password A</pre> </div>

Resource Functions

- [Overview](#)
- [List Virtual Resources](#)

Overview

The [command line syntax](#) for each execution of the CLI command, **uagcmd**, must specify a single CLI function, required / optional [Global parameters](#), and required / optional function-specific parameters. You must use the required Global parameters to connect to [OMS Servers](#) and to log on to a Controller ([User ID](#) and [Password](#)).

Universal Controller supports the following CLI functions for Resources, which are listed alphabetically on this page.

- [List Virtual Resources](#)
- [Update Resource Limit](#)

Syntax, parameters, and examples for each function are provided.

List Virtual Resources

Description	Lists all specified virtual resources.
Syntax	<code>uagcmd ops-resource-list global parameters [resource-name=name] [resource-type=type] [options=v]</code>
Parameters	<ul style="list-style-type: none"> • <code>resource-name=</code> Optional; Name of virtual resource(s) to be listed. Wildcards are supported. • <code>resource-type=</code> Optional; One of the following (not case sensitive): renewable, boundary, depletable. (If not specified, all types of virtual resources are listed.) • <code>options=</code> Optional; Supports the v (verbose) option, which will toggle the SysId and Used By columns in the response output.
Example	<pre>uagcmd ops-resource-list html)[-c config.cfg Command Line Interface (CLI)#Configuration File] resource-name=Resource A</pre></pre>



Note

The CLI command response will contain the following information for each matching virtual resource:

- Name - Virtual Resource name
- Type - Virtual Resource type
- Limit - Virtual Resource limit
- Used - Amount of the virtual resource currently used; applicable only to renewable virtual resources
- SysId - Virtual Resource `sys_id`
- Used By - Task instances currently using the Virtual Resource in the format { `(task-instance-name:resource-amount), (task-instance-name:resource-amount), ...` }

Update Resource Limit

Description	Updates the resource limit for a resource.
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<p>Syntax</p>	<p><code>uagcmd ops-update-resource-limit global parameters resource-name=name resource-limit=limit</code></p> <div style="background-color: #ffffcc; padding: 10px; margin-top: 10px;"> <p> Note For backward-compatibility, you can exclude <code>uagcmd</code> from the command line for this function and all pre-6.2.0.0 CLI functions.</p> </div>
<p>Parameters</p>	<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).
<p>Example</p>	<div style="border: 1px solid #ccc; padding: 10px; margin-top: 10px;"> <pre>uagcmd ops-update-resource-limit html}[-c config.cfg Command Line Interface (CLI)#Configuration File] resource-name=Resource A resource-limit=5</pre></pre></div>

Task Functions

- [Overview](#)
- [Cancel Task](#)

Overview


The [command line syntax](#) for each execution of the CLI command, **uagcmd**, must specify a single CLI function, required / optional [Global parameters](#), and required / optional function-specific parameters. You must use the required Global parameters to connect to [OMS Servers](#) and to log on to a Controller ([User ID](#) and [Password](#)).


Universal Controller supports the following CLI functions for Tasks, which are listed alphabetically on this page.

- [Cancel Task](#)
- [Clear All Dependencies](#)
- [Clear Virtual Resource Dependencies](#)
- [Clear Exclusive Dependencies](#)
- [Clear Time Dependency](#)
- [Display All Tasks](#)
- [Display Task Instance Status](#)
- [Force Finish a Task](#)
- [Launch a Task](#)
- [Put Task on Hold](#)
- [Release a Task from Hold](#)
- [Rerun a Task](#)
- [Set Manual Task to Started](#)
- [Set Manual Task to Success](#)
- [Set or Modify Wait Time for a Task Instance](#)
- [Set Task Priority](#)
- [Skip a Task](#)

Syntax, parameters, and examples for each function are provided.

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	<pre>uagcmd ops-task-cancel global parameters {task-instance-id=<i>ID</i> task-instance-name=<i>name</i>} [instance-criteria=<i>criteria</i>] [workflow-instance-name=<i>name</i>]</pre> <div style="background-color: #FFF9C4; padding: 10px; margin-top: 10px;"> <p> Note For backward-compatibility, you can exclude uagcmd from the command line for this function and all pre-6.2.0.0 CLI functions.</p> </div>

Parameter	<ul style="list-style-type: none"> task-instance= Required; An internal Universal Controller identifier <div style="background-color: #f8d7da; padding: 10px; margin: 10px 0;">  Deprecated Replaced by task-instance-id= parameter; the command first will check for task-instance=; if it is not specified, the command will check for task-instance-id=. </div> <ul style="list-style-type: none"> task-instance-id= Required if task-instance-name= is not specified; sys_id of the task instance to run the command on. task-instance-name= Required if task-instance-id= is not specified; Name of the task instance to run the command on. (If instance-criteria= is not specified, the oldest active task instance with the matching name will apply.) instance-criteria= Optional if task-instance-name= is specified; One of the following (not case-sensitive): oldest_active_instance (default), oldest_instance, newest_active_instance, newest_instance workflow-instance-name= For a task instance in a workflow, optional; Name of the workflow instance.
Example	<pre>uagcmd ops-task-cancel html}[-c config.cfg Command Line Interface (CLI)#Configuration File] task-instance-name=Task A </pre></pre>

Clear All Dependencies

Description	Clears all dependencies of a task instance.
Syntax	uagcmd ops-task-clear-dependencies <i>global parameters</i> {task-instance-id= <i>ID</i> task-instance-name= <i>name</i> } [<i>instance-criteria=criteria</i>] [<i>workflow-instance-name=name</i>]
Parameters	<ul style="list-style-type: none"> task-instance-id= Required if task-instance-name= is not specified; sys_id of the task instance to run the command on. task-instance-name= Required if task-instance-id= is not specified; Name of the task instance to run the command on. (If instance-criteria= is not specified, the oldest active task instance with the matching name will apply.) instance-criteria= Optional, if task-instance-name= is specified; One of the following (not case-sensitive): oldest_active_instance (default), oldest_instance, newest_active_instance, newest_instance. workflow-instance-name= For a task instance in a workflow, optional; Name of the workflow instance.
Example	<pre>uagcmd ops-task-clear-dependencies html}[-c config.cfg Command Line Interface (CLI)#Configuration File] task-instance-name=Task A </pre></pre>

Clear Virtual Resource Dependencies

Description	Clears all virtual resource dependencies of a task instance.
Syntax	uagcmd ops-task-clear-resources <i>global parameters</i> {task-instance-id= <i>ID</i> task-instance-name= <i>name</i> } [<i>instance-criteria=criteria</i>] [<i>workflow-instance-name=name</i>] <i>resource-name=name</i>

Parameters	<ul style="list-style-type: none"> • <code>task-instance-id=</code> Required if <code>task-instance-name=</code> is not specified; <code>sys_id</code> of the task instance to run the command on. • <code>task-instance-name=</code> Required if <code>task-instance-id=</code> is not specified; Name of the task instance to run the command on. (If <code>instance-criteria=</code> is not specified, the oldest active task instance with the matching name will apply.) • <code>instance-criteria=</code> Optional, if <code>task-instance-name=</code> is specified; One of the following (not case-sensitive): oldest_active_instance (default), oldest_instance, newest_active_instance, newest_instance. • <code>workflow-instance-name=</code> For a task instance in a workflow, optional; Name of the workflow instance. • <code>resource-name=</code> Required; One of the following: <ul style="list-style-type: none"> • Name of the virtual resource dependency to clear. • An asterisk (<code>*</code>) to clear all virtual resource dependencies.
Example	<pre>uagcmd ops-task-clear-resources html}{-c config.cfg Command Line Interface (CLI)#Configuration File} task-instance-name=Task A resource-name=Resource A</pre></pre>

Clear Exclusive Dependencies


Description	Clears all exclusive dependencies of a task instance.
Syntax	<code>uagcmd ops-task-clear-exclusive global parameters {task-instance-id=<i>ID</i> task-instance-name=<i>name</i>} [instance-criteria=<i>criteria</i>] [workflow-instance-name=<i>name</i>]</code>
Parameters	<ul style="list-style-type: none"> • <code>task-instance-id=</code> Required if <code>task-instance-name=</code> is not specified; <code>sys_id</code> of the task instance to run the command on. • <code>task-instance-name=</code> Required if <code>task-instance-id=</code> is not specified; Name of the task instance to run the command on. (If <code>instance-criteria=</code> is not specified, the oldest active task instance with the matching name will apply.) • <code>instance-criteria=</code> Optional, if <code>task-instance-name=</code> is specified; One of the following (not case-sensitive): oldest_active_instance (default), oldest_instance, newest_active_instance, newest_instance. • <code>workflow-instance-name=</code> For a task instance in a workflow, optional; Name of the workflow instance.
Example	<pre>uagcmd ops-task-clear-exclusive html}{-c config.cfg Command Line Interface (CLI)#Configuration File} task-instance-name=Task A </pre></pre>

Clear Time Dependency


Description	Clears the time dependency of a task instance.
Syntax	<code>uagcmd ops-task-clear-timewait global parameters {task-instance-id=<i>ID</i> task-instance-name=<i>name</i>} [instance-criteria=<i>criteria</i>] [workflow-instance-name=<i>name</i>]</code>
Parameters	<ul style="list-style-type: none"> • <code>task-instance-id=</code> Required if <code>task-instance-name=</code> is not specified; <code>sys_id</code> of the task instance to run the command on. • <code>task-instance-name=</code> Required if <code>task-instance-id=</code> is not specified; Name of the task instance to run the command on. (If <code>instance-criteria=</code> is not specified, the oldest active task instance with the matching name will apply.) • <code>instance-criteria=</code> Optional, if <code>task-instance-name=</code> is specified; One of the following (not case-sensitive): oldest_active_instance (default), oldest_instance, newest_active_instance, newest_instance. • <code>workflow-instance-name=</code> For a task instance in a workflow, optional; Name of the workflow instance.


Example	<pre>uagcmd ops-task-clear-timewait html)[-c config.cfg Command Line Interface (CLI)#Configuration File] task-instance-name=Task A </pre></pre>
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Display All Tasks

Description	Displays all specified tasks.
Syntax	<pre>uagcmd ops-task-list global parameters task-name=name [task-type=type]</pre> <div style="background-color: #ffff00; padding: 10px; margin-top: 10px;">  Note For backward-compatibility, you can exclude <code>uagcmd</code> from the command line for this function and all pre-6.2.0.0 CLI functions. </div>
Parameters	<ul style="list-style-type: none"> • <code>task-name=</code> Optional; Name or partial name of one or more tasks. <i>Wildcards</i> 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 / universal_command / ucmd, application_control.
Example	<pre>uagcmd ops-task-list html)[-c config.cfg Command Line Interface (CLI)#Configuration File] task-name=Task A task-type=timer </pre></pre>

Display Task Instance Status

Description	Displays the status of all task instance(s) associated with the specified task.
Syntax	<pre>uagcmd ops-task-status global parameters task-instance-name=name [agent-name=name] [task-type=type] [task-status=status] [{workflow-instance-id=id} {workflow-instance-name=name}] [workflow-instance-criteria=criteria] [options=v]</pre> <div style="background-color: #ffff00; padding: 10px; margin-top: 10px;">  Note For backward-compatibility, you can exclude <code>uagcmd</code> from the command line for this function and all pre-6.2.0.0 CLI functions. </div>

Parameters	<ul style="list-style-type: none"> task-name= Required; Name or partial name of one or more tasks. Wildcards are supported. <div style="background-color: #ffe6e6; padding: 10px; margin: 10px 0;"> <p> Deprecated Replaced by task-instance-name= parameter; the command first will check for task-name=; if it is not specified, the command will check for task-instance-name=.</p> </div> <ul style="list-style-type: none"> task-instance-name= Optional; Name of the task instance(s) to be listed. Wildcards are supported. agent-name= Optional; Name of the agent the task instance(s) are running on. task-type= 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 / universal_command / ucmd, application_control. task-status= Optional; List of comma-separated task status codes and/or names (not case sensitive): <i>status code or name, status code or name, ..., status code or name</i>. An exclamation mark (!) preceding a task status code or name excludes task instances with that status. workflow-instance-id= For a task instance in a workflow, optional if workflow-instance-name= is not specified; sys_id of the workflow instance. workflow-instance-name= For a task instance in a workflow, optional if workflow-instance-id= is not specified; Name of the workflow instance. (If workflow-instance-criteria= is not specified, the oldest active Workflow instance with the matching name will apply.) workflow-instance-criteria= Optional, if workflow-instance-name= is specified; One of the following (not case-sensitive): oldest_active_instance (default), oldest_instance, newest_active_instance, newest_instance. options= Optional; v (Return verbose results.)
Example	<pre>uagcmd ops-task-status html}[-c config.cfg Command Line Interface (CLI)#Configuration File] task-instance-name=mantask agent-name=managent task-type>manual</pre></pre>

Task Instance Status Types

The following table describes all possible task instance statuses for all task types.



Note



The format of multi-word task status names specified in the [Task Instance Status](#) CLI function differs from the format of task status names used in the Controller [user interface](#). In [Task Instance Status](#), the words are separated by an underscore character; in the user interface, they are separated by a space.

Status Name	Status Code	Task Type	Description
Action_Required	60	Manual	When a manual task launches, it goes into Action Required status, meaning a user must perform some manual activity. For details, see Manual task .
Cancel_Pending	99	Agent-based	A process running on the Agent needs to be terminated. When the Cancel command is issued, the task instance will go into a Cancel Pending status until the Agent reports back that the process has been cancelled. At that point, the task instance will transition into the Cancelled status.
Cancelled	130	All	The task was cancelled by a user.


Confirmation_Required	125	z/OS	If you make JCL changes and restart a z/OS task, Universal Controller will put the task into Confirmation Required status and prompt you for a confirmation. For detailed processing steps, see Rerunning a z/OS Task .
Defined	0	All	The new task instance has been created (the task has been launched).
Exclusive_Requested	22	All	All tasks with a mutually exclusive task defined go immediately to a status of Exclusive Requested. If the task is available to run exclusively, the task then moves to the next appropriate processing status.
Exclusive_Wait	23	All	The task is mutually exclusive with one or more other tasks, and it is waiting for those tasks to finish before it will run.
Execution_Wait	33	Agent-based	The task must wait to be completed; either the Agent/Agent Cluster running the task has reached its Task Execution Limit, or the ability of the Agent/Agent Cluster to run tasks has been suspended .
Failed	140	All*	The task ran to a failure status.
Finished	190	All	The task was forced by the user to finish. The user may do this in cases where the task had a Cancelled or Failed status, and the user needed to release other task instances depending on the successful completion of this task instance in a workflow. For more information, see Force Finishing a Task .
Held	20	All	The task has been put on hold by a user.
In_Doubt	110	Agent-based	The Agent is "in doubt" about the current status of the task instance. This may occur if an Agent or Agent connection goes down. In this case, the Agent restarts and reviews its data about tasks in progress. If the Agent finds a task still running, it resumes normal monitoring. If the Agent cannot find the task, this usually indicates that the task completed, but the Agent considers the task status to be "in doubt."
Queued	40	Agent-based	The task has been queued on a resource.
Resource_Requested	25	All	All tasks with a virtual resource defined go immediately to a status of Resource Requested. If the resource is available, the task then moves to the next appropriate processing status.
Resource_Wait	30	All	All tasks with a virtual resource defined go immediately to a status of Resource Requested. If the resource is not available, the task goes to a status of Resource Wait. When the resource becomes available, the task moves to the next appropriate processing status
Running	80	All	The task is running. For Agent-based tasks, the Agent has started running the program.
Running/Problems	81	Workflow	One or more tasks within the workflow has one of the following statuses: <ul style="list-style-type: none"> • Cancelled • Confirmation Required • Failure • In Doubt • Running/Problems (for sub-workflows) • Start Failure • Undeliverable
Skipped	180	All	The task was skipped by a user.
Start Failure	120	All	The task was unable to start.
Started	70	Agent-based , Manual	The task has started. For Agent-based tasks, this means the Agent has received the task.
Submitted	43	z/OS	The task has been submitted to the z/OS Job Entry subsystem and scheduled by the z/OS Job Scheduler.
Success	200	All	The task has completed successfully. Workflows will transition to Success status when all of its tasks have transitioned to Success, Finished, or Skipped status.
Time_Wait	15	All (except Timer)	The task is waiting to start based on a Wait To Start and/or Delay On Start specification.
Undeliverable	35	Agent-based	The Agent is unavailable.
Waiting	10	All	The task has been loaded by a workflow and is waiting on a predecessor.

* Workflows cannot go to Failed status.

Force Finish a Task


Description	<p>Force finishes the specified <i>task instance</i>.</p> <p>See Force Finishing a Task Instance for a description of behavior and restrictions.</p>
Syntax	<pre>uagcmd ops-task-forcefinish global parameters {task-instance-id=ID task-instance-name=name} [instance-criteria=criteria] [workflow-instance-name=name]</pre> <div data-bbox="316 464 1445 596" style="background-color: #ffffcc; padding: 10px; margin-top: 10px;"> <p> Note For backward-compatibility, you can exclude <code>uagcmd</code> from the command line for this function and all pre-6.2.0.0 CLI functions.</p> </div>
Parameter	<ul style="list-style-type: none"> • <code>task-instance=</code> Required; An internal Universal Controller identifier <div data-bbox="394 751 1445 886" style="background-color: #ffe6e6; padding: 10px; margin-top: 10px;"> <p> Deprecated Replaced by <code>task-instance-id=</code> parameter; the command first will check for <code>task-instance=</code>; if it is not specified, the command will check for <code>task-instance-id=</code>.</p> </div> <ul style="list-style-type: none"> • <code>task-instance-id=</code> Required if <code>task-instance-name=</code> is not specified; <code>sys_id</code> of the task instance to run the command on. • <code>task-instance-name=</code> Required if <code>task-instance-id=</code> is not specified; Name of the task instance to run the command on. (If <code>instance-criteria=</code> is not specified, the oldest active task instance with the matching name will apply.) • <code>instance-criteria=</code> Optional, if <code>task-instance-name=</code> is specified; One of the following (not case-sensitive): oldest_active_instance (default), oldest_instance, newest_active_instance, newest_instance • <code>workflow-instance-name=</code> For a task instance in a workflow, optional; Name of the workflow instance.
Example	<pre>uagcmd ops-task-forcefinish html}{-c config.cfg Command Line Interface (CLI)#Configuration File} task-instance-id=90079020d861e5e40128cbb3cdbelcf3</pre></pre>


Launch a Task

Description	<p>Launches the specified task(s). <i>Wildcards</i> are supported.</p>
Syntax	<pre>uagcmd ops-task-launch global parameters [task-type=type] task-name=name [hold=option] [task-variables=variables] [virtual-resource-priority=priority] [virtual-resources=resources]</pre> <div data-bbox="316 1633 1445 1766" style="background-color: #ffffcc; padding: 10px; margin-top: 10px;"> <p> Note For backward-compatibility, you can exclude <code>uagcmd</code> from the command line for this function and all pre-6.2.0.0 CLI functions.</p> </div>


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 / universal_command / ucmd, application_control. • <code>task-name=</code> Required; Valid task name. • <code>hold=</code> Optional; Specification for whether to place the task in Held status when it is launched. Valid values are (not case sensitive): yes/y/true. • <code>task-variables=</code> Optional; Any variables specified in the task that need a value to run properly. • <code>virtual-resource-priority=</code> Optional; Virtual resource priority of the task instance. Valid values are any integer between 1 and 20. Defaults to the virtual resource priority defined in the task Details. • <code>virtual-resources=</code> Optional; Comma-separated list of <resource-name>:<amount> pairs. For example, VR1:10,VR2:20,...,VRN:N. An amount of 0 indicates the virtual resource should be dropped. Defaults to virtual resources defined in the task Details. <p>The virtual resource dependencies specified in <code>virtual-resources=</code> are merged with the default virtual resource dependencies.</p> <ul style="list-style-type: none"> • If a default virtual resource dependency already exists for a specified virtual resource amount, the virtual resource dependency is updated. • Any virtual resource specified with an amount of 0 is dropped from the default virtual resource dependencies; if the virtual resource did not exist as a default dependency, the command will fail. • If a default virtual resource dependency does not already exist for a specified virtual resource amount, the virtual resource dependency is added.
Example	<p>(All variable=value pairs must be specified within one set of braces.)</p> <pre>uagcmd ops-task-launch html}{-c config.cfg Command Line Interface (CLI)#Configuration File} task-variables= Unknown macro: {variable1=first value variable2=second value} </pre></pre>


Put Task on Hold

Description	<p>Puts the specified task instance on hold.</p> <p>See Putting a Task Instance on Hold for a description of behavior and restrictions.</p>
Syntax	<pre>uagcmd ops-task-hold global parameters {task-instance-id=<i>ID</i> task-instance-name=<i>name</i>} [instance-criteria=<i>criteria</i>] [workflow-instance-name=<i>name</i>]</pre> <div style="background-color: #ffffcc; padding: 10px; margin-top: 10px;"> <p> Note For backward-compatibility, you can exclude <code>uagcmd</code> from the command line for this function and all pre-6.2.0.0 CLI functions.</p> </div>


Parameter	<ul style="list-style-type: none"> task-instance= Required; An internal Universal Controller identifier <div style="background-color: #f8d7da; padding: 10px; margin: 10px 0;">  Deprecated Replaced by task-instance-id= parameter; the command first will check for task-instance=; if it is not specified, the command will check for task-instance-id=. </div> <ul style="list-style-type: none"> . task-instance-id= Required if task-instance-name= is not specified; sys_id of the task instance to run the command on. task-instance-name= Required if task-instance-id= is not specified; Name of the task instance to run the command on. (If instance-criteria= is not specified, the oldest active task instance with the matching name will apply.) instance-criteria= Optional, if task-instance-name= is specified; One of the following (not case-sensitive): oldest_active_instance (default), oldest_instance, newest_active_instance, newest_instance workflow-instance-name= For a task instance in a workflow, optional; Name of the workflow instance.
Example	<pre>uagcmd ops-task-hold html}{-c config.cfg Command Line Interface (CLI)#Configuration File} task-instance=90079020d861e5e40128cbb3cdbc1cf3</pre></pre>


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	<pre>uagcmd ops-task-release global parameters {task-instance-id=ID task-instance-id=name} [instance-criteria=criteria] [workflow-instance-name] [recursive=option]</pre> <div style="background-color: #fff3cd; padding: 10px; margin: 10px 0;">  Note For backward-compatibility, you can exclude uagcmd from the command line for this function and all pre-6.2.0.0 CLI functions. </div>


<p>Parameter</p>	<ul style="list-style-type: none"> task-instance= Required; An internal Universal Controller identifier <div data-bbox="394 254 1445 388" style="background-color: #f8d7da; padding: 10px; border: 1px solid #f5c6cb; margin: 10px 0;"> <p> Deprecated Replaced by task-instance-id= parameter; the command first will check for task-instance=; if it is not specified, the command will check for task-instance-id=.</p> </div> <ul style="list-style-type: none"> task-instance-id= Required if task-instance-name= is not specified; sys_id of the task instance to run the command on. task-instance-name= Required if task-instance-id= is not specified; Name of the task instance to run the command on. (If instance-criteria= is not specified, the oldest active task instance with the matching name will apply.) instance-criteria= Optional, if task-instance-name= is specified; One of the following (not case-sensitive): oldest_active_instance (default), oldest_instance, newest_active_instance, newest_instance workflow-instance-name= For a task instance in a workflow, optional; Name of the workflow instance. recursive= Optional; Specification (yes or no), if the task instance specified in task-instance-id= or task-instance-name= is a workflow, for whether or not to release the held workflow recursively. (Default is no.) If the task instance is not a workflow, recursive= is ignored.
<p>Example</p>	<pre>uagcmd ops-task-release html)[-c config.cfg Command Line Interface (CLI)#Configuration File] task-instance-id=90079020d861e5e40128cbb3cdbe1cf3 </pre></pre>


Rerun a Task

<p>Description</p>	<p>Reruns the specified Task instance.</p> <p>See Re-running a Task Instance for a description of behavior and restrictions.</p>
<p>Syntax</p>	<pre>uagcmd ops-task-rerun global parameters {task-instance-id=ID task-instance-name=name} [instance-criteria=criteria] [workflow-instance-name=name] {[task-status=status [recursive= option]]}</pre> <div data-bbox="316 1310 1445 1444" style="background-color: #fff3cd; padding: 10px; border: 1px solid #ffee58; margin: 10px 0;"> <p> Note For backward-compatibility, you can exclude uagcmd from the command line for this function and all pre-6.2.0.0 CLI functions.</p> </div>



Parameter	<ul style="list-style-type: none"> task-instance= Required; An internal Universal Controller identifier <div style="background-color: #f8d7da; padding: 10px; margin: 10px 0;">  Deprecated Replaced by task-instance-id= parameter; the command first will check for task-instance=; if it is not specified, the command will check for task-instance-id=. </div> <ul style="list-style-type: none"> . task-instance-id= Required if task-instance-name= is not specified; sys_id of the task instance to run the command on. task-instance-name= Required if task-instance-id= is not specified; Name of the task instance to run the command on. (If instance-criteria= is not specified, the oldest active task instance with the matching name will apply.) instance-criteria= Optional, if task-instance-name= is specified; One of the following (not case-sensitive): oldest_active_instance (default), oldest_instance, newest_active_instance, newest_instance workflow-instance-name= Optional; Name of the workflow instance. task-status= Optional; list of comma-separated status codes or case-insensitive status names (see below). Format: &lt;status-code-or-name>,&lt;status-code-or-name>,...,&lt;status-code-or-name>. Applicable only if matched task instance is workflow type; command will fail otherwise. <p>All tasks within the matching workflow with a matching status will be queued for re-run. Sub-workflows do not support re-run directly; the recursive= parameter controls whether or not tasks within sub-workflows matching the status will be queued for re-run.</p> <ul style="list-style-type: none"> Start_Failure (120) Cancelled (130) Failed (140) Finished (190) Success (200) <ul style="list-style-type: none"> recursive= Optional if task-status= is specified; One of the following (not case-sensitive): Yes Y true or No N false (default). Indicates whether or not tasks within sub-workflows will qualify for re-run.
Example	<pre>uagcmd ops-task-rerun html}[-c config.cfg Command Line Interface (CLI)#Configuration File] task-instance=8fda93dcd861e5e4005bf48e2cad6206 task-status=140</pre></pre>

Set Manual Task to Started

Description	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.
Syntax	<pre>uagcmd ops-manual-setstarted global parameters {task-instance-id=ID task-instance-name=name} [instance-criteria=criteria] [workflow-instance-name]</pre> <div style="background-color: #fff3cd; padding: 10px; margin: 10px 0;">  Note For backward-compatibility, you can exclude uagcmd from the command line for this function and all pre-6.2.0.0 CLI functions. </div>

Parameter	<ul style="list-style-type: none"> • <code>task-instance=</code> Required; An internal Universal Controller identifier <div style="background-color: #ffe6e6; padding: 10px; margin: 10px 0;">  Deprecated Replaced by <code>task-instance-id=</code> parameter; the command first will check for <code>task-instance=</code>; if it is not specified, the command will check for <code>task-instance-id=</code>. </div> <ul style="list-style-type: none"> • <code>task-instance-id=</code> Required if <code>task-instance-name=</code> is not specified; <code>sys_id</code> of the task instance to run the command on. • <code>task-instance-name=</code> Required if <code>task-instance-id=</code> is not specified; Name of the task instance to run the command on. (If <code>instance-criteria=</code> is not specified, the oldest active task instance with the matching name will apply.) • <code>instance-criteria=</code> Optional, if <code>task-instance-name=</code> is specified; One of the following (not case-sensitive): oldest_active_instance (default), oldest_instance, newest_active_instance, newest_instance • <code>workflow-instance-name=</code> For a task instance in a workflow, optional; Name of the workflow instance.
Example	<pre>uagcmd ops-manual-setstarted html}{-c config.cfg Command Line Interface (CLI)#Configuration File] task-instance=8fda93dcd861e5e4005bf48e2cad6206 </pre></pre>

Set Manual Task to Success

Description	For a Manual task, sets its status to Success.
Syntax	<pre>uagcmd ops-manual-setcompleted global parameters {task-instance-id=ID task-instance-name=name} [instance-criteria=criteria] [workflow-instance-name]</pre> <div style="background-color: #ffffcc; padding: 10px; margin: 10px 0;">  Note For backward-compatibility, you can exclude <code>uagcmd</code> from the command line for this function and all pre-6.2.0.0 CLI functions. </div>
Parameter	<ul style="list-style-type: none"> • <code>task-instance=</code> Required; An internal Universal Controller identifier <div style="background-color: #ffe6e6; padding: 10px; margin: 10px 0;">  Deprecated Replaced by <code>task-instance-id=</code> parameter; the command first will check for <code>task-instance=</code>; if it is not specified, the command will check for <code>task-instance-id=</code>. </div> <ul style="list-style-type: none"> • <code>task-instance-id=</code> Required if <code>task-instance-name=</code> is not specified; <code>sys_id</code> of the task instance to run the command on. • <code>task-instance-name=</code> Required if <code>task-instance-id=</code> is not specified; Name of the task instance to run the command on. (If <code>instance-criteria=</code> is not specified, the oldest active task instance with the matching name will apply.) • <code>instance-criteria=</code> Optional, if <code>task-instance-name=</code> is specified; One of the following (not case-sensitive): oldest_active_instance (default), oldest_instance, newest_active_instance, newest_instance • <code>workflow-instance-name=</code> For a task instance in a workflow, optional; Name of the workflow instance.


