

CA Workload Automation DE

Release Notes

r11.3 SP3



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CA Technologies Product References

This document references the following CA Technologies products:

- CA Process Automation
- CA Spectrum® Service Assurance (CA Spectrum SA)
- CA Workload Automation AE
- CA Workload Automation Agent for Application Services (CA WA Agent for Application Services)
- CA Workload Automation Agent for Databases (CA WA Agent for Databases)
- CA Workload Automation Agent for i5/OS (CA WA Agent for i5/OS)
- CA Workload Automation Agent for Informatica (CA WA Agent for Informatica)
- CA Workload Automation Agent for Linux (CA WA Agent for Linux)
- CA Workload Automation Agent for Micro Focus (CA WA Agent for Micro Focus)
- CA Workload Automation Agent for Microsoft SQL Server (CA WA Agent for Microsoft SQL Server)
- CA Workload Automation Agent for Oracle E-Business Suite (CA WA Agent for Oracle E-Business Suite)
- CA Workload Automation Agent for PeopleSoft (CA WA Agent for PeopleSoft)
- CA Workload Automation Agent for Remote Execution (CA WA Agent for Remote Execution)
- CA Workload Automation Agent for SAP (CA WA Agent for SAP)
- CA Workload Automation Agent for UNIX (CA WA Agent for UNIX)
- CA Workload Automation Agent for Web Services (CA WA Agent for Web Services)
- CA Workload Automation Agent for Windows (CA WA Agent for Windows)
- CA Workload Automation CA 7 Edition
- CA Workload Automation DE
- CA Workload Automation DE Web Client
- CA Workload Automation Desktop Client (CA WA Desktop Client)
- CA Workload Automation ESP Edition
- CA Workload Automation High Availability DE (CA WA High Availability)
- CA Workload Automation Restart Option EE (CA WA Restart Option)
- CA Workload Automation Web Services (CA WA Web Services)
- CA Workload Control Center (CA WCC)

Contact CA Technologies

Contact CA Support

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- Product and documentation downloads
- CA Support policies and guidelines
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Documentation Changes

In addition to this Release Notes, the following deliverables have been updated since the last release:

- Admin Perspective Help
- Define Perspective Help
- Implementation Guide
- Monitor Perspective Help
- Programming Guide
- Report Perspective Help
- Services Perspective Help

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Chapter 1: Welcome

Welcome to CA Workload Automation DE. This document includes information about changes to existing features, a complete list of fixed issues, supported platform information and system requirements, and known issues for this release, if any.

Upgrading CA Workload Automation DE to r11.3 SP3 Using a Patch

If you are using CA Workload Automation DE r11.3 or higher, you can upgrade the server and CA WA Desktop Client to r11.3 SP3 using patches.

You can find the latest CA Workload Automation DE solutions and patches on CA Support Online:

<https://support.ca.com/irj/portal/anonymous/phpsupcontent?contentID=7e52789e-ab05-4dea-b58b-a4925a7f4beb&productID=7833>

On Windows, the patch files are .caz files. On UNIX, the patch files are tar.Z files.

Notes:

- If you are using an older version (r5.0.3 or r11.1), install CA Workload Automation DE r11.3 SP3 and use the migration utility to migrate the data from the older version to r11.3 SP3. For more information about the migration utility, see the *Implementation Guide*.
- The patches do not upgrade the default agent from r11.3 or higher to r11.3 SP4. You must [upgrade the default agent manually](#).

Upgrade the Server to r11.3 SP3 on Windows

If you are using CA Workload Automation DE r11.3 or higher on Windows, you can upgrade the server to r11.3 SP3 using a patch.

Note: If CA WA High Availability is configured, do the following as appropriate:

- (r11.3) Complete each step on both Primary and Standby servers before going to the next step.
- (r11.3 SP1 and r11.3 SP2) Complete all the steps on the Primary server, start the Primary server, and then repeat all the steps on the Standby server.

Follow these steps:

1. Stop the server.
2. Unpack the supplied .caz file into a temporary location, such as C:\temp\patch:
CAZIPXP -u *patch.caz*

patch

Specifies the name of the patch file.

