

CA Workload Automation iXp

Release Notes

Release 11.3.5, Third Edition



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Chapter 1: Welcome

Welcome to CA Workload Automation iXp Release 11.3.5. This document describes the new features, supported operating systems, supported databases, system requirements, and upgrade considerations.

For the latest version of the Release Notes, visit <https://ca.com/support>.

Chapter 2: New Features

This chapter documents new features added to the product.

Support for CA Workload Automation AE Release 11.3.6

CA Workload Automation iXp now provides support for CA Workload Automation AE Release 11.3.6.

Note: The CA Workload Automation iXp Job Editor supports only Command, Box, and File Watcher job types. The job types that are added to CA Workload Automation AE after Unicenter AutoSys JM 4.5 are not supported. However, users can view or define the additional job types using the `ixautorep` or `ixjil` CLI commands.

Support for Log Filtration

The iXp Admin Tool supports the log filtration option that lets users filter the iXp server logs based on a search keyword. To filter the logs, specify a keyword in the Find in log field and click the Previous or Next button.

Release 11.3.5 - Incremental 4 (Third Edition)

Job Detail View – New Information Fields:

The Job detail view now has additional information fields:

- Group
- Application

Job Editor Window - New Fields

The Job Editor Window now has additional information fields:

- Group
- Application

Calendar Editor Window – Dependent Jobs List

The calendar editor window shows a list of dependent jobs. Select a calendar from the drop down menu to show jobs that are using this calendar including information on whether the calendar is used as a run calendar or an exclude calendar.

Additional Job Type Information

Job logs, job error logs and spool files are now accessible for all Additional Job Type Information.

New Filter Editor Definitions

The 'Group' tab is renamed as 'iXp Group' tab to avoid confusion with WA AE Groups. You can filter the definitions now in the Filter Editor.

Filter Editor - Calendar tab

You can now create and filter jobs via the calendar:

- Show all jobs that are associated with a particular calendar schedule.
- Right click job to open context menu select to 'show in console'.

Additional Filters

New 'group' support for filtering by CA Workload Automation AE groups and new 'application' support for filtering by applications in the filter editor.

Hostname Command

New command 'IXP_USERCOMMAND_USER_HOSTNAME' used to return your hostname.

Additional Job Detail Filters

Filter by 'group' or 'application' to display jobs matching the selected group or application.

HTML support for 'Message of the Day'

Message of the Day now supports html markup for message customization.

Graph Columns Group and Application

Additional columns in the console for organizing progress graphs by Group and Application.

QuickFilters

You can create quick filters by clicking on one of these job attributes: Status, Run Machine, Group, Application, Box name, in the job detail view. Filters are dynamically generated and are not saved. If you want to save, create a copy in the Filter Editor with a new save name.

Server/client Connection Information

Both iXp Gui and iXp AdminTool users can see the name of the iXp server they are connected to. Information is visible in the top right corner next to the user name.

CLI - ixuserjobcmd

Provides the ability to run previously defined user job commands from the command line.

CLI - ixautocal_asc

ixautocal_asc is now able to relay command line arguments to underlying autocal_asc with iXp security and audit. When using the Import or Export option, the specified files are transported to/from the iXp server. This is now the preferable way of importing/updating calendars from CLI because this bypasses WA AE 11.3 -> 11.3.5 behavior inconsistency (overwriting instead of updating calendars when using input redirect "<").

Chapter 3: Fixed Issues

This chapter documents the issues that have been fixed in CA Workload Automation iXp Release 11.3.5.

iXp System Call Hung in UNIX/Linux Environments

Valid on UNIX and Linux

When iXp server sent a system call to CA Workload Automation AE, the system call hung.

This issue has been fixed. iXp now attempts to terminate the hung system call automatically when it does not exit after 30 minutes.

Log File Retrieval Failed for CA Workload Automation AE Jobs

When you retrieved the log file for a CA Workload Automation AE Release 11.3.5 or higher job, the log file could not be viewed. For example, if you retrieved the standard error log file for the job (TEST) of the instance (ORG), the following error message is displayed:

```
ORG-TEST: "STD_ERR_FILL": invalid identifier
```

This issue has been fixed. You can now retrieve log files for all CA Workload Automation AE jobs.