Example	<pre>uagcmd ops-manual-setcompleted html}{-c config.cfg Command Line Interface (CLI)#Configuration File] task-instance=8fda93dcd861e5e4005bf48e2cad6206 </pre></pre>
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Set or Modify Wait Time for a Task Instance


Description	Sets or modifies the Wait time for a task instance that specifies how long it will wait to run after it has become eligible to run.
Syntax	<pre>uagcmd ops-task-set-timewait global parameters {task-instance-id=ID task-instance-name=name} [instance-criteria=criteria] [workflow-instance-name=name] {wait-type=type [wait-day-constraint=constraint] {wait-time=wait time wait-duration=duration wait-seconds= duration in seconds} delay-type=type {delay-duration=duration delay-seconds=duration in seconds}}</pre>
Parameters	<ul style="list-style-type: none"> task-instance-id= <p>Required if task-instance-name= is not specified; sys_id of the task instance.</p> task-instance-name= <p>Required if task-instance-id= is not specified; Name of the time task instance. (If instance-criteria= is not specified, the oldest active task instance with the matching name will apply.)</p> instance-criteria= <p>Optional, if task-instance-name= is specified; One of the following (not case-sensitive): oldest_active_instance (default), oldest_instance, newest_active_instance, newest_instance.</p> workflow-instance-name= <p>For a task instance in a workflow, optional; Name of the workflow instance. (The most recently created workflow instance with the matching name will apply.)</p> wait-type= <p>Required if delay-type= is not specified; one of the following (not case sensitive): none, time, relative_time, duration, seconds.</p> wait-time= <p>Required if wait-type=time or relative_time; Wait time in format HH:MM. <i>Variables</i> are supported.</p> wait-day-constraint= <p>Optional if wait-type=time or relative_time; One of the following (not case sensitive): none, same day/same_day, next day/next_day, next business day/next_business_day, sunday, monday, tuesday, wednesday, thursday, friday, saturday.</p> wait-duration= <p>Required if wait-type=duration; Wait duration in format DD:HH:MM:SS.</p> wait-seconds= <p>Required if wait-type=seconds; Wait duration in format SS. <i>Variables</i> are supported.</p> delay-type= <p>Required if wait-type= is not specified; One of the following (not case sensitive): none, duration, seconds.</p> delay-duration= <p>Required if delay_type=duration; Specific delay duration in format DD:HH:MM:SS.</p> delay-seconds= <p>Required if delay_type=seconds; Specific delay duration in format SS. <i>Variables</i> are supported.</p>
Example	<pre>uagcmd ops-task-set-timewait html}{-c config.cfg Command Line Interface (CLI)#Configuration File] task-instance-name=Task 5A workflow-instance-name=Workflow A wait-type=time wait-time=18:00 </pre></pre>

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	<pre>uagcmd ops-task-setpriority global parameters {task-instance-id=ID task-instance-name=name} [instance-criteria=criteria] [workflow-instance-name] priority=priority</pre>

Parameters	<ul style="list-style-type: none"> • <code>task-instance=</code> Required; An internal Universal Controller identifier <div style="background-color: #ffe6e6; padding: 10px; margin: 10px 0;">  Deprecated Replaced by <code>task-instance-id=</code> parameter; the command first will check for <code>task-instance=</code>; if it is not specified, the command will check for <code>task-instance-id=</code>. </div> <ul style="list-style-type: none"> • <code>task-instance-id=</code> Required if <code>task-instance-name=</code> is not specified; <code>sys_id</code> of the task instance to run the command on. • <code>task-instance-name=</code> Required if <code>task-instance-id=</code> is not specified; Name of the task instance to run the command on. (If <code>instance-criteria=</code> is not specified, the oldest active task instance with the matching name will apply.) • <code>instance-criteria=</code> Optional, if <code>task-instance-name=</code> is specified; One of the following (not case-sensitive): oldest_active_instance (default), oldest_instance, newest_active_instance, newest_instance • <code>workflow-instance-name=</code> For a task instance in a workflow, optional; Name of the workflow instance. • <code>priority=</code> Required; One of the following (not case sensitive): high, medium, low.
Example	<pre>uagcmd ops-task-setpriority html)[-c config.cfg Command Line Interface (CLI)#Configuration File] task-instance=90079026d861e5e400bba81913a4fdd0 priority=high</pre></pre>

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	<pre>uagcmd ops-task-skip <i>global parameters</i> {task-instance-id=<i>ID</i> task-instance-name=<i>name</i>} [instance-criteria=<i>criteria</i>] [workflow-instance-name]</pre>
Parameter	<ul style="list-style-type: none"> • <code>task-instance=</code> Required; An internal Universal Controller identifier <div style="background-color: #ffe6e6; padding: 10px; margin: 10px 0;">  Deprecated Replaced by <code>task-instance-id=</code> parameter; the command first will check for <code>task-instance=</code>; if it is not specified, the command will check for <code>task-instance-id=</code>. </div> <ul style="list-style-type: none"> • <code>task-instance-id=</code> Required if <code>task-instance-name=</code> is not specified; <code>sys_id</code> of the task instance to run the command on. • <code>task-instance-name=</code> Required if <code>task-instance-id=</code> is not specified; Name of the task instance to run the command on. (If <code>instance-criteria=</code> is not specified, the oldest active task instance with the matching name will apply.) • <code>instance-criteria=</code> Optional, if <code>task-instance-name=</code> is specified; One of the following (not case-sensitive): oldest_active_instance (default), oldest_instance, newest_active_instance, newest_instance • <code>workflow-instance-name=</code> For a task instance in a workflow, optional; Name of the workflow instance.

Example

```
uagcmd ops-task-skip html}[-c config.cfg|Command Line Interface (CLI)#Configuration  
File] task-instance=90079026d861e5e400bba81913a4fdd0 </pre>
```

Tasks in Workflow Functions

- [Overview](#)
- [Clear Predecessor Dependencies](#)
- [Insert a Task into a Workflow Instance with Dependencies](#)
- [List Predecessors / Successors of a Task Instance in a Workflow](#)

Overview

The [command line syntax](#) for each execution of the CLI command, **uagcmd**, must specify a single CLI function, required / optional [Global parameters](#), and required / optional function-specific parameters. You must use the required Global parameters to connect to [OMS Servers](#) and to log on to a Controller ([User ID](#) and [Password](#)).

Universal Controller supports the following CLI functions for Tasks in Workflows, which are listed alphabetically on this page.

- [Clear Predecessor Dependencies](#)
- [Insert a Task into a Workflow Instance with Dependencies](#)
- [List Predecessors / Successors of a Task Instance in a Workflow](#)


Syntax, parameters, and examples for each function are provided.

Clear Predecessor Dependencies

Description	Clears all predecessor dependencies of a task instance in a Workflow.
Syntax	<code>uagcmd ops-task-clear-predecessors global parameters {task-instance-id=<i>ID</i> task-instance-name=<i>name</i>} [instance-criteria=<i>criteria</i>] [workflow-instance-name=<i>name</i>] predecessor-name=<i>name</i></code>
Parameters	<ul style="list-style-type: none"> • <code>task-instance-id=</code> Required if <code>task-instance-name=</code> is not specified; <code>sys_id</code> of the task instance to run the command on. • <code>task-instance-name=</code> Required if <code>task-instance-id=</code> is not specified; Name of the task instance to run the command on. (If <code>instance-criteria=</code> is not specified, the oldest active task instance with the matching name will apply.) • <code>instance-criteria=</code> Optional if <code>task-instance-name=</code> is specified; One of the following (not case-sensitive): oldest_active_instance (default), oldest_instance, newest_active_instance, newest_instance. • <code>workflow-instance-name=</code> Optional; Name of the workflow instance. • <code>predecessor-name=</code> Required; One of the following: Name of the predecessor dependency to clear or an asterisk (<code>*</code>) to clear all predecessor dependencies.
Example	<pre>uagcmd ops-task-clear-predecessors -c config.cfg task-instance-name=Task A predecessor-name=Resource B</pre>

Insert a Task into a Workflow Instance with Dependencies

Description	Inserts a task into a Workflow instance with dependencies.
Syntax	<code>uagcmd ops-task-insert global parameters {workflow-instance-id=<i>ID</i> workflow-instance-name=<i>name</i>} [workflow-instance-criteria=<i>criteria</i>] {task-id=<i>ID</i> task-name=<i>name</i>} [vertex-x=<i>x-coordinate</i>] [vertex-y=<i>y-coordinate</i>] [alias=<i>task alias</i>] {predecessors=<i>predecessors list</i> successors=<i>successors list</i>}</code>

Parameters	<ul style="list-style-type: none"> • <code>workflow-instance-id=</code> Required if <code>workflow-instance-name</code> is not specified; <code>sys_id</code> of the Workflow instance. • <code>workflow-instance-name=</code> Required if <code>workflow-instance-id</code> is not specified; Name of the workflow instance. (If <code>workflow-instance-criteria=</code> is not specified, the oldest active Workflow with the matching name will apply.) • <code>workflow-instance-criteria=</code> Optional, if <code>workflow-instance-name=</code> is specified; One of the following (not case-sensitive): oldest_active_instance (default), oldest_instance, newest_active_instance, newest_instance. • <code>task-id=</code> Required if <code>task-name</code> is not specified; <code>sys_id</code> of the task to be inserted. • <code>task-name=</code> Required if <code>task-id</code> is not specified; Name of the task to be inserted. • <code>vertex-x</code> Optional; x-coordinate of the task within the workflow. • <code>vertex-y</code> Optional; y-coordinate of the task within the workflow. • <code>alias=</code> Optional; Alias used for the task within the Workflow; specifically, the value of <code>ops_exec_workflow_vertex.name</code>. • <code>predecessors=</code> Optional; Comma-separated list of predecessor task instances within the workflow. • <code>successors=</code> Optional; Comma-separated list of successor task instances within the workflow. <div style="background-color: #ffffcc; padding: 10px; margin-top: 10px;"> <p> Note Valid values for <code>predecessors</code> and <code>successors</code>:</p> <ul style="list-style-type: none"> • If both <code>predecessors</code> and <code>successors</code> lists are empty, task will be inserted without dependencies. • If there is a task name in one of the lists that does not exist, the operation will fail with error Cannot find vertex with the name ... • If a list contains the task name with multiple occurrences in the workflow, the operation will fail with error Multiple vertices found for the name... (For example, the workflow contains two tasks (Sleep 30, Sleep 30) and you are trying to insert Task ABC with <code>predecessors = Sleep 30</code>). </div>
Example	<pre style="border: 1px solid #ccc; padding: 5px;">uagcmd ops-task-insert -c config.cfg workflow-instance-name=Workflow A task-name=Task 5A successors=Task 5B,Task 5C</pre>

List Predecessors / Successors of a Task Instance in a Workflow

Description	Lists predecessors and/or successors of a task instance within a workflow.
Syntax	<pre>uagcmd ops-task-dependency-list global parameters workflow-instance-name=name [instance-criteria=criteria] {task-instance-id=ID task-instance-name=name} [dependency-type= type]</pre>
Parameters	<ul style="list-style-type: none"> • <code>task-instance-id=</code> Required if <code>task-instance-name=</code> is not specified; <code>sys_id</code> of the task instance whose predecessors and/or successors you want to list. • <code>task-instance-name=</code> Required if <code>task-instance-id=</code> is not specified; Name of the task instance whose predecessors and/or successors you want to list. • <code>dependency-type=</code> Optional; One of the following (not case sensitive): predecessors or successors. If <code>dependency-type=</code> is not specified, all predecessors and successors of the specified task instance are listed. • <code>workflow-instance-name=</code> Required; Name of the workflow instance. (If <code>instance-criteria=</code> is not specified, the oldest active Workflow instance with the matching name will apply.) • <code>instance-criteria=</code> Optional; One of the following (not case-sensitive): oldest_active_instance (default), oldest_instance, newest_active_instance, newest_instance.

Example

```
uagcmd ops-task-dependency-list -c config.cfg  
task-instance-id=14714650784870352570T7OR91KT5QSM
```


Trigger Functions

- [Overview](#)
- [Disable a Trigger](#)
- [Enable a Trigger](#)
- [Launch Trigger Tasks Now](#)
- [List Triggers Status](#)
- [Modify Time of a Time Trigger](#)

Overview


The [command line syntax](#) for each execution of the CLI command, **uagcmd**, must specify a single CLI function, required / optional [Global parameters](#), and required / optional function-specific parameters. You must use the required Global parameters to connect to [OMS Servers](#) and to log on to a Controller ([User ID](#) and [Password](#)).

Universal Controller supports the following CLI functions for Triggers, which are listed alphabetically on this page.

- [Disable a Trigger](#)
- [Enable a Trigger](#)
- [Launch Trigger Tasks Now](#)
- [List Triggers Status](#)
- [Modify Time of a Time Trigger](#)

Syntax, parameters, and examples for each function are provided.

Disable a Trigger


Description	Disables the specified trigger(s).
Syntax	<pre>uagcmd ops-trigger-disable global parameters trigger-name=name [trigger-type=type]</pre> <div style="background-color: #ffffcc; padding: 10px; margin-top: 10px;"> <p> Note For backward-compatibility, you can exclude uagcmd from the command line for this function and all pre-6.2.0.0 CLI functions.</p> </div>
Parameters	<ul style="list-style-type: none"> • trigger-name= Name or partial name of one or more triggers. Wildcards are supported. • trigger-type= 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. One of the following (not case-sensitive): cron, time, file_trigger, temporary, task_monitor, manual, application_monitor.
Example	<pre>uagcmd ops-trigger-disable -c config.cfg trigger-name=Trigger A</pre>

Enable a Trigger

Description	Enables the specified trigger(s).
--------------------	-----------------------------------

Syntax	<pre>uagcmd ops-trigger-enable global parameters trigger-name=name [trigger-type=type]</pre> <div style="background-color: #ffffcc; padding: 10px; margin-top: 10px;">  <p>Note For backward-compatibility, you can exclude <code>uagcmd</code> from the command line for this function and all pre-6.2.0.0 CLI functions.</p> </div>
Parameters	<ul style="list-style-type: none"> <code>trigger-name=</code> Name or partial name of one or more triggers. <i>Wildcards</i> 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.
Example	<pre>uagcmd ops-trigger-enable -c config.cfg trigger-name=Trigger A</pre>

Launch Trigger Tasks Now


Description	Marks all conditions as satisfied in the specified trigger(s) and launches its associated tasks.
Syntax	<pre>uagcmd ops-trigger-now global parameters trigger-name=name [trigger-type=type] [hold=option] [virtual-resource-priority=integer] [virtual-resources=list] [trigger-variables=variables]</pre> <div style="background-color: #ffffcc; padding: 10px; margin-top: 10px;">  <p>Note For backward-compatibility, you can exclude <code>uagcmd</code> from the command line for this function and all pre-6.2.0.0 CLI functions.</p> </div>
Parameters	<ul style="list-style-type: none"> <code>trigger-name=</code> Required; Name or partial name of one or more triggers. <i>Wildcards</i> 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>hold=</code> Optional; Specification for whether to place the task(s) in Held status when it is triggered. Valid values are (not case sensitive): yes/y/true. <code>virtual-resource-priority=</code> Optional; Virtual resource priority of all task instances specified for the trigger. Valid values are any integer between 1 and 20. Defaults to the virtual resource priority defined in the task Details. <code>virtual-resources=</code> Optional; Comma-separated list of <resource-name>:<amount> pairs. For example, VR1:10,VR2:20,...,VRN:N. An amount of 0 indicates the virtual resource should be dropped. Defaults to virtual resources defined in the task Details. <p>The virtual resource dependencies specified in <code>virtual-resources=</code> are merged with the default virtual resource dependencies.</p> <ul style="list-style-type: none"> If a default virtual resource dependency already exists for a specified virtual resource amount, the virtual resource dependency is updated. Any virtual resource specified with an amount of 0 is dropped from the default virtual resource dependencies; if the virtual resource did not exist as a default dependency, the command will fail. If a default virtual resource dependency does not already exist for a specified virtual resource amount, the virtual resource dependency is added. <ul style="list-style-type: none"> <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: 10px;">uagcmd ops-trigger-now -c config.cfg trigger-name=Trigger A trigger-variables={variable1=first value variable2=second value}</pre>
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List Triggers Status

Description	Lists the status of the specified trigger(s). Possible statuses are Enabled or Disabled .
Syntax	<code>uagcmd ops-trigger-status global parameters 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. <i>Wildcards</i> are supported. • <code>trigger-type=</code> Optional; One of the following (not case-sensitive): cron, time, file_trigger, temporary, task_monitor, manual, application_monitor. (If not specified, statuses for all Trigger types are listed.) • <code>trigger-status=</code> Optional; One of the following (not case sensitive): enabled, disabled. • <code>options=</code> Optional; v (Return verbose results.)
Example	<pre style="border: 1px solid #ccc; padding: 10px;">uagcmd ops-trigger-status -c config.cfg trigger-name=Trigger A status=disabled</pre>

Modify Time of a Time Trigger

Description	Modifies the Time field of a Time Trigger with the Time Style field set to time .
Syntax	<code>uagcmd ops-trigger-set-time global parameters {trigger-id=ID trigger-name=name} time=time</code> <div style="background-color: #ffffcc; padding: 10px; margin-top: 10px;"> <p> Note For backward-compatibility, you can exclude <code>uagcmd</code> from the command line for this function and all pre-6.2.0.0 CLI functions.</p> </div>
Parameters	<ul style="list-style-type: none"> • <code>trigger-id=</code> Required if <code>trigger-name=</code> is not specified; <code>sys_id</code> of the time trigger. • <code>trigger-name=</code> Required if <code>trigger-id=</code> is not specified; Name of the time trigger. • <code>time=</code> Required; New trigger time in format HH:MM.
Example	<pre style="border: 1px solid #ccc; padding: 10px;">uagcmd ops-trigger-set-time -c config.cfg trigger-name=Trigger A time=15:00</pre>

Variable Functions

- [Overview](#)
- [List Variables](#)
- [Set Variables](#)

Overview


The **command line syntax** for each execution of the CLI command, **uagcmd**, must specify a single CLI function, required / optional **Global parameters**, and required / optional function-specific parameters. You must use the required Global parameters to connect to **OMS Servers** and to log on to a Controller (**User ID** and **Password**).

Universal Controller supports the following CLI functions for Variables, which are listed alphabetically on this page.

- [List Variables](#)
- [Set Variables](#)



Syntax, parameters, and examples for each function are provided.

List Variables

Description	Lists the specified variable(s).
Syntax	<p><code>uagcmd ops-variable-list global parameters variable-name=name variable-scope=scope [task-name=name] [trigger-name=name] [options=v]</code></p> <div style="background-color: #FFFF00; padding: 10px; margin-top: 10px;"> <p> Note For backward-compatibility, you can exclude uagcmd from the command line for this function and all pre-6.2.0.0 CLI functions.</p> </div>
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 Universal 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	<div style="border: 1px solid #0070C0; padding: 10px; margin-top: 10px;"> <pre>uagcmd ops-variable-list -c config.cfg variable-name=abc variable-scope=task task-name=Task A</pre> </div>

Set Variables

Description	Sets the specified variable.
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<p>Syntax</p>	<pre>uagcmd ops-variable-set global parameters variable-name=name variable-scope=scope variable-value=string [variable-description=description] [task-name=name] [trigger-name=name] create=option</pre> <div data-bbox="316 258 1445 390" style="background-color: #ffffcc; padding: 10px; margin-top: 10px;"> <p> Note For backward-compatibility, you can exclude <code>uagcmd</code> from the command line for this function and all pre-6.2.0.0 CLI functions.</p> </div>
<p>Parameters</p>	<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 Universal 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.
<p>Example</p>	<div data-bbox="316 976 1445 1073" style="border: 1px solid #add8e6; padding: 10px; margin-top: 10px;"> <pre>uagcmd ops-variable-set -c config.cfg variable-name=myvar1 variable-value=mydata1 create=yes</pre> </div> <div data-bbox="316 1144 1445 1249" style="background-color: #ffe6e6; padding: 10px; margin-top: 10px;"> <p> Warning CLI supports modifying only certain types of variables - see Modifying Variables.</p> </div>

RESTful Web Services API

- Overview
 - Access
 - Returned Messages
 - User Restriction
 - Password Expiration

Overview

Universal Controller supports a RESTful-based web services API that allows you to perform multiple operations, which are listed alphabetically on the following pages.

Formatting specifications for each web service, including details about field requirements, are provided.

Agents	<ul style="list-style-type: none"> • Delete an Agent • Request a List of Agents • Resume an Agent • Set Agent Task Execution Limit • Suspend an Agent
Agent Clusters	<ul style="list-style-type: none"> • Return an Agent from an Agent Cluster • Resume an Agent Cluster • Resume an Agent Cluster Membership • Set an Agent Cluster Task Execution Limit • Suspend an Agent Cluster • Suspend an Agent Cluster Membership
Bundles	<ul style="list-style-type: none"> • Schedule Bundle Promotion
Calendars	<ul style="list-style-type: none"> • Create a Calendar • Delete a Calendar • Modify a Calendar • Read a Calendar
Custom Days	<ul style="list-style-type: none"> • Create a Custom Day • Delete a Custom Day • Modify a Custom Day • Read a Custom Day
OMS Servers	<ul style="list-style-type: none"> • List OMS Servers
Passwords	<ul style="list-style-type: none"> • Change a Universal Controller User Password • Change Runtime Password on Credentials
Resources	<ul style="list-style-type: none"> • List Virtual Resources • Set Limit on a Virtual Resource

Task Instances	<ul style="list-style-type: none"> • Clear All Dependencies • Clear Exclusive Dependencies • Clear Predecessor Dependencies • Clear Time Dependency • Clear Virtual Resource Dependencies • Delete a Task Instance • Display Task Instance Status • Release a Task from Hold • Set or Modify Wait Time/Duration for Task Instance
Tasks	<ul style="list-style-type: none"> • Create a Task • Create a Task (Windows, Linux/Unix, z/OS) - Deprecated • Delete a Task • Launch a Task • Modify a Task • Query a List of Tasks • Read a Task
Tasks in Workflows	<ul style="list-style-type: none"> • Insert a Task into a Workflow with Dependencies • List Predecessors / Successors of a Task Instance in a Workflow
Triggers	<ul style="list-style-type: none"> • Create a Trigger • Create a Trigger (Temporary) - Deprecated • Delete a Trigger • Enable/Disable a Trigger • Modify a Trigger • Modify Time of Time Trigger • Query a List of Triggers • Read a Trigger • Trigger a Task
Variables	<ul style="list-style-type: none"> • List Variables • Set Variables

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 Universal 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 [opswise.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](#) Universal 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 [opswise.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.

Agent Web Services

- [Overview](#)
- [Delete an Agent](#)
- [Request a List of Agents](#)
- [Resume an Agent](#)
- [Set an Agent Task Execution Limit](#)
- [Suspend an Agent](#)

Overview

Universal Controller supports the following RESTful-based web services for Agent operations, which are listed alphabetically on this page.

- [Delete an Agent](#)
- [Request a List of Agents](#)
- [Resume an Agent](#)
- [Set an Agent Task Execution Limit](#)
- [Suspend an Agent](#)

Formatting specifications for each web service, including details about property requirements, are provided.

Delete an Agent

	Description
URI	http://host_name/opswise/resources/agents
HTTP Method	DELETE
Description	Deletes an Agent.
Request Parameters	agentid or agentname
Required Parameters	agentid or agentname
Mutually Exclusive Parameters	agentid and agentname
Example URI	<ul style="list-style-type: none"> • http://localhost:8080/opswise/resources/agent?agentname=test-pc-SS0001 • http://localhost:8080/opswise/resources/agent?agentid=SS0001
Authentication	HTTP Basic
Response Example	<ul style="list-style-type: none"> • Success: Status 200 /OK with the message "Agent deleted successfully" • Failure: Status 400 Bad Request / with the message "Mutual exclusion violation. Cannot specify agentname and agentid at the same time."

