

CA IT Process Automation Manager™

Unicenter® AutoSys® JM Connector Guide

r1



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Chapter 1: Overview

The Unicenter® AutoSys® JM Connector is a module that allows the integration of Unicenter® AutoSys® JM with CA IT Process Automation Manager (CA ITPAM) for the purpose of automating the Unicenter® AutoSys® JM operations.

The Unicenter® AutoSys® JM Module supports Unicenter® AutoSys® JM release 11.0, 11.1 and 11.2. The module implements the functionality supported by Unicenter® AutoSys® JM, including:

- Event-driven scheduling
- Centralized real-time monitoring
- Programmable error recovery

This section contains the following topics:

[Intended Audiences](#) (see page 9)

[Terminology](#) (see page 10)

Intended Audiences

The *Unicenter AutoSys JM Connector Guide* is intended for Administrators installing the Unicenter AutoSys JM Connector or maintaining a CA IT Process Automation Manager™ (CA IT PAM) instance, and Developers and maintainers of CA IT PAM Processes who want to have their Processes interact with Unicenter AutoSys JM.

Administrators should be familiar with the contents of the *CA IT Process Automation Manager Administration Guide*, and especially Domain, Environment, and Agent administration and enabling modules. Administrators should also be familiar with Unicenter AutoSys JM installation, configuration, and access management. For more information, see the *Unicenter AutoSys Job Management Windows/Unix Implementation Guide*.

Developers should be familiar with creating and running CA IT PAM Processes as described in the *CA IT Process Automation Manager User Guide*. Developers should also be familiar with scheduling and job management in distributed UNIX and Microsoft Windows environments. For more information, see the *Unicenter AutoSys Job Management User Guide* and the *Unicenter AutoSys Job Management Reference Guide*.

Terminology

Connector

A module that interfaces with software external to CA IT PAM.

Module

A set of functionally related Operators sharing a common configuration.

Operator

A software element which implements an action, and is one of the building blocks of a CA IT PAM Process.

Chapter 2: Installing and Configuring the Unicenter AutoSys JM Module

This section contains the following topics:

[Prerequisites](#) (see page 11)

[Installation](#) (see page 12)

[Default Module Properties Settings](#) (see page 14)

Prerequisites

The Unicenter AutoSys JM Module requires Unicenter AutoSys JM r11, r11.1, or r11.2 Server or Agent.

Note: This release of the Unicenter AutoSys Connector is *not* compatible with Unicenter AutoSys JM r11.3; subsequent releases of the Unicenter AutoSys Connector will support Unicenter AutoSys JM r11.3.

The Unicenter AutoSys JM Module requires additional DLLs from the Unicenter AutoSys JM Server or Agent installation. The location of DLLs must be specified appropriately in the PATH environment variable in environments where an CA IT PAM agent or Orchestrator is running an Operator from the Unicenter AutoSys JM Module.

The directories on Windows are:

```
{autosys-install-directory}\autosys\bin
```

```
{autosys-install-directory}\perl\bin
```

```
{CA-shared-socket-adaptor}\bin
```

For example:

```
set Path=C:\Program  
Files\Tests\CA\UnicenterAutoSysJM\AUTOSYS\bin;C:\Program  
Files\Tests\CA\UnicenterAutoSysJM\perl\bin;C:\WINDOWS\system32;C:\WIND  
OWS;C:\PROGRA~1\CA\SHARED~1\Csam\SOCKAD~1\bin;
```

To set up the environment for UNIX/Linux, refer to the *Unicenter AutoSys Job Management UNIX Implementation Guide*.

Note: It is recommended that the Unicenter AutoSys JM Module is run on a CA IT PAM Agent. The CA IT PAM Agent should be run as a User instead of run as SYSTEM.

Installation

The Unicenter AutoSys JM Connector software may be installed when installing the CA IT PAM Domain Orchestrator by clicking the check box next to CA AutoSys Connector on the "Choose Connectors to Update\Install" page of the CA IT PAM product installer. See the *CA IT PAM Installation and Configuration Guide* for details about installing the CA IT PAM Domain Orchestrator.

The Unicenter AutoSys JM Connector software also has a standalone installer. There are two versions of the installer provided:

- IT_PAM_connector_installer_CA_AutoSys_1_0.exe for installing on a Primary Domain Orchestrator running on Windows
- IT_PAM_connector_installer_CA_AutoSys_1_0.sh for installing on a Primary Domain Orchestrator running on Linux and UNIX

Before installing the Unicenter AutoSys JM Connector software, you must first shut down the Primary Domain Orchestrator.

- In a cluster configuration, the first Orchestrator installed is the Primary Orchestrator, and this can be confirmed by seeing that `oasis.server.isPrimary=true` is set in the `OasisConfig.properties` file found in `<itpam_root_directory>\server\c2o\.config`, where `<itpam_root_directory>` is the directory where CA IT PAM was installed.
- In a non-clustered configuration, the sole Domain Orchestrator is the Primary Domain Orchestrator.

To install the Connector

1. Log onto the machine and account used to install the CA IT PAM Primary Domain Orchestrator.
2. Run the appropriate version of the installer for your operating system. For Linux and UNIX systems, run the installer as follows to ensure that it is run under the Bourne shell, and to avoid the need to use `chmod` to set this file as an executable.

```
sh IT_PAM_connector_installer_CA_AutoSys_1_0.sh
```

3. When the Welcome screen displays, click Next to proceed or click Cancel to exit the installation.

The Licensing terms for this Connector display.

4. If you choose to accept the licensing terms, select "I accept the agreement", and click Next to proceed; otherwise click Cancel to terminate the installation.
5. Specify the directory where the CA IT PAM Primary Domain Orchestrator was installed (if it differs from the default value) by entering the complete path to the directory, or by clicking Browse and locating the directory.
6. Click Next.