Job Flow View Not Displayed for a Three-Letter Site Name that Matches an Instance Name

If you specified a three-letter site name that matches an instance name, the job flow view for the site name was not displayed.

The minimum number of characters for a site name is now set to four.

Sendevents JOB_ON_NOEXEC and JOB_OFF_NOEXEC Not Supported for CA Workload Automation AE Release 11.3.6 Jobs

The JOB_ON_NOEXEC and JOB_OFF_NOEXEC sendevents were not supported for CA Workload Automation AE Release 11.3.6 jobs.

This issue has been fixed. You can now issue the JOB_ON_NOEXEC and JOB_OFF_NOEXEC sendevents for both CA Workload Automation AE Release 11.3.5 and Release 11.3.6 jobs.

Calendar Editor Denies Calendar Access for Users with Read Privilege

Users with the calendar read privileges on an instance were denied access to calendars by the calendar editor.

This issue has been fixed. Users can now view all calendars for which read privileges are assigned on an instance.

Sendevent Dialog Not Refreshed After a Sendevent Invocation

When you opened the Sendevent dialog from the File menu in iXp user interface, the Sendevent dialog displayed the job from the previous sendevent invocation.

This issue has been fixed. The Sendevent dialog now displays the job that you have selected currently in the tree view. We recommend that you open the Sendevent dialog after you select a job in the tree view.

Calendar Editor Toolbar Icons Not Dynamically Displayed Based on the Calendar Type

When an instance defined with an extended calendar was selected from the AUTOSERV drop-down list, all the icons were displayed in the calendar editor toolbar.

This issue has been fixed. The calendar editor toolbar icons are dynamically displayed based on the standard calendar, extended calendar, or the cycle that an instance is defined with. For an extended calendar, the toolbar displays specific icons and disables the remaining ones.

Unknown Job Type Displayed for CA Workload Automation AE Release 11.3.5 or Release 11.3.6 Jobs

When a CA Workload Automation AE Release 11.3.5 or Release 11.3.6 job was viewed in the Job Editor dialog, the job type was displayed as UNKNOWN.

This issue has been fixed. The job type is now displayed correctly based on the type you specify in the CA Workload Automation AE job definition.

iXp JIL Command Failed to Execute

If you specified an escaped double quote (\") at the end of a JIL command, the JIL command failed to execute.

You can now execute the JIL command that ends with an escaped or unescaped double quote.

Date Condition Check Box Not Selected in iXp Job Editor

When you ran the `ixpautorep` command with the date condition attribute (t), the Date Condition check box was not selected on the iXp Job Editor. iXp ignored the attribute.

This issue has been fixed. iXp Job Editor now selects or clears the Date Condition check box appropriately based on the date condition attribute that you define in the `ixpautorep` command.

11.3.6 Version Option Not Listed on the Instance tab of iXp Admin Tool

When you defined a new CA Workload Automation AE 11.3.6 instance, 11.3.6 version option was not listed in the Version drop-down on the Instance tab.

This issue has been fixed. You can now select 11.3.6 from the Version drop-down list when you define a new CA Workload Automation AE 11.3.6 instance.

Job Detail View Displayed Incorrect Global Variable Value

When you set a global variable on an instance using a job in another instance, iXp assumed that the global variable is set on the instance where the job is defined. So, the job detail view displayed the wrong instance name and an undefined value.

This issue has been fixed. The job detail view now displays the correct global variable value with appropriate instance name.

Chapter 4: System Requirements

This chapter documents the operating system support, database support, and system requirements for CA Workload Automation iXp Release 11.3.5.