Request a List of Agents

	Description
URI	http://host_name/opswise/resources/agents/list
HTTP Method	GET
Description	Returns the list of all agents.
Example URI	http://localhost:8080/opswise/resources/agents/list
Authentication	HTTP Basic
Produces Content-Type	application/xml

XML Response Example	<pre> <agents> <agent> <hostName>testHost</hostName> <ipAddress>10.253.1.111</ipAddress> <name>super2 - 1</name> <queueName>AGNT0001</queueName> <status>Offline</status> <sysID>91149e0dc0a8016b01ddd96883a1ad9a</sysID> <type>Windows</type> <version>6.2.0</version> </agent> ... </agents> </pre>
----------------------	---

Resume an Agent

	Description
URI	http://host_name/opswise/resources/agents/ops-resume-agent
HTTP Method	POST
Description	Resumes the specified agent.
Example URI	http://localhost:8080/opswise/resources/agents/ops-resume-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>

Set an Agent Task Execution Limit

	Description
URI	http://host_name/opswise/resources/agents/ops-set-agent-task-execution-limit
HTTP Method	POST

Example URI	http://localhost:8080/opswise/resources/agents/ops-set-agent-task-execution-limit
Description	Sets the task execution limit 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 an Agent

	Description
URI	http://host_name/opswise/resources/agents/ops-suspend-agent
HTTP Method	POST
Description	Suspends the specified agent.
Example URI	http://localhost:8080/opswise/resources/agents/ops-suspend-agent
Authentication	HTTP Basic
Consumes Content-Type	application/xml

<p>Produces Content-Type</p>	<p>application/xml</p>
<p>XML Request Example</p>	<p>By Agent Name</p> <pre data-bbox="435 226 1281 359"> <suspend-agent> <agentName>XPS-8300 - AGNT0001</agentName> </suspend-agent> </pre> <p>By Agent ID</p> <pre data-bbox="435 432 1281 564"> <suspend-agent> <agentID>AGNT0001</agentID> </suspend-agent> </pre>
<p>XML Response Example</p>	<pre data-bbox="435 627 1281 825"> <command-response> <type>suspend_agent</type> <success>>true</success> <info>Successfully suspended agent "XPS-8300 - AGNT0001".</info> <errors /> </command-response> </pre>

Agent Cluster Web Services

- [Overview](#)
- [Resume an Agent Cluster](#)
- [Resume an Agent Cluster Membership](#)
- [Return an Agent from an Agent Cluster](#)
- [Set an Agent Cluster Task Execution Limit](#)
- [Suspend an Agent Cluster](#)
- [Suspend an Agent Cluster Membership](#)

Overview

Universal Controller supports the following RESTful-based web services for Agent Cluster operations, which are listed alphabetically on this page.

- [Resume an Agent Cluster](#)
- [Resume an Agent Cluster Membership](#)
- [Return an Agent from an Agent Cluster](#)
- [Set an Agent Cluster Task Execution Limit](#)
- [Suspend an Agent Cluster](#)
- [Suspend an Agent Cluster Membership](#)

Formatting specifications for each web service, including details about property requirements, are provided.

Resume an Agent Cluster

	Description
URI	http://host_name/opswise/resources/agents/ops-resume-agent-cluster
HTTP Method	POST
Description	Resumes the specified agent cluster.
Example URI	http://localhost:8080/opswise/resources/agents/ops-resume-agent-cluster
Authentication	HTTP Basic
Consumes Content-Type	application/xml
Produces Content-Type	application/xml
XML Request Example	<pre><resume-agent-cluster> <agentClusterName>Opswise - 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 "Opswise - Default Windows Cluster".</info> <errors /> </command-response></pre>

Resume an Agent Cluster Membership

	Description
--	-------------

URI	http://host_name/opswise/resources/agents/ops-resume-agent-cluster-membership
HTTP Method	POST
Description	Resumes the specified agent cluster membership.
Example URI	http://localhost:8080/opswise/resources/agents/ops-resume-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>

Return an Agent from an Agent Cluster

	Description
URI	http://hostName:port/opswise/resources/agentcluster/agent
HTTP Method	GET
Description	Returns the Agent from an Agent Cluster with distribution type Any or Lowest CPU Utilization .
Request Parameters	agentclustername and ignoreexecutionlimit
Example Request URI	http://localhost:8080/opswise/resources/agentcluster/agent?agentclustername=testCluster&ignoreexecutionlimit=true
Example Response	<pre><agent> <hostName>asus-pc</hostName> <ipAddress>10.253.1.77</ipAddress> <name>asus-pc - AGNT0002</name> <queueName>AGNT0002</queueName> <status>Active</status> <sysID>4425b28449574bb181d78e47c02867ac</sysID> <type>Windows</type> <version>6.2.0.0</version> </agent></pre>

Properties	<ul style="list-style-type: none"> agentclustername: Required; type = String; URI property. ignoreexecutionlimit: Optional; type = Boolean (true/false), Default is false; URI property.
------------	--

Set an Agent Cluster Task Execution Limit

	Description
URI	http://host_name/opswise/resources/agents/ops-set-agent-cluster-task-execution-limit
HTTP Method	POST
Description	Sets the task execution limit for the specified agent cluster.
Example URI	http://localhost:8080/opswise/resources/agents/ops-set-agent-cluster-task-execution-limit
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>

Suspend an Agent Cluster

	Description
URI	http://host_name/opswise/resources/agents/ops-suspend-agent-cluster
HTTP Method	POST
Description	Suspends the specified agent cluster.
Example URI	http://localhost:8080/opswise/resources/agents/ops-suspend-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 an Agent Cluster Membership

	Description
URI	http://host_name/opwise/resources/agents/ops-suspend-agent-cluster-membership
HTTP Method	POST
Description	Suspends the specified agent cluster membership.
Example URI	http://localhost:8080/opwise/resources/agents/ops-suspend-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>

Bundle Web Services

- [Overview](#)
- [Schedule Bundle Promotion](#)

Overview

Universal Controller supports the following RESTful-based web services for Bundle operations, which are listed alphabetically on this page.

- [Schedule Bundle Promotion](#)

Formatting specifications for each web service, including details about property requirements, are provided.

Schedule Bundle Promotion

	Description
URI	http://host_name/opswise/resources/bundle/promote
HTTP Method	POST
Description	Schedules the promotion of a Bundle.
Example URI	http://localhost:8080/opswise/resources/bundle/promote
Authentication	HTTP Basic
Consumes Content-Type	application/xml
Produces Content-Type	application/xml
XML Request Example	<pre><bundle-promote> <id>a17c53a4975d4df59ddf4e6f1fb0b111</id> <promotionTargetName>testTarget</promotionTargetName> <overrideUser>testUser</overrideUser> <overridePassword>testPassword</overridePassword> <schedule>true</schedule> <createSnapshot>true</createSnapshot> <date>2015-10-31</date> <time>22:00</time> <notificationOption>operation success</notificationOption> </bundle-promote></pre>
XML Response Example	<pre><command-response> <type>schedule_promotion</type> <success>true</success> <info>Successfully scheduled the promotion of bundle "test" to promotion target "testTarget" for 2015-10-31 22:00:00 -0600.</info> <errors /> </command-response></pre>
Required Parameters	<ul style="list-style-type: none"> • id or name • overrideUser (if overridePassword is specified) • overridePassword (if overrideUser is specified) • schedule; Valid values = Yes,Y,true / No,N,false • date (if schedule is Yes,Y,true; format is yyyy-MM-dd)

<p>Optional Parameters</p>	<ul style="list-style-type: none"> • promotionTargetId • promotionTargetName • time; Default is 00:00 • createSnapshot; Valid values = Yes,Y,true • notificationOption; Valid values (not case sensitive) = operation failure (default), operation success/failure, operation success
<p>Mutually Exclusive Parameters</p>	<ul style="list-style-type: none"> • id and name • promotionTargetId and promotionTargetName

Calendar Web Services

- Overview
- Create a Calendar
- Delete a Calendar
- Modify a Calendar
- Read a Calendar

Overview

Universal Controller supports the following RESTful-based web services for Calendar operations, which are listed alphabetically on this page.

- Create a Calendar
- Delete a Calendar
- Modify a Calendar
- Read a Calendar

Formatting specifications for each web service, including details about parameter requirements, are provided.

Create a Calendar

	Description
URI	http://host_name/opswise/resources/calendar
HTTP Method	POST
Description	Creates a new Calendar.
Example URI	http://localhost:8080/opswise/resources/calendar

<p>Example XML Request</p>	<p>retainSysIds valid values: true/false</p> <pre style="border: 1px solid #add8e6; padding: 10px;"> <calendar retainSysIds="true"> <businessDays>Monday,Tuesday,Wednesday,Thursday,Friday</businessDays> <customDays> <customDay> <name>Ops - Christmas</name> <sysId>daf16d70c0a801650040c4d58a3feebd</sysId> </customDay> <customDay> <name>Ops - Flag Day</name> <sysId>daf16d8fc0a801650040c4d54b2432fb</sysId> </customDay> <customDay> <name>Ops - Columbus Day</name> <sysId>daf16d8fc0a801650040c4d5efd639c5</sysId> </customDay> <customDay> <name>Ops - Labor Day</name> <sysId>daf16d9fc0a801650040c4d577ea2e82</sysId> </customDay> <customDay> <name>Ops - Independence Day</name> <sysId>daf16d9fc0a801650040c4d5bff58bff</sysId> </customDay> <customDay> <name>Ops - Martin Luther King Jr. Day</name> <sysId>daf16d9fc0a801650040c4d5c09c4a78</sysId> </customDay> <customDay> <name>Ops - Memorial Day</name> <sysId>daf16dafc0a801650040c4d58a11c4d5</sysId> </customDay> <customDay> <name>Ops - New Year's Day</name> <sysId>daf16dafc0a801650040c4d5e2c66d0f</sysId> </customDay> <customDay> <name>Ops - President's Day</name> <sysId>daf16dbec0a801650040c4d565981296</sysId> </customDay> <customDay> <name>Ops - Thanksgiving Day USA</name> <sysId>daf16dbec0a801650040c4d5b619c199</sysId> </customDay> <customDay> <name>Ops - Veterans Day</name> <sysId>daf16dcec0a801650040c4d53accabab</sysId> </customDay> </customDays> <comments>American Calendar</comments> <name>Opwise - American Calendar</name> <opwiseGroups /> <sysId>da24b953c0a8016501fbcb18464d8328</sysId> </calendar> </pre>
<p>Properties</p>	<ul style="list-style-type: none"> • Calendar Properties • Custom Day Properties
<p>Example Response</p>	<ul style="list-style-type: none"> • Status 200 /OK Successfully created the calendar with sysId <sysId>.

Calendar Properties

Attribute **retainSysIds** specifies whether or not the Create a Calendar web service should persist the **sysId** property. Optional; Valid values: true/false (default is true).

Property	Description
businessDays	Comma-separated list of days. Valid values: Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday

comments	
name	
opswiseGroups	<p>List of Business Services:</p> <pre><opswiseGroups> <opswiseGroup>test</opswiseGroup> </opswiseGroups></pre>
sysId	Persisted only if retainSysIds is set to true.

Custom Day Properties

Property	Description
name	
sysId	sysId of the Calendar-to-Custom Day relationship.

Delete a Calendar

	Description
URI	http://host_name/opswise/resources/calendar
HTTP Method	DELETE
Description	Deletes the specified Calendar .
Request Parameters	calendarid or calendarname
Mutually Exclusive Parameters	calendarid and calendarname
Example URI	<ul style="list-style-type: none"> http://localhost:8080/opswise/resources/calendar?calendarname=testCalendar http://localhost:8080/opswise/resources/calendar?calendarid=f87848b00a0001037f43e7c81c8ec969
Authentication	HTTP Basic
Example Response	<ul style="list-style-type: none"> Status 200 /OK Calendar deleted successfully. Status 404 /Not Found A calendar with id "f87848b00a0001037f43e7c81c8ec969" does not exist.

Modify a Calendar

	Description
URI	http://host_name/opswise/resources/calendar
HTTP Method	PUT
Description	Modifies the calendar specified by the sysId (see Example Response).
Attributes	retainSysIds is ignored.
Example URI	http://localhost:8080/opswise/resources/calendar

<p>Example XML Request</p>	<pre> <calendar retainSysIds="true"> <businessDays>Monday,Tuesday,Wednesday,Thursday,Friday</businessDays> <customDays> <customDay> <name>Ops - Christmas</name> <sysId>daf16d70c0a801650040c4d58a3feebd</sysId> </customDay> <customDay> <name>Ops - Flag Day</name> <sysId>daf16d8fc0a801650040c4d54b2432fb</sysId> </customDay> <customDay> <name>Ops - Columbus Day</name> <sysId>daf16d8fc0a801650040c4d5efd639c5</sysId> </customDay> <customDay> <name>Ops - Labor Day</name> <sysId>daf16d9fc0a801650040c4d577ea2e82</sysId> </customDay> <customDay> <name>Ops - Independence Day</name> <sysId>daf16d9fc0a801650040c4d5bff58bff</sysId> </customDay> <customDay> <name>Ops - Martin Luther King Jr. Day</name> <sysId>daf16d9fc0a801650040c4d5c09c4a78</sysId> </customDay> <customDay> <name>Ops - Memorial Day</name> <sysId>daf16dafc0a801650040c4d58a11c4d5</sysId> </customDay> <customDay> <name>Ops - New Year's Day</name> <sysId>daf16dafc0a801650040c4d5e2c66d0f</sysId> </customDay> <customDay> <name>Ops - President's Day</name> <sysId>daf16dbec0a801650040c4d565981296</sysId> </customDay> <customDay> <name>Ops - Thanksgiving Day USA</name> <sysId>daf16dbec0a801650040c4d5b619c199</sysId> </customDay> <customDay> <name>Ops - Veterans Day</name> <sysId>daf16dcec0a801650040c4d53accabab</sysId> </customDay> </customDays> <comments>American Calendar</comments> <name>Opswise - American Calendar</name> <opswiseGroups /> <sysId>da24b953c0a8016501fbc18464d8328</sysId> </calendar> </pre>
<p>Example Response</p>	<ul style="list-style-type: none"> • Status 200 /OK Successfully updated the calendar with sysId <sysId>.
<p>Properties</p>	<p>See Calendar Properties.</p>

Read a Calendar

	Description
URI	http://host_name/opswise/resources/calendar
HTTP Method	GET
Description	Retrieves information on the specified Calendar .
Request Parameters	calendarid or calendarname

Mutually Exclusive Parameters	calendarid and calendarname
Example URI	<ul style="list-style-type: none"> • http://localhost:8080/opswise/resources/calendar?calendarname=testCalendar • http://localhost:8080/opswise/resources/calendar?calendarid=d26265a2c4f345359d9b356f18a462c1
Example Response	<ul style="list-style-type: none"> • Status 200 /OK (See Example XML Response, below.) • Status 404 /Not Found A calendar with id "d26265a2c4f345359d9b356f18a462c1" does not exist.
Example XML Response	<pre> <calendar retainSysIds="true"> <businessDays>Monday, Tuesday, Wednesday, Thursday, Friday</businessDays> <customDays> <customDay> <name>Ops - Christmas</name> <sysId>daf16d70c0a801650040c4d58a3feebd</sysId> </customDay> <customDay> <name>Ops - Flag Day</name> <sysId>daf16d8fc0a801650040c4d54b2432fb</sysId> </customDay> <customDay> <name>Ops - Columbus Day</name> <sysId>daf16d8fc0a801650040c4d5efd639c5</sysId> </customDay> <customDay> <name>Ops - Labor Day</name> <sysId>daf16d9fc0a801650040c4d577ea2e82</sysId> </customDay> <customDay> <name>Ops - Independence Day</name> <sysId>daf16d9fc0a801650040c4d5bff58bff</sysId> </customDay> <customDay> <name>Ops - Martin Luther King Jr. Day</name> <sysId>daf16d9fc0a801650040c4d5c09c4a78</sysId> </customDay> <customDay> <name>Ops - Memorial Day</name> <sysId>daf16dafc0a801650040c4d58a11c4d5</sysId> </customDay> <customDay> <name>Ops - New Year's Day</name> <sysId>daf16dafc0a801650040c4d5e2c66d0f</sysId> </customDay> <customDay> <name>Ops - President's Day</name> <sysId>daf16dbec0a801650040c4d565981296</sysId> </customDay> <customDay> <name>Ops - Thanksgiving Day USA</name> <sysId>daf16dbec0a801650040c4d5b619c199</sysId> </customDay> <customDay> <name>Ops - Veterans Day</name> <sysId>daf16dcec0a801650040c4d53accabab</sysId> </customDay> </customDays> <comments>American Calendar</comments> <name>Opswise - American Calendar</name> <opswiseGroups /> <sysId>da24b953c0a8016501fbc18464d8328</sysId> </calendar> </pre>
Properties	See Calendar Properties .

Custom Day Web Services

- [Overview](#)
- [Create a Custom Day](#)
- [Delete a Custom Day](#)
- [Modify a Custom Day](#)
- [Read a Custom Day](#)

Overview

Universal Controller supports the following RESTful-based web services for Custom Day operations, which are listed alphabetically on this page.

- [Create a Custom Day](#)
- [Delete a Custom Day](#)
- [Modify a Custom Day](#)
- [Read a Custom Day](#)

Formatting specifications for each web service, including details about parameter requirements, are provided.

Create a Custom Day

	Description
URI	http://host_name/opswise/resources/customday
HTTP Method	POST
Description	Creates a new Custom Day.
Example URI	http://localhost:8080/opswise/resources/customday
Example XML Request	<p>retainSysIds valid values: true/false</p> <pre style="border: 1px solid #0070C0; padding: 10px; margin: 10px 0;"> <customDay retainSysIds="true"> <comments>New Year's Day - Jan 1st</comments> <ctype>Absolute Repeating Date</ctype> <date /> <dateList /> <day>1</day> <dayofweek>Sun</dayofweek> <holiday>true</holiday> <month>Jan</month> <name>Ops - New Year's Day</name> <period>>false</period> <relfreq>1st</relfreq> <sysId>dae77560c0a80165006d8051753b806c</sysId> </customDay> </pre>
Example Response	<ul style="list-style-type: none"> • Status 200 /OK Successfully created the custom day with sysId <sysId>.
Properties	See Custom Day Properties .

Custom Day Properties

Attribute **retainSysIds** specifies whether or not the Create a Task web service should persist the **sysId** property. Optional; Valid values: true/false (default is true).

Property	Description
comments	

ctype	<p>Valid values:</p> <ul style="list-style-type: none"> • As String = Single Date, As Value = 0 • As String = Relative Repeating Date, As Value = 1 • As String = Absolute Repeating Date, As Value = 2 • As String = List of Dates, As Value = 3 <p>Default is Single Date (0).</p>
date	<p>Set only if ctype = Single Date. Format: yyyy-mm-dd.</p>
dateList	<p>Set only if ctype = List of Dates.</p> <pre data-bbox="302 495 779 646" style="border: 1px solid #ccc; padding: 5px;"> <dateList> <date>2014-09-14</date> <date>2015-09-14</date> </dateList> </pre>
day	<p>1-31.</p>
dayofweek	<p>Valid values:</p> <ul style="list-style-type: none"> • As String = Sun, As Value = 1 • As String = Mon, As Value = 2 • As String = Tue, As Value = 3 • As String = Wed, As Value = 4 • As String = Thu, As Value = 5 • As String = Fri, As Value = 6 • As String = Sat, As Value = 7 <p>Default is Mon (2).</p>
holiday	<p>Boolean; Valid values: true/false Default is false.</p>
month	<p>Valid values:</p> <ul style="list-style-type: none"> • As String = Jan, As Value = 0 • As String = Feb, As Value = 1 • As String = Mar, As Value = 2 • As String = Apr, As Value = 3 • As String = May, As Value = 4 • As String = Jun, As Value = 5 • As String = Jul, As Value = 6 • As String = Aug, As Value = 7 • As String = Sep, As Value = 8 • As String = Oct, As Value = 9 • As String = Nov, As Value = 10 • As String = Dec, As Value = 11 <p>Default is Jan (0).</p>
name	
period	<p>Boolean; Valid values: true/false. Default is false.</p>
relfreq	<p>Valid values:</p> <ul style="list-style-type: none"> • As String = 1st, As Value = 1 • As String = 2nd, As Value = 2 • As String = 3rd, As Value = 3 • As String = 4th, As Value = 4 • As String = Last, As Value = 5 • As String = Every, As Value = 6 <p>Default is 1st (1).</p>

sysId	Set if retainSysIds = true.
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Delete a Custom Day

	Description
URI	http://host_name/opwise/resources/customday
HTTP Method	DELETE
Description	Deletes the specified Custom Day.
Request Parameters	customdayid or customdayname
Mutually Exclusive Parameters	customdayid and customdayname
Example URI	<ul style="list-style-type: none"> http://localhost:8080/opwise/resources/customday?customdayname=testCustomDay http://localhost:8080/opwise/resources/customday?customdayid=f87848b00a0001037f43e7c81c8ec969
Authentication	HTTP Basic
Example Response	<ul style="list-style-type: none"> Status 200 /OK Custom day deleted successfully. Status 404 /Not Found A custom day with id "f87848b00a0001037f43e7c81c8ec969" does not exist.

Modify a Custom Day

	Description
URI	http://host_name/opwise/resources/customday
HTTP Method	PUT
Description	Modifies the custom day specified by the sysId (see Example Response).
Attributes	retainSysIds is ignored.
Example URI	http://localhost:8080/opwise/resources/customday
Example XML Request	<pre> <customDay> <comments>New Year's Day - Jan 1st</comments> <ctype>Absolute Repeating Date</ctype> <date /> <dateList /> <day>1</day> <dayofweek>Sun</dayofweek> <holiday>true</holiday> <month>Jan</month> <name>Ops - New Year's Day</name> <period>>false</period> <relfreq>1st</relfreq> <sysId>dae77560c0a80165006d8051753b806c</sysId> </customDay> </pre>
Example Response	<ul style="list-style-type: none"> Status 200 /OK Successfully updated the custom day with sysId <sysId>.
Properties	See Custom Day Properties.

Read a Custom Day

	Description
URI	http://host_name/opwise/resources/customday
HTTP Method	GET
Description	Retrieves information on the specified Custom Day.
Request Parameters	customdayid or customdayname
Mutually Exclusive Parameters	customdayid and customdayname
Example URI	<ul style="list-style-type: none"> • http://localhost:8080/opwise/resources/customday?customdayname=testCustomDay • http://localhost:8080/opwise/resources/customday?customdayid=f87848b00a0001037f43e7c81c8ec969
Example Response	<ul style="list-style-type: none"> • Status 200 /OK (See Example XML Response, below.) • Status 404 /Not Found A custom day with id "f87848b00a0001037f43e7c81c8ec969" does not exist.
Example XML Response	<pre> <customDay retainSysIds="true"> <comments>New Year's Day - Jan 1st</comments> <ctype>Absolute Repeating Date</ctype> <date /> <dateList /> <day>1</day> <dayofweek>Sun</dayofweek> <holiday>true</holiday> <month>Jan</month> <name>Ops - New Year's Day</name> <period>false</period> <relfreq>1st</relfreq> <sysId>dae77560c0a80165006d8051753b806c</sysId> </customDay> </pre>
Properties	See Custom Day Properties.

OMS Server Web Services

- [Overview](#)
- [List OMS Servers](#)

Overview

Universal Controller supports the following RESTful-based web services for OMS Server operations, which are listed alphabetically on this page.

- [List OMS Servers](#)

Formatting specifications for each web service, including details about parameter requirements, are provided.

List OMS Servers

	Description
URI	http://host_name/opswise/resources/servers/OMS
HTTP Method	GET
Description	Returns the Server address or partial server address of one or more OMS servers.
Request Parameters	<i>serveraddress</i> (Address wildcard and port of the OMS Server(s) to be listed.)
Required Parameters	<i>serveraddress</i>
Example URI	http://localhost:8080/opswise/resources/servers/OMS?serveraddress=localhost*
Authentication	HTTP Basic
Produces Content-Type	application/xml
Example XML Response	<pre style="border: 1px solid #0070C0; padding: 10px; background-color: #f0f0f0;"> <servers> <server> <serverAddress>localhost:7878</serverAddress> <sessionStatus>None</sessionStatus> <status>Disconnected</status> <sysID>5ae19b1fb801445a98f135b98366939e</sysID> </server> . . . </servers></pre>

Password Web Services

- [Overview](#)
- [Change a Universal Controller User Password](#)
- [Change Runtime Password on Credentials](#)

Overview


Universal Controller supports the following RESTful-based web services for Password operations, which are listed alphabetically on this page.

- [Change a Universal Controller User Password](#)
- [Change Runtime Password on Credentials](#)

Formatting specifications for each web service, including details about parameter requirements, are provided.

Change a Universal Controller User Password

	Description
URI	http://host_name/opswise/resources/opswise/ops-change-user-password
HTTP Method	POST
Description	Changes a Universal Controller user password.
Example URI	http://localhost:8080/opswise/resources/opswise/ops-change-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><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

	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.
Example URI	http://localhost:8080/opswise/resources/credentials/ops-change-password
Authentication	HTTP Basic
Consumes Content-Type	application/xml
Produces Content-Type	application/xml
XML Request Example	<pre><change-credentials-password> <name>test</name> <newRuntimePassword>test2</newRuntimePassword> </change-credentials-password></pre>
XML Response Example	<pre><command-response> <type>change_credentials_password</type> <success>true</success> <info /> <errors /> </command-response></pre>



Note

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

Resource Web Services

- [Overview](#)
- [List All Virtual Resources](#)
- [Set Limit on a Virtual Resource](#)

Overview

Universal Controller supports the following RESTful-based web services for Resource operations, which are listed alphabetically on this page.

- [List All Virtual Resources](#)
- [Set Limit on a Virtual Resource](#)

Formatting specifications for each web service, including details about parameter requirements, are provided.

List All Virtual Resources

	Description
URI	http://host_name/opswise/resources/virtual/list
HTTP Method	GET
Description	Returns the list of all Virtual Resources .
Request Parameters	<ul style="list-style-type: none"> • name • type Valid values: <ul style="list-style-type: none"> • Renewable (1) • Boundary (2) • Depletable (3) If <code>type</code> is not specified, it defaults to all types.
Example URI	http://localhost:8080/opswise/resources/virtual/list?name=test&type=renewable
Authentication	HTTP Basic
Produces Content-Type	application/xml
Example XML Response	<pre style="border: 1px solid #0070c0; padding: 10px;"> <virtual-resources> <virtual-resource> <used-by-tasks> <task> <amount>1</amount> <taskInstanceName>Opswise - Sleep 35/Requires Resource</taskInstanceName> </task> </used-by-tasks> <limit>8</limit> <name>test1</name> <sysID>416d78bac0a801c901de14704e00fa75</sysID> <type>Renewable</type> <used>1</used> </virtual-resource> ... </virtual-resources> </pre>

Set Limit on a Virtual Resource

	Description
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URI	http://host_name/opswise/resources/virtual/ops-update-resource-limit
HTTP Method	POST
Description	Updates resource limit for virtual resources.
Example URI	http://localhost:8080/opswise/resources/virtual/ops-update-resource-limit
Authentication	HTTP Basic
Consumes Content-Type	application/xml
Produces Content-Type	application/xml
Example XML Request	<pre> <virtual-resource> <name>Opswise - Solo</name> <limit>1</limit> </virtual-resource> </pre>
Example XML Response	<pre> <command-response> <type>update_resource_limit</type> <success>true</success> <info>Successfully updated the virtual resource.</info> <errors /> </command-response> </pre>

Task Instance Web Services

- Overview
- Clear All Dependencies
- Clear Exclusive Dependencies
- Clear Predecessor Dependencies
- Clear Time Dependency
- Clear Virtual Resource Dependencies
- Delete a Task Instance
- Display Task Instance Status
- Release a Task Instance from Hold
- Set or Modify Wait Time/Duration for Task Instance

Overview


Universal Controller supports the following RESTful-based web services for Task Instance operations, which are listed alphabetically on this page.