The installer will verify that the Primary Domain Orchestrator is down, and a dialog displays where you select the components to install. (You will only have the choice of this Connector.)

7. Click the check box to select this Connector, and click Next to continue.

The installer will deploy the components of the new module to the Primary Domain Orchestrator (this may take a few minutes).

8. Click Finish to complete the installation.
9. Restart the Primary Domain Orchestrator.

The installation.log file is located here: `<itpam_root_directory>\server\c2o` where `<itpam_root_directory>` is the folder specified in Step 5.

The newly installed module will not be available immediately on any secondary Orchestrators, but all components will be mirrored within the time specified by the mirroring interval for the secondary Orchestrator.

10. After all components have been mirrored, you must stop and restart each Orchestrator and Agent to make the new module available for use.

Important! If you installed the Connector software in an existing CA IT PAM r2.1 environment, you must use the Configuration Browser to enable the newly installed module in each environment, on each Orchestrator, and on each Agent where the new module and its Operators will be used.

Connectivity Validation

Before testing the Unicenter AutoSys JM Module, it is important to verify the Unicenter AutoSys JM setup. You can use the command line interface to validate jobs such as start jobs, list jobs, and so on before using the Unicenter AutoSys JM Operators to validate them.

The user credentials must be authenticated to verify that they can be used to start and manage jobs and their definitions.

Default Module Properties Settings

You can set the following default properties for the Unicenter AutoSys JM Module in the Configuration Browser:

Default AutoSys JM Server

Defines the Unicenter AutoSys JM Server host name.

Default AutoSys JM Server Port

Defines the port used for communicating with Agents and APIs.

Note: By default, the Unicenter AutoSys JM Server uses port 9000.

Default AutoSys User

Defines the user name used to connect to Unicenter AutoSys JM.

Default User's Password

Defines the password used to connect to Unicenter AutoSys JM.

Default eIAM Artifact

This field is for future use, and no value should be entered here.

To specify default module properties

1. In the CA IT PAM Client, select File, Open Configuration Browser (if it is not already open).
2. On the left side of the window, right-click the desired component, and select Lock:
 - Domain (Browser palette)
 - Environment (Browser palette)
 - Orchestrator (Orchestrators palette)
 - Agent (Agents palette)
3. Click the Modules tab in the right pane of the window.
4. Double-click the Unicenter AutoSys JM Module to display the Properties tab for this module.
5. Specify the appropriate default settings for this module.
6. Click Apply.
7. Click the Save toolbar button.
8. Right-click the component you locked in Step 2 and select Unlock to unlock the component.

The Unicenter AutoSys JM Module Operators will use the default properties unless you specify Operator-specific properties for each Operator.

Chapter 3: Using the Unicenter AutoSys JM Module

This section contains the following topics:

- [Change Job Priority Operator](#) (see page 15)
- [Change Job Status Operator](#) (see page 17)
- [Create AutoSys Job Operator](#) (see page 19)
- [Delete AutoSys Job Operator](#) (see page 22)
- [Force Start AutoSys Job Operator](#) (see page 23)
- [Get Global Variable Value Operator](#) (see page 25)
- [Get Job Status Operator](#) (see page 26)
- [Kill AutoSys Job Operator](#) (see page 28)
- [List Defined Calendars Operator](#) (see page 29)
- [List Global Variables Operator](#) (see page 31)
- [List Job Details Operator](#) (see page 32)
- [List Jobs Run Operator](#) (see page 35)
- [Log Comment Operator](#) (see page 38)
- [Set Global Variable Value Operator](#) (see page 39)
- [Set Hold Status Operator](#) (see page 41)
- [Set Ice Status Operator](#) (see page 42)
- [Start AutoSys Job Operator](#) (see page 44)
- [Update AutoSys Job Operator](#) (see page 46)
- [Update Box Name Operator](#) (see page 49)
- [Update Job Files Operator](#) (see page 51)
- [Update Job Host](#) (see page 52)
- [Update Job Owner Operator](#) (see page 54)
- [Update Run Calendar](#) (see page 55)

Change Job Priority Operator

The Change Job Priority Operator changes the priority of a Unicenter AutoSys JM job. The priority is generally specified as a number.



Operator Input Parameters

AutoSys Basic Parameters

Job Name

Specifies the name of the job for which the priority needs to be changed.

Priority

Specifies the priority. The default value is 10, and the range is 1 to 1000.

AutoSys Connect Parameters

Default AutoSys JM Server

Defines the host machine on which the Unicenter AutoSys JM Server is installed.

If this value is not specified, it is inherited from the module properties.

Default AutoSys JM Server Port

Defines the Unicenter AutoSys JM Server port used for communication with Agents and APIs.

If this value is not specified, it is inherited from the default module properties; if not specified for the default module properties, a default setting of 9000 is used.

AutoSys User

Defines the Unicenter AutoSys JM user.

If this value is not specified, it is inherited from the default module properties.

Note: A value, either entered or inherited, is mandatory.

User's Password

Defines the user password.

If this value is not specified, it is inherited from the default module properties.

Note: A value, either entered or inherited, is mandatory.

AutoSys User eIAM Artifact

This field is for future use, and no value should be entered here.

Operator Outputs

None.

Operator Ports

Success

Indicates that the Operator executed successfully.

Failure

Indicates that the Operator execution failed.

Details can be found in the Operator Results page of the Operator Dataset, or the CA IT PAM Agent/Orchestrator log.

Change Job Status Operator

The Change Job Status Operator allows the user to change the status of a Unicenter AutoSys JM job.



Operator Input Parameters

AutoSys Basic Parameters

Job Name

Specifies the name of the job for which the status needs to be changed.

Job Status

Specifies the job status. You can select a status from the following list:

- On ICE
- On Hold
- Failed
- Terminated
- Starting
- Running
- Success
- Inactive
- Restart
- Pending Machine
- Queue Wait
- Wait Reply

AutoSys Connect Parameters

Default AutoSys JM Server

Defines the host machine on which the Unicenter AutoSys JM Server is installed.