Note: The CAZIPXP utility must reside in the same directory as the .caz file. You can download the CAZIPXP utility from CA Support Online at <https://support.ca.com/irj/portal/phpsupcontent?contentID=cb74d332-823b-427e-a6de-811dc2183fb1&fromKBResultsScreen=T>.

3. Copy the following extracted files to the server installation directory:

11.3.3.0_build_xxxx_update.zip
11.3.3.0_build_xxxx_update.zip.MD5

xxxx

Specifies the build number of the patch file.

4. Change to the following directory at the command prompt:

install_dir\bin

install_dir

Specifies the server installation directory.

5. Verify the integrity of the server patch file by running the following command:

```
MD5Checksum.bat "install_dir\11.3.3.0_build_xxxx_update.zip"
```

The MD5Checksum utility runs. If you receive a failure message, download the patch file again.

6. Unzip the 11.3.3.0_build_xxxx_update.zip file into the server installation directory.

7. Change to the following directory:

install_dir\update

8. Run the upgrade patch using *one* of the following commands:

- In interactive mode:

update.bat [-licenseAccepted]

- In silent mode:

update.bat -silent -licenseAccepted

Note: If you use the -licenseAccepted option, the license agreement is not shown. Before running the upgrade patch with the -licenseAccepted option, review the license agreement (LICENSES.txt) in the *install_dir*\update\other_libraries directory.

The patch upgrades the server to r11.3 SP3 and also updates the JRE to version 1.7 on all Windows platforms.

Upgrade the Server to r11.3 SP3 on UNIX

If you are using CA Workload Automation DE r11.3 or higher on UNIX, you can upgrade the server to r11.3 SP3 using a patch.

Note: If CA WA High Availability is configured, do the following as appropriate:

- (r11.3) Complete each step on both Primary and Standby servers before going to the next step.
- (r11.3 SP1 and r11.3 SP2) Complete all the steps on the Primary server, start the Primary server, and then repeat all the steps on the Standby server.

Follow these steps:

1. Stop the server.
2. (z/Linux systems only) Complete the following steps:
 - a. Change to the server installation directory.
 - b. Remove the existing soft link for the JRE using one of the following commands:

```
rm jre
unlink jre
```
 - c. Install the latest version of JRE 1.7.

Note: Before installing the server on z/Linux, you must install the following JRE versions on your system:

- For the server—31-bit JRE 1.7.0 SR5 or higher
- For the default agent—31-bit JRE 1.6 SR8 or higher

The installation program prompts for the location of the JRE for the server and default agent.

- d. Create a soft link that points to the installed JRE 1.7:

```
ln -sf installedPath jre
```

installedPath

Specifies the full path to the JRE 1.7 that you installed in the previous step.

Example: `ln -sf /opt/ibm/java-s390-70/jre jre`

3. Unpack the supplied tar.Z file into a temporary location, such as /tmp:

```
cd /tmp
uncompress < patch.tar.Z | tar xvf -
```

patch

Specifies the name of the patch file.

4. Copy the following extracted files to the server installation directory:

```
11.3.3.0_build_xxxx_update.tar.gz
```

11.3.3.0_build_xxxx_update.tar.gz.MD5

xxxx

Specifies the build number of the patch file.

5. Change to the following directory at the command prompt:

```
install_dir/bin
```

install_dir

Specifies the server installation directory.

6. Verify the integrity of the server patch file by running the following command:

```
MD5Checksum.sh "install_dir/11.3.3.0_build_xxxx_update.tar.gz"
```

The MD5Checksum utility runs. If you receive a failure message, download the patch file again.

7. Unpack the extracted tar.gz file into the server installation directory:

```
gunzip 11.3.3.0_build_xxxx_update.tar.gz
```

```
tar -xvf 11.3.3.0_build_xxxx_update.tar
```

8. Change to the following directory:

```
install_dir/update
```

9. Enter the following command to provide execute permission to the UNIX shell scripts:

```
chmod a+x *.sh
```

10. Run the upgrade patch using *one* of the following commands:

- In interactive mode:

```
update.sh [-licenseAccepted]
```

- In silent mode:

```
update.sh -silent -licenseAccepted
```

Note: If you use the `-licenseAccepted` option, the license agreement is not shown. Before running the upgrade patch with the `-licenseAccepted` option, review the license agreement (LICENSES.txt) in the `install_dir/update/other_libraries` directory.