- Clear All Dependencies
- Clear Exclusive Dependencies
- Clear Predecessor Dependencies
- Clear Time Dependency
- Clear Virtual Resource Dependencies
- Delete a Task Instance
- Display Task Instance Status
- Release a Task Instance from Hold
- Set or Modify Wait Time/Duration for Task Instance

Formatting specifications for each web service, including details about parameter requirements, are provided.


Clear All Dependencies

	Description
URI	http://host_name/opswise/resources/taskinstance/cleardependencies
HTTP Method	POST
Description	Clears all dependencies of a task instance.
Example URI	http://localhost:8080/opswise/resources/taskinstance/cleardependencies
Authentication	HTTP Basic
Consumes Content-Type	application/xml
Produces Content-Type	application/xml
Example XML Request	<pre> <task-instance> <id>410d6c0bc0a801c901838d8ac43b3279</id> </task-instance> or <task-instance> <name>Timer 60</name> <criteria>Newest Instance</criteria> <workflowInstanceName>test</workflowInstanceName> </task-instance> </pre>

<p>Example XML Response</p>	<pre><command-response> <type>clear_all_dependencies</type> <success>true</success> <info>Command Clear All Dependencies executed successfully against task instance "Timer 60".</info> <errors /> </command-response></pre>
<p>Required Properties</p>	<p>Either id or name</p>
<p>Optional Properties</p>	<p>If the search is by name, workflowInstanceName and criteria are optional.</p>
<p>Mutually Exclusive Properties</p>	<p>id and name</p>
<p>Valid criteria Values</p>	<p>(Not case-sensitive): oldest active instance, oldest instance, newest active instance, newest instance. If criteria is not provided, it defaults to oldest active instance.</p> <div data-bbox="415 705 1446 840" style="background-color: #ffffcc; padding: 10px;"> <p> Note criteria values with an underscore characters (_) instead of spaces also are supported (for example, oldest_active_instance).</p> </div>


Clear Exclusive Dependencies

	Description
<p>URI</p>	<p>http://host_name/opswise/resources/taskinstance/clearexclusive</p>
<p>HTTP Method</p>	<p>POST</p>
<p>Description</p>	<p>Clears all exclusive dependencies of a task instance.</p>
<p>Authentication</p>	<p>HTTP Basic</p>
<p>Example URI</p>	<p>http://localhost:8080/opswise/resources/taskinstance/clearexclusive</p>
<p>Consumes Content-Type</p>	<p>application/xml</p>
<p>Produces Content-Type</p>	<p>application/xml</p>
<p>Example XML Request</p>	<pre><task-instance> <id>410d6c0bc0a801c901838d8ac43b3279</id> </task-instance> or <task-instance> <name>Timer 60</name> <criteria>Newest Instance</criteria> <workflowInstanceName>test</workflowInstanceName> </task-instance></pre>

<p>Example XML Response</p>	<pre><command-response> <type>clear_exclusive</type> <success>true</success> <info>Command Clear Exclusive executed successfully against task instance "Timer 60".</info> <errors /> </command-response></pre>
<p>Required Properties</p>	<p>Either id or name</p>
<p>Optional Properties</p>	<p>If the search is by name, workflowInstanceName and criteria are optional.</p>
<p>Mutually Exclusive Properties</p>	<p>id and name</p>
<p>Valid criteria Values</p>	<p>(Not case-sensitive): oldest active instance, oldest instance, newest active instance, newest instance. If criteria is not provided, it defaults to oldest active instance.</p> <div data-bbox="414 703 1446 842" style="background-color: #ffffcc; padding: 10px;"> <p> Note criteria values with an underscore characters (_) instead of spaces also are supported (for example, oldest_active_instance).</p> </div>


Clear Predecessor Dependencies

	Description
<p>URI</p>	<p>http://host_name/opswise/resources/taskinstance/clearpredecessors</p>
<p>HTTP Method</p>	<p>POST</p>
<p>Description</p>	<p>Clears all predecessor dependencies of a task instance in a Workflow.</p>
<p>Authentication</p>	<p>HTTP Basic</p>
<p>Example URI</p>	<p>http://localhost:8080/opswise/resources/taskinstance/clearpredecessors</p>
<p>Consumes Content-Type</p>	<p>application/xml</p>
<p>Produces Content-Type</p>	<p>application/xml</p>
<p>Example XML Request</p>	<pre><task-instance>> <id>410d6c0bc0a801c901838d8ac43b3279</id> <predecessorName>*</predecessorName> </task-instance> or <task-instance> <name>Timer 60</name> <criteria>Newest Instance</criteria> <workflowInstanceName>test</workflowInstanceName> <predecessorName>*</predecessorName> </task-instance></pre>

<p>Example XML Response</p>	<pre><command-response> <type>set_edges_satisfied</type> <success>>true</success> <info>Command Clear Predecessors executed successfully against task instance "Timer 60".</info> <errors /> </command-response></pre>
<p>Required Properties</p>	<ul style="list-style-type: none"> • predecessorName (* for all predecessors) • Either id or name
<p>Mutually Exclusive Properties</p>	<p>id and name</p>
<p>Optional Properties</p>	<p>If search is by name; workflowInstanceName and criteria</p>
<p>Valid criteria Values</p>	<p>(Not case-sensitive): oldest active instance, oldest instance, newest active instance, newest instance.</p> <p>If criteria is not provided, it defaults to oldest active instance.</p> <div style="background-color: #ffffcc; padding: 10px; margin-top: 10px;"> <p> Note criteria values with an underscore characters (_) instead of spaces also are supported (for example, oldest_active_instance).</p> </div>


Clear Time Dependency

	Description
<p>URI</p>	<p>http://host_name/opswise/resources/taskinstance/clearwait</p>
<p>HTTP Method</p>	<p>POST</p>
<p>Description</p>	<p>Clears the time dependency of a task instance.</p>
<p>Authentication</p>	<p>HTTP Basic</p>
<p>Example URI</p>	<p>http://localhost:8080/opswise/resources/taskinstance/clearwait</p>
<p>Consumes Content-Type</p>	<p>application/xml</p>
<p>Produces Content-Type</p>	<p>application/xml</p>
<p>Example XML Request</p>	<pre><task-instance> <id>410d6c0bc0a801c901838d8ac43b3279</id> </task-instance></pre> <p>or</p> <pre><task-instance> <name>Test task</name> <criteria>Newest Instance</criteria> <workflowInstanceName>test</workflowInstanceName> </task-instance></pre>

<p>Example XML Response</p>	<pre><command-response> <type>clear_timewait</type> <success>true</success> <info>Command Clear Time Wait/Delay executed successfully against task instance "Test task".</info> <errors /> </command-response></pre>
<p>Required Properties</p>	<p>either id or name</p>
<p>Optional Properties</p>	<p>If the search by name, workflowInstanceName and criteria are optional.</p>
<p>Mutually Exclusive Properties</p>	<p>id and name</p>
<p>Valid criteria values</p>	<p>(Not case sensitive): oldest active instance, oldest instance, newest active instance, newest instance</p> <p>If criteria is not provided, it defaults to oldest active instance.</p> <div data-bbox="414 705 1446 840" style="background-color: #ffffcc; padding: 10px;"> <p> Note criteria values with an underscore characters (_) instead of spaces also are supported (for example, oldest_active_instance).</p> </div>


Clear Virtual Resource Dependencies

	Description
<p>URI</p>	<p>http://host_name/opswise/resources/taskinstance/clearresources</p>
<p>Example URI</p>	<p>http://localhost:8080/opswise/resources/taskinstance/clearresources</p>
<p>HTTP Method</p>	<p>POST</p>
<p>Description</p>	<p>Clears virtual resource dependencies of a task instance.</p>
<p>Authentication</p>	<p>HTTP Basic</p>
<p>Consumes Content-Type</p>	<p>application/xml</p>
<p>Produces Content-Type</p>	<p>application/xml</p>
<p>Example XML Request</p>	<pre><task-instance> <id>410d6c0bc0a801c901838d8ac43b3279</id> <resourceName>V1</resourceName> </task-instance> or <task-instance> <name>Timer 60</name> <criteria>Newest Instance</criteria> <workflowInstanceName>test</workflowInstanceName> <resourceName>V1</resourceName> </task-instance></pre>

<p>Example XML Response Example</p>	<pre> <command-response> <type>clear_resources</type> <success>>true</success> <info>Command Clear Resources executed successfully against task instance "Timer 60".</info> <errors></errors> <errors /> </pre>
<p>Required Properties</p>	<ul style="list-style-type: none"> • resourceName (* for all resources) • Either id or name
<p>Optional Properties</p>	<p>If the search is by name, workflowInstanceName and criteria are optional.</p>
<p>Mutually Exclusive Properties</p>	<p>id and name</p>
<p>Valid criteria Values</p>	<p>(Not case-sensitive): oldest active instance, oldest instance, newest active instance, newest instance.</p> <p>If criteria is not provided, it defaults to oldest active instance.</p> <div style="background-color: #ffffcc; padding: 10px; margin-top: 10px;"> <p> Note criteria values with an underscore characters (_) instead of spaces also are supported (for example, oldest_active_instance).</p> </div>

Delete a Task Instance

	Description
URI	http://host_name/opswise/resources/taskinstance
HTTP Method	DELETE
Description	Deletes the specified task instance . For Workflow task instances, if the recursive property is set to true, all children task instances will be removed.
Authentication	HTTP Basic
Consumes Content-Type	application/xml
Example URI	http://localhost:8080/opswise/resources/taskinstance

<p>Example XML Request</p>	<p>Delete Task instance by task instance id.</p> <pre><task-instance> <id>14483224900880190549PGHP23IR12MO</id> </task-instance></pre> <p>Delete Task instance and all of its children by task instance id.</p> <pre><task-instance> <id>14483224900880190549PGHP23IR12MO</id> <recursive>true</recursive> </task-instance></pre> <p>Delete Task instance by task instance name.</p> <pre><task-instance> <name>Timer 60</name> <criteria>Newest Instance</criteria> </task-instance></pre>
<p>Example Response</p>	<ul style="list-style-type: none"> Status 200 /OK Task instance(s) deleted successfully.
<p>Required Properties</p>	<p>id or name.</p>
<p>Mutually Exclusive Properties</p>	<p>id and name</p>
<p>Optional Properties</p>	<ul style="list-style-type: none"> criteria (If search is by name.) recursive
<p>Valid Values</p>	<ul style="list-style-type: none"> recursive: true/false. Default is false. criteria: oldest instance, newest instance (not case sensitive). <p>If criteria is not provided, it defaults to oldest instance.</p> <div style="background-color: #ffffcc; padding: 10px; margin-top: 10px;"> <p> Note criteria values with an underscore characters (_) instead of spaces also are supported (for example, oldest_instance).</p> </div>

Display Task Instance Status

	Description
URI	http://host_name/opswise/resources/taskinstance/list
HTTP Method	POST
Description	Displays task instances associated with the specified search criteria.
Authentication	HTTP Basic

Example URI	http://localhost:8080/opswise/resources/taskinstance/list
Consumes Content-Type	application/xml
Produces Content-Type	application/xml
Example XML Request	<pre> <task-instance-query-filter> <name>*</name> <updatedAtType>Offset</updatedAtType> <updatedAtTime>-3mn</updatedAtTime> </task-instance-query-filter> <task-instance-query-filter> <name>*</name> <updatedAtType>Offset</updatedAtType> <updatedAtTime>-3mn</updatedAtTime> <businessServices>busService1,busService2</businessServices> </task-instance-query-filter> <task-instance-query-filter> <name>*</name> <status>60,!90</status> <type>windows</type> <agentName>test agent</agentName> <lateStart>true</lateStart> <lateFinish>true</lateFinish> <earlyFinish>true</earlyFinish> </task-instance-query-filter> </pre>
Example XML Response	<pre> <taskInstances> <taskInstance> <endTime /> <name>Sleep 30</name> <startTime>2015-11-24 13:19:46 -0700</startTime> <status>RUNNING</status> <sysId>1448396297341015141TB2QF51JBYM8V</sysId> <triggeredBy>Manually Launched</triggeredBy> <type>Timer</type> </taskInstance> <taskInstance> <endTime /> <name>Sleep 60</name> <startTime>2015-11-24 13:19:46 -0700</startTime> <status>RUNNING</status> <sysId>125396297341015141TB2QF51JBYM8V</sysId> <triggeredBy>Manually Launched</triggeredBy> <type>Timer</type> </taskInstance> </taskInstances> </pre>
Required Properties	<ul style="list-style-type: none"> • name; Name or partial name of one or more task instances. Wildcards are supported. • updatedAtTime; <ul style="list-style-type: none"> • Required if updatedAtType is Offset; updatedAtTime is specified with –offset period: mn - minutes, h - hours, d – days (if not specified, defaults to d). Examples: -5d (last 5 days), -30mn (last 30 minutes), -6h (last 6 hours), -7 (last 7 days). • Required if updatedAtType is Since; updatedAtTime is specified as a date/time value (yyyy-MM-dd [HH:mm:ss]). • Ignored if updatedAtType is Today.

Optional Properties	<ul style="list-style-type: none"> • <code>agentName</code>; Name of the agent the task instance(s) are running on. • <code>businessServices</code>; Comma-separated list of Business Service names. • <code>earlyFinish</code>; Valid values: true/false • <code>executionUser</code> • <code>lateFinish</code>; Valid values: true/false • <code>lateStart</code>; Valid values: true/false • <code>status</code>; List of comma-separated task instance status codes and/or names (not case sensitive): status code or name,status code or name,...,status code or name. An exclamation mark (!) preceding a task instance status code or name excludes task instances with that status. • <code>type</code>; 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 / universal_command /ucmd, application_control. • <code>updatedTimeType</code>; Valid values: Today, Offset, Since • <code>workflowInstanceCriteria</code>; Optional if <code>workflowInstanceName</code> is specified; One of the following (not case-sensitive): oldest_active_instance (default), oldest_instance, newest_active_instance, newest_instance. • <code>workflowInstanceId</code>; For a task instance in a workflow, optional if <code>workflowInstanceName</code> is not specified. <code>sys_id</code> of the workflow instance. • <code>workflowInstanceName</code>; Name of the workflow instance.
Mutually Exclusive Properties	<code>workflowInstanceId</code> and <code>workflowInstanceName</code>

Task Instance Status Types

The following table describes all possible task instance statuses for all task types.



Note

The format of multi-word task status names specified in the [Task Instance Status](#) Web Service differs from the format of task status names used in the Controller [user interface](#). In [Task Instance Status](#), the words are separated by an underscore character; in the user interface, they are separated by a space.


Status Name	Status Code	Task Type	Description
Action_Required	60	Manual	When a manual task launches, it goes into Action Required status, meaning a user must perform some manual activity. For details, see Manual task .
Cancel_Pending	99	Agent-based	A process running on the Agent needs to be terminated. When the Cancel command is issued, the task instance will go into a Cancel Pending status until the Agent reports back that the process has been cancelled. At that point, the task instance will transition into the Cancelled status.
Cancelled	130	All	The task was cancelled by a user.
Confirmation_Required	125	z/OS	If you make JCL changes and restart a z/OS task, Universal Controller will put the task into Confirmation Required status and prompt you for a confirmation. For detailed processing steps, see Rerunning a z/OS Task .
Defined	0	All	The new task instance has been created (the task has been launched).
Exclusive_Requested	22	All	All tasks with a mutually exclusive task defined go immediately to a status of Exclusive Requested. If the task is available to run exclusively, the task then moves to the next appropriate processing status.
Exclusive_Wait	23	All	The task is mutually exclusive with one or more other tasks, and it is waiting for those tasks to finish before it will run.
Execution_Wait	33	Agent-based	The task must wait to be completed; either the Agent/Agent Cluster running the task has reached its Task Execution Limit, or the ability of the Agent/Agent Cluster to run tasks has been suspended .
Failed	140	All*	The task ran to a failure status.
Finished	190	All	The task was forced by the user to finish. The user may do this in cases where the task had a Cancelled or Failed status, and the user needed to release other task instances depending on the successful completion of this task instance in a workflow. For more information, see Force Finishing a Task .

Held	20	All	The task has been put on hold by a user.
In_Doubt	110	Agent-based	The Agent is "in doubt" about the current status of the task instance. This may occur if an Agent or Agent connection goes down. In this case, the Agent restarts and reviews its data about tasks in progress. If the Agent finds a task still running, it resumes normal monitoring. If the Agent cannot find the task, this usually indicates that the task completed, but the Agent considers the task status to be "in doubt."
Queued	40	Agent-based	The task has been queued on a resource.
Resource_Requested	25	All	All tasks with a virtual resource defined go immediately to a status of Resource Requested. If the resource is available, the task then moves to the next appropriate processing status.
Resource_Wait	30	All	All tasks with a virtual resource defined go immediately to a status of Resource Requested. If the resource is not available, the task goes to a status of Resource Wait. When the resource becomes available, the task moves to the next appropriate processing status
Running	80	All	The task is running. For Agent-based tasks, the Agent has started running the program.
Running/Problems	81	Workflow	One or more tasks within the workflow has one of the following statuses: <ul style="list-style-type: none"> • Cancelled • Confirmation Required • Failure • In Doubt • Running/Problems (for sub-workflows) • Start Failure • Undeliverable
Skipped	180	All	The task was skipped by a user.
Start Failure	120	All	The task was unable to start.
Started	70	Agent-based , Manual	The task has started. For Agent-based tasks, this means the Agent has received the task.
Submitted	43	z/OS	The task has been submitted to the z/OS Job Entry subsystem and scheduled by the z/OS Job Scheduler.
Success	200	All	The task has completed successfully. Workflows will transition to Success status when all of its tasks have transitioned to Success, Finished, or Skipped status.
Time_Wait	15	All (except Timer)	The task is waiting to start based on a Wait To Start and/or Delay On Start specification.
Undeliverable	35	Agent-based	The Agent is unavailable.
Waiting	10	All	The task has been loaded by a workflow and is waiting on a predecessor.

* Workflows cannot go to Failed status.


Release a Task Instance from Hold

	Description
URI	http://host_name/opswise/resources/taskinstance/release
HTTP Method	POST
Description	Releases the specified task instance from hold. For Workflow task instances, if the <code>recursive</code> property is set to true, all children task instances will be released from hold. See Releasing a Task Instance from Hold for a description of behavior and restrictions.
Authentication	HTTP Basic
Example URI	http://localhost:8080/opswise/resources/taskinstance/release

Consumes Content-Type	application/xml
Produces Content-Type	application/xml
Example XML Request	<pre> <task-instance> <id>410d6c0bc0a801c901838d8ac43b3279</id> <recursive>true</recursive> </task-instance> or <task-instance> <name>Timer 60</name> <criteria>Newest Instance</criteria> <workflowInstanceName>test</workflowInstanceName> </task-instance> </pre>
Example XML Response	<pre> <command-response> <type>release</type> <success>true</success> <info>Command Release executed successfully against task instance "Timer 60".</info> <errors /> </command-response> </pre>
Required Properties	Either id or name
Optional Properties	<ul style="list-style-type: none"> recursive Valid values: true/false. Default is false. workflowInstanceName and criteria (if the search is by name)
Mutually Exclusive Properties	id and name
Valid criteria Values	<p>(Not case-sensitive): oldest active instance, oldest instance, newest active instance, newest instance.</p> <p>If criteria is not provided, it defaults to oldest active instance.</p> <div style="background-color: #ffffcc; padding: 10px; border: 1px solid #ccc;"> <p> Note criteria values with an underscore characters (_) instead of spaces also are supported (for example, oldest_active_instance).</p> </div>

Set or Modify Wait Time/Duration for Task Instance

	Description
URI	http://host_name/opswise/resources/taskinstance/settimewait
HTTP Method	POST
Description	Sets or modifies a wait time/duration for a task instance.
Authentication	HTTP Basic
Example URI	http://localhost:8080/opswise/resources/taskinstance/settimewait
Consumes Content-Type	application/xml

<p>Produces Content-Type</p>	<p>application/xml</p>
<p>Example XML Request</p>	<pre data-bbox="396 226 1443 449"> <task-instance> <id>410d6c0bc0a801c901838d8ac43b3279</id> <waitType>time</waitType> <waitTime>00:33</waitTime> <delayType>duration</delayType> <delayDuration>00:00:00:33</delayDuration> </task-instance> </pre>
<p>Example XML Response</p>	<pre data-bbox="396 508 1443 709"> <command-response> <type>set_timewait</type> <success>>true</success> <info>Successfully set timewait for task instance "test task".</info> <errors /> </command-response> </pre>
<p>Required Properties</p>	<ul data-bbox="407 772 1068 953" style="list-style-type: none"> • id or name • waitType or delayType <ul style="list-style-type: none"> • If waitType = time or relative time, waitTime is required. • If waitType = duration, waitDuration is required. • If waitType = seconds, waitSeconds is required. • If delayType = duration, delayDuration is required. • If delayType = seconds, delaySeconds is required.
<p>Optional Properties</p>	<ul data-bbox="407 1020 1195 1073" style="list-style-type: none"> • If the search is by name; workflowInstanceName and criteria are optional. • If waitType = time or relative time; waitDayConstraint is optional.
<p>Mutually Exclusive Properties</p>	<p>id and name</p>
<p>Valid Values (Not case-sensitive)</p>	<ul data-bbox="407 1211 1360 1241" style="list-style-type: none"> • criteria: oldest active instance, oldest instance, newest active instance, newest instance. <p data-bbox="431 1262 1057 1291">If criteria is not provided, it defaults to oldest active instance.</p> <div data-bbox="474 1333 1445 1465" style="background-color: #ffffcc; padding: 5px;"> <p> Note criteria values with an underscore characters (_) instead of spaces also are supported (for example, oldest_active_instance).</p> </div> <ul data-bbox="407 1486 1479 1587" style="list-style-type: none"> • waitType: none, time, relative time, duration, seconds • delayType: none, duration, seconds • waitDayConstraint: none, same day/same_day, next day/next_day, next business day/next_business_day, sunday, monday, tuesday, wednesday, thursday, friday, saturday
<p>Property Formats</p>	<ul data-bbox="407 1654 756 1785" style="list-style-type: none"> • waitTime: HH:MM • waitDuration: DD:HH:MM:SS • waitSeconds: SS • delayDuration: DD:HH:MM:SS • delaySeconds: SS

Task Web Services

- Overview
- Create a Task
 - Create a Task Examples
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 - Task Properties - File Monitor Task
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 - Task Properties - Linux/Unix Task
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 - Task Properties - Windows Task
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 - Task Action Properties
 - Task-Related Records Properties
- Create a Task (Windows, Linux/Unix, z/OS) - Deprecated
- Delete a Task
- Launch a Task
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- Query a List of Tasks
- Read a Task

Overview

Universal Controller supports the following RESTful-based web services for Task operations, which are listed alphabetically on this page.

- [Create a Task](#)
- [Create a Task \(Windows, Linux/Unix, z/OS\) - Deprecated](#)
- [Delete a Task](#)
- [Launch a Task](#)
- [Modify a Task](#)
- [Query a List of Tasks](#)
- [Read a Task](#)

Formatting specifications for each web service, including details about parameter requirements, are provided.

Create a Task

You can use the Create a Task web service to create the following types of tasks:

- File Monitor
- File Transfer
- FTP File Monitor
- Linux/Unix
- Manual
- System Monitor
- Task Monitor
- Timer
- Windows
- z/OS

	Description
URI	http://host_name/opswise/resources/task
HTTP Method	POST
Description	Creates a new task.
Examples	See Create a Task Examples .

<p>Example XML Request</p>	<p>In the Read a Task web service, see:</p> <ul style="list-style-type: none"> • Example Responses for Tasks <ul style="list-style-type: none"> • File Monitor Task • File Transfer Task • FTP File Monitor Task • Linux/Unix Task • Manual Task • System Monitor Task • Task Monitor Task • Timer Task • Windows Task • z/OS Task • Example Responses for Task Actions <ul style="list-style-type: none"> • Abort • Email Notification • Set Variable • SNMP Notification • System Operation • Example Responses for Task-Related Records <ul style="list-style-type: none"> • Mutually Exclusive Tasks • Notes • Restart Criteria - z/OS Tasks only • Step Conditions - z/OS Tasks only • Variables • Virtual Resources
<p>Task Properties</p>	<ul style="list-style-type: none"> • Task Properties - All Tasks • Task Properties - File Monitor Task • Task Properties - File Transfer Task • Task Properties - FTP File Monitor Task • Task Properties - Linux/Unix Task • Task Properties - Manual Task • Task Properties - System Monitor Task • Task Properties - Task Monitor Task • Task Properties - Timer Task • Task Properties - Windows Task • Task Properties - z/OS Task
<p>Task Action Properties</p>	<ul style="list-style-type: none"> • Abort Action • Email Notification Action • Set Variable Action • SNMP Notification Action • System Operation Action
<p>Task-Related Records Properties</p>	<ul style="list-style-type: none"> • Mutually Exclusive Tasks • Notes • Restart Criteria - z/OS Tasks only • Step Conditions - z/OS Tasks only • Variables • Virtual Resources
<p>Example Response</p>	<ul style="list-style-type: none"> • Status 200 /OK Successfully created the <task type> task with sysId <sysId>.