If this value is not specified, it is inherited from the module properties.

Default AutoSys JM Server Port

Defines the Unicenter AutoSys JM Server port used for communication with Agents and APIs.

If this value is not specified, it is inherited from the default module properties; if not specified for the default module properties, a default setting of 9000 is used.

AutoSys User

Defines the Unicenter AutoSys JM user.

If this value is not specified, it is inherited from the default module properties.

Note: A value, either entered or inherited, is mandatory.

User's Password

Defines the user password.

If this value is not specified, it is inherited from the default module properties.

Note: A value, either entered or inherited, is mandatory.

AutoSys User eIAM Artifact

This field is for future use, and no value should be entered here.

Operator Outputs

None.

Operator Ports

Success

Indicates that the Operator executed successfully.

Failure

Indicates that the Operator execution failed.

Details can be found in the Operator Results page of the Operator Dataset, or the CA IT PAM Agent/Orchestrator log.

Create AutoSys Job Operator

The Create AutoSys Job Operator defines a job on the Unicenter AutoSys JM system. This job takes various attributes to define a job that can be scheduled or run on demand.



Operator Input Parameters

AutoSys Basic Parameters

Job Type

Defines the type of job. Can be a digit or lower-case letter.

Job Name

Defines the job name.

Job Host

Defines the host on which this job runs on.

Job Owner

Defines the job owner. The owner must exist in the Unicenter AutoSys JM security database.

Command to Run

Defines the actual command or script that will be run.

STDIN File

Defines a Stdin file.

STDOUT File

Defines a Stdout file.

STDERR File

Defines a STDERR File.

Priority

Defines the job priority. The value must be between 1 - 1000.
The default value is 10.

Maximum Retries

Defines the retry count upon failure. The default value is 3.

Maximum Success Status

Defines the highest return code that is deemed to be successful.

Watch File Pathname

Defines the full path name of the file to monitor.
This property is ignored if the job type is not "f".

Watch Interval

The interval (in seconds) at which the file watcher job should check for the existence and size of the watched file.
This property is ignored if the job type is not "f".

Watch File Minimum Size

The minimum size (in bytes) at which the job should consider the watched file complete.
This property is ignored if the job type is not "f".

AutoSys Input Parameters

Box Name

Defines the box name for this command.

Application Name

Defines the application Name.

Group Name

Defines the Group Name.

Profile

Defines the profile to load for this command.

Run Calendar Name

Defines the Run Calendar Name.

Exclude Calendar Name

Defines the Exclude Calendar Name.

Start Conditions name

Defines the starting conditions.

Start Time List

Defines the start time list (24 hour clock, string format comma-separated).

AutoSys Connect Parameters

Default AutoSys JM Server

Defines the host machine on which the Unicenter AutoSys JM Server is installed.

If this value is not specified, it is inherited from the module properties.

Default AutoSys JM Server Port

Defines the Unicenter AutoSys JM Server port used for communication with Agents and APIs.

If this value is not specified, it is inherited from the default module properties; if not specified for the default module properties, a default setting of 9000 is used.

AutoSys User

Defines the Unicenter AutoSys JM user.

If this value is not specified, it is inherited from the default module properties.

Note: A value, either entered or inherited, is mandatory.

User's Password

Defines the user password.

If this value is not specified, it is inherited from the default module properties.

Note: A value, either entered or inherited, is mandatory.

AutoSys User eIAM Artifact

This field is for future use, and no value should be entered here.

Operator Outputs

None.

Operator Ports

Success

Indicates that the Operator executed successfully.

Failure

Indicates that the Operator execution failed.

Details can be found in the Operator Results page of the Operator Dataset, or the CA IT PAM Agent/Orchestrator log.

Delete AutoSys Job Operator

The Delete AutoSys Job Operator deletes a previously created Unicenter AutoSys JM job.



Operator Input Parameters

AutoSys Basic Parameters

Job Name

Specifies the name of the job to be deleted.

AutoSys Connect Parameters

Default AutoSys JM Server

Defines the host machine on which the Unicenter AutoSys JM Server is installed.

If this value is not specified, it is inherited from the module properties.

Default AutoSys JM Server Port

Defines the Unicenter AutoSys JM Server port used for communication with Agents and APIs.

If this value is not specified, it is inherited from the default module properties; if not specified for the default module properties, a default setting of 9000 is used.

AutoSys User

Defines the Unicenter AutoSys JM user.

If this value is not specified, it is inherited from the default module properties.

Note: A value, either entered or inherited, is mandatory.

User's Password

Defines the user password.

If this value is not specified, it is inherited from the default module properties.

Note: A value, either entered or inherited, is mandatory.

AutoSys User eIAM Artifact

This field is for future use, and no value should be entered here.

Operator Outputs

None.

Operator Ports

Success

Indicates that the Operator executed successfully.

Failure

Indicates that the Operator execution failed.

Details can be found in the Operator Results page of the Operator Dataset, or the CA IT PAM Agent/Orchestrator log.

Force Start AutoSys Job Operator

The Force Start AutoSys Job Operator allows the user to restart a Unicenter AutoSys JM job.



Operator Input Parameters

AutoSys Basic Parameters

Job Name

Defines the name of the Unicenter AutoSys JM job to be forced to start.

AutoSys Connect Parameters

Default AutoSys JM Server

Defines the host machine on which the Unicenter AutoSys JM Server is installed.

If this value is not specified, it is inherited from the module properties.

Default AutoSys JM Server Port

Defines the Unicenter AutoSys JM Server port used for communication with Agents and APIs.

If this value is not specified, it is inherited from the default module properties; if not specified for the default module properties, a default setting of 9000 is used.

AutoSys User

Defines the Unicenter AutoSys JM user.