Operating System Support

The CA Workload Automation iXp server component supports the following operating system versions:

CA Workload Automation iXp Server			
Operating System	Supported Versions	Architecture	Notes
Solaris	10	SPARC 64-bit	
Solaris	11	SPARC 64-bit	
Red Hat Enterprise Linux	5	x86 64-bit	
Red Hat Enterprise Linux	6	x86 64-bit	
SuSE Linux Enterprise Server	10	x86 64-bit	
SuSE Linux Enterprise Server	11	x86 64-bit	
Windows Server	2008	x86 64-bit	
Windows Server	2008 R2	x86 64-bit	
HP-UX	11i v3	PA-RISC 64-bit	
AIX	6.1	POWER 64-bit	
AIX	7.1	POWER 64-bit	

The CA Workload Automation iXp client supports the following operating system versions:

CA Workload Automation iXp Client			
Operating System	Supported Versions	Architecture	Notes
Windows	XP SP2	x86 32/64-bit	
Windows	Vista	x86 32/64-bit	
Windows	7	x86 32/64-bit	
Windows	2008	X86 32/64-bit	
Windows	2008 R2	X86 32/64-bit	
Red Hat Enterprise Linux	5	X86 32/64-bit	
Red Hat Enterprise Linux	6	X86 32/64-bit	
SuSE Linux Enterprise Server	10	X86 32/64-bit	
SuSE Linux Enterprise Server	11	X86 32/64-bit	

The CLI is supported on the same operating systems as the CA Workload Automation iXp server, including their 32-bit versions. Additionally, the CLI is supported on the following operating system versions:

CA Workload Automation iXp CLI			
Operating System	Supported Versions	Architecture	Notes
HP-UX	11i v3	IA 64-bit	
Windows	2003	X86 32/64-bit	Only SP2 and higher
Windows	2003 R2	X86 32/64-bit	Only SP2 and higher
Red Hat Enterprise Linux	5	zSeries 31/64-bit	

CA Workload Automation iXp CLI

Operating System	Supported Versions	Architecture	Notes
Red Hat Enterprise Linux	6	zSeries 31/64-bit	
SuSE Linux Enterprise Server	10	zSeries 31/64-bit	
SuSE Linux Enterprise Server	11	zSeries 31/64-bit	

Java Runtime Environment (JRE) and Tomcat Support

The CA Workload Automation iXp server component supports the following JRE and Tomcat versions:

CA Workload Automation iXp Server

Software	Supported Versions	Implementation	Notes
JRE	1.7	64-bit	
JRE	1.6	64-bit	
Apache Tomcat	6	64-bit	
Apache Tomcat	7	64-bit	

The CA Workload Automation iXp client and CLI components support the following JRE versions:

CA Workload Automation iXp Client and CLI

Software	Supported Versions	Implementation	Notes
JRE	1.7	32/64-bit	
JRE	1.6	32/64-bit	

CA Workload Automation AE Server

The CA Workload Automation iXp server and client components support the following CA Workload Automation AE server versions:

CA Workload Automation iXp Server and Client			
Software	Supported Versions	Implementation	Notes
CA Workload Automation AE	Release 11.3.6		
CA Workload Automation AE	Release 11.3.5		
CA Workload Automation AE	r11.3		
Unicenter AutoSys JM	r11		
Unicenter AutoSys JM	4.5.1		

System Requirements for CA Workload Automation iXp Server

To install and run CA Workload Automation iXp Release 11.3.5 server, the following requirements must be met:

- 2 GHz processor with 2 free cores
- 4 GB free physical memory
- Disk space for full installation: 5 GB
- Perl 5.8 or greater is recommended

Additional requirements that depend on the type of deployment are as follows:

- Up to 50,000 jobs, 10 concurrent users
 - 2 GHz processor with 2 free cores
 - 4 GB free physical memory
 - Disk space for full installation: 5 GB
- Up to 100,000 jobs, 50 concurrent users
 - 2 GHz processor with 4 free cores
 - 8 GB free physical memory
 - Disk space for full installation: 10 GB
- Up to 200,000 jobs, 100 concurrent users
 - 2 GHz processor with 4 free cores
 - 16 GB free physical memory
 - Disk space for full installation: 10 GB

System Requirements for CA Workload Automation iXp Client

To run CA Workload Automation iXp Release 11.3.5 client, the following requirements must be met:

- 2 GHz processor
- 500 MB free physical memory

Additional requirements that depend on the type of deployment are as follows:

- Up to 50,000 jobs
 - 500 MB free physical memory
- Up to 100,000 jobs
 - 750 MB free physical memory

- Up to 200,000 jobs
 - 1 GB free physical memory

The iXp user interface is designed to support a minimum screen resolution of 1280 x 720, but higher resolutions are suggested for optimal experience.