Create a Task Examples

<p>File Monitor Task (Detailed Example)</p>	<pre> <taskFileMonitor retainSysIds="true"> See Task Properties - All Tasks. See Task Properties - File Monitor Task. See Task Action Properties. See Task-Related Records Properties . </taskFileMonitor> </pre>
<p>File Transfer Task (Detailed Example)</p>	<pre> <taskFtp retainSysIds="true"> See Task Properties - All Tasks. See Task Properties - File Transfer Task. See Task Action Properties. See Task-Related Records Properties . </taskFtp> </pre>
<p>FTP File Monitor Task (Detailed Example)</p>	<pre> <taskFtpFileMonitor retainSysIds="true"> See Task Properties - All Tasks. See Task Properties - FTP File Monitor Task. See Task Action Properties. See Task-Related Records Properties . </taskFtpFileMonitor> </pre>
<p>Linux/Unix Task (Detailed Example)</p>	<pre> <taskUnix retainSysIds="true"> See Task Properties - All Tasks. See Task Properties - Linux/Unix Task. See Task Action Properties. See Task-Related Records Properties . </taskUnix> </pre>
<p>Manual Task (Detailed Example)</p>	<pre> <taskManual retainSysIds="true"> See Task Properties - All Tasks. See Task Properties - Manual Task. See Task Action Properties. See Task-Related Records Properties . </taskManual> </pre>

<p>System Monitor Task (Detailed Example)</p>	<pre><taskSystemMonitor retainSysIds="true"> See Task Properties - All Tasks. See Task Properties - System Monitor Task. See Task Action Properties. See Task-Related Records Properties . </taskSystemMonitor></pre>
<p>Task Monitor Task (Detailed Example)</p>	<pre><taskMonitor retainSysIds="true"> See Task Properties - All Tasks. See Task Properties - Task Monitor Task. See Task Action Properties. See Task-Related Records Properties . </taskMonitor></pre>
<p>Timer Task (Detailed Example)</p>	<pre><taskSleep retainSysIds="true"> See Task Properties - All Tasks. See Task Properties - Timer Task. See Task Action Properties. See Task-Related Records Properties . </taskSleep></pre>
<p>Windows Task (Detailed Example)</p>	<pre><taskWindows retainSysIds="true"> See Task Properties - All Tasks. See Task Properties - Windows Task. See Task Action Properties. See Task-Related Records Properties . </taskWindows></pre>
<p>z/OS Task (Detailed Example)</p>	<pre><taskZos retainSysIds="true"> See Task Properties - All Tasks. See Task Properties - z/OS Task. See Task Action Properties. See Task-Related Records Properties . </taskZos></pre>

Task Properties - All Tasks

Attribute **retainSysIds** specifies whether or not the Create a Task web service should persist the **sysId** property. Optional; Valid values: true/false (default is true).

For a description of a property, click the Property name.



Deprecated Properties

For properties that can be toggled between a variable that will be resolved at runtime or a reference to a specific pre-defined item, including **agent/agentVar**, **agentCluster/agentClusterVar**, and **credentials/credentialsVar**, the corresponding **Check** properties, for example, **agentVarCheck**, are optional and have been deprecated. For more details on the expected behaviour of each property, see its corresponding documentation.

Property	Specifications
agent	Only one of agent and agentVar can be defined with a non-blank value; if both are non-blank, the Controller will ignore the agent property.
agentCluster	Only one of agentCluster and agentClusterVar can be defined with a non-blank value; if both are non-blank, the Controller will ignore the agentCluster property.
agentClusterVar	Only one of agentCluster and agentClusterVar can be defined with a non-blank value; if both are non-blank, the Controller will ignore the agentCluster property.
agentVar	Only one of agent and agentVar can be defined with a non-blank value; if both are non-blank, the Controller will ignore the agent property.
broadcastCluster	
cpDuration	Used with cpDurationUnit.
cpDurationUnit	Used with cpDuration. Valid Values: <ul style="list-style-type: none"> • As String = Seconds, As Value = 1 • As String = Minutes, As Value = 2 • As String = Hours, As Value = 3 <p>Default is Minutes (2).</p>
credentials	Only one of credentials and credentialsVar can be defined with a non-blank value; if both are non-blank, the Controller will ignore the credentials property.
credentialsVar	Only one of credentials and credentialsVar can be defined with a non-blank value; if both are non-blank, the Controller will ignore the credentials property.
efDuration	Set only if efType is Duration. Format: dd:hh:mm:ss
efEnabled	Boolean; Valid values: true/false
efTime	Set only if efType is Time. Format: hh:mm Default is 00:00.
efType	Set if efEnabled is true. Valid values: <ul style="list-style-type: none"> • As String = Time, As Value = 1 • As String = Duration, As Value = 2 <p>Default is Time (1).</p>
holdResources	Boolean; Valid values: true/false
IfDuration	Set only if IfType is Duration. Format: dd:hh:mm:ss
IfEnabled	Boolean; Valid values: true/false
IfTime	Set only if IfType is Time. Format: hh:mm. Default is 00:00.

IfType	<p>Set if IfEnabled is true. Valid values:</p> <ul style="list-style-type: none"> • As String = Time, As Value = 1 • As String = Duration, As Value = 2 <p>Default is Time (1).</p>
IsDuration	Set only if IsType is Duration. Format: dd:hh:mm:ss
IsEnabled	Boolean; Valid values: true/false
IsTime	<p>Set only if IsType is Time. Format: hh:mm.</p> <p>Default is 00:00.</p>
IsType	<p>Set if IsEnabled is true. Valid values:</p> <ul style="list-style-type: none"> • As String = Time, As Value = 1 • As String = Duration, As Value = 2 <p>Default is Time (1).</p>
name	unique; Required
opswiseGroups	<p>List of Business Services:</p> <pre style="border: 1px solid #ccc; padding: 10px; margin: 10px 0;"> <opswiseGroups> <opswiseGroup>test</opswiseGroup> </opswiseGroups> </pre>
resPriority	Integer; Default: 10
retryExitCodes	Format: 1,5,22-30
retryIndefinitely	<p>Boolean; Valid values: true/false</p> <p>Default is false.</p>
retryInterval	Integer; Default: 60
retryMaximum	Integer; Default: 0
startHeld	<p>Boolean; Valid values: true/false</p> <p>Default is false.</p>
startHeldReason	
summary	
sysId	Persisted only if retainSysIds is set to true.
twDelayAmount	Set only if twDelayType = Seconds.
twDelayDuration	Set only if twDelayType = Duration. Format: dd:hh:mm:ss
twDelayType	<p>Valid values:</p> <ul style="list-style-type: none"> • As String = None, As Value = 0 • As String = Duration, As Value = 1 • As String = Seconds, As Value = 2 <p>Default is None (0).</p>
twWaitAmount	Set only if twWaitType = Seconds.

twWaitDayConstraint	<p>Set only if twWaitType = Time or Relative_Time. Valid values:</p> <ul style="list-style-type: none"> • As String = None, As Value = 0 • As String = Same_Day, As Value = 1 • As String = Next_Day, As Value = 2 • As String = Next_Business_Day, As Value = 3 • As String = Sunday, As Value = 4 • As String = Monday, As Value = 5 • As String = Tuesday, As Value = 6 • As String = Wednesday, As Value = 7 • As String = Thursday, As Value = 8 • As String = Friday, As Value = 9 • As String = Saturday, As Value = 10 <p>Default is None (0).</p>
twWaitDuration	Set only if twWaitType = Duration. Format: dd:hh:mm:ss
twWaitTime	Set only if twWaitType = Time or Relative_Time. Format: hh:mm
twWaitType	<p>Valid values:</p> <ul style="list-style-type: none"> • As String = None, As Value = 0 • As String = Time, As Value = 1 • As String = Duration, As Value = 2 • As String = Seconds, As Value = 3 • As String = Relative_Time, As Value = 4 <p>Default is None (0).</p>
twWorkflowOnly	<p>Valid values:</p> <ul style="list-style-type: none"> • As String = -- System Default --, As Value = 0 • As String = Yes, As Value = 1 • As String = No, As Value = 2 <p>Default is -- System Default -- (0).</p>
userEstimatedDuration	Format: dd:hh:mm:ss

Task Properties - File Monitor Task

For a description of a property, click the Property name.

Property	Specifications
byPercentage	BigDecimal
byScale	Integer
bySize	BigDecimal
fileName	
fileOwner	
fmType	<p>Valid values:</p> <ul style="list-style-type: none"> • As String = Created, As Value = 1 • As String = Deleted, As Value = 2 • As String = Changed, As Value = 3 • As String = Exist, As Value = 4 • As String = Missing, As Value = 5 <p>Default is Created.</p>
maxFiles	Integer

recursive	Boolean; Valid values: true/false. Default is false.
scanForward	Boolean; Valid values: true/false. Default is false.
scanText	
stableSeconds	integer
toScale	Integer. Default is 1024.
toSize	BigDecimal. Default is 1024.
triggerOnExist	Boolean; Valid values: true/false. Default is false.
useRegex	Boolean; Valid values: true/false. Default is false.

Task Properties - File Transfer Task

For a description of a property, click the Property name.

Property	Specifications
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codepage

Set only if serverType is UDM. Valid Values:

- As String = -- None --, As Value = 0
- As String = ISO 8859-1, As Value = 1
- As String = IBM Latin-1 1047, As Value = 2
- As String = ISO 8859-2, As Value = 3
- As String = ISO 8859-3, As Value = 4
- As String = ISO 8859-4, As Value = 5
- As String = ISO 8859-5, As Value = 6
- As String = ISO 8859-6, As Value = 7
- As String = ISO 8859-7, As Value = 8
- As String = ISO 8859-8, As Value = 9
- As String = ISO 8859-9, As Value = 10
- As String = ISO 8859-10, As Value = 11
- As String = ISO 8859-13, As Value = 12
- As String = ISO 8859-14, As Value = 13
- As String = ISO 8859-15, As Value = 14
- As String = cp437, As Value = 15
- As String = cp737, As Value = 16
- As String = cp775, As Value = 17
- As String = cp850, As Value = 18
- As String = cp852, As Value = 19
- As String = cp855, As Value = 20
- As String = cp857, As Value = 21
- As String = cp860, As Value = 22
- As String = cp861, As Value = 23
- As String = cp862, As Value = 24
- As String = cp863, As Value = 25
- As String = cp864, As Value = 26
- As String = cp865, As Value = 27
- As String = cp866, As Value = 28
- As String = cp869, As Value = 29
- As String = cp874, As Value = 30
- As String = cp1250, As Value = 31
- As String = cp1251, As Value = 32
- As String = cp1252, As Value = 33
- As String = cp1253, As Value = 34
- As String = cp1254, As Value = 35
- As String = cp1255, As Value = 36
- As String = cp1256, As Value = 37
- As String = cp1257, As Value = 38
- As String = cp1258, As Value = 39
- As String = IBM Portugal 037, As Value = 40
- As String = IBM German 273, As Value = 41
- As String = IBM Danish and Norwegian 277, As Value = 42
- As String = IBM Sweden and Finland 278, As Value = 43
- As String = IBM Italian 280, As Value = 44
- As String = IBM Spanish 284, As Value = 45
- As String = IBM International 500, As Value = 46
- As String = IBM Greek 875, As Value = 47
- As String = IBM Portugal 1140, As Value = 48
- As String = IBM German 1141, As Value = 49
- As String = IBM Danish 1142, As Value = 50
- As String = IBM Finish 1143, As Value = 51
- As String = IBM Italian 1144, As Value = 52
- As String = IBM Spanish 1145, As Value = 53
- As String = IBM UK 1146, As Value = 54
- As String = IBM Swiss 1148, As Value = 55
- As String = IBM Greek 4971, As Value = 56

Default is -- None -- (0).

command	<p>Set only if serverType is FTP or SFTP. Valid Values:</p> <ul style="list-style-type: none"> • As String = GET, As Value = 1 • As String = PUT, As Value = 2 • As String = MGET, As Value = 3 • As String = MPUT, As Value = 4 • As String = DELETE, As Value = 5 • As String = MDELETE, As Value = 6 • As String = MKDIR, As Value = 7 • As String = RMDIR, As Value = 8 <p>Default is GET (1).</p>
compress	<p>Set only if serverType is UDM. Valid Values:</p> <ul style="list-style-type: none"> • As String = YES, As Value = 1 • As String = NO, As Value = 2 • As String = ZLIB, As Value = 3 • As String = HASP, As Value = 4 <p>Default is NO (2).</p>
createop	<p>Set only if serverType is UDM. Valid Values:</p> <ul style="list-style-type: none"> • As String = -- None --, As Value = 0 • As String = APPEND, As Value = 1 • As String = NEW, As Value = 2 • As String = REPLACE, As Value = 3 <p>Default is -- None -- (0).</p>
encrypt	<p>Set only if serverType is UDM. Valid Values:</p> <ul style="list-style-type: none"> • As String = YES, As Value = 1 • As String = NO, As Value = 2 • As String = RC4-SHA, As Value = 3 • As String = RC4-MD5, As Value = 4 • As String = AES256-SHA, As Value = 5 • As String = AES128-SHA, As Value = 6 • As String = DES-CBC3-SHA, As Value = 7 • As String = DES-CBC-SHA, As Value = 8 • As String = NULL-SHA, As Value = 9 • As String = NULL-MD5, As Value = 10 • As String = NULL-NULL, As Value = 11 <p>Default is NO (2).</p>
exitCodeOutput	<p>Set only if serverType is UDM.</p>
exitCodeProcessing	<p>Set only if serverType is UDM. Valid Values:</p> <ul style="list-style-type: none"> • As String = Success Exitcode Range, As Value = 1 • As String = Failure Exitcode Range, As Value = 2 • As String = Success Output Contains, As Value = 3 • As String = Failure Output Contains, As Value = 4 • As String = Step Conditions, As Value = 5 <p>Default is Success Exitcode Range (1).</p>
exitCodes	<p>Set only if serverType is UDM.</p>
exitCodeText	<p>Set only if serverType is UDM.</p>
format	<p>Valid Values:</p> <ul style="list-style-type: none"> • As String = Binary, As Value = 1 • As String = ASCII or Text, As Value = 2 <p>Default is Binary (1).</p>

formOrScript	<p>Set only if server type is UDM. Valid Values:</p> <ul style="list-style-type: none"> • As String = Form, As Value = 1 • As String = Script, As Value = 2 <p>Default is Form (1).</p>
ftpSubcommands	Set only if serverType is FTP or SFTP.
jobcard	Set only if serverType is FTP or SFTP.
localFilename	Required; Set only if serverType is FTP or SFTP.
nft	<p>Set only if serverType = UDM. Boolean. Valid Values: true/false.</p> <p>Default is false.</p>
outputType	<p>Set only if serverType is UDM. Valid Values:</p> <ul style="list-style-type: none"> • As String = STDOUT 1 • As String = STDERR 2 • As String = FILE 3 <p>Default is STDOUT (1).</p>
primaryBroker	Set only if serverType is UDM, formOrScript is Form, and primaryBrokerChoice is Agent Variable or Agent Hostname.
primaryBrokerChoice	<p>Set only if serverType is UDM and formOrScript is Form. Valid Values:</p> <ul style="list-style-type: none"> • As String = Agent, As Value = 1 • As String = Agent Variable, As Value = 2 • As String = Agent Hostname, As Value = 3 <p>Default is Agent (1).</p>
primaryBrokerRef	Set only if serverType = UDM, formOrScript = Form, and and primaryBrokerChoice = Agent.
primaryCred	Set only if serverType = UDM and formOrScript = Form.
primaryCredVar	Set only if serverType = UDM and formOrScript = Form.
primaryFilesys	<p>Set only if serverType = UDM and formOrScript = Form. Valid Values:</p> <ul style="list-style-type: none"> • As String = -- None --, As Value = 0 • As String = DSN, As Value = 1 • As String = HFS, As Value = 2 • As String = LIB, As Value = 3 <p>Default is -- None -- (0).</p>
primaryOpenOptions	Set only if serverType = UDM and formOrScript = Form.
remoteCredentials	Set only if serverType is FTP or SFTP.
remoteCredVar	Set only if serverType is FTP or SFTP.
remoteFilename	Required; Set only if serverType is FTP or SFTP.
remoteServer	Required; Set only if serverType is FTP or SFTP.
runtimeDir	Set only if serverType is UDM.
script	Set only if serverType is UDM and formOrScript is Script.
secondaryBroker	Set only if serverType is UDM, formOrScript is Form, and secondaryBrokerChoice is Agent Variable or Agent Hostname.

secondaryBrokerChoice	<p>Set only if serverType is UDM and formOrScript is Form. Valid Values:</p> <ul style="list-style-type: none"> As String = Agent, As Value = 1 As String = Agent Variable, As Value = 2 As String = Agent Hostname, As Value = 3 <p>Default is Agent (1).</p>
secondaryBrokerRef	Set only if serverType is UDM, formOrScript is Form, and and secondaryBrokerChoice is Agent.
secondaryCred	Set only if serverType is UDM and formOrScript is Form.
secondaryCredVar	Set only if serverType is UDM and formOrScript is Form.
secondaryFilesys	<p>Set only if serverType is UDM and formOrScript is Form. Valid Values:</p> <ul style="list-style-type: none"> As String = -- None --, As Value = 0 As String = DSN, As Value = 1 As String = HFS, As Value = 2 As String = LIB, As Value = 3 <p>Default is -- None -- (0).</p>
secondaryOpenOptions	Set only if serverType is UDM and formOrScript is Form.
serverType	<p>Valid Values:</p> <ul style="list-style-type: none"> As String = FTP, As Value = 1 As String = SFTP, As Value = 2 As String = UDM, As Value = 3 <p>Default is FTP (1).</p>
transferMode	<p>Set only if serverType is FTP or SFTP. Valid Values:</p> <ul style="list-style-type: none"> As String = Active, As Value = 1 As String = Passive, As Value = 2 As String = Extended_Passive, As Value = 3 <p>Default is Passive (2).</p>
trimSpace	<p>Set only if serverType is UDM. Boolean. Valid Values: true/false.</p> <p>Default is false.</p>
udmOptions	Set only if serverType is UDM.
useRegex	<p>Boolean. Valid Values: true/false.</p> <p>Default is false.</p>

Task Properties - FTP File Monitor Task

For a description of a property, click the Property name.

Property	Specifications
ftpFmtype	<p>Valid values:</p> <ul style="list-style-type: none"> As String = Exist, As Value = 1 As String = Missing, As Value = 2 <p>Default is Exist (1).</p>
jobCard	
listOptions	Set only if serverType = FTP.

pollInterval	Integer; Set only if wait = true. If not specified, defaults to 30.
pollMaximum	Integer; Set only if wait = true
remoteCredentials	
remoteCredVar	
remoteFilename	
remoteServer	
serverType	Valid values: <ul style="list-style-type: none"> • As String = FTP, As Value = 1 • As String = SFTP, As Value = 2 Default is FTP (1).
stableSeconds	Integer; Set only if wait = true
transferMode	Valid values: <ul style="list-style-type: none"> • As String = Active, As Value = 1 • As String = Passive, As Value = 2 • As String = Extended_Passive, As Value = 3
useRegex	Boolean; Valid values: true/false. Default is false.
wait	Boolean; Valid values: true/false. Default is false.

Task Properties - Linux/Unix Task

For a description of a property, click the Property name.

Property	Specifications
command	Set only if commandOrScript = Command
commandOrScript	Defaults to Command
environment	List of environment variables: <div style="border: 1px solid #ccc; padding: 10px; margin: 10px 0;"> <pre> <environment> <variable> <name>env1</name> <value>test1</value> </variable> <variable> <name>env2</name> <value>test2</value> </variable> </environment> </pre> </div>
exitCodeOutput	

exitCodeProcessing	Valid values: <ul style="list-style-type: none"> As String = Success Exitcode Range, As Value = 1 As String = FailureExitcode Range, As Value = 2 As String = Success Output Contains, As Value = 3 As String = Failure Output Contains, As Value = 4 <p>Default is Success Exitcode Range (1).</p>
exitCodes	Format: 1,5,22-30
exitCodeText	
outputReturnFile	Set only if outputReturnType = FILE.
outputReturnNline	Integer
outputReturnSline	Integer
outputReturnText	
outputReturnType	Valid values: <ul style="list-style-type: none"> As String = NONE, As Value = 1 As String = STDOUT, As Value = 2 As String = STDERR, As Value = 3 As String = FILE, As Value = 4 As String = OUTERR, As Value = 5 <p>Default is NONE (1).</p>
outputType	Required if exitCodeProcessing = 3 or 4. Valid values: <ul style="list-style-type: none"> As String = STDOUT, As Value = 1 As String = STDERR, As Value = 2 As String = FILE, As Value = 3 <p>Default is STDOUT (1).</p>
parameters	
runAsSudo	Boolean; Valid values: true/false. Default is false.
runtimeDir	
script	Set only if CommandOrScript=script. Required: valid script name.

Task Properties - Manual Task

(There are no Manual Task-specific task properties.)

Task Properties - System Monitor Task

For a description of a property, click the Property name.

Property	Specifications
smttype	Valid values: <ul style="list-style-type: none"> As String = DISKFREESPC, As Integer = 1 <p>Default is DISKFREESPC (1).</p>
freeSize	Required; Decimal

byScale	<p>Valid values:</p> <ul style="list-style-type: none"> • As String = KB, As Value = 1 • As String = MB, As Value = 2 • As String = GB, As Value = 3 <p>Default is MB (2).</p>
condition	<p>Valid values:</p> <ul style="list-style-type: none"> • As String = >, As Value = 1 • As String = <, As Value = 2 • As String = GB, As Value = 3 <p>Default is > (1).</p>
drive	Required

Task Properties - Task Monitor Task

For a description of a property, click the Property name.

Property	Specifications
monType	<p>Valid values:</p> <ul style="list-style-type: none"> • As String = Specific, As Value = 1 • As String = General, As Value = 2 <p>Default is Specific (1).</p>
relativeTimeFrom	<p>If timeScope = Relative; Format: hh:mm.</p> <p>Default is 00:00.</p>
relativeTimeTo	<p>If timeScope = Relative; Format: hh:mm.</p>
statusText	Comma-separated list of task instance statuses .
taskMonName	If monType = Specific; Task to monitor.
taskNameLookup	<p>If monType = General. Valid values:</p> <ul style="list-style-type: none"> • As String = -- None --, As Value = 1 • As String = Starts With, As Value = 2 • As String = Contains, As Value = 3 • As String = Ends With, As Value = 4 <p>Default Value is -- None -- (1).</p>
taskNameValue	If taskNameLookup is not -- None --.
timeScope	<p>Valid values:</p> <ul style="list-style-type: none"> • As String = -- None --, As Value = 0 • As String = Relative, As Value = 1 <p>Default is -- None -- (0).</p>
typeText	If monType = General; Comma-separated list of task types .

wfConditionType	<p>Valid values:</p> <ul style="list-style-type: none"> • As String = -- None --, As Value = 0 • As String = Equals, As Value = 1 • As String = Starts With, As Value = 2 • As String = Contains, As Value = 3 • As String = Ends With, As Value = 4 <p>• Default is – None – (0).*</p>
-----------------	--

Task Properties - Timer Task

For a description of a property, click the Property name.

Property	Specifications
sleepAmount	Set only if sleepType = Seconds.
sleepDayConstraint	<p>Set only if sleepType = Time or Relative_Time. Valid values:</p> <ul style="list-style-type: none"> • As String = None, As Value = 0 • As String = Same_Day, As Value = 1 • As String = Next_Day, As Value = 2 • As String = Next_Business_Day, As Value = 3 • As String = Sunday, As Value = 4 • As String = Monday, As Value = 5 • As String = Tuesday, As Value = 6 • As String = Wednesday, As Value = 7 • As String = Thursday, As Value = 8 • As String = Friday, As Value = 9 • As String = Saturday, As Value = 10 <p>Default is None (0).</p>
sleepDuration	Set only if sleepType = Duration. Format: dd:hh:mm:ss
sleepTime	<p>Set only if sleepType = Time or Relative_Time.</p> <p>Default is 00:00.</p>
sleepType	<p>Valid values:</p> <ul style="list-style-type: none"> • As String = Time, As Value = 1 • As String = Duration, As Value = 2 • As String = Seconds, As Value = 3 • As String = Relative_Time, As Value = 4 <p>Default is Seconds (3).</p>

Task Properties - Windows Task

For a description of a property, click the Property name.

Property	Specifications
command	Set only if commandOrScript = Command
commandOrScript	Defaults to Command
desktopInteract	<p>Boolean; Valid values: true/false.</p> <p>Default is false.</p>
elevateUser	<p>Boolean; Valid values: true/false.</p> <p>Default is false.</p>

environment	<p>List of environment variables:</p> <pre style="border: 1px solid #ccc; padding: 10px; margin: 10px 0;"> <environment> <variable> <name>env1</name> <value>test1</value> </variable> <variable> <name>env2</name> <value>test2</value> </variable> </environment> </pre>
exitCodeOutput	
exitCodeProcessing	<p>Valid values:</p> <ul style="list-style-type: none"> As String = Success Exitcode Range, As Value = 1 As String = FailureExitcode Range, As Value = 2 As String = Success Output Contains, As Value = 3 As String = Failure Output Contains, As Value = 4 <p>Default is Success Exitcode Range (1).</p>
exitCodes	Format: 1,5,22-30
exitCodeText	
outputReturnFile	Set only if outputReturnType = FILE.
outputReturnNline	Integer
outputReturnSline	Integer
outputReturnText	
outputReturnType	<p>Valid values:</p> <ul style="list-style-type: none"> As String = NONE, As Value = 1 As String = STDOUT, As Value = 2 As String = STDERR, As Value = 3 As String = FILE, As Value = 4 As String = OUTERR, As Value = 5 <p>Default is NONE (1).</p>
outputType	<p>Required if exitCodeProcessing = 3 or 4. Valid values:</p> <ul style="list-style-type: none"> As String = STDOUT, As Value = 1 As String = STDERR, As Value = 2 As String = FILE, As Value = 3 <p>Default is STDOUT (1).</p>
parameters	
runtimeDir	
script	Set only if CommandOrScript=script. Required: valid script name.

Task Properties - z/OS Task

For a description of a property, click the Property name.

Property	Specifications
----------	----------------

autoRestartOption	<p>Valid values:</p> <ul style="list-style-type: none"> • As String = -- None --, As Value = 0 • As String = Restart From First Job Step, As Value = 1 • As String = Restart From Failed Job Step, As Value = 2 • As String = Use Restart Criteria, As Value = 3 <p>Default is -- None -- (0).</p>
deleteOverrideJcl	<p>Boolean; Valid values: true/false.</p> <p>Default is false.</p>
exitCodeOutput	
exitCodeProcessing	<p>Valid values:</p> <ul style="list-style-type: none"> • As String = Success Exitcode Range, As Value = 1 • As String = FailureExitcode Range, As Value = 2 • As String = Success Output Contains, As Value = 3 • As String = Failure Output Contains, As Value = 4 <p>Default is Success Exitcode Range (1).</p>
exitCodes	Format: 1,5,22-30
exitCodeText	
jclLocation	File and member name
jobclassNew	
jobnameNew	<p>Syntax:</p> <ul style="list-style-type: none"> • 1-8 characters • Upper case • Name must start with an alphabetic or \$, #, @ character. • Remaining characters are alphanumeric or \$, #, @. • No spaces or tabs.
msgclasNew	
outputReturnFile	Set only if outputReturnType= FILE.
outputReturnNline	Integer
outputReturnSline	Integer
outputReturnText	
outputReturnType	<p>Valid values:</p> <ul style="list-style-type: none"> • As String = NONE, As Value = 1 • As String = FILE, As Value = 4 • As String = OUTERR, As Value = 5 <p>Default is NONE (1).</p>
outputType	<p>Required if exitCodeProcessing = 3 or 4. Valid values:</p> <ul style="list-style-type: none"> • As String = STDOUT, As Value = 1 • As String = STDERR, As Value = 2 • As String = FILE, As Value = 3 <p>Default is STDOUT (1).</p>
overrideJclDellnstCount	<p>Set only if deleteOverrideJcl=true; Integer.</p> <p>Default is 1.</p>
overrideJclLocation	Set only if useOverrideLib = true; File and member name.

parameters	<pre> <parameters> <parameter> <name>TEST</name> <value>val</value> </parameter> </parameters> </pre>
proclibName	
scheduleId	(For CA7 toleration only.)
useOverrideLib	Boolean; Valid values: true/false. Default is false.