If this value is not specified, it is inherited from the default module properties.

Note: A value, either entered or inherited, is mandatory.

User's Password

Defines the user password.

If this value is not specified, it is inherited from the default module properties.

Note: A value, either entered or inherited, is mandatory.

AutoSys User eIAM Artifact

This field is for future use, and no value should be entered here.

Operator Outputs

None.

Operator Ports

Success

Indicates that the Operator executed successfully.

Failure

Indicates that the Operator execution failed.

Details can be found in the Operator Results page of the Operator Dataset, or the CA IT PAM Agent/Orchestrator log.

Get Global Variable Value Operator

The Get Global Variable Value Operator gets the value of a global variable.



Operator Input Parameters

AutoSys Basic Parameters

Global Variable Name

Specifies the name of an existing global variable.

AutoSys Connect Parameters

Default AutoSys JM Server

Defines the host machine on which the Unicenter AutoSys JM Server is installed.

If this value is not specified, it is inherited from the module properties.

Default AutoSys JM Server Port

Defines the Unicenter AutoSys JM Server port used for communication with Agents and APIs.

If this value is not specified, it is inherited from the default module properties; if not specified for the default module properties, a default setting of 9000 is used.

AutoSys User

Defines the Unicenter AutoSys JM user.

If this value is not specified, it is inherited from the default module properties.

Note: A value, either entered or inherited, is mandatory.

User's Password

Defines the user password.

If this value is not specified, it is inherited from the default module properties.

Note: A value, either entered or inherited, is mandatory.

AutoSys User eIAM Artifact

This field is for future use, and no value should be entered here.

Operator Outputs

<Global Variable Name> Value

Defines the value for this variable.

Operator Ports

Success

Indicates that the Operator executed successfully.

Failure

Indicates that the Operator execution failed.

Details can be found in the Operator Results page of the Operator Dataset, or the CA IT PAM Agent/Orchestrator log.

Get Job Status Operator

The Get Job Status Operator gets the status of a Unicenter AutoSys JM job. The job may have already been completed.



Operator Input Parameters

AutoSys Basic Parameters

Job Name

Defines the name of a Unicenter AutoSys JM job.

AutoSys Connect Parameters

Default AutoSys JM Server

Defines the host machine on which the Unicenter AutoSys JM Server is installed.

If this value is not specified, it is inherited from the module properties.

Default AutoSys JM Server Port

Defines the Unicenter AutoSys JM Server port used for communication with Agents and APIs.

If this value is not specified, it is inherited from the default module properties; if not specified for the default module properties, a default setting of 9000 is used.

AutoSys User

Defines the Unicenter AutoSys JM user.

If this value is not specified, it is inherited from the default module properties.

Note: A value, either entered or inherited, is mandatory.

User's Password

Defines the user password.

If this value is not specified, it is inherited from the default module properties.

Note: A value, either entered or inherited, is mandatory.

AutoSys User eIAM Artifact

This field is for future use, and no value should be entered here.

Operator Outputs

<Job Name> Status

Defines the Unicenter AutoSys JM job status description.

Operator Ports

Success

Indicates that the Operator executed successfully.

Failure

Indicates that the Operator execution failed.

Details can be found in the Operator Results page of the Operator Dataset, or the CA IT PAM Agent/Orchestrator log.

Kill AutoSys Job Operator

The Kill AutoSys Job Operator aborts/terminates an active Unicenter AutoSys JM job.



Operator Input Parameters

AutoSys Basic Parameters

Job Name

Specifies the name of a Unicenter AutoSys JM job that needs to be terminated.

AutoSys Connect Parameters

Default AutoSys JM Server

Defines the host machine on which the Unicenter AutoSys JM Server is installed.

If this value is not specified, it is inherited from the module properties.

Default AutoSys JM Server Port

Defines the Unicenter AutoSys JM Server port used for communication with Agents and APIs.

If this value is not specified, it is inherited from the default module properties; if not specified for the default module properties, a default setting of 9000 is used.

AutoSys User

Defines the Unicenter AutoSys JM user.

If this value is not specified, it is inherited from the default module properties.

Note: A value, either entered or inherited, is mandatory.

User's Password

Defines the user password.

If this value is not specified, it is inherited from the default module properties.

Note: A value, either entered or inherited, is mandatory.

AutoSys User eIAM Artifact

This field is for future use, and no value should be entered here.

Operator Outputs

None.

Operator Ports

Success

Indicates that the Operator executed successfully.

Failure

Indicates that the Operator execution failed.

Details can be found in the Operator Results page of the Operator Dataset, or the CA IT PAM Agent/Orchestrator log.

List Defined Calendars Operator

The List Defined Calendars Operator lists calendar names.



Operator Input Parameters

AutoSys Connect Parameters

Default AutoSys JM Server

Defines the host machine on which the Unicenter AutoSys JM Server is installed.

If this value is not specified, it is inherited from the module properties.

Default AutoSys JM Server Port

Defines the Unicenter AutoSys JM Server port used for communication with Agents and APIs.

If this value is not specified, it is inherited from the default module properties; if not specified for the default module properties, a default setting of 9000 is used.

AutoSys User

Defines the Unicenter AutoSys JM user.

If this value is not specified, it is inherited from the default module properties.

Note: A value, either entered or inherited, is mandatory.

User's Password

Defines the user password.

If this value is not specified, it is inherited from the default module properties.

Note: A value, either entered or inherited, is mandatory.

AutoSys User eIAM Artifact

This field is for future use, and no value should be entered here.

Operator Outputs

AutoSysDefinedCalendarNames: list of strings

Displays an array of calendar names from the Unicenter AutoSys JM database.

Operator Ports

Success

Indicates that the Operator executed successfully.

Failure

Indicates that the Operator execution failed.

Details can be found in the Operator Results page of the Operator Dataset, or the CA IT PAM Agent/Orchestrator log.