The patch upgrades the server to r11.3 SP3 and also updates the JRE to version 1.6 on HP-UX PA-RISC platform and version 1.7 on the remaining UNIX platforms. This patch does not update the JRE on z/Linux.

Upgrade CA WA Desktop Client to r11.3 SP3

If you are using CA Workload Automation DE r11.3 or higher, you can upgrade CA WA Desktop Client to r11.3 SP3 using a patch.

Important! After you upgrade CA WA Desktop Client to r11.3 SP3, you cannot downgrade it to previous releases of r11.3.

Follow these steps:

1. Download and unpack the supplied .caz file into a temporary location, such as C:\temp\patch:

```
CAZIPXP -u patch.caz
```

patch

Specifies the name of the patch file.

2. Extract the CAWADesktopClientUpdate_11.3.3.0.timestamp_build_patch1.zip file to the update location used for automatic patch updates and apply the patch. To apply the patch, follow these steps:

- a. Open CA WA Desktop Client.
- b. Click Help, Check for Updates.

The Available Updates dialog opens.

- c. Click Finish.
 - d. Click Restart Now to restart CA WA Desktop Client.
3. Verify that CA WA Desktop Client is closed.
 4. Extract the CAWADesktopClientUpdate_11.3.3.0.timestamp_build_patch2.zip file to the following directory.

```
install_dir\update
```

install_dir

Specifies the CA WA Desktop Client installation directory.

5. Change to the following directory at the command prompt:

```
install_dir\update
```

6. Run the following command to update the JRE:

```
update.bat
```

Notes:

- Run the following command for the silent update of the JRE and acceptance of the end-user license agreement:

```
update.bat -licenseAccepted
```

- To find more information about the update.bat command, run the following command:

```
update.bat --help
```

Notes:

- CA WA Desktop Client patches are made available as ZIP archives and can only be applied through automatic updates. For more information about applying CA WA Desktop Client patches, see the *Admin Perspective Help*.
- If you get a dependency error when applying the patch, complete the following steps:
 - a. Close CA WA Desktop Client.
 - b. Right-click the program shortcut or executable file that you use to launch CA WA Desktop Client, and select the Run as Administrator option.
 - c. Apply the patch as described in the Admin Perspective Help.

Uninstall a Server Patch

If you update the server using a patch, you can uninstall the patch using an uninstallation script. After you uninstall the patch, the server reverts to the previous version.

Notes:

- You can use the patch uninstallation script only for r11.3 or later versions of CA Workload Automation DE.
- If CA WA High Availability is configured, you must complete these steps on both Primary and Standby servers.

Follow these steps:

1. Stop the server.
2. Change to the following directory at the command prompt:

- On Windows:

```
install_dir\backup_dir
```

- On UNIX:

```
install_dir/backup_dir
```

install_dir

Specifies the server installation directory.

backup_dir

Specifies the backup directory that was created when you applied the patch. A separate backup directory is created for each patch update.

3. Run the following command:

- On Windows:

```
uninstall.bat
```

- On UNIX:

```
uninstall.sh
```

Note: The patch uninstallation file is copied to the backup directory automatically when you apply a patch. If the uninstallation file is missing from the backup directory, first copy the uninstallation file that was included as part of the patch files to the backup directory.

4. Follow the prompts to complete the uninstallation.

The patch is uninstalled successfully. You can now restart the server.

Note: If the patch uninstallation fails, review the error message to resolve the problem and then retry uninstalling the server patch. If the problem persists, contact CA Support.

Update the JRE for CA WA Desktop Client

CA WA Desktop Client includes a specific release of the 32-bit JRE. To address security vulnerabilities, you can update the JRE of CA WA Desktop Client to the latest update version within the same release. For example, this release of CA WA Desktop Client includes JRE 1.7.0_72. You can use this procedure to update the JRE to the latest available update version of JRE 1.7.