Task Action Properties

For a description of a property, click the Property name.



Deprecated Properties

For properties that can be toggled between a variable that will be resolved at runtime or a reference to a specific pre-defined item, including **agent/agentVar**, **agentCluster/agentClusterVar**, and **credentials/credentialsVar**, the corresponding **Check** properties, for example, **agentVarCheck**, are optional and have been deprecated. For more details on the expected behaviour of each property, see its corresponding documentation.

Property	Specifications
Abort Action	
cancelProcess	Boolean; Valid values: true/false. Default is false.
description	
exitCodes	Format: 1,5,22-30
notifyOnEarlyFinish	Boolean; Valid values: true/false. Default is false.
notifyOnLateFinish	Boolean; Valid values: true/false. Default is false.
notifyOnLateStart	Boolean; Valid values: true/false. Default is false.
overrideExitCode	Integer
status	
sysId	
Email Notification Action	
attachFile	For Agent-based tasks only. Boolean; Valid values: true/false. Default is false.
attachJobLog	For z/OS tasks. Boolean; Valid values: true/false. Default is false.

attachStdError	For Agent-based tasks only. Boolean; Valid values: true/false. Default is false.
attachStdOut	For Agent-based tasks only. Boolean; Valid values: true/false. Default is false.
bcc	Variables and functions supported.
body	Variables and functions supported.
cc	Variables and functions supported.
description	
emailConnection	If you specify an email Connection and an email Template, the Controller uses the email Connection.
emailTemplate	If you specify an email Connection and an email Template, the Controller uses the email Connection.
exitCodes	Integer
fileName	For attachFile only.
fileNumLines	Integer
fileScanText	
fileStartLine	Integer
joblogNumLines	Integer
joblogScanText	Regex pattern
joblogStartLine	Integer
notifyOnEarlyFinish	Boolean; Valid values: true/false. Default is false.
notifyOnLateFinish	Boolean; Valid values: true/false. Default is false.
notifyOnLateStart	Boolean; Valid values: true/false. Default is false.
replyTo	

<p>report</p>	<p>If reportVar is specified, report is ignored.</p> <p>Reports do not have to be unique by Title. However, reports with the same Title must be unique per Visibility: per User, per Group, and per Everyone. Therefore, when specifying a report reference, both the Title and Visibility must be specified.</p> <p>To define a report reference for a report with Title XYZ that is visible to user john.doe, you would specify:</p> <pre data-bbox="388 331 1445 506"> <report> <title>XYZ</title> <userName>john.doe</userName> <groupName /> </report> </pre> <p>To define a report reference for a report with Title XYZ that is visible to group Operators, you would specify:</p> <pre data-bbox="388 604 1445 779"> <report> <title>XYZ</title> <userName /> <groupName>Operators</groupName> </report> </pre> <p>To define a report reference for a report with title XYZ that is visible to Everyone, you would specify:</p> <pre data-bbox="388 877 1445 1052"> <report> <title>XYZ</title> <groupName /> <userName /> </report> </pre>
reportVar	
status	
stderrNumLines	Integer
stderrScanText	
stderrStartLine	Integer
stdoutNumLines	Integer
stdoutScanText	
stdoutStartLine	Integer
subject	Variables and functions supported.
sysId	
to	Variables and functions supported.
Set Variable Action	
description	
exitCodes	Format: 1,5,22-30
notifyOnEarlyFinish	Boolean; Valid values: true/false. Default is false.
notifyOnLateFinish	Boolean; Valid values: true/false. Default is false.

notifyOnLateStart	Boolean; Valid values: true/false. Default is false.
status	
sysId	
variableDescription	
variableName	<ul style="list-style-type: none"> • Up to 40 alphanumeric. • Name must begin with an alphabetic character and can consist of: alphas (a-z, A-Z), numerics 0-9, _ (underscore). • White spaces are not permitted; names are not case-sensitive.
variableScope	Valid values: <ul style="list-style-type: none"> • As String = SELF, As Value = 1 • As String = PARENT, As Value = 2 • As String = TOP_LEVEL_PARENT, As Value = 3 • As String = GLOBAL, As Value = 4 Default is SELF (1).
variableValue	
SNMP Notification Action	
description	
exitCodes	Format: 1,5,22-30
notifyOnEarlyFinish	Boolean; Valid values: true/false. Default is false.
notifyOnLateFinish	Boolean; Valid values: true/false. Default is false.
notifyOnLateStart	Boolean; Valid values: true/false. Default is false.
severity	Valid values: <ul style="list-style-type: none"> • As String = Normal, As Value = 1 • As String = Warning, As Value = 2 • As String = Minor, As Value = 3 • As String = Major, As Value = 4 • As String = Critical, As Value = 5 Default is Normal (1).
status	
sysId	
snmpManager	
System Operation Action	
agent	Only one of agent and agentVar can be defined with a non-blank value; if both are non-blank, the Controller will ignore the agent property.
agentCluster	Only one of agentCluster and agentClusterVar can be defined with a non-blank value; if both are non-blank, the Controller will ignore the agentCluster property.
agentClusterVar	Only one of agentCluster andr agentClusterVar can be defined with a non-blank value; if both are non-blank, the Controller will ignore the agentCluster property.

agentVar	Only one of agent and agentVar can be defined with a non-blank value; if both are non-blank, the Controller will ignore the agent property.
description	
execCommand	<p>Set only if operation = Run Task Instance Command. Valid values:</p> <ul style="list-style-type: none"> • As String = Cancel, As Value = 1 • As String = Force Finish, As Value = 2 • As String = Force Finish (Halt), As Value = 3 • As String = Force Finish/Cancel, As Value = 4 • As String = Force Finish/Cancel (Halt), As Value = 5 • As String = Skip, As Value = 6 • As String = Hold, As Value = 7 • As String = Release, As Value = 8 • As String = Release Recursive, As Value = 9 • As String = Clear All Dependencies, As Value = 10 • As String = Clear Exclusive, As Value = 11 • As String = Clear Predecessors, As Value = 12 • As String = Clear Resources, As Value = 13 • As String = Unskip, As Value = 14 • As String = Clear Timewait, As Value = 15 <p>Default is Cancel (1).</p>
execCriteria	<p>Set only if operation = Run Task Instance Command. Valid values:</p> <ul style="list-style-type: none"> • As String = Oldest Active Instance, As Value = 1 • As String = Newest Active Instance, As Value = 2 • As String = Oldest Instance, As Value = 3 (Unskip command only) • As String = Newest Instance, As Value = 4 (Unskip command only) <p>Default is Oldest Active Instance (1).</p>
execId	Set only if execLookupOption = Instance Id.
execLookupOption	<p>Set only if operation = Run Task Instance Command. Valid values:</p> <ul style="list-style-type: none"> • As String = Instance Name, As Value = 1 • As String = Instance Name/Task, As Value = 2 • As String = Instance Id, As Value = 3 • As String = Task, As Value = 4 <p>Default is Instance Name (1).</p>
execName	Set only if execLookupOption = Instance Name.
execWorkflowName	Set only if operation = Run Task Instance Command.
exitCodes	Format: 1,5,22-30
notificationOption	<p>Valid values:</p> <ul style="list-style-type: none"> • As String = -- None --, As Value = 0 • As String = Operation Failure, As Value = 1 • As String = Operation Success/Failure, As Value = 2 • As String = Operation Success, As Value = 3 <p>Default is Operation Failure (1).</p>
notifyOnEarlyFinish	<p>Boolean; Valid values: true/false.</p> <p>Default is false.</p>
notifyOnLateFinish	<p>Boolean; Valid values: true/false.</p> <p>Default is false.</p>
notifyOnLateStart	<p>Boolean; Valid values: true/false.</p> <p>Default is false.</p>

operation	<p>Valid values:</p> <ul style="list-style-type: none"> • As String = Suspend Agent, As Value = 1 • As String = Resume Agent, As Value = 2 • As String = Suspend Agent Cluster, As Value = 3 • As String = Resume Agent Cluster, As Value = 4 • As String = Suspend Cluster Membership, As Value = 5 • As String = Resume Cluster Membership, As Value = 6 • As String = Set Agent Task Execution Limit, As Value = 7 • As String = Set Cluster Task Execution Limit, As Value = 8 • As String = Set Virtual Resource Limit, As Value = 9 • As String = Run Task Instance Command, As Value = 10 <p>Default is Suspend Agent (1).</p>
status	
sysId	
task	Only one of task and taskVar can be defined with a non-blank value; if both are non-blank, the Controller will ignore the task property. Set only if operation = Run Task Instance Command.
taskLimitType	Integer
taskVar	Only one of task and taskVar can be defined with a non-blank value; if both are non-blank, the Controller will ignore the task property. Set only if operation = Run Task Instance Command.
virtualResource	Only one of virtualResource and virtualResourceVar can be defined with a non-blank value; if both are non-blank, the Controller will ignore the virtualResource property.
virtualResourceVar	Only one of virtualResource and virtualResourceVar can be defined with a non-blank value; if both are non-blank, the Controller will ignore the virtualResource property.

Task-Related Records Properties

For a description of a property, click the Property name.

Property	Specifications
Mutually Exclusive Tasks	
sysId	sysId of the task-to-exclusive-task relationship.
task	Exclusive task name.
type	<p>Valid values:</p> <ul style="list-style-type: none"> • Direct <p>If not specified, defaults to Direct.</p>
Notes	
sysId	
text	
title	
Variables	
description	
name	
sysId	
value	
Restart Criteria - z/OS Tasks only	

directives	Required if restartOption = Restart From Directives (3); Collection of directive objects. Valid values: <ul style="list-style-type: none"> • Start • Skip • End
evaluationOrder	
programName	
pstepName	
restartOption	Valid values: <ul style="list-style-type: none"> • As String = Restart From First Job Step, As Value = 1 • As String = Restart From Matching Job Step, As Value = 2 • As String = Restart From Directives, As Value = 3 <p>Default is Restart From First Job Step (1).</p>
stepCodes	
stepName	
sysId	
Step Conditions - z/OS Tasks only	
programName	
pstepName	
stepAction	Valid values: <ul style="list-style-type: none"> • As String = Continue/Success, As Value = 1 • As String = Continue/Failed, As Value = 2 • As String = Halt/Failed, As Value = 3 • As String = Askoper, As Value = 4 <p>Default is Continue/Success (1).</p>
stepCodes	
stepName	
stepOrder	
sysId	
Virtual Resources	
amount	
resource	Valid values: <ul style="list-style-type: none"> • Renewable • Boundary • Depletable
sysId	
virtualResource	

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



Deprecated

Replaced by [Create a Task](#).

	Description
URI	http://host_name/opswise/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 Parameters (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> </task> </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 - 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>task types: windows unix linux zos</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) JOBLOG (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) JOBLOG (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 #add8e6; padding: 10px;"> <command-response> <type>create_task</type> <success>true</success> <info /> <errors /> </command-response></pre>

Delete a Task

	Description
URI	http://host_name/opswise/resources/task
HTTP Method	DELETE
Description	Deletes the specified task .
Request Parameters	taskid or taskname
Mutually Exclusive Parameters	taskid and taskname
Example URI	<ul style="list-style-type: none"> http://localhost:8080/opswise/resources/task?taskname=testTask http://localhost:8080/opswise/resources/task?taskid=d26265a2c4f345359d9b356f18a462c1
Authentication	HTTP Basic

Example Response	<ul style="list-style-type: none"> • Status 200 /OK Task deleted successfully. • Status 404 /Not Found A task with id "f87848b00a0001037f43e7c81c8ec969" does not exist.
------------------	--

Launch a Task

	Description
URI	http://host_name/opswise/resources/task/ops-task-launch
HTTP Method	POST
Description	Launches the specified task.
Example URI	http://localhost:8080/opswise/resources/task/ops-task-launch
Authentication	HTTP Basic
Consumes Content-Type	application/xml
Produces Content-Type	application/xml
Example XML Request	<pre> <task-launch> <name>Timer 0</name> <virtualResourcePriority>10</virtualResourcePriority> <virtual-resources> <virtual-resource> <name>Opswise - Solo</name> <limit>2</limit> </virtual-resource> </virtual-resources> <hold>yes</hold> <variables> <variable> <name>testVariable</name> <value>Hello</value> </variable> </variables> </task-launch> </pre>
Example XML Response	<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>

Optional Parameters	<ul style="list-style-type: none"> • hold; Valid values = Yes,Y,true • variables • virtualResourcePriority; Valid values are any integer between 1 and 20. • virtual-resources <p>The virtual resource dependencies specified in <code>virtual-resources</code> are merged with the default virtual resource dependencies.</p> <ul style="list-style-type: none"> • If a default virtual resource dependency already exists for a specified virtual resource amount, the virtual resource dependency is updated. • Any virtual resource specified with an amount of 0 is dropped from the default virtual resource dependencies; if the virtual resource did not exist as a default dependency, the command will fail. • If a default virtual resource dependency does not already exist for a specified virtual resource amount, the virtual resource dependency is added.
---------------------	---

Modify a Task

You can use the Modify a Task web service to modify the following types of tasks:

- File Monitor
- File Transfer
- FTP File Monitor
- Linux/Unix
- Manual
- System Monitor
- Task Monitor
- Timer
- Windows
- z/OS

	Description
URI	<code>host_name/opswise/resources/task</code>
HTTP Method	PUT
Description	Modifies the task specified by the <code>sysId</code> (see Example Responses for Tasks).
Examples	See Create a Task Examples .
Attributes	retainSysIds is ignored.
Example XML Request	<p>In the Read a Task web service, see:</p> <ul style="list-style-type: none"> • Example Responses for Tasks <ul style="list-style-type: none"> • File Monitor Task • File Transfer Task • FTP File Monitor Task • Linux/Unix Task • Manual Task • System Monitor Task • Task Monitor Task • Timer Task • Windows Task • z/OS Task • Example Responses for Task Actions <ul style="list-style-type: none"> • Abort • Email Notification • Set Variable • SNMP Notification • System Operation • Example Responses for Task-Related Records <ul style="list-style-type: none"> • Notes • Restart Criteria - z/OS Tasks only • Step Conditions - z/OS Tasks only • Variables • Virtual Resources

Task Properties	<ul style="list-style-type: none"> • Task Properties - All Tasks • Task Properties - File Monitor Task • Task Properties - File Transfer Task • Task Properties - FTP File Monitor Task • Task Properties - Linux/Unix Task • Task Properties - Manual Task • Task Properties - System Monitor Task • Task Properties - Task Monitor Task • Task Properties - Timer Task • Task Properties - Windows Task • Task Properties - z/OS Task
Task Action Properties	<ul style="list-style-type: none"> • Abort Action • Email Notification Action • Set Variable Action • SNMP Notification Action • System Operation Action
Task-Related Records Properties	<ul style="list-style-type: none"> • Notes • Restart Criteria - z/OS Tasks only • Step Conditions - z/OS Tasks only • Variables • Virtual Resources
Example Response	<ul style="list-style-type: none"> • Status 200 /OK Successfully updated the <task type> task with sysId <sysId>.

Query a List of Tasks

	Description
URI	http://host_name/opswise/resources/task/list
HTTP Method	POST
Description	Displays tasks associated with the specified search criteria.
Example URI	http://localhost:8080/opswise/resources/task/list
Authentication	HTTP Basic
Consumes Content-Type	application/xml
Produces Content-Type	application/xml
Example XML Request	<pre> <generic-query-filter> <name>*</name> <type>Timer</type> <updatedAtType>offset</updatedAtType> <updatedAt>-10d</updatedAt> <businessServices>bService1,bService2</businessServices> </generic-query-filter> </pre>

<p>Example XML Response</p>	<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>
<p>Required Properties</p>	<ul style="list-style-type: none"> updatedTime; <ul style="list-style-type: none"> Required if updateTimeType is Offset; updateTime is specified with –offset period: mn - minutes, h - hours, d – days (if not specified, defaults to d). Examples: -5d (last 5 days), -30mn (last 30 minutes), -6h (last 6 hours), -7 (last 7 days). Required if updateTimeType is Since; updateTime is specified as a date/time value (yyyy-MM-dd [HH:mm:ss]). Ignored if updateTimeType is Today.
<p>Optional Properties</p>	<ul style="list-style-type: none"> name type businessServices; Comma-separated list of Business Service names updateTimeType; Valid values: Today, Offset, Since

Read a Task

You can use the Read a Task web service to read the following types of tasks:

- File Monitor
- File Transfer
- FTP File Monitor
- Linux/Unix
- Manual
- System Monitor
- Task Monitor
- Timer
- Windows
- z/OS

	Description
URI	<i>host_name</i> /opswise/resources/task
HTTP Method	GET
Description	Retrieves information on the specified task .
Request Parameters	taskid or taskname
Mutually Exclusive Parameters	taskid and taskname
Example URI	<ul style="list-style-type: none"> • http://localhost:8080/opswise/resources/task?taskname=testTask • http://localhost:8080/opswise/resources/task?taskid=d26265a2c4f345359d9b356f18a462c1
Example Response	<ul style="list-style-type: none"> • Status 200 /OK (See Example Responses, below.) • Status 404 /Not Found A task with id "f87848b00a0001037f43e7c81c8ec969" does not exist.

Example Responses for Tasks

File Monitor Task

```

<taskFileMonitor retainSysIds="true"
  <actions />
  <variables />
  <notes />
  <virtualResources />
  <agent />
  <agentCluster>Opswise - Demo Linux/Unix
Cluster</agentCluster>
  <agentClusterVar />
  <agentVar />
  <broadcastCluster />
  <cpDuration />
  <cpDurationUnit>Minutes</cpDurationUnit>
  <credentials />
  <credentialsVar />
  <efDuration>00:00:00:00</efDuration>
  <efEnabled>>false</efEnabled>
  <efTime>00:00</efTime>
  <efType>Time</efType>
  <holdResources>>false</holdResources>
  <lfDuration>00:00:00:00</lfDuration>
  <lfEnabled>>false</lfEnabled>
  <lfTime>00:00</lfTime>
  <lfType>Time</lfType>
  <lsDuration>00:00:00:00</lsDuration>
  <lsEnabled>>false</lsEnabled>
  <lsTime>00:00</lsTime>
  <lsType>Time</lsType>
  <name>Opswise - Download Dir Exists - test</name>
  <opswiseGroups />
  <resPriority>10</resPriority>
  <retryIndefinitely>>false</retryIndefinitely>
  <retryInterval>60</retryInterval>
  <retryMaximum>0</retryMaximum>
  <startHeld>>false</startHeld>
  <startHeldReason />
  <summary />
  <sysId>fb59a227517a421a92c15ff5aefe3b66</sysId>
  <twDelayAmount />
  <twDelayDuration>00:00:00:00</twDelayDuration>
  <twDelayType>None</twDelayType>
  <twWaitAmount />
  <twWaitDayConstraint />
  <twWaitDuration>00:00:00:00</twWaitDuration>
  <twWaitTime>00:00</twWaitTime>
  <twWaitType>None</twWaitType>
  <twWorkflowOnly>-- System Default --</twWorkflowOnly>
  <userEstimatedDuration>00:08:00:00</userEstimatedDuration>
  <byPercentage />
  <byScale>1024</byScale>
  <bySize />
  <fileName>${demo_ops_download_dir}</fileName>
  <fileOwner>file owner</fileOwner>
  <fmType>Exist</fmType>
  <maxFiles />
  <recursive>>true</recursive>
  <scanForward>>false</scanForward>
  <scanText />
  <stableSeconds />
  <toScale>1024</toScale>
  <toSize />
  <triggerOnExist>>false</triggerOnExist>
  <useRegex>>true</useRegex>
</taskFileMonitor>

```

File Transfer Task

```

<taskFtp retainSysIds="true">
  <actions />

```

```

<variables />
<notes />
<virtualResources />
<exclusiveTasks />
<agent />
<agentCluster>Opswise - Demo Linux/Unix
Cluster</agentCluster>
<agentClusterVar />
<agentVar />
<broadcastCluster />
<cpDuration />
<cpDurationUnit>Minutes</cpDurationUnit>
<credentials />
<credentialsVar />
<efDuration>00:00:00:00</efDuration>
<efEnabled>>false</efEnabled>
<efTime>00:00</efTime>
<efType>Time</efType>
<holdResources>>false</holdResources>
<lfDuration>00:00:00:00</lfDuration>
<lfEnabled>>false</lfEnabled>
<lfTime>00:00</lfTime>
<lfType>Time</lfType>
<lsDuration>00:00:00:00</lsDuration>
<lsEnabled>>false</lsEnabled>
<lsTime>00:00</lsTime>
<lsType>Time</lsType>
<name>Opswise - FTP Download</name>
<opswiseGroups />
<resPriority>10</resPriority>
<retryExitCodes />
<retryIndefinitely>>false</retryIndefinitely>
<retryInterval>60</retryInterval>
<retryMaximum>0</retryMaximum>
<startHeld>>false</startHeld>
<startHeldReason />
<summary />
<sysId>65c3429bc0a802ba012b03d430e17b4e</sysId>
<twDelayAmount />
<twDelayDuration>00:00:00:00</twDelayDuration>
<twDelayType>None</twDelayType>
<twWaitAmount />
<twWaitDayConstraint>NONE</twWaitDayConstraint>
<twWaitDuration>00:00:00:00</twWaitDuration>
<twWaitTime>00:00</twWaitTime>
<twWaitType>None</twWaitType>
<twWorkflowOnly>-- System Default --</twWorkflowOnly>
<userEstimatedDuration />
<codepage>-- None --</codepage>
<command>GET</command>
<compress>NO</compress>
<createop>-- None --</createop>
<encrypt>NO</encrypt>
<exitCodeOutput />
<exitCodeProcessing>Success Exitcode
Range</exitCodeProcessing>
<exitCodeText />
<exitCodes>0</exitCodes>
<formOrScript>Form</formOrScript>
<format>ASCII</format>
<ftpSubcommands />
<jobcard />
<localFilename
>${demo_ops_download_dir}/welcome.msg</localFilename>
<nft>>false</nft>
<outputType>STDOUT</outputType>
<primaryBroker />
<primaryBrokerChoice>Agent</primaryBrokerChoice>
<primaryBrokerRef />
<primaryCredVar />
<primaryCredentials />
<primaryFilesys>-- None --</primaryFilesys>
<primaryOpenOptions />
<remoteCredVar />
<remoteCredentials>Opswise - Anonymous</remoteCredentials>
<remoteFilename>welcome.msg</remoteFilename>
<remoteServer>ftp.winzip.com</remoteServer>
<runtimeDir />
<script />

```

```
<secondaryBroker />  
<secondaryBrokerChoice>Agent</secondaryBrokerChoice>  
<secondaryBrokerRef />  
<secondaryCredVar />  
<secondaryCredentials />  
<secondaryFilesys>-- None --</secondaryFilesys>  
<secondaryOpenOptions />  
<serverType>FTP</serverType>  
<transferMode>Passive</transferMode>  
<trimSpace>>false</trimSpace>  
<udmOptions />
```

```

    <useRegex>>false</useRegex>
</taskFtp>

```

FTP File Monitor Task

```

<taskFtpFileMonitor retainSysIds="true">
  <actions />
  <variables />
  <notes />
  <virtualResources />
  <agent />
  <agentCluster />
  <agentClusterVar />
  <agentVar>agentVar</agentVar>
  <broadcastCluster />
  <cpDuration />
  <cpDurationUnit>Minutes</cpDurationUnit>
  <credentials />
  <credentialsVar />
  <efDuration>00:00:00</efDuration>
  <efEnabled>>false</efEnabled>
  <efTime>00:00</efTime>
  <efType>Time</efType>
  <holdResources>>false</holdResources>
  <lfDuration>00:00:00:00</lfDuration>
  <lfEnabled>>false</lfEnabled>
  <lfTime>00:00</lfTime>
  <lfType>Time</lfType>
  <lsDuration>00:00:00:00</lsDuration>
  <lsEnabled>>false</lsEnabled>
  <lsTime>00:00</lsTime>
  <lsType>Time</lsType>
  <name>Opwise - Wait until Remote File Exists</name>
  <opwiseGroups />
  <resPriority>10</resPriority>
  <retryIndefinitely>>false</retryIndefinitely>
  <retryInterval>60</retryInterval>
  <retryMaximum>0</retryMaximum>
  <startHeld>>false</startHeld>
  <startHeldReason />
  <summary />
  <sysId>3309586343d26172001d662b049d90c8</sysId>
  <twDelayAmount />
  <twDelayDuration>00:00:00:00</twDelayDuration>
  <twDelayType>None</twDelayType>
  <twWaitAmount />
  <twWaitDayConstraint />
  <twWaitDuration>00:00:00:00</twWaitDuration>
  <twWaitTime>00:00</twWaitTime>
  <twWaitType>None</twWaitType>
  <twWorkflowOnly>-- System Default --</twWorkflowOnly>
  <ftpFmttype>Exist</ftpFmttype>
  <jobCard />
  <listOptions />
  <pollInterval>30</pollInterval>
  <pollMaximum>2</pollMaximum>
  <remoteCredentials />
  <remoteCredVar>credVar</remoteCredVar>
  <remoteFilename
>${demo_ops_download_dir}/ftpfile.txt</remoteFilename>
  <remoteServer>test.com</remoteServer>
  <serverType>FTP</serverType>
  <stableSeconds />
  <transferMode>Passive</transferMode>
  <useRegex>>false</useRegex>
  <wait>>true</wait>
</taskFtpFileMonitor>