List Global Variables Operator

The List Global Variables Operator lists global variable names.



Operator Input Parameters

AutoSys Basic Parameters

Global Variable Pattern

Defines the global variable name pattern. "ALL" can also be used.

AutoSys Connect Parameters

Default AutoSys JM Server

Defines the host machine on which the Unicenter AutoSys JM Server is installed.

If this value is not specified, it is inherited from the module properties.

Default AutoSys JM Server Port

Defines the Unicenter AutoSys JM Server port used for communication with Agents and APIs.

If this value is not specified, it is inherited from the default module properties; if not specified for the default module properties, a default setting of 9000 is used.

AutoSys User

Defines the Unicenter AutoSys JM user.

If this value is not specified, it is inherited from the default module properties.

Note: A value, either entered or inherited, is mandatory.

User's Password

Defines the user password.

If this value is not specified, it is inherited from the default module properties.

Note: A value, either entered or inherited, is mandatory.

AutoSys User eIAM Artifact

This field is for future use, and no value should be entered here.

Operator Outputs

AutoSysGlobalVariables

Defines a string array of variable names that match the pattern.

Operator Ports

Success

Indicates that the Operator executed successfully.

Failure

Indicates that the Operator execution failed.

Details can be found in the Operator Results page of the Operator Dataset, or the CA IT PAM Agent/Orchestrator log.

List Job Details Operator

The List Job Details Operator lists the definition details of one or more jobs.



Operator Input Parameters

AutoSys Basic Parameters

Job Name Pattern

Defines the job name pattern to look for.

AutoSys Connect Parameters

Default AutoSys JM Server

Defines the host machine on which the Unicenter AutoSys JM Server is installed.

If this value is not specified, it is inherited from the module properties.

Default AutoSys JM Server Port

Defines the Unicenter AutoSys JM Server port used for communication with Agents and APIs.

If this value is not specified, it is inherited from the default module properties; if not specified for the default module properties, a default setting of 9000 is used.

AutoSys User

Defines the Unicenter AutoSys JM user.

If this value is not specified, it is inherited from the default module properties.

Note: A value, either entered or inherited, is mandatory.

User's Password

Defines the user password.

If this value is not specified, it is inherited from the default module properties.

Note: A value, either entered or inherited, is mandatory.

AutoSys User eIAM Artifact

This field is for future use, and no value should be entered here.

Operator Outputs

AutoSysJobDetails

Details the jobs. It should contain the following fields:

- BoxName
- Owner
- Application
- GroupName
- Command
- Machine
- Profile
- WatchFile
- StartCondition
- RunCalendar
- Description
- JobType
- StdinFile
- StdoutFile
- StderrFile
- JobExitCode
- JobRunCount
- JobRetries
- JobPID
- JobPriority
- JobRunPriority
- WatchInterval
- WatchFileMinSize
- MaxExitSuccess
- MaxRetries

Operator Ports

Success

Indicates that the Operator executed successfully.

Failure

Indicates that the Operator execution failed.

Details can be found in the Operator Results page of the Operator Dataset, or the CA IT PAM Agent/Orchestrator log.

List Jobs Run Operator

The List Jobs Run Operator lists the details of one or more jobs specified by the pattern. The job status is also specified for narrowing the search criteria.



Operator Input Parameters

AutoSys Basic Parameters

Job Name Pattern

The job name pattern to look for.

Job Status:

The status of the jobs; can have one of the following values:

- On ICE
- On Hold
- Failed
- Terminated
- Starting
- Running
- Success
- Inactive
- Restart
- Pending Machine
- Queue Wait
- Wait Reply

AutoSys Connect Parameters

Default AutoSys JM Server

Defines the host machine on which the Unicenter AutoSys JM Server is installed.

If this value is not specified, it is inherited from the module properties.

Default AutoSys JM Server Port

Defines the Unicenter AutoSys JM Server port used for communication with Agents and APIs.

If this value is not specified, it is inherited from the default module properties; if not specified for the default module properties, a default setting of 9000 is used.

AutoSys User

Defines the Unicenter AutoSys JM user.

If this value is not specified, it is inherited from the default module properties.

Note: A value, either entered or inherited, is mandatory.

User's Password

Defines the user password.

If this value is not specified, it is inherited from the default module properties.

Note: A value, either entered or inherited, is mandatory.

AutoSys User eIAM Artifact

This field is for future use, and no value should be entered here.

Operator Outputs

AutoSysJobRuns

Specifies the details of the jobs and should contain these fields:

- JobName
- Event
- EventStatus
- EventTime
- EventText
- JobOwner
- BoxName
- Application
- GroupName
- JobExitCode
- JobRunCount
- JobRetries
- Description
- JobStartTime
- JobEndTime
- JobStatus
- JobRunMachine
- JobTargetMachine

Operator Ports

Success

Indicates that the Operator executed successfully.

Failure

Indicates that the Operator execution failed.

Details can be found in the Operator Results page of the Operator Dataset, or the CA IT PAM Agent/Orchestrator log.

Log Comment Operator

The Log Comment Operator writes a comment to the Unicenter AutoSys JM logs on the server (may be on a remote machine).



Operator Input Parameters

AutoSys Basic Parameters

Global Variable Value

Defines the comment to be logged.

Priority

Defines the starting priority. Can be only between 1 and 1000. Default: 10.

AutoSys Connect Parameters

Default AutoSys JM Server

Defines the host machine on which the Unicenter AutoSys JM Server is installed.

If this value is not specified, it is inherited from the module properties.

Default AutoSys JM Server Port

Defines the Unicenter AutoSys JM Server port used for communication with Agents and APIs.

If this value is not specified, it is inherited from the default module properties; if not specified for the default module properties, a default setting of 9000 is used.

AutoSys User

Defines the Unicenter AutoSys JM user.