Follow these steps:

1. Download the appropriate 32-bit JRE update version.
2. Install or extract the downloaded 32-bit JRE files to a temporary location, for example, C:\Program Files (x86)\Java\jre7.
3. Verify that CA WA Desktop Client is closed.
4. Rename the *desktopclient_install_dir\jre* directory as follows:

desktopclient_install_dir\jre.bak

desktopclient_install_dir

Specifies the CA WA Desktop Client installation directory.

5. Create the *jre* directory in the following location:
desktopclient_install_dir
6. Copy all the files and folders from the temporary location or JRE installation directory into the *desktopclient_install_dir\jre* directory that you created.
7. Start CA WA Desktop Client by running the CAWADesktopClient.exe file in the following location:

desktopclient_install_dir

The JRE of CA WA Desktop Client is now updated with the latest version within the same release.

Chapter 2: New Features

This chapter documents the new features added in CA Workload Automation DE r11.3 SP3.

This section contains the following topics:

[Retrieving and Authenticating Users of LDAP Groups](#) (see page 21)

[Notifying Users When a z/OS Job Step Completes](#) (see page 21)

[Automating Resubmission of a Failed z/OS-Regular Job from a Specific Step](#) (see page 22)

[Enhancements to FTP and SFTP Jobs](#) (see page 22)

Retrieving and Authenticating Users of LDAP Groups

The CA Workload Automation DE server now lets you retrieve and authenticate users of LDAP groups. Suppose that your LDAP server directory contains CA Workload Automation DE users and other users. This feature lets you retrieve and authenticate only CA Workload Automation DE users to CA WA Desktop Client. You can retrieve the CA Workload Automation DE users from multiple groups.

Note: For more information about retrieving and authenticating users of LDAP groups, see the *Admin Perspective Help*.

Notifying Users When a z/OS Job Step Completes

You can now set up notifications to notify users every time a step is completed in a z/OS-Manual or z/OS-Regular job. In the notification, you can use symbolic variables to identify the steps and completion codes for that execution.

Note: For more information about notifying users when a z/OS job step completes, see the *Define Perspective Help*.

Automating Resubmission of a Failed z/OS-Regular Job from a Specific Step

You can now automate the resubmission of a failed z/OS-Regular job from a specific step. You can specify multiple step conditions. Every time a job fails, it is resubmitted automatically based on the retry count and step conditions.

Note: For more information about resubmitting a failed z/OS-Regular job from a specific step automatically, see the *Define Perspective Help*.

Enhancements to FTP and SFTP Jobs

The following enhancements have been made to FTP and SFTP jobs:

- Support for the ASCII transfer mode in SFTP jobs. In previous releases, SFTP jobs supported only binary transfers. FTP jobs already support binary and ASCII transfers.
- Ability to specify the user (Run as user) that runs the job on behalf of the agent user. This enhancement lets FTP and SFTP jobs access remote network resources that the agent user does not have access to.

Note: To use this feature in CA Workload Automation Agents r11.3 SP4, install [r11.3 SP4 Incremental 1](#). CA Workload Automation Agents r11.3 SP4 is a prerequisite for installing r11.3 SP4 Incremental 1.

- Support for public-key authentication to the SFTP server. In previous releases, SFTP jobs supported only user authentication. In an SFTP job, you can specify an FTP user ID (user authentication), a private key file (public-key authentication), or both (multifactor authentication).

Note: For more information about these enhancements, see the *Define Perspective Help*.

Chapter 3: Changes to Existing Features

This chapter documents changes made to existing features in CA Workload Automation DE r11.3 SP3.

This section contains the following topics:

[Downgrading CA WA Desktop Client to Previous Releases of r11.3 is Not Supported](#) (see page 23)

[Removal of the Page Order Printing Option](#) (see page 23)

Downgrading CA WA Desktop Client to Previous Releases of r11.3 is Not Supported

If you upgrade CA WA Desktop Client from r11.3 or higher to r11.3 SP3 using a patch, you cannot uninstall the patch and downgrade CA WA Desktop Client to previous releases of r11.3.

Removal of the Page Order Printing Option

The Page order feature lets you specify a page ordering pattern (down, then over or over, then down) when you print 4 or more pages.