```

Linux/Unix Task

```

<taskUnix retainSysIds="true"
  <actions />
  <variables />
  <notes />
  <virtualResources />
  <agent />
  <agentCluster>Opswise - Demo Linux/Unix
Cluster</agentCluster>
  <agentClusterVar />
  <agentVar />
  <broadcastCluster />
  <cpDuration />
  <cpDurationUnit>Minutes</cpDurationUnit>
  <credentials />
  <credentialsVar />
  <efDuration>00:00:00:00</efDuration>
  <efEnabled>true</efEnabled>
  <efTime>00:00</efTime>
  <efType>Time</efType>
  <holdResources>true</holdResources>
  <lfDuration>00:00:08:00</lfDuration>
  <lfEnabled>true</lfEnabled>
  <lfTime>00:00</lfTime>
  <lfType>Duration</lfType>
  <lsDuration>00:00:00:00</lsDuration>
  <lsEnabled>true</lsEnabled>
  <lsTime>03:00</lsTime>
  <lsType>Time</lsType>
  <name>Opswise - Linux Echo</name>
  <opswiseGroups>
    <opswiseGroup>Business Service 2</opswiseGroup>
  </opswiseGroups>
  <resPriority>10</resPriority>
  <retryExitCodes />
  <retryIndefinitely>true</retryIndefinitely>
  <retryInterval>60</retryInterval>
  <retryMaximum>0</retryMaximum>
  <startHeld>true</startHeld>
  <startHeldReason>hold reason</startHeldReason>
  <summary />
  <sysId>f87848b00a0001037f43e7c81c8ec969</sysId>
  <twDelayAmount />
  <twDelayDuration>00:00:01:00</twDelayDuration>
  <twDelayType>Duration</twDelayType>
  <twWaitAmount />
  <twWaitDayConstraint />
  <twWaitDuration>00:00:00:00</twWaitDuration>
  <twWaitTime>00:00</twWaitTime>
  <twWaitType>Time</twWaitType>
  <twWorkflowOnly>Yes</twWorkflowOnly>
  <userEstimatedDuration>00:00:00:02</userEstimatedDuration>
  <command />
  <commandOrScript>Script</commandOrScript>
  <environment />
  <exitCodeOutput />
  <exitCodeProcessing>Success Exitcode
Range</exitCodeProcessing>
  <exitCodeText />
  <exitCodes>0</exitCodes>
  <outputReturnFile />
  <outputReturnNLine>100</outputReturnNLine>
  <outputReturnSLine>1</outputReturnSLine>
  <outputReturnText />
  <outputReturnTypeError>STDERR</outputReturnTypeError>
  <outputType>STDOUT</outputType>
  <parameters>Opswise Demo</parameters>
  <runAsSudo>false</runAsSudo>
  <runtimeDir />
  <script />
</taskUnix>

```

Manual Task

```

<taskManual retainSysIds="true">
  <actions />
  <variables />
  <notes />
  <virtualResources />
  <cpDuration />
  <cpDurationUnit>Minutes</cpDurationUnit>
  <efDuration>00:00:00:00</efDuration>
  <efEnabled>>false</efEnabled>
  <efTime>00:00</efTime>
  <efType>Time</efType>
  <holdResources>>true</holdResources>
  <lfDuration>00:00:08:00</lfDuration>
  <lfEnabled>>true</lfEnabled>
  <lfTime>00:00</lfTime>
  <lfType>Duration</lfType>
  <lsDuration>00:00:00:00</lsDuration>
  <lsEnabled>>true</lsEnabled>
  <lsTime>03:00</lsTime>
  <lsType>Time</lsType>
  <name>Test Manual Task</name>
  <opswiseGroups />
  <resPriority>10</resPriority>
  <retryIndefinitely>>false</retryIndefinitely>
  <retryInterval>60</retryInterval>
  <retryMaximum>0</retryMaximum>
  <startHeld>>false</startHeld>
  <startHeldReason />
  <summary>A Manual Job run at ${_date()}</summary>
  <sysId>f81d30ccc0a801c9008ea20e4f5f61d6</sysId>
  <twDelayAmount />
  <twDelayDuration>00:00:01:00</twDelayDuration>
  <twDelayType>Duration</twDelayType>
  <twWaitAmount />
  <twWaitDayConstraint />
  <twWaitDuration>00:00:00:00</twWaitDuration>
  <twWaitTime>00:00</twWaitTime>
  <twWaitType>Time</twWaitType>
  <twWorkflowOnly>-- System Default --</twWorkflowOnly>
  <userEstimatedDuration>00:06:30:00</userEstimatedDuration>
</taskManual>

```

System Monitor Task


```

<taskSystemMonitor retainSysIds="true"
  <actions />
  <variables />
  <notes />
  <virtualResources />
  <exclusiveTasks />
  <agentCluster />
  <agentClusterVar />
  <agentVar>${sysmon_win_agent}</agentVar>
  <broadcastCluster />
  <cpDuration />
  <cpDurationUnit>Minutes</cpDurationUnit>
  <credentials />
  <credentialsVar />
  <efDuration>00:00:00</efDuration>
  <efEnabled>>false</efEnabled>
  <efTime>00:00</efTime>
  <efType>Time</efType>
  <holdResources>>false</holdResources>
  <lfDuration>00:00:00:00</lfDuration>
  <lfEnabled>>false</lfEnabled>
  <lfTime>00:00</lfTime>
  <lfType>Time</lfType>
  <lsDuration>00:00:00:00</lsDuration>
  <lsEnabled>>false</lsEnabled>
  <lsTime>00:00</lsTime>
  <lsType>Time</lsType>
  <name>sysmon_diskspace_win_success</name>
  <opswiseGroups />
  <resPriority>10</resPriority>
  <retryIndefinitely>>false</retryIndefinitely>
  <retryInterval>60</retryInterval>
  <retryMaximum>0</retryMaximum>
  <startHeld>>false</startHeld>
  <startHeldReason />
  <summary />
  <sysId>9add391ced4a45a0af3ef65544972b02</sysId>
  <twDelayAmount />
  <twDelayDuration</twDelayDuration>
  <twDelayType>None</twDelayType>
  <twWaitAmount />
  <twWaitDayConstraint>NONE</twWaitDayConstraint>
  <twWaitDuration>00:00:00:00</twWaitDuration>
  <twWaitTime>00:00</twWaitTime>
  <twWaitType>None</twWaitType>
  <twWorkflowOnly>-- System Default --</twWorkflowOnly>
  <userEstimatedDuration />
  <byScale>MB</byScale>
  <condition>></condition>
  <drive>c:\</drive>
  <freeSize>1.0</freeSize>
  <smttype>DISKFREESPC</smttype>
</taskSystemMonitor>

```

Task Monitor Task

```

<taskMonitor retainSysIds="true">
  <actions />
  <variables />
  <notes />
  <virtualResources />
  <cpDuration />
  <cpDurationUnit>Minutes</cpDurationUnit>
  <credentials />
  <credentialsVar />
  <efDuration>00:00:00:00</efDuration>
  <efEnabled>>false</efEnabled>
  <efTime>00:00</efTime>
  <efType>Time</efType>
  <holdResources>>true</holdResources>
  <lfDuration>00:00:08:00</lfDuration>
  <lfEnabled>>true</lfEnabled>
  <lfTime>00:00</lfTime>
  <lfType>Duration</lfType>
  <lsDuration>00:00:00:00</lsDuration>
  <lsEnabled>>true</lsEnabled>
  <lsTime>03:00</lsTime>
  <lsType>Time</lsType>
  <name>Opswise-test task monitor</name>
  <opswiseGroups />
  <monType>General</monType>
  <relativeTimeFrom>00:00</relativeTimeFrom>
  <relativeTimeTo />
  <resPriority>10</resPriority>
  <startHeld>>false</startHeld>
  <startHeldReason />
  <statusText>Defined, Waiting, Time Wait, Held, Exclusive
Requested,
      Exclusive Wait, Resource Requested, Resource Wait,
Execution Wait,
      Undeliverable, Queued, Submitted, Action Required,
Started, Running,
      Running/Problems, Cancel Pending, In Doubt, Start
Failure,
      Confirmation Required, Cancelled, Failed, Skipped,
Finished, Success<
  /statusText>
  <summary />
  <sysId>f95c788b716a4f5babac4ca9503a96e1</sysId>
  <taskMonName />
  <taskNameLookup>-- None --</taskNameLookup>
  <taskNameValue />
  <timeScope>-- None --</timeScope>
  <twDelayAmount />
  <twDelayDuration>00:00:01:00</twDelayDuration>
  <twDelayType>Duration</twDelayType>
  <twWaitAmount />
  <twWaitDayConstraint />
  <twWaitDuration>00:00:00:00</twWaitDuration>
  <twWaitTime>00:00</twWaitTime>
  <twWaitType>Time</twWaitType>
  <twWorkflowOnly>-- System Default --</twWorkflowOnly>
  <typeText>Workflow, Timer, Windows, Linux/Unix, z/OS, File
Monitor,
      Manual, Email, File Transfer, SQL, FTP File
Monitor, Task Monitor,
      Stored Procedure, Universal Command, System
Monitor, Application
      Control, SAP</typeText>
  <userEstimatedDuration />
  <wfConditionType>Starts With</wfConditionType>
  <wfConditionValue>test</wfConditionValue>
</taskMonitor>

```

Timer Task

```

<taskSleep retainSysIds="true">
  <actions />
  <variables />
  <notes />
  <virtualResources />
  <cpDuration />
  <cpDurationUnit>Minutes</cpDurationUnit>
  <efDuration>00:00:00:00</efDuration>
  <efEnabled>>false</efEnabled>
  <efTime>00:00</efTime>
  <efType>Time</efType>
  <holdResources>>true</holdResources>
  <lfDuration>00:00:08:00</lfDuration>
  <lfEnabled>>true</lfEnabled>
  <lfTime>00:00</lfTime>
  <lfType>Duration</lfType>
  <lsDuration>00:00:00:00</lsDuration>
  <lsEnabled>>true</lsEnabled>
  <lsTime>03:00</lsTime>
  <lsType>Time</lsType>
  <name>Opwise - C=${C}</name>
  <opwiseGroups />
  <resPriority>10</resPriority>
  <retryIndefinitely>>false</retryIndefinitely>
  <retryInterval>60</retryInterval>
  <retryMaximum>0</retryMaximum>
  <sleepAmount>0</sleepAmount>
  <sleepDayConstraint>-- None --</sleepDayConstraint>
  <sleepDuration>00:00:00:00</sleepDuration>
  <sleepTime>00:00</sleepTime>
  <sleepType>Seconds</sleepType>
  <startHeld>>false</startHeld>
  <startHeldReason />
  <summary />
  <sysId>237d120c43d261720109f392fc0f9f69</sysId>
</taskSleep>

```

Windows Task

```

<taskWindows retainSysIds="true"
  <actions />
  <variables />
  <notes />
  <virtualResources />
  <agent />
  <agentCluster>Opswise - Demo Windows
Cluster</agentCluster>
  <agentClusterVar />
  <agentVar />
  <broadcastCluster />
  <cpDuration />
  <cpDurationUnit>Minutes</cpDurationUnit>
  <credentials />
  <credentialsVar />
  <efDuration>00:00:00:00</efDuration>
  <efEnabled>>false</efEnabled>
  <efTime>00:00</efTime>
  <efType>Time</efType>
  <holdResources>>true</holdResources>
  <lfDuration>00:00:08:00</lfDuration>
  <lfEnabled>>true</lfEnabled>
  <lfTime>00:00</lfTime>
  <lfType>Duration</lfType>
  <lsDuration>00:00:00:00</lsDuration>
  <lsEnabled>>true</lsEnabled>
  <lsTime>03:00</lsTime>
  <lsType>Time</lsType>
  <name>Opswise - Windows Monday</name>
  <opswiseGroups />
  <resPriority>10</resPriority>
  <retryExitCodes />
  <retryIndefinitely>>false</retryIndefinitely>
  <retryInterval>60</retryInterval>
  <retryMaximum>0</retryMaximum>
  <startHeld>>false</startHeld>
  <startHeldReason />
  <summary />
  <sysId>c835007fc0a802650080dabfc04d4d67</sysId>
  <twDelayAmount />
  <twDelayDuration>00:00:01:00</twDelayDuration>
  <twDelayType>Duration</twDelayType>
  <twWaitAmount />
  <twWaitDayConstraint />
  <twWaitDuration>00:00:00:00</twWaitDuration>
  <twWaitTime>00:00</twWaitTime>
  <twWaitType>Time</twWaitType>
  <twWorkflowOnly>-- System Default --</twWorkflowOnly>
  <command>${demo_ops_snooze}</command>
  <commandOrScript>Command</commandOrScript>
  <desktopInteract>>false</desktopInteract>
  <elevateUser>>false</elevateUser>
  <environment />
  <exitCodeOutput />
  <exitCodeProcessing>Success Exitcode
Range</exitCodeProcessing>
  <exitCodes>0</exitCodes>
  <exitCodeText />
  <outputReturnFile />
  <outputReturnNline>100</outputReturnNline>
  <outputReturnSline>1</outputReturnSline>
  <outputReturnText />
  <outputReturnType>NONE</outputReturnType>
  <outputType>STDOUT</outputType>
  <parameters>${_random(30,10)} 0</parameters>
  <runAsSudo>>false</runAsSudo>
  <runtimeDir />
  <script />
</taskWindows>

```

z/OS Task

```

<taskZos retainSysIds="true">
  <actions />
  <variables />
  <notes />
  <virtualResources />
  <stepConditions />
  <restartCriteria />
  <agent />
  <agentCluster />
  <agentClusterVar />
  <agentVar>agentVar</agentVar>
  <broadcastCluster />
  <cpDuration />
  <cpDurationUnit>Minutes</cpDurationUnit>
  <credentials />
  <credentialsVar />
  <efDuration>00:00:00:00</efDuration>
  <efEnabled>>false</efEnabled>
  <efTime>00:00</efTime>
  <efType>Time</efType>
  <holdResources>>true</holdResources>
  <lfDuration>00:00:08:00</lfDuration>
  <lfEnabled>>true</lfEnabled>
  <lfTime>00:00</lfTime>
  <lfType>Duration</lfType>
  <lsDuration>00:00:00:00</lsDuration>
  <lsEnabled>>true</lsEnabled>
  <lsTime>03:00</lsTime>
  <lsType>Time</lsType>
  <name>test z/OS task</name>
  <opswiseGroups />
  <resPriority>10</resPriority>
  <retryIndefinitely>>false</retryIndefinitely>
  <retryInterval>60</retryInterval>
  <retryMaximum>0</retryMaximum>
  <startHeld>>true</startHeld>
  <startHeldReason>hold reason</startHeldReason>
  <summary>desfc</summary>
  <sysId>e62dbd6b105b4ba194070ffc3f21d204</sysId>
  <twDelayAmount />
  <twDelayDuration>00:00:01:00</twDelayDuration>
  <twDelayType>Duration</twDelayType>
  <twWaitAmount />
  <twWaitDayConstraint />
  <twWaitDuration>00:00:00:00</twWaitDuration>
  <twWaitTime>00:00</twWaitTime>
  <twWaitType>Time</twWaitType>
  <twWorkflowOnly>-- System Default --</twWorkflowOnly>
  <autoRestartOption>Restart From First Job
Step</autoRestartOption>
  <deleteOverrideJcl>true</deleteOverrideJcl>
  <exitCodeOutput />
  <exitCodeProcessing>Success Output
Contains</exitCodeProcessing>
  <exitCodeText>exitCodeText</exitCodeText>
  <exitCodes>0</exitCodes>
  <jclLocation>jclLocation</jclLocation>
  <jobclassNew>jobclassNew</jobclassNew>
  <jobnameNew>jobnameNew</jobnameNew>
  <msgclasNew>MSGCLASSNAME</msgclassNew>
  <outputReturnFile />
  <outputReturnNline>100</outputReturnNline>
  <outputReturnSline>1</outputReturnSline>
  <outputReturnText />
  <outputReturnType>NONE</outputReturnType>
  <outputType>NONE</outputType>
  <overrideJclDelInstCount>1</overrideJclDelInstCount>
  <overrideJclLocation>OVERRIDEJCLLOC</overrideJclLocation>
  <overrideRunCount>0</overrideRunCount>
  <parameters>
    <parameter>
      <name>TEST</name>
      <value>val</value>
    </parameter>
  </parameters>
  <proclibName />
  <scheduleId>123</scheduleId>

```

```
<useOverrideLib>true</useOverrideLib>
</taskZos>
```

Example Responses for Task Actions

Abort

```
<abortAction>
  <description />
  <notifyOnEarlyFinish>>false</notifyOnEarlyFinish>
  <notifyOnLateFinish>>false</notifyOnLateFinish>
  <notifyOnLateStart>>false</notifyOnLateStart>
  <status>Waiting</status>
  <sysId>ad42c3268468425db6e1580cd53f57f0</sysId>
  <cancelProcess>>false</cancelProcess>
  <overrideExitCode />
</abortAction>
```

Email Notification

```
<emailNotification>
  <description />
  <notifyOnEarlyFinish>>false</notifyOnEarlyFinish>
  <notifyOnLateFinish>>false</notifyOnLateFinish>
  <notifyOnLateStart>>false</notifyOnLateStart>
  <status>Success</status>
  <sysId>2b72cdaaf3a145e4bbae5a7ddd24baff</sysId>
  <attachFile>>false</attachFile>
  <attachJobLog>>false</attachJobLog>
  <attachStdError>>false</attachStdError>
  <attachStdOut>>true</attachStdOut>
  <bcc />
  <body>test body</body>
  <cc />
  Account<emailConnection>Opswise - Gmail
  <emailTemplate />
  <fileName />
  <fileNumLines>100</fileNumLines>
  <fileScanText />
  <fileStartLine>1</fileStartLine>
  <joblogNumLines>100</joblogNumLines>
  <joblogScanText />
  <joblogStartLine>1</joblogStartLine>
  <replyTo>replyTo@test.com</replyTo>
  <report>
    <groupName />
    <title>report1</title>
    <userName>ops.admin</userName>
  </report>
  <stderrNumLines>100</stderrNumLines>
  <stderrScanText />
  <stderrStartLine>1</stderrStartLine>
  <stdoutNumLines>100</stdoutNumLines>
  <stdoutScanText />
  <stdoutStartLine>1</stdoutStartLine>
  <subject />
  <to>test@test.com</to>
</emailNotification>
```

Set Variable

```

<setVariableAction>
  <description />
  <notifyOnEarlyFinish>>false</notifyOnEarlyFinish>
  <notifyOnLateFinish>>false</notifyOnLateFinish>
  <notifyOnLateStart>>false</notifyOnLateStart>
  <status>Waiting</status>
  <sysId>f7824e38add745c2bf41017b07697bdf</sysId>
  <variableName>name</variableName>
  <variableScope>SELF</variableScope>
  <variableValue />
</setVariableAction>
</actions>

```

SNMP Notification

```

<snmpNotification>
  <description />
  <notifyOnEarlyFinish>>false</notifyOnEarlyFinish>
  <notifyOnLateFinish>>false</notifyOnLateFinish>
  <notifyOnLateStart>>false</notifyOnLateStart>
  <status>Resource Requested</status>
  <sysId>1a1ddf2fa7f7466db8b5fc7863fc4ea3</sysId>
  <severity>Normal</severity>
  <snmpManager>test manager</snmpManager>
</snmpNotification>

```

System Operation

```

<systemOperation>
  <description />
  <notifyOnEarlyFinish>>false</notifyOnEarlyFinish>
  <notifyOnLateFinish>>false</notifyOnLateFinish>
  <notifyOnLateStart>>false</notifyOnLateStart>
  <status>Held</status>
  <sysId>742beaf652834054b1edc37e6423700d</sysId>
  <agent />
  <agentCluster />
  <agentClusterVar />
  <agentVar />
  <execCommand>Cancel</execCommand>
  <execCriteria>Oldest Active Instance</execCriteria>
  <execId />
  <execLookupOption>Task</execLookupOption>
  <execName />
  <execWorkflowName />
  <limit />
  <notificationOption>Operation
Failure</notificationOption>
  <operation>Task Instance Command</operation>
  <task>Opwise - B=${B}</task>
  <taskLimitType>Unlimited</taskLimitType>
  <taskVar />
  <virtualResource />
  <virtualResourceVar />
</systemOperation>

```

Example Responses for Task-Related Records

Mutually Exclusive Tasks

```

<exclusiveTasks>
  <exclusiveTask>
    <sysId>5d2c0886b69745aa916a755602alb77f</sysId>
    <task>Sleep 0</task>
    <type>Direct</type>
  </exclusiveTask>
  <exclusiveTask>
    <sysId>c1342b7597f9492e927ce24c5126f9d4</sysId>
    <task>Sleep 30</task>
    <type>Direct</type>
  </exclusiveTask>
</exclusiveTasks>

```

Notes

```

<notes>
  <note>
    <sysId>8122cc80fbbdb4e12b2c7118c172038fc</sysId>
    <text>note2 text</text>
    <title>note2</title>
  </note>
  <note>
    <sysId>eb95737f44664bd3bd4002690e00d715</sysId>
    <text>note1 text</text>
    <title>note1</title>
  </note>
</notes>

```

Restart Criteria: z/OS Tasks only

```

<restartCriteria>
  <restartCriterion>
    <directives>
      <directive>
        <type>Start</type>
        <procedure>TESTPROC</procedure>
        <step>[1]</step>
      </directive>
    </directives>
    <evaluationOrder>1</evaluationOrder>
    <programName>TESTPROG</programName>
    <pstepName>TESTPROC</pstepName>
    <restartOption>Restart From
Directives</restartOption>
    <stepCodes>1,6</stepCodes>
    <stepName>2</stepName>
    <sysId>55aa0e75040940569c82111c0d6c7836</sysId>
  </restartCriterion>
</restartCriteria>

```

Step Conditions: z/OS Tasks only; set only if exitCodeProcessing = Step Conditions


```

<stepConditions>
  <stepCondition>
    <programName>STEPPROG</programName>
    <pstepName>STEPPROC</pstepName>
    <stepAction>Continue/Failed</stepAction>
    <stepCodes>1</stepCodes>
    <stepName>1</stepName>
    <stepOrder>0</stepOrder>
    <sysId>6e1c7804cf124622b22b80b5f7128569</sysId>
  </stepCondition>
</stepConditions>

```

sysId will be inserted only if task attribute **retainSysIds** is set to true and **sysId** is not null.

Variables

```

<variables>
  <variable>
    <description>description</description>
    <name>var1</name>
    <sysId>76af48c246954c128ef90da254044618</sysId>
    <value>value1</value>
  </variable>
  <variable>
    <description />
    <name>var2</name>
    <sysId>899912878e4b4a36848269dc8a75dc1c</sysId>
    <value>value2</value>
  </variable>
</variables>

```

Virtual Resources

```

<virtualResources>
  <virtualResource>
    <amount>1</amount>
    <resource>Opwise - Solo</resource>
    <sysId>4f5bb3fda5874dac8bb1897382d1317d</sysId>
  </virtualResource>
</virtualResources>

```

Task Properties

- Task Properties - All Tasks
- Task Properties - File Monitor Task
- Task Properties - FTP File Monitor Task
- Task Properties - Linux/Unix Task
- Task Properties - Manual Task
- Task Properties - System Monitor Task
- Task Properties - Task Monitor Task
- Task Properties - Timer Task
- Task Properties - Windows Task
- Task Properties - z/OS Task

Task Action Properties

- Abort Action
- Email Notification Action
- Set Variable Action
- SNMP Notification Action
- System Operation Action

Task-Related Records Properties

- Mutually Exclusive Tasks
- Notes
- Restart Criteria - z/OS Tasks only
- Step Conditions - z/OS Tasks only
- Variables
- Virtual Resources

Tasks in Workflow Web Services

- [Overview](#)
- [Insert a Task into a Workflow with Dependencies](#)
- [List Predecessors / Successors of a Task Instance in a Workflow](#)

Overview


Universal Controller supports the following RESTful-based web services for Tasks in Workflow operations, which are listed alphabetically on this page.

- [Insert a Task into a Workflow with Dependencies](#)
- [List Predecessors / Successors of a Task Instance in a Workflow](#)

Formatting specifications for each web service, including details about parameter requirements, are provided.


Insert a Task into a Workflow with Dependencies

	Description
URI	http://host_name/opswise/resources/task/ops-task-insert
HTTP Method	POST
Description	Insert a task into a Workflow with dependencies.
Authentication	HTTP Basic
Example URI	http://localhost:8080/opswise/resources/task/ops-task-insert
Consumes Content-Type	application/xml
Produces Content-Type	application/xml
XML Request Example	<pre style="border: 1px solid #0070C0; padding: 10px;"> <task-insert> <name>Sleep 30</name> <alias>Test</alias> <workflowInstanceId>ac2cfdd14c8c4238a4a6ecd03db41e87</workflowInstanceId> <predecessors> <predecessor>Sleep 30</predecessor> </predecessors> <successors> <successor>Sleep 60</successor> </successors> <vertexX>25</vertexX> <vertexY>25</vertexY> </task-insert> </pre>
XML Response Example	<pre style="border: 1px solid #0070C0; padding: 10px;"> <command-response> <type>create_task</type> <success>>true</success> <info>Command Insert Task executed successfully against task instance "test workflow".</info> <errors /> </command-response> </pre>
Required Parameters	<ul style="list-style-type: none"> • workflowInstanceId or workflowInstanceName • taskId or taskName

Optional Parameters	<ul style="list-style-type: none"> • alias • workflowInstanceCriteria (if search is by workflowInstanceName) • predecessors • successors • vertexX (default is 0) • vertexY (default is 0)
Mutually Exclusive Parameters	<ul style="list-style-type: none"> • workflowInstanceId and workflowInstanceName • taskId and taskName
Valid workflowInstanceCriteria Values	<p>(Not case-sensitive): oldest active instance, oldest instance, newest active instance, newest instance.</p> <p>If workflowInstanceCriteria is not provided, it defaults to oldest active instance.</p> <div style="background-color: #ffffcc; padding: 5px; margin-top: 10px;"> <p> Note workflowInstanceCriteria values with an underscore characters (_) instead of spaces also are supported (for example, oldest_active_instance).</p> </div>
Valid predecessors / successors Values	<ul style="list-style-type: none"> • If both predecessors and successors lists are empty, task will be inserted without dependencies. • If there is a task name in one of the lists that does not exist, the operation will fail with error Cannot find vertex with the name ... • If a list contains the task name with multiple occurrences in the workflow, the operation will fail with error Multiple vertices found for the name... (For example, the workflow contains two tasks (Sleep 30, Sleep 30) and you are trying to insert Task ABC with predecessors = Sleep 30).

List Predecessors / Successors of a Task Instance in a Workflow

	Description
URI	http://host_name/opswise/resources/task/dependency/list
HTTP Method	GET
Description	Returns the list of task instance dependencies.
Request Parameters	<ul style="list-style-type: none"> • taskinstanceid • taskinstancename • workflowinstancename • criteria • dependencytype
Required Parameters	taskinstanceid or taskinstancename
Mutually Exclusive Parameters	taskinstanceid and taskinstancename
Optional Parameters	dependencytype; Valid values: successors, predecessors <ul style="list-style-type: none"> • If search is by taskinstancename, workflowinstancename and criteria are optional.
Example URI	<ul style="list-style-type: none"> • To list all dependencies for the task instance id: http://localhost:8080/opswise/resources/task/dependency/list?taskinstanceid=431191ad05e6483c8cfa71380947268c • To list all successors for the task instance name X: http://localhost:8080/opswise/resources/task/dependency/list?taskinstancename=X&dependencytype=successors • To list all predecessors for the oldest task instance named X in workflow Y: http://localhost:8080/opswise/resources/task/dependency/list?taskinstancename=X&workflowinstancename=Y&criteria=

Authentication	HTTP Basic
Produces Content-Type	application/xml
XML Response Example	<pre data-bbox="334 275 1495 737"> <task-dependencies> <task-dependency> <name> Opwise - Sleep 20 </name> <type> Predecessor </type> </task-dependency> <task-dependency> <name> Opwise - Sleep 30 </name> <type> Successor </type> </task-dependency> </task-dependencies> </pre>
Valid criteria values	<p data-bbox="293 783 1299 808">(Not case sensitive): oldest active instance, oldest instance, newest active instance, newest instance</p> <p data-bbox="293 831 915 856">If criteria is not provided, it defaults to oldest active instance.</p> <div data-bbox="334 900 1495 1005" style="background-color: #ffffcc; padding: 5px;"> <p data-bbox="347 928 1495 982">  Note criteria values with an underscore characters (_) instead of spaces also are supported (for example, oldest_ac </p> </div>

Trigger Web Services

- [Overview](#)
- [Create a Trigger](#)
- [Create a Trigger \(Temporary\) - Deprecated](#)
- [Delete a Trigger](#)
- [Enable/Disable a Trigger](#)
- [Modify a Trigger](#)
- [Modify Time of Time Trigger](#)
- [Query a List of Triggers](#)
- [Read a Trigger](#)
- [Trigger a Task](#)

Overview

Universal Controller supports the following RESTful-based web services for Trigger operations, which are listed alphabetically on this page.