If this value is not specified, it is inherited from the default module properties.

Note: A value, either entered or inherited, is mandatory.

User's Password

Defines the user password.

If this value is not specified, it is inherited from the default module properties.

Note: A value, either entered or inherited, is mandatory.

AutoSys User eIAM Artifact

This field is for future use, and no value should be entered here.

Operator Outputs

None.

Operator Ports

Success

Indicates that the Operator executed successfully.

Failure

Indicates that the Operator execution failed.

Details can be found in the Operator Results page of the Operator Dataset, or the CA IT PAM Agent/Orchestrator log.

Set Global Variable Value Operator

The Set Global Variable Value Operator sets the value of global variable.



Operator Input Parameters

AutoSys Basic Parameters

Global Variable Name

Defines the name of the global variable.

Global Variable Value

Defines the value for the global variable.

AutoSys Connect Parameters

Default AutoSys JM Server

Defines the host machine on which the Unicenter AutoSys JM Server is installed.

If this value is not specified, it is inherited from the module properties.

Default AutoSys JM Server Port

Defines the Unicenter AutoSys JM Server port used for communication with Agents and APIs.

If this value is not specified, it is inherited from the default module properties; if not specified for the default module properties, a default setting of 9000 is used.

AutoSys User

Defines the Unicenter AutoSys JM user.

If this value is not specified, it is inherited from the default module properties.

Note: A value, either entered or inherited, is mandatory.

User's Password

Defines the user password.

If this value is not specified, it is inherited from the default module properties.

Note: A value, either entered or inherited, is mandatory.

AutoSys User eIAM Artifact

This field is for future use, and no value should be entered here.

Operator Outputs

None.

Operator Ports

Success

Indicates that the Operator executed successfully.

Failure

Indicates that the Operator execution failed.

Details can be found in the Operator Results page of the Operator Dataset, or the CA IT PAM Agent/Orchestrator log.

Set Hold Status Operator

The Status Hold Status Operator allows a job be either be put on HOLD status or be taken off of HOLD status.



Operator Input Parameters

AutoSys Basic Parameters

Job Name

Defines the name of a Unicenter AutoSys JM job.

Change Job Hold Status

Defines the new hold status of the job. It can have one of the following values:

- Put Job on Hold
- Take Job off Hold

AutoSys Connect Parameters

Default AutoSys JM Server

Defines the host machine on which the Unicenter AutoSys JM Server is installed.

If this value is not specified, it is inherited from the module properties.

Default AutoSys JM Server Port

Defines the Unicenter AutoSys JM Server port used for communication with Agents and APIs.

If this value is not specified, it is inherited from the default module properties; if not specified for the default module properties, a default setting of 9000 is used.

AutoSys User

Defines the Unicenter AutoSys JM user.

If this value is not specified, it is inherited from the default module properties.

Note: A value, either entered or inherited, is mandatory.

User's Password

Defines the user password.

If this value is not specified, it is inherited from the default module properties.

Note: A value, either entered or inherited, is mandatory.

AutoSys User eIAM Artifact

This field is for future use, and no value should be entered here.

Operator Outputs

None.

Operator Ports

Success

Indicates that the Operator executed successfully.

Failure

Indicates that the Operator execution failed.

Details can be found in the Operator Results page of the Operator Dataset, or the CA IT PAM Agent/Orchestrator log.

Set Ice Status Operator

The Set Ice Status Operator allows a job be either be put on ICE status or be taken off of ICE status.



Operator Input Parameters

AutoSys Basic Parameters

Job Name

Defines the name of a Unicenter AutoSys JM job.

Change Job Ice Status

Defines the new Ice status of the job. It can have one of the following values:

Selectable values:

- Put Job on Ice
- Take Job off Ice

AutoSys Connect Parameters

Default AutoSys JM Server

Defines the host machine on which the Unicenter AutoSys JM Server is installed.

If this value is not specified, it is inherited from the module properties.

Default AutoSys JM Server Port

Defines the Unicenter AutoSys JM Server port used for communication with Agents and APIs.

If this value is not specified, it is inherited from the default module properties; if not specified for the default module properties, a default setting of 9000 is used.

AutoSys User

Defines the Unicenter AutoSys JM user.

If this value is not specified, it is inherited from the default module properties.

Note: A value, either entered or inherited, is mandatory.

User's Password

Defines the user password.

If this value is not specified, it is inherited from the default module properties.

Note: A value, either entered or inherited, is mandatory.

AutoSys User eIAM Artifact

This field is for future use, and no value should be entered here.

Operator Outputs

None.

Operator Ports

Success

Indicates that the Operator executed successfully.

Failure

Indicates that the Operator execution failed.

Details can be found in the Operator Results page of the Operator Dataset, or the CA IT PAM Agent/Orchestrator log.

Start AutoSys Job Operator

The Start AutoSys Job Operator starts a Unicenter AutoSys JM job. This job must be previously defined in Unicenter AutoSys JM.



Operator Input Parameters

AutoSys Basic Parameters

Job Name

Defines the name of a Unicenter AutoSys JM job.

Job Host

Defines the host on which this job runs on.

Priority

Defines the starting priority. This value must be between 1 and 1000. The default value is 10.

AutoSys Connect Parameters

Default AutoSys JM Server

Defines the host machine on which the Unicenter AutoSys JM Server is installed.

If this value is not specified, it is inherited from the module properties.

Default AutoSys JM Server Port

Defines the Unicenter AutoSys JM Server port used for communication with Agents and APIs.

If this value is not specified, it is inherited from the default module properties; if not specified for the default module properties, a default setting of 9000 is used.

AutoSys User

Defines the Unicenter AutoSys JM user.

If this value is not specified, it is inherited from the default module properties.

Note: A value, either entered or inherited, is mandatory.

User's Password

Defines the user password.

If this value is not specified, it is inherited from the default module properties.