In this release, the Page order section in the Page Setup dialog is removed. We now support only the over, then down page ordering pattern.

Chapter 4: Known Issues

This chapter details the known issues in CA Workload Automation DE r11.3 SP3.

This section contains the following topics:

[Incorrect Tooltip is Shown for the Agent Status Pie Chart and Load Factor Distribution Chart](#) (see page 25)

[Microsoft Internet Explorer Security Update Patch KB2977629 Sometimes Causes CA WA Desktop Client to Terminate Abruptly](#) (see page 25)

Incorrect Tooltip is Shown for the Agent Status Pie Chart and Load Factor Distribution Chart

Due to a known issue in BIRT Charts v2.6.1, the agent status pie chart in the System Dashboard view in the Monitor perspective and the load factor distribution chart in the Admin perspective are rendered with imprecise tooltips. Hence, an incorrect tooltip is shown when you hover your mouse to an adjacent sector on the chart.

Microsoft Internet Explorer Security Update Patch KB2977629 Sometimes Causes CA WA Desktop Client to Terminate Abruptly

If you have updated Microsoft Internet Explorer (IE) with the security patch KB2977629, sometimes CA WA Desktop Client terminates abruptly. You might see an exception access violation error message similar to the following in the log file:

```
EXCEPTION_ACCESS_VIOLATION (0xc0000005) at pc=0x42ff4778, pid=6792, tid=6192
```

To resolve this issue, we recommend that you update your IE with the latest security patch.

Chapter 5: Fixed Issues

This chapter details the issues that have been fixed in CA Workload Automation DE r11.3 SP3.

This section contains the following topics:

- [Force Completed Job Always Returns Zero Completion Code](#) (see page 27)
- [False Email Notification Sent When a File Trigger Event is Suspended](#) (see page 28)
- [Automatic Failover Does Not Occur When the Windows Computer Installed with the Primary Server Goes Down](#) (see page 28)
- [Unable to Update Existing Javascript in Services Perspective When Validation Error Occurs](#) (see page 28)
- [Invalid Character Appears in the Tag Field After Migration from r11.1 to r11.3](#) (see page 29)
- [Issues Resetting a Job Using the ESPmgr Command](#) (see page 29)
- [Job or Application Status Information Shows Inexact Time When Using Web Services](#) (see page 29)
- [Delays Connecting to the Server on AIX](#) (see page 30)
- [Server Fails to Process Multiple CLI Requests Simultaneously](#) (see page 30)
- [Unable to Retrieve Information for Jobs that Have Not Yet Started When Using Web Services](#) (see page 31)
- [MOVEHISTORYDATA CLI Command Causes Database Connection Leak](#) (see page 31)
- [Report Generation Fails With an Exit Code 1 on Solaris Due to Insufficient Java Heap Memory](#) (see page 31)
- [External Job Bound to a Wrong Home Job When Multiple Home Jobs Share the Same Name](#) (see page 32)
- [Unable to Add a New Server Connection in CA WA Desktop Client Due to Deadlock](#) (see page 32)
- [Subsequent File Triggers Do Not Work When a File Trigger Event is Put on Hold or Released](#) (see page 32)
- [Duplicate Event Triggers Occur After Server Restart or Issuing CHANGEROLE Command](#) (see page 33)
- [Server Restart or CHANGEROLE Command Takes Long Time Because of Stale Messages](#) (see page 33)
- [Unable to View Job Conditions Using the LISTAPPLICATION CLI Command](#) (see page 33)
- [Exception Error Occurs When Overriding the Average Execution Time of a Job](#) (see page 33)

Force Completed Job Always Returns Zero Completion Code

When you force complete a failed job, the job always returns the zero completion code.

This issue is fixed. The force completed job now retains the completion code of the failed status.

False Email Notification Sent When a File Trigger Event is Suspended

When you suspend a File Trigger Event, a false email notification is sent, indicating the failure of the Event suspension. This issue occurs when have EVENTX.* (Allow) and EVENT.* (Read) permissions.

This issue is fixed.