- [Create a Trigger](#)
- [Create a Trigger \(Temporary\) - Deprecated](#)
- [Delete a Trigger](#)
- [Enable/Disable a Trigger](#)
- [Modify a Trigger](#)
- [Modify Time of Time Trigger](#)
- [Query a List of Triggers](#)
- [Read a Trigger](#)
- [Trigger a Task](#)

Formatting specifications for each web service, including details about parameter requirements, are provided.

Create a Trigger

You can use the Create a Trigger web service to create the following types of triggers:

- Cron
- File Monitor
- Temporary
- Time

	Description
URI	http://host_name/opswise/resources/trigger
HTTP Method	POST
Description	Creates a new trigger.
Example URI	http://localhost:8080/opswise/resources/trigger
Examples	See Create a Trigger Examples
Example XML Request	In the Read a Trigger web service, see: <ul style="list-style-type: none"> • Example Responses for Triggers <ul style="list-style-type: none"> • Cron Trigger • File Monitor Trigger • Temporary Trigger • Time Trigger • Example Responses for Trigger-Related Records <ul style="list-style-type: none"> • Variables

Trigger Properties	<ul style="list-style-type: none"> • Trigger Properties - All Triggers • Trigger Properties - Cron Trigger • Trigger Properties - File Monitor Trigger • Trigger Properties - Temporary Trigger • Trigger Properties - Time Trigger
Trigger-Related Records Properties	<ul style="list-style-type: none"> • Variables
Example Response	<ul style="list-style-type: none"> • Status 200 /OK Successfully created the <trigger type> trigger.

Create a Trigger Examples

Cron Trigger (Detailed Example)	<pre><triggerCron retainSysIds="true"> See Trigger Properties - All Triggers. See Trigger Properties - Cron Trigger. See Trigger-Related Records Properties. </triggerCron></pre>
File Monitor Trigger (Detailed Example)	<pre><triggerFm retainSysIds="true"> See Trigger Properties - All Triggers. See Trigger Properties - File Monitor Trigger. See Trigger-Related Records Properties. </triggerFm></pre>
Temporary Trigger (Detailed Example)	<pre><triggerTemp retainSysIds="true"> See Trigger Properties - All Triggers. See Trigger Properties - Temporary Trigger. See Trigger-Related Records Properties. </triggerTemp></pre>
Time Trigger (Detailed Example)	<pre><triggerTime retainSysIds="true"> See Trigger Properties - All Triggers. See Trigger Properties - Time Trigger. See Trigger-Related Records Properties. </triggerTime></pre>

Trigger Properties - All Triggers

Attribute **retainSyslds** specifies whether or not the Create a Task web service should persist the **sysld** property. Optional; Valid values: true/false (default is true).

For a description of a property, click the Property name.

Property	Specifications
action	<p>Set only if restriction is true. Valid values:</p> <ul style="list-style-type: none"> • As String = Do Not Trigger, As Value = 1 • As String = Next Day, As Value = 2 • As String = Next Business Day, As Value = 3 • As String = Previous Day, As Value = 4 • As String = Previous Business Day, As Value = 5 <p>Default is Do Not Trigger (1).</p>
calendar	Default is System Default.
description	
forecast	<p>Boolean; Valid values: true/false.</p> <p>Default is false.</p>
name	
opwiseGroups	<p>List of Business Services:</p> <pre style="border: 1px solid #ccc; padding: 10px; margin: 10px 0;"> <opwiseGroups> <opwiseGroup>test</opwiseGroup> </opwiseGroups> </pre>
restriction	<p>Boolean; Valid values: true/false.</p> <p>Default is false.</p>
restrictionAdjective	<p>Valid values:</p> <ul style="list-style-type: none"> • As String = Every, As Value = 0 • As String = 1st, As Value = 1 • As String = 2nd, As Value = 2 • As String = 3rd, As Value = 3 • As String = 4th, As Value = 4 • As String = Last, As Value = 5 • As String = Nth, As Value = 6 <p>Default is Every (0).</p>
restrictionComplex	<p>Boolean; Valid values: true/false. Set only if restriction is true.</p> <p>Default is false.</p>
restrictionMode	<p>Set only if restrictionSimple is true. Valid values:</p> <ul style="list-style-type: none"> • As String = And, As Value = 1 • As String = Or, As Value = 2 <p>Default is Or (2).</p>

restrictionNoun	<p>One of the defaults or the custom day.</p> <ul style="list-style-type: none"> • As String = Sunday, As Value = 1 • As String = Monday, As Value = 2 • As String = Tuesday, As Value = 3 • As String = Wednesday, As Value = 4 • As String = Thursday, As Value = 5 • As String = Friday, As Value = 6 • As String = Saturday, As Value = 7 • As String = Day, As Value = 8 • As String = Business Day, As Value = 9
restrictionQualifier	<p>One of the defaults or the custom period.</p> <ul style="list-style-type: none"> • As String = Jan, As Value = 0 • As String = Feb, As Value = 1 • As String = Mar, As Value = 2 • As String = Apr, As Value = 3 • As String = May, As Value = 4 • As String = Jun, As Value = 5 • As String = Jul, As Value = 6 • As String = Aug, As Value = 7 • As String = Sep, As Value = 8 • As String = Oct, As Value = 9 • As String = Nov, As Value = 10 • As String = Dec, As Value = 11 • As String = Month, As Value = 12 • As String = Year, As Value = 13
restrictionSimple	<p>Boolean; Valid values: true/false. Set only if restriction is true.</p> <p>Default is false.</p>
simulationOption	<p>Valid values:</p> <ul style="list-style-type: none"> • --System Default --, As Value = 0 • As String = True, As Value = 1 • As String = False, As Value = 2 <p>Default is --System Default – (0).</p>
situation	<p>Set only if restrictionSimple is true. Valid values:</p> <ul style="list-style-type: none"> • As String = Holiday, As Value = 1 • As String = Non Business Day, As Value = 2 <p>Default is Holiday (1).</p>
skipActive	<p>Boolean; Valid values: true/false.</p> <p>Default is false.</p>
skipCount	<p>Integer</p> <p>Default is 0.</p>
sysId	
tasks	<p>List of task names:</p> <pre style="border: 1px solid #ccc; padding: 10px; margin: 10px 0;"> <tasks> <task>Opwise - Demo</task> </tasks></pre>
timeZone	<p>Time zone name</p>

Trigger Properties - Cron Trigger

For a description of a property, click the Property name.

Property	Description
dayOfMonth	Valid values: 1-31. Default is *.
dayOfWeek	Valid values: 0-7. Default is *.
hours	Valid values: 0-23. Default is *.
minutes	Valid values: 0-59. Default is 0.
month	Valid values: 1-12. Default is *.

Trigger Properties - File Monitor Trigger

For a description of a property, click the Property name.

Property	Description
enabledEnd	Set only if restrictedTimes is true. Format: hh:mm
enabledStart	Set only if restrictedTimes is true. Format: hh:mm
restrictedTimes	Boolean; Valid values: true/false Default is false.
taskMonitor	File Monitor name

Trigger Properties - Temporary Trigger

For a description of a property, click the Property name.

Property	Description
tdate	Required. Format: yyyy-mm-dd
ttime	Required. Format: hh:mm

Trigger Properties - Time Trigger

For a description of a property, click the Property name.

Property	Description
adjustmentAmount	Set only if dayStyle = Complex; Integer.
adjustmentType	Set only if dayStyle = Complex. Valid values: <ul style="list-style-type: none"> • As String = Day, As Value = 1 • As String = Business Day, As Value = 2 Default is Day (1).
businessDays	Set only if dayStyle = Simple; Boolean; Valid values: true/false. Default is false.
custom	Set only if dayStyle = Simple; Boolean; Valid values: true/false. Default is false.

daily	<p>Set only if dayStyle = Simple; Boolean; Valid values: true/false.</p> <p>Default is false.</p>
dateAdjective	<p>Set only if dayStyle = Complex. Valid values:</p> <ul style="list-style-type: none"> • As String = Every, As Value = 0 • As String = 1st, As Value = 1 • As String = 2nd, As Value = 2 • As String = 3rd, As Value = 3 • As String = 4th, As Value = 4 • As String = Last, As Value = 5 • As String = Nth, As Value = 6 <p>Default is Every (0).</p>
dateAdjustment	<p>Set only if dayStyle = Complex. Valid values:</p> <ul style="list-style-type: none"> • As String = None, As Value = 0 • As String = Less, As Value = 1 • As String = Plus, As Value = 2 <p>Default is None (0).</p>
dateNoun	<p>Set only if dayStyle = Complex. One of the defaults or the custom day.</p> <ul style="list-style-type: none"> • As String = Sunday, As Value = 1 • As String = Monday, As Value = 2 • As String = Tuesday, As Value = 3 • As String = Wednesday, As Value = 4 • As String = Thursday, As Value = 5 • As String = Friday, As Value = 6 • As String = Saturday, As Value = 7 • As String = Day, As Value = 8 • As String = Business Day, As Value = 9
dateQualifier	<p>Set only if dayStyle = Complex. One of the defaults or the custom period.</p> <ul style="list-style-type: none"> • As String = Jan, As Value = 0 • As String = Feb, As Value = 1 • As String = Mar, As Value = 2 • As String = Apr, As Value = 3 • As String = May, As Value = 4 • As String = Jun, As Value = 5 • As String = Jul, As Value = 6 • As String = Aug, As Value = 7 • As String = Sep, As Value = 8 • As String = Oct, As Value = 9 • As String = Nov, As Value = 10 • As String = Dec, As Value = 11 • As String = Month, As Value = 12 • As String = Year, As Value = 13
dayInterval	<p>Set only if dayStyle = Every; Integer.</p>
dayStyle	<p>Valid values:</p> <ul style="list-style-type: none"> • As String = Simple, As Value = 1 • As String = Complex, As Value = 2 • As String = Every, As Value = 3 <p>Default is Simple (1).</p>
enabledEnd	<p>Set only if restrictedTimes is true. Format: hh:mm</p>
enabledStart	<p>Set only if restrictedTimes is true. Format: hh:mm</p>

fri	Set only if dayStyle is Simple. Boolean; Valid values: true/false. Default is false.
intervalStartingDate	Set only if dayStyle = Every. Format: yyyy-mm-dd
mon	Set only if dayStyle is Simple. Boolean; Valid values: true/false. Default is false.
nthAmount	Set only if dateAdjective = Nth; Integer.
restrictedTimes	Boolean; Valid values: true/false.
sat	Set only if dayStyle is Simple. Boolean; Valid values: true/false. Default is false.
simpleDateType	Set only if dayStyle = Simple. Valid values: <ul style="list-style-type: none"> • As String = Daily, As Value = 1 • As String = Business Days, As Value = 2 • As String = Specific Days, As Value = 3 Default is Daily (1).
startingAt	Set only if timeStyle = Interval.
startTimeEnable	Set only if timeStyle = Interval; Boolean; Valid values: true/false Default is false.
sun	Set only if dayStyle is Simple. Boolean; Valid values: true/false. Default is false.
thu	Set only if dayStyle is Simple. Boolean; Valid values: true/false. Default is false.
time	Set only if timeStyle = Absolute. Format: hh:mm
timeInterval	Set only if timeStyle = Interval; Integer
timeIntervalUnits	Set only if timeStyle = Interval. Valid values: <ul style="list-style-type: none"> • As String = Seconds, As Value = 1 • As String = Minutes, As Value = 2 • As String = Hours, As Value = 3 Default is Hours (3).
timeStyle	Valid values: <ul style="list-style-type: none"> • As String = Absolute, As Value = 1 • As String = Interval, As Value = 2 Default is Absolute (1).
tue	Set only if dayStyle is Simple. Boolean; Valid values: true/false. Default is false.
wed	Set only if dayStyle is Simple. Boolean; Valid values: true/false. Default is false.

Trigger-Related Records Properties

retainSysIds valid values: true/false, optional; defaults to true.

For a description of a property, click the Property name.

Property	Specifications
Variables	
description	
name	
value	

Create a Trigger (Temporary) - Deprecated



Deprecated

Replaced by Create a Trigger (File Monitor, Temporary, Time).

	Description
URI	http://host_name/opswise/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>

Delete a Trigger

	Description
URI	http://_host_name_/opswise/resources/trigger
HTTP Method	DELETE
Description	Deletes the specified trigger .
Request Parameters	triggerid or triggername
Mutually Exclusive Parameters	triggerid and triggername
Authentication	HTTP Basic
Example URI	<ul style="list-style-type: none"> • http://localhost:8080/opswise/resources/trigger?triggername=testTrigger • http://localhost:8080/opswise/resources/trigger?triggerid=d26265a2c4f345359d9b356f18a462c1
Example Response	<ul style="list-style-type: none"> • Status 200 /OK Trigger deleted successfully. • Status 404 /Not Found A trigger with id "f87848b00a0001037f43e7c81c8ec969" does not exist.

Enable/Disable a Trigger

	Description
URI	http://host_name/opswise/resources/trigger/ops-enable-disable-trigger
HTTP Method	POST
Description	Enables/Disables a list of triggers.
Example URI	http://localhost:8080/opswise/resources/trigger/ops-enable-disable-trigger
Authentication	HTTP Basic
Consumes Content-Type	application/xml
Produces Content-Type	application/xml
Example XML Request	<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>
Example XML Response	<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>

Modify a Trigger

You can use the Modify a Trigger web service to modify the following types of triggers:

- Cron
- File Monitor

- Temporary
- Time

	Description
URI	http://host_name/opswise/resources/trigger
HTTP Method	PUT
Description	Modifies the trigger specified by the sysId (see Example Responses for Triggers).
Example URI	http://localhost:8080/opswise/resources/trigger
Attributes	retainSysIds is ignored.
Example XML Request	In the Read a Trigger web service, see: <ul style="list-style-type: none"> • Example Responses for Triggers <ul style="list-style-type: none"> • Cron Trigger • File Monitor Trigger • Temporary Trigger • Time Trigger • Example Responses for Trigger-Related Records <ul style="list-style-type: none"> • Variables
Trigger Properties	<ul style="list-style-type: none"> • Trigger Properties - All Triggers • Trigger Properties - Cron Trigger • Trigger Properties - File Monitor Trigger • Trigger Properties - Temporary Trigger • Trigger Properties - Time Trigger
Trigger-Related Record Properties	<ul style="list-style-type: none"> • Variables
Example Response	<ul style="list-style-type: none"> • Status 200 /OK Successfully updated the <trigger type> trigger.

Modify Time of Time Trigger

	Description
URI	http://host_name/opswise/resources/trigger/ops-trigger-set-time
HTTP Method	POST
Description	Modifies the Time field of a Time Trigger with the Time Style field set to time .
Example URI	http://localhost:8080/opswise/resources/trigger/ops-trigger-set-time
Authentication	HTTP Basic
Consumes Content-Type	application/xml
Produces Content-Type	application/xml

<p>Example XML Request</p>	<pre> <trigger> <id>410d6c0bc0a801c901838d8ac43b3279</id> <time>21:00</time> </trigger> or <trigger> <name>Test Trigger</name> <time>21:00</time> </trigger> </pre>
<p>Example XML Response</p>	<pre> <command-response> <type>set_trigger_time</type> <success>>true</success> <info>Successfully set time for trigger "Test Trigger"</info> <errors /> </command-response> </pre>

Query a List of Triggers

	Description
<p>URI</p>	<p>http://host_name/opswise/resources/trigger/list</p>
<p>HTTP Method</p>	<p>POST</p>
<p>Description</p>	<p>Returns <i>triggers</i> associated with the specified search criteria..</p>
<p>Example URI</p>	<p>http://localhost:8080/opswise/resources/trigger/list</p>
<p>Authentication</p>	<p>HTTP Basic</p>
<p>Consumes Content-Type</p>	<p>application/xml</p>
<p>Produces Content-Type</p>	<p>application/xml</p>
<p>Example XML Request</p>	<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>
<p>Example XML Response</p>	<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>

Read a Trigger

You can use the Read a Trigger web service to read the following types of triggers:

- Cron
- File Monitor
- Temporary
- Time

	Description
URI	<i>host_name</i> /opswise/resources/trigger
HTTP Method	GET
Description	Retrieves information for the specified trigger
Request Parameters	triggerid or triggername
Mutually Exclusive Parameters	triggerid and triggername
Example URI	<ul style="list-style-type: none"> • http://localhost:8080/opswise/resources/trigger?triggername=testTrigger • http://localhost:8080/opswise/resources/trigger?triggerid=d26265a2c4f345359d9b356f18a462c1
Example Response	<ul style="list-style-type: none"> • Status 200 /OK (See Example XML Responses, below.) • Status 404 /Not Found A trigger with id "f87848b00a0001037f43e7c81c8ec969" does not exist.
Example XML Responses for Triggers	<p>Cron Trigger</p> <pre> <triggerCron retainSysIds="true"> <variables /> <action>Do Not Trigger</action> <calendar>System Default</calendar> <dayOfMonth>*</dayOfMonth> <dayOfWeek>Mon-Fri</dayOfWeek> <description /> <forecast>>false</forecast> <hours>9-17</hours> <minutes>0</minutes> <month>*</month> <name>Test- Every hour from Mon-Fri between 9am and 5pm</name> <opswiseGroups /> <restriction>>false</restriction> <restrictionAdjective>Every</restrictionAdjective> <restrictionComplex>>false</restrictionComplex> <restrictionMode>Or</restrictionMode> <restrictionNoun>Day</restrictionNoun> <restrictionQualifier>Year</restrictionQualifier> <restrictionSimple>>false</restrictionSimple> <simulationOption>-- System Default --</simulationOption> <situation>Holiday</situation> <skipActive>>false</skipActive> <skipCount>0</skipCount> <sysId>0fc6b7d9c0a801c9017b6c27c259937e</sysId> <tasks> <task>Sleep 30</task> </tasks> <timeZone/> </triggerCron> </pre> <p>File Monitor Trigger</p>

```

<triggerFm retainSysIds="true">
  <variables />
  <action>Do Not Trigger</action>
  <calendar>System Default</calendar>
  <description>Test File Monitor in Trigger and in
Workflow</description>
  <enabledEnd>00:00</enabledEnd>
  <enabledStart>05:00</enabledStart>
  <forecast>>false</forecast>
  <name>Opswise - File Creation Trigger</name>
  <opwiseGroups />
  <restrictedTimes>>true</restrictedTimes>
  <restriction>>false</restriction>
  <restrictionAdjective>Every</restrictionAdjective>
  <restrictionComplex>>false</restrictionComplex>
  <restrictionMode>Or</restrictionMode>
  <restrictionNoun>Day</restrictionNoun>
  <restrictionQualifier>Year</restrictionQualifier>
  <restrictionSimple>>false</restrictionSimple>
  <simulationOption>-- System Default --</simulationOption>
  <situation>Holiday</situation>
  <skipActive>>false</skipActive>
  <skipCount>0</skipCount>
  <sysId>0fc6b7d9c0a801c9017b6c27c259937e</sysId>
  <taskMonitor>Opswise - Windows Text File Create
Check</taskMonitor>
  <tasks>
    <task>Opswise - Demo</task>
  </tasks>
  <timeZone />
</triggerFm>

```

Temporary Trigger

```

<triggerTemp retainSysIds="true">
  <variables />
  <action>Do Not Trigger</action>
  <calendar>System Default</calendar>
  <description>Run task once in the future</description>
  <forecast>>false</forecast>
  <name>Opswise - Future Task</name>
  <opwiseGroups />
  <restriction>>false</restriction>
  <restrictionAdjective>Every</restrictionAdjective>
  <restrictionComplex>>false</restrictionComplex>
  <restrictionMode>Or</restrictionMode>
  <restrictionNoun>Day</restrictionNoun>
  <restrictionQualifier>Year</restrictionQualifier>
  <restrictionSimple>>false</restrictionSimple>
  <simulationOption>-- System Default --</simulationOption>
  <situation>Holiday</situation>
  <skipActive>>false</skipActive>
  <skipCount>0</skipCount>
  <sysId>0fc6b7d9c0a801c9017b6c27c259937e</sysId>
  <tasks>
    <task>Opswise - Demo</task>
  </tasks>
  <tdate>2015-10-13</tdate>
  <timeZone />
  <ttime>09:15</ttime>
</triggerTemp>

```

Time Trigger

```

<triggerTime retainSysIds="true">
  <variables />
  <action>Do Not Trigger</action>
  <adjustmentAmount>1</adjustmentAmount>
  <adjustmentType>Day</adjustmentType>
  <businessDays>>false</businessDays>
  <calendar>test calendar</calendar>
  <custom>>false</custom>
  <daily>>false</daily>
  <dateAdjective>Every</dateAdjective>
  <dateAdjustment>None</dateAdjustment>
  <dateNoun>Saturday1</dateNoun>
  <dateQualifier>Year</dateQualifier>
  <dayInterval>2</dayInterval>
  <dayStyle>Complex</dayStyle>
  <description />
  <enabledEnd>00:00</enabledEnd>
  <enabledStart>00:00</enabledStart>
  <forecast>>false</forecast>
  <fri>>false</fri>
  <intervalStartingDate>2015-06-17</intervalStartingDate>
  <mon>>false</mon>
  <name>test special day</name>
  <nthAmount>5</nthAmount>
  <opswiseGroups />
  <restrictedTimes>>true</restrictedTimes>
  <restriction>>false</restriction>
  <restrictionAdjective>Every</restrictionAdjective>
  <restrictionComplex>>false</restrictionComplex>
  <restrictionMode>Or</restrictionMode>
  <restrictionNoun>Day</restrictionNoun>
  <restrictionQualifier>Year</restrictionQualifier>
  <restrictionSimple>>false</restrictionSimple>
  <sat>>false</sat>
  <simpleDateType>Daily</simpleDateType>
  <simulationOption>-- System Default --</simulationOption>
  <situation>Holiday</situation>
  <skipActive>>false</skipActive>
  <skipCount>0</skipCount>
  <startTimeEnable>>false</startTimeEnable>
  <startingAt>*:00</startingAt>
  <sun>>false</sun>
  <sysId>0fc6b7d9c0a801c9017b6c27c259937e</sysId>
  <tasks>
    <task>Sleep 30</task>
  </tasks>
  <thu>>false</thu>
  <time>00:00</time>
  <timeInterval />
  <timeIntervalUnits>HOURS</timeIntervalUnits>
  <timeStyle>Absolute</timeStyle>
  <timeZone />
  <tue>>false</tue>
  <wed>>false</wed>
</triggerTime>

```

Example Responses for Trigger-Related Records

Variables

```

<variables>
  <variable>
    <description />
    <name>testVar</name>
    <value>value</value>
  </variable>
</variables>

```

Trigger Properties	<ul style="list-style-type: none"> • Trigger Properties - All Triggers • Trigger Properties - Cron Trigger • Trigger Properties - File Monitor Trigger • Trigger Properties - Temporary Trigger • Trigger Properties - Time Trigger
Trigger-Related Record Properties	<ul style="list-style-type: none"> • Variables

Trigger a Task

	Description
URI	http://host_name/opswise/resources/trigger/ops-trigger-now
HTTP Method	POST
Description	Launches trigger-associated tasks.
Example URI	http://localhost:8080/opswise/resources/trigger/ops-trigger-now
Authentication	HTTP Basic
Consumes Content-Type	application/xml
Produces Content-Type	application/xml
Example XML Request	<pre> <trigger-now> <name>Opwise - Every 15 Minutes MWF 9-5</name> <hold>yes</hold> <virtualResourcePriority>10</virtualResourcePriority> <virtual-resources> <virtual-resource> <name>Opwise - Solo</name> <limit>2</limit> </virtual-resource> </virtual-resources> <variables> <variable> <name>testVariable</name> <value>Hello</value> </variable> </variables> </trigger-now> </pre>
Example XML Response	<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>

Optional
Parameters

- `hold`; Valid values = Yes,Y,true
- `variables`
- `virtualResourcePriority`; Valid values are any integer between 1 and 20.
- `virtual-resources`

The virtual resource dependencies specified in `virtual-resources` are merged with the default virtual resource dependencies.

- If a default virtual resource dependency already exists for a specified virtual resource amount, the virtual resource dependency is updated.
- Any virtual resource specified with an amount of **0** is dropped from the default virtual resource dependencies; if the virtual resource did not exist as a default dependency, the command will fail.
- If a default virtual resource dependency does not already exist for a specified virtual resource amount, the virtual resource dependency is added.

Variable Web Services

- [Overview](#)
- [List Variables](#)
- [Set Variables](#)

Overview

Universal Controller supports the following RESTful-based web services for Variable operations, which are listed alphabetically on this page.

- [List Variables](#)
- [Set Variables](#)

Formatting specifications for each web service, including details about parameter requirements, are provided.

List Variables

	Description
URI	http://host_name/opswise/resources/variable/list
HTTP Method	POST
Description	Returns variables associated with the specified query filter.
Example URI	http://localhost:8080/opswise/resources/variable/list
Authentication	HTTP Basic
Consumes Content-Type	application/xml
Produces Content-Type	application/xml

Example XML Request

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>
```

<p>Example XML Response</p>	<p>type is either GLOBAL, Task, or Trigger.</p> <div style="border: 1px solid black; padding: 10px; margin: 10px 0;"> <pre> Example 1 <variables> <variable> <description></description> <name>demo_ops_download_dir</name> <sysId>db5c436ac0a8016501f1ab660b585961</sysId> <type>Global</type> <value>/home/opswise/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> </div>
-----------------------------	--

Set Variables

	Description
URI	http://host_name/opswise/resources/variable/ops-variable-set
HTTP Method	POST
Description	Sets the specified variable.
Example URI	http://localhost:8080/opswise/resources/variable/ops-variable-set
Authentication	HTTP Basic
Consumes Content-Type	application/xml
Produces Content-Type	application/xml

Example XML Request

```

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>

```

Example XML Response

```

<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>

```