Note: A value, either entered or inherited, is mandatory.

AutoSys User eIAM Artifact

This field is for future use, and no value should be entered here.

Operator Outputs

None.

Operator Ports

Success

Indicates that the Operator executed successfully.

Failure

Indicates that the Operator execution failed.

Details can be found in the Operator Results page of the Operator Dataset, or the CA IT PAM Agent/Orchestrator log.

Update AutoSys Job Operator

The Update AutoSys Job Operator updates various attributes of a previously defined Unicenter AutoSys JM job. While there are many attributes that may be set for a job, only a subset of these is currently being offered through this Operator.



Operator Input Parameters

AutoSys Basic Parameters

Job Type

Defines the type of job. This can be a digit or lower-case letter.

Job Name

Defines the name of a Unicenter AutoSys JM job.

Job Host

Defines the host on which this job runs on.

Job Owner

Defines the job owner. This must exist in the Unicenter AutoSys JM security database.

Command to Run

Defines the actual command or script will be run.

STDIN File

Defines the Stdin file.

STDOUT File

Defines the Stdout file.

STDERR File

Defines the STDERR File.

Priority

Defines the job priority. The value must be between 1 - 1000. The default value is 10.

Maximum Retries

Defines the Retry count upon failure. The default value is 3.

Maximum Success Status

Defines the highest return code that is deemed to be success. The default value is 0.

Watch File Pathname

Defines the full path name of the file to monitor.

This property is ignored if the job type is not "f".

Watch Interval

The interval (in seconds) at which the file watcher job should check for the existence and size of the watched file.

This property is ignored if the job type is not "f".

Watch File Minimum Size

The minimum size (in bytes) at which the job should consider the watched file complete.

This property is ignored if the job type is not "f".

AutoSys Input Parameters

Box Name

Defines the box name for this command.

Application Name

Defines the application Name.

Group Name

Defines the Group Name.

Profile

Defines the profile to load for this command.

Run Calendar Name

Defines the Run Calendar Name.

Exclude Calendar Name

Defines the Exclude Calendar Name.

Start Conditions name

Defines the Starting conditions.

Start Time List

Defines the Start time list (24 hour clock, string format comma-separated).

AutoSys Connect Parameters

Default AutoSys JM Server

Defines the host machine on which the Unicenter AutoSys JM Server is installed.

If this value is not specified, it is inherited from the module properties.

Default AutoSys JM Server Port

Defines the Unicenter AutoSys JM Server port used for communication with Agents and APIs.

If this value is not specified, it is inherited from the default module properties; if not specified for the default module properties, a default setting of 9000 is used.

AutoSys User

Defines the Unicenter AutoSys JM user.

If this value is not specified, it is inherited from the default module properties.

Note: A value, either entered or inherited, is mandatory.

User's Password

Defines the user password.

If this value is not specified, it is inherited from the default module properties.

Note: A value, either entered or inherited, is mandatory.

AutoSys User eIAM Artifact

This field is for future use, and no value should be entered here.

Operator Outputs

None.

Operator Ports

Success

Indicates that the Operator executed successfully.

Failure

Indicates that the Operator execution failed.

Details can be found in the Operator Results page of the Operator Dataset, or the CA IT PAM Agent/Orchestrator log.

Update Box Name Operator

The Update Box Name Operator is an attribute of a job.



Operator Input Parameters

AutoSys Basic Parameters

Job Name

Defines the name of a Unicenter AutoSys JM job.

Box Name

Defines the box name for this job.

AutoSys Connect Parameters

Default AutoSys JM Server

Defines the host machine on which the Unicenter AutoSys JM Server is installed.

If this value is not specified, it is inherited from the module properties.

Default AutoSys JM Server Port

Defines the Unicenter AutoSys JM Server port used for communication with Agents and APIs.

If this value is not specified, it is inherited from the default module properties; if not specified for the default module properties, a default setting of 9000 is used.

AutoSys User

Defines the Unicenter AutoSys JM user.

If this value is not specified, it is inherited from the default module properties.

Note: A value, either entered or inherited, is mandatory.

User's Password

Defines the user password.

If this value is not specified, it is inherited from the default module properties.

Note: A value, either entered or inherited, is mandatory.

AutoSys User eIAM Artifact

This field is for future use, and no value should be entered here.

Operator Outputs

None.

Operator Ports

Success

Indicates that the Operator executed successfully.

Failure

Indicates that the Operator execution failed.

Details can be found in the Operator Results page of the Operator Dataset, or the CA IT PAM Agent/Orchestrator log.

Update Job Files Operator

The Update Job Files Operator updates the job files. The job files of a Unicenter AutoSys JM job are as follows:

- STDIN
- STDOUT
- STERR



Operator Input Parameters

AutoSys Basic Parameters

Job Name

Defines the name of a Unicenter AutoSys JM job.

STDIN File

Defines the Stdin file.

STDOUT File

Defines the Stdout file.

STDERR File

Defines the STDERR File.

AutoSys Connect Parameters

Default AutoSys JM Server

Defines the host machine on which the Unicenter AutoSys JM Server is installed.

If this value is not specified, it is inherited from the module properties.

Default AutoSys JM Server Port

Defines the Unicenter AutoSys JM Server port used for communication with Agents and APIs.

If this value is not specified, it is inherited from the default module properties; if not specified for the default module properties, a default setting of 9000 is used.

AutoSys User

Defines the Unicenter AutoSys JM user.

If this value is not specified, it is inherited from the default module properties.

Note: A value, either entered or inherited, is mandatory.

User's Password

Defines the user password.

If this value is not specified, it is inherited from the default module properties.

Note: A value, either entered or inherited, is mandatory.

AutoSys User eIAM Artifact

This field is for future use, and no value should be entered here.

Operator Outputs

None.

Operator Ports

Success

Indicates that the Operator executed successfully.