Automatic Failover Does Not Occur When the Windows Computer Installed with the Primary Server Goes Down

In a CA WA High Availability environment, automatic failover does not occur when the Windows computer that is installed with the Primary server is shut down. The Standby server does not take over the workload processing from the Primary server and the production environment stays idle until the Primary server is restarted.

This issue is fixed.

Unable to Update Existing Javascript in Services Perspective When Validation Error Occurs

By default, the Javascript editor in the Services perspective supports a maximum of 65536 characters. You can change the default value by modifying the Maximum length of javascript parameter in the Admin Topology in CA WA Desktop Client.

In this issue, when the maximum number of characters in the Javascript editor, validation error occurs. The Javascript editor does not let you update the existing Javascript even after you increase the maximum number of allowed characters.

This issue is fixed.

Invalid Character Appears in the Tag Field After Migration from r11.1 to r11.3

After you migrate artifacts from r11.1 to r11.3, sometimes an invalid character appears in the job's Tag field in the General page. The invalid character is an open or closed bracket without the percentage sign. When you edit the value in the Tag field, the following error message appears:

General: Entered value is not in a valid format

This issue is fixed.

Issues Resetting a Job Using the ESPmgr Command

When you reset a failed job using the ESPmgr command, the user ID of the job is replaced with the agent name. Hence, the job resubmission fails. The job goes into a SUBERROR state indicating that the user ID does not exist on the agent.

When the AFM for the RESETJOB action contains the HOLD keyword, the job is put on HOLD and is never released.

These issues are fixed.

Job or Application Status Information Shows Inexact Time When Using Web Services

When you retrieve the job or Application information using the getJobStatus or getApplicationStatus web services functions, inexact times are shown in the information, for example, 2014-04-11T00:00:00+02:00.

This issue is fixed. The start, end, and the scheduled times of a job or an Application are now shown correctly, for example, 2014-04-11T23:59:59+02:00.

Delays Connecting to the Server on AIX

When CA WA Desktop Client or the stand-alone Command Line Interface (CLI) utility tries to connect to the server, the server reads data from the socket. If no data is received from the socket, the server waits for two seconds before retrying to read data. In this issue, CA WA Desktop Client sometimes took several seconds to connect to the server.

After the fix, the default retry interval for reading data from the socket is set to 1 second. You can change the default retry interval to less than 1 second by configuring the `WSS_EMPTY_READ_RETRY_INTERVAL` property in the `server.properties` file. The default retry count for reading data from the socket is 30. You can change the default retry count by configuring the `WSS_MAX_EMPTY_READ_ATTEMPTS` property in the `server.properties` file.

For example, if you want to set the retry interval to 0.5 seconds, set the property values as follows. In this example, the server waits 0.5 second (500 milliseconds) between retries and closes the client socket connection after 60 retries.

```
WSS_EMPTY_READ_RETRY_INTERVAL=500
WSS_MAX_EMPTY_READ_ATTEMPTS=60
```

Server Fails to Process Multiple CLI Requests Simultaneously

When the server tries to process multiple CLI requests from the stand-alone Command Line Interface (CLI) utility simultaneously, sometimes CLI requests fail with one of the following error messages:

- Error: Missing mandatory argument: EVENT
- Parse error: EOF in list
- Parse error: Illegal start of identifier
- Parse error: Illegal identifier character
- Command not found:
- `java.lang.ArrayIndexOutOfBoundsException`

This issue is fixed. The server now correctly processes multiple CLI requests simultaneously.

Unable to Retrieve Information for Jobs that Have Not Yet Started When Using Web Services

When you use the `getJobStatus` web services function to retrieve information for jobs that are yet to start in an active Application, no information is returned. Job status information is returned only for jobs that are complete or running.

This issue is fixed. You can now retrieve job status information for all the jobs in an active Application regardless of the job status.

MOVEHISTORYDATA CLI Command Causes Database Connection Leak

When using the `MOVEHISTORYDATA` CLI command to move the history data in the database tables to stage tables, a database connection is not released to the database connection pool. In this issue, the database connection stayed open or idle. As a result, you could not use this connection for workload processing until you restarted or issued the `CHANGEROLE` command.

This issue is fixed.