Chapter 5: Upgrade Considerations

This chapter documents upgrade considerations for this release.

To upgrade your current version of iXp to CA Workload Automation iXp Release 11.3.5, use the following procedures.

Upgrade from iXp v7.1-r1 or Lower

Follow these steps:

1. Download the ISO image of CA Workload Automation iXp 11.3.5 and CA Workload Automation iXp 11.3.5 CA Third-Party Requirements.
2. Stop the iXp Tomcat server process.
3. Mount the ISO image for CA Workload Automation iXp 11.3.5 CA Third-Party Requirements or extract the files contained in the ISO image to a temporary directory.
4. Go to the mount point or directory where files were extracted and run “installer.sh” (UNIX) or “installer.bat” (Windows). Agree to the terms of the license agreement.
5. On UNIX/Linux, extract the tar file “ixp-thirdPartyLib-11.3.5.X.tar” from the ISO image to the “lib” directory under the Tomcat’s home directory, where “X” is the latest build number.

On Windows, extract the zip file “ixp-thirdPartyLib-11.3.5.X.zip” to the “lib” directory under Tomcat’s home directory.

6. Mount the ISO image for CA Workload Automation iXp 11.3.5 or extract the files contained in the ISO image to a temporary directory.
7. On UNIX/Linux, back up the current \$IXP_HOME/dat, \$IXP_HOME/etc, \$IXP_HOME/lib, and \$IXP_HOME/webapps directories.

On Windows, back up the current %IXP_HOME%\dat, %IXP_HOME%\etc, %IXP_HOME%\lib, and %IXP_HOME%\webapps directories.

8. On UNIX/Linux, extract the tar file “ixp-upgrade-11.3.5.X.tar” from the ISO image to the \$IXP_HOME directory.

On Windows, extract the zip file “ixp-upgrade-11.3.5.X.zip” to the %IXP_HOME% directory.

9. Copy the new “ixp.war” file from the “webapps” directory under iXp’s home directory to the “webapps” directory under Tomcat’s home directory.

10. Delete the existing “ixp” directory from the “webapps” directory under Tomcat’s home directory.
11. Follow the steps listed in sections [Run Upgrade Scripts](#) and [Update Instance Environment Files from v7.1 SP1 or Lower](#) , depending on your existing version of iXp, and then start the Tomcat process.

Upgrade from CA Workload Automation iXp v7.1 SP1 or Higher

Follow these steps:

1. Download the ISO image of CA Workload Automation iXp 11.3.5.
2. Stop the iXp Tomcat server process.
3. Mount the ISO image for CA Workload Automation iXp 11.3.5 or extract the files contained in the ISO image to a temporary directory.
4. On UNIX/Linux, back up the current \$IXP_HOME/dat, \$IXP_HOME/etc, \$IXP_HOME/lib, and \$IXP_HOME/webapps directories.

On Windows, back up the current %IXP_HOME%\dat, %IXP_HOME%\etc, %IXP_HOME%\lib, and %IXP_HOME%\webapps directories.
5. On UNIX/Linux, extract the tar file “ixp-upgrade-11.3.5.X.tar” from the ISO image to the \$IXP_HOME directory, where “X” is the latest build number.

On Windows, extract the zip file “ixp-upgrade-11.3.5.X.zip” to the %IXP_HOME% directory.
6. Copy the new “ixp.war” file from the “webapps” directory under iXp’s home directory to the “webapps” directory under Tomcat’s home directory.
7. Delete the existing “ixp” directory from the “webapps” directory under Tomcat’s home directory.
8. Follow the steps listed in sections [Run Upgrade Scripts](#) and [Update Instance Environment Files from v7.1 SP1 or Lower](#) , depending on your existing version of iXp, and then start the Tomcat process.

Run Upgrade Scripts

Upgrade from v6.0 or Lower

You will have to run the upgrade script “ixp-upgrade-6.1.pl”, which is located in the “contrib” directory. This script will enable one or more of the following privileges for any or all users and/or groups:

- GLOBAL READ: Ability to see Global Variables based on their names and instances.

