CA Workload Automation iXp

Release Notes

Release 7.2

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Chapter 1: Changes to the Existing Features

This chapter describes changes made to existing features of the product.

New Admin Tool setting: Instance->GUI->Maximum Alarm Response Length

This setting limits the number of characters for each alarm response entered in the iXp Alarm Manager. If users are entering multiple responses for the same alarm, the aggregated response values cannot exceed 255 characters.

New Admin Tool setting: Instance->Database->Row Prefetch

The number of rows that is fetched at a time by the Oracle JDBC driver when performing any database query. The default value is 10. If you notice that the iXp server is experiencing slow data retrieval times, we recommend setting it to 1000.

Managing Extended Calendars and Cycles for r11.0 and Higher Versions of Unicenter AutoSys JM

Users can now use the calendar editor to create, modify, and delete extended calendars and cycles for Unicenter AutoSys JM v11.0 and higher.

Calendar Editor Shows “12 months” of Current Calendar Year

The calendar editor now shows dates across all 12 months of the current calendar year.

Improved Handling of CA Workload Automation AE Database Rollover, Rollback, and Hung Database Connections

The iXp Daemon checks multiple tables and values in the CA Workload Automation AE database to support automatic handling of database rollover and rollback. Additionally, if the connection to the preferred database from which the iXp Daemon is fetching data is hung, the iXp Daemon automatically starts retrieving data from the other active database. The iXp Daemon periodically tries to switch back to the preferred database.

Support for MACH_OFFLINE and MACH_ONLINE Events in “ixsendevent” Command and File->Sendevent Menu Option

Users can now issue or cancel MACH_ONLINE and MACH_OFFLINE events from the File->Sendevent menu option and the “ixsendevent” command. The “Machine Edit” privilege governs these events.

The iXp Job Detail and Flow View Support “lookback” Starting Conditions

The Job Detail and Flow views support “lookback” settings in starting conditions when displaying the atomic conditions of jobs.

Support for Java 7 and Tomcat 7

Users can now run the iXp GUI with Java 7. The iXp Daemon can now be started with Java 7 or Tomcat 7.

Bug Fixes

- iXp was not properly handling jobs with certain starting conditions related to global variables.
- Deleting job overrides in Unicenter AutoSys JM r11.0 and higher was not working.

Chapter 2: Upgrade Considerations

To upgrade your current version of iXp to CA Workload Automation iXp v7.2, perform the following steps:

Upgrading from iXp v7.1-r1 or lower

1. Download the ISO image of CA Workload Automation iXp v7.2 and CA Workload Automation iXp Third-Party Requirements.
2. Stop the iXp Tomcat server process.
3. Mount the ISO image for CA Workload Automation iXp 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-7.2.0.tar” from the ISO image to the "lib" directory under Tomcat. On Windows, extract the zip file “ixp-thirdPartyLib-7.2.0.zip” to the “lib” directory under Tomcat.
6. Mount the ISO image for CA Workload Automation iXp v7.2 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-7.2.0.tar” from the ISO image to the $IXP_HOME directory. On Windows, extract the zip file “ixp-upgrade-7.2.0.zip” to the %IXP_HOME% directory.
9. Follow the steps listed in sections Running Upgrade Scripts and Updating Instance Environment Files, depending upon your existing version of iXp, and then start the Tomcat process.

Upgrading from CA Workload Automation iXp v7.1 SP1

1. Download the ISO image of CA Workload Automation iXp v7.2.
2. Stop the iXp Tomcat server process.
3. Mount the ISO image for CA Workload Automation iXp v7.2 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-7.2.0.tar” from the ISO image to the $IXP_HOME directory. On Windows, extract the zip file “ixp-upgrade-7.2.0.zip” to the %IXP_HOME% directory.
6. Follow the steps listed in sections Running Upgrade Scripts and Updating Instance Environment Files, depending upon your existing version of iXp, and then start the Tomcat process.

Running Upgrade Scripts

Upgrading from v6.0 or Lower

If you are upgrading from iXp v6.0.x or lower, you will have to first run the upgrade script "ixp-upgrade-6.1.pl", which is located in the same "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 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 as well.

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>*]

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

For example,

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

Upgrading from v6.1-r2 or Lower

If you are upgrading from v6.1-r2 or lower, you will have to run the upgrade script “ixp-upgrade-6.1r3.pl”, which is located in the same “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 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>*]

Must have at least one of -U or -G
user and group lists may be *ALL*
Must have at least one of -l or -a
<Log File permissions> are any of
logs, scripts, ALL
<Alarm Read permissions> are any of
jobs, instances, ALL

For example,

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,

perl ixp-detailview-upgrade.pl 340

Upgrading 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,

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.

Upgrading from v6.2

There are two scripts that should be run to upgrade existing iXp filters and Instance configuration files.

The existing iXp filter files have to be modified to support new r11.3 statuses. This script should be executed, even if your environment does not include r11.3. 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 4.0,4.5,11.0.11.1,11.3

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.

Updating Instance Environment Files

If you are running CA Workload Automation AE with an Oracle database, perform the following 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 "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 v7.2 does not include "classes12.jar" file any more. Instead, it includes the "ojdbc5.jar" file. So any references to "classes12.jar" have to be replaced.

If you are running CA Workload Automation AE with a Sybase database, perform the following steps**:**

1. Start the Tomcat process. You will not be able to see any jobs in the GUI yet.
2. Launch the Admin Tool and go to 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. Go to 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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