Failure

Indicates that the Operator execution failed.

Details can be found in the Operator Results page of the Operator Dataset, or the CA IT PAM Agent/Orchestrator log.

Update Job Host

The Update Job Host Operator updates the host on which this Unicenter AutoSys JM job is defined to run.



Operator Input Parameters

AutoSys Basic Parameters

Job Name

Defines the name of a Unicenter AutoSys JM job.

Job Host

Defines the host on which this job runs on.

AutoSys Connect Parameters

Default AutoSys JM Server

Defines the host machine on which the Unicenter AutoSys JM Server is installed.

If this value is not specified, it is inherited from the module properties.

Default AutoSys JM Server Port

Defines the Unicenter AutoSys JM Server port used for communication with Agents and APIs.

If this value is not specified, it is inherited from the default module properties; if not specified for the default module properties, a default setting of 9000 is used.

AutoSys User

Defines the Unicenter AutoSys JM user.

If this value is not specified, it is inherited from the default module properties.

Note: A value, either entered or inherited, is mandatory.

User's Password

Defines the user password.

If this value is not specified, it is inherited from the default module properties.

Note: A value, either entered or inherited, is mandatory.

AutoSys User eIAM Artifact

This field is for future use, and no value should be entered here.

Operator Outputs

None.

Operator Ports

Success

Indicates that the Operator executed successfully.

Failure

Indicates that the Operator execution failed.

Details can be found in the Operator Results page of the Operator Dataset, or the CA IT PAM Agent/Orchestrator log.

Update Job Owner Operator

The Update Job Owner Operator updates the Job Owner for the job. This is used for the run credential validation by Unicenter AutoSys JM.



Operator Input Parameters

AutoSys Basic Parameters

Job Name

Defines the name of a Unicenter AutoSys JM job.

Job Owner

Defines the job owner. This must exist in the Unicenter AutoSys JM security database.

AutoSys Connect Parameters

Default AutoSys JM Server

Defines the host machine on which the Unicenter AutoSys JM Server is installed.

If this value is not specified, it is inherited from the module properties.

Default AutoSys JM Server Port

Defines the Unicenter AutoSys JM Server port used for communication with Agents and APIs.

If this value is not specified, it is inherited from the default module properties; if not specified for the default module properties, a default setting of 9000 is used.

AutoSys User

Defines the Unicenter AutoSys JM user.

If this value is not specified, it is inherited from the default module properties.

Note: A value, either entered or inherited, is mandatory.

User's Password

Defines the user password.

If this value is not specified, it is inherited from the default module properties.

Note: A value, either entered or inherited, is mandatory.

AutoSys User eIAM Artifact

This field is for future use, and no value should be entered here.

Operator Outputs

None.

Operator Ports

Success

Indicates that the Operator executed successfully.

Failure

Indicates that the Operator execution failed.

Details can be found in the Operator Results page of the Operator Dataset, or the CA IT PAM Agent/Orchestrator log.

Update Run Calendar

The Update Run Calendar Operator updates the Calendar attribute (name) for the Unicenter AutoSys JM job.



Operator Input Parameters

AutoSys Basic Parameters

Job Name

Defines the name of a Unicenter AutoSys JM job.

Run Calendar Name

Defines the Run Calendar Name.

AutoSys Connect Parameters

Default AutoSys JM Server

Defines the host machine on which the Unicenter AutoSys JM Server is installed.

If this value is not specified, it is inherited from the module properties.

Default AutoSys JM Server Port

Defines the Unicenter AutoSys JM Server port used for communication with Agents and APIs.

If this value is not specified, it is inherited from the default module properties; if not specified for the default module properties, a default setting of 9000 is used.

AutoSys User

Defines the Unicenter AutoSys JM user.

If this value is not specified, it is inherited from the default module properties.

Note: A value, either entered or inherited, is mandatory.

User's Password

Defines the user password.

If this value is not specified, it is inherited from the default module properties.

Note: A value, either entered or inherited, is mandatory.

AutoSys User eIAM Artifact

This field is for future use, and no value should be entered here.

Operator Outputs

None.

Operator Ports

Success

Indicates that the Operator executed successfully.

Failure

Indicates that the Operator execution failed.

Details can be found in the Operator Results page of the Operator Dataset, or the CA IT PAM Agent/Orchestrator log.

Chapter 4: Troubleshooting

This section contains the following topics:

[The Start AutoSys Job Operator fails](#) (see page 59)

[A Unicenter AutoSys JM Operator Fails](#) (see page 60)

The Start AutoSys Job Operator fails

Valid on Windows

Symptom

Execution of the "Start AutoSys Job "Operator on the CA IT PAM agent machine fails, and the following error message appears:

"CAUAJM_W_10452 The Windows NT AUTHORITY\SYSTEM User Account does not have sufficient authority to access Unicenter AutoSys JM assets"

Solution

- Verify that the CA IT PAM Agent service is running with the SYSTEM privilege.
- Change the Properties of the CA IT PAM Agent to User on the CA IT PAM Agent machine.

A Unicenter AutoSys JM Operator Fails

Valid on Windows

Symptom

Execution of any Unicenter AutoSys JM Operator on the CA IT PAM Agent machine fails, and the following error message appears in the logs:

<operator_name_x> encountered "System Error"

Solution

- Verify that the PATH environment variable contains the following:
C:\Program Files\Tests\CA\UnicenterAutoSysJM\AUTOSYS\bin;C:\Program Files\Tests\CA\UnicenterAutoSysJM\perl\bin;C:\PROGRA~1\CA\SHARED~1\Csam\SOCKAD~1\bin
- Verify that you are using CA IT PAM r2.1 SP3 or higher.
- Verify that you are using Unicenter AutoSys JM r11, r11.1, or r11.2. This release of the Unicenter AutoSys JM Module is *not* compatible with Unicenter AutoSys JM r11.3.

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