- GLOBAL DELETE: Ability to delete Global Variables based on similar criteria.
- GLOBAL UPDATE: Ability to update Global Variables based on similar criteria.
- CALENDAR READ: Ability to see Calendar dates based on their names and instances.
- CALENDAR UPDATE: Ability to update Calendar dates based on similar criteria.
- MACHINE USE: Ability to define a job to run on machines based on their names and instances.
- MACHINE EDIT: Ability to define or edit machine definitions based on similar criteria.

The *CA Workload Automation iXp Administration Guide* provides additional details about these privileges. By default, all of the above privileges are disabled for existing users. When a new user gets created, these privileges will be disabled also.

The syntax of this script is as follows:

```
perl ixp-upgrade-6.1.pl [-U <user list>] [-G <group list>]
    [-m <machine permissions>] [-c <cal permissions>] [-g <global permissions>]
```

where

- You must have at least one of -U or -G
- User and group lists may be *ALL*
- You must have at least one of -c or -g or -m
- <machine permissions>: any of use, update, *ALL*
- <cal permissions>: any of read, update, *ALL*
- <global permissions>: any of read, update, delete, *ALL*

For example, you could run any of the following script variations:

```
perl ixp-upgrade-6.1.pl -G ALL -g read -c read -m use
perl ixp-upgrade-6.1.pl -G Production_Group -g ALL -c ALL -m ALL
perl ixp-upgrade-6.1.pl -U ALL -g read -c ALL -m ALL
```

Upgrade from v6.1-r2 or Lower

You will have to run the upgrade script “ixp-upgrade-6.1r3.pl”, which is located in the “contrib” directory. This script will enable one or more of the following privileges for any or all users and/or groups:

- JOB_ALARM_READ: Enables users to see alarms related to their jobs.
- INSTANCE_ALARM_READ: Enables users to see alarms related to their instances.
- JOB_LOG_READ: Enables users to read STDOUT/STDERR, log files for their jobs.
- JOB_SCRIPT_READ: Enables users to read Command Script files for their jobs.

The *CA Workload Automation iXp Administration Guide* provides additional details about these privileges.

By default, the Alarm-related privileges will be set to “true” for all existing users. When a new user gets created, these privileges will be set to “false”.

By default, the Log File related privileges will be set to “false” for all existing users. When a new user gets created, these privileges will be set to “false” too.

If you would like to explicitly enable any of the above privileges for any or all users and/or groups, you can use the script “ixp-upgrade-6.1r3.pl” in the “contrib” directory under the main iXp directory.

The syntax of this script is as follows:

```
perl ixp-upgrade-6.1r3.pl [-U <user list>] [-G <group list>]
  [-l <Log File permissions>] [-a <Alarm Read permissions>]
```

where

- You must have at least one of -U or -G
- User and group lists may be ALL
- You must have at least one of -l or -a
- <Log File permissions>: any of logs, scripts, ALL
- <Alarm Read permissions>: any of jobs, instances, ALL

For example, you could run any of the following script variations:

```
perl ixp-upgrade-6.1r3.pl -G ALL -l logs
perl ixp-upgrade-6.1r3.pl -G Production_Group -a ALL -l ALL
perl ixp-upgrade-6.1r3.pl -U ALL -a jobs -l logs
```

The Job Detail View is now formatted differently. As a result, it is active and operational only when its width meets the minimum requirements. The user properties file has to be modified to allocate this new minimum width to the Job Detail View.

Run the following script to update the user property files with the new Job Detail View dimensions:

```
perl ixp-detailview-upgrade.pl <width>
```

where

<width> = Minimum width for the Job Detail View (recommended value is 340)

For example, you could run the following script variation:

```
perl ixp-detailview-upgrade.pl 340
```

Upgrade from v6.1-r3-b11 or Lower

A new security privilege for users and groups has been added as follows:

- **JOB_DETAIL_FILTER**: Enables users to see and search by certain job attributes , such as owner, machine, command.

The **JOB_READ** privilege is now modified to show just the run and status information, along with the job attributes not covered by the **JOB_DETAIL** privilege.

To maintain the privileges as they were in the previous versions, you can run the upgrade script “ixp-upgrade-62.pl” in the “contrib” directory. This script copies the existing **JOB_READ** settings to the new **JOB_DETAIL** privilege.

The syntax for the script is as follows:

```
perl ixp-upgrade-62.pl [-U] [-G]
```

where

[-U] : Copy the settings for all users

[-G] : Copy the settings for all groups

For example, you could run the following script variation:

```
perl ixp-upgrade-62.pl -U -G
```

Also, a new column has been added to the Job Console View. As a result, the props file for certain users will have to be modified to account for an additional column. To do so, you can run the upgrade script “ixp-upgrade-props-62.pl” in the “contrib” directory.

The syntax for the script is as follows:

```
perl ixp-upgrade-props-62.pl
```

The script will print out the names of users that were modified during execution.

Upgrade from v6.2 or Lower

There are two scripts in the “contrib” directory that should be run to upgrade existing iXp filters and Instance configuration files.

The existing iXp filter files have to be modified to support the new statuses that were introduced in CA Workload Automation AE r11.3. This script should be executed, even if your environment does not include CA Workload Automation AE r11.3 or Release 11.3.5.

The syntax of the script is as follows:

```
perl ixp-updatefilters-70.pl
```

A new field has been added to the CA Workload Automation AE Instance files as follows:

- **IXP_INSTANCE_DATABASE_VENDOR**: Specifies the type of database being used for CA Workload Automation AE. Supported values are Oracle, Sybase, SQL Server

Also, an existing field in that file has been modified as follows:

- **IXP_INSTANCE_VERSION**: Specifies the version of CA Workload Automation AE. Supported values are 4.0,4.5,11.0,11.3, 11.3.5, 11.3.6.

The upgrade script modifies the **IXP_INSTANCE_VERSION** to the newly supported values, and adds the database vendor field.

The syntax of the script is as follows:

```
perl ixp-updateInstances-70.pl
```

The script will print out the names of the Instance files that were modified.

Upgrade from v7.2 or Lower

There is one script in the “contrib” directory that should be run to upgrade existing iXp filters, reports, and user properties files.

The existing iXp filters, reports and user properties files have to be modified to support a new **JOB_ON_NOEXEC** that was introduced in CA Workload Automation AE Release 11.3.5. The script should be executed even if your environment does not include CA Workload Automation AE Release 11.3.5 or Release 11.3.6.

The syntax of the script is as follows:

```
perl ixp-updatefiles-1135.pl
```

Update Instance Environment Files from v7.1 SP1 or Lower

If you are running CA Workload Automation AE with an Oracle database, follow these steps after running the required upgrade scripts:

1. Go to “\$IXP_HOME/etc/instance” (UNIX) or “%IXP_HOME%\etc\instance” (Windows).
2. For each “*INST*.env” file in this directory, where *INST* is the three-letter name of a CA Workload Automation AE instance, change the value of the **CLASSPATH** variable and replace the fully qualified location of the “classes12.jar” file with the fully qualified location of the “ojdbc5.jar” file.

The fully qualified location of “ojdbc5.jar” file is
“CATALINA_HOME/webapps/ixp/WEB-INF/lib/ojdbc5.jar” (UNIX) or
“CATALINA_HOME\webapps\ixp\WEB-INF\lib\ojdbc5.jar” (Windows), where
CATALINA_HOME is the base directory where the Tomcat software is located.

Note: The preceding step is needed since CA Workload Automation iXp Release 11.3.5 does not include the “classes12.jar” file any more. Instead, it includes the “ojdbc5.jar” file. Therefore, any references to “classes12.jar” have to be replaced.

If you are running CA Workload Automation AE with a Sybase database, follow these steps:

1. Start the Tomcat process. You will not be able to see any jobs in the GUI yet.
2. Open the Admin Tool and click the “Instance” tab.
3. Select the CA Workload Automation AE instance running with a Sybase database.
4. Change the JDBC driver from “com.sybase.jdbc3.jdbc.SybDriver” to “net.sourceforge.jtds.jdbc.Driver”.
5. Click the “Database” subtab. For each database connection listed in the subtab, change the beginning of each URL from “jdbc:sybase:Tds:” to “jdbc:jtds:sybase://”.
6. Save and repeat for other instances running with a Sybase database.
7. Restart the Tomcat process.

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