Report Generation Fails With an Exit Code 1 on Solaris Due to Insufficient Java Heap Memory

When you allocate a maximum memory of 4 GB or more to the Java process for report generation and run a report, the report generation fails with an exit code 1 due to insufficient Java heap memory. In this issue, the Java process for report generation ran in 32-bit mode.

After the fix, the Java process for report generation now runs in 64-bit mode. You can allocate more heap memory to the Java process.

External Job Bound to a Wrong Home Job When Multiple Home Jobs Share the Same Name

When you define a home Application with two jobs of same name (for example, U1 without qualifier and U1.JP with qualifier), the external job binds to the wrong home job. In this issue, the external job triggered when the home job U1.JP completed, but the home job U1 was yet to start. The external job neglected the JOB_QUALIFIER column in the SQL query and bound to the wrong job U1.JP.

This issue is fixed.

Unable to Add a New Server Connection in CA WA Desktop Client Due to Deadlock

When you add a new server connection in CA WA Desktop Client, the connection gets timed-out after 30 seconds with the following error message:

```
20140708 13:54:01.157 [ws:connections] [INFO] WSS_reactor_8: Connection
closed (172.31.68.136:50903->10.4.20.102:7500)
java.io.EOFException
```

In this issue, the scheduler thread acquired a lock on the RelationalDatabaseManager object and waited for the database connection. At the same time, the workload processing thread held the database connection and waited for the RelationalDatabaseManager object. Hence, the server moved into a deadlock and the database connection could not be released to the database connection pool.

This issue is fixed.

Subsequent File Triggers Do Not Work When a File Trigger Event is Put on Hold or Released

When you hold or release a File Trigger Event, the subsequent file triggers do not work. Hence, the workloads were not processed.

This issue is fixed.

Duplicate Event Triggers Occur After Server Restart or Issuing CHANGEROLE Command

When you restart the server or issue the CHANGEROLE command, duplicate Event triggers occur. In this issue, the server retained the stale notification messages into the ESP_MANAGER_INQ table when the agent notified of an Event trigger during the server restart. Hence, the duplicate event triggers occurred for those AFMs.

This issue is fixed.

Server Restart or CHANGEROLE Command Takes Long Time Because of Stale Messages

When you restart the server or issue the CHANGEROLE command, it takes long time. In this issue, stale messages were retained in the ESP_MANAGER_OUTQ table. Hence, the workload processing was delayed or the Event execution was skipped.

This issue is fixed. The server now deletes all the stale messages immediately after they are processed.

Unable to View Job Conditions Using the LISTAPPLICATION CLI Command

When you issue the listapplication CLI Command, job conditions are not shown in the Application status information.

This issue is fixed.

Exception Error Occurs When Overriding the Average Execution Time of a Job

When you specify a job's execution time in the Execution time field in the Basic page and run the job, it throws an exception error. In this issue, the value in the Execution time field did not override the default value of the WOB._avgruntime symbolic variable that you specified in the Time dependencies page as an overdue or premature condition.

This issue is fixed.

Chapter 6: System Requirements

This section contains the following topics:

[CA Workload Automation DE Server](#) (see page 35)

[CA Workload Automation Desktop Client](#) (see page 38)

[Supported Databases](#) (see page 39)

[Disk Space Calculation](#) (see page 40)

[Supported Agents](#) (see page 41)

CA Workload Automation DE Server

The following table lists the minimum and recommended hardware requirements and software requirements for the CA Workload Automation DE server.

Notes:

- Based on your workload volume and environment, you may require additional disk space, a larger processor, and more memory than the minimum requirements.
- In the table below, the number of cores refers to the number of CPUs multiplied by the number of cores per CPU.
- A Java Runtime Environment (JRE) runs the server and default agent. The JRE is supplied with the server on all platforms except z/Linux. For z/Linux, install the required JRE versions. For the other platforms, do not change the JRE.
- The default agent that is packaged with the server is CA Workload Automation Agent for UNIX, Linux, or Windows r11.3 SP4. However, if you upgrade CA Workload Automation DE or higher to r11.3 SP3 using the patch, the default agent is not upgraded to r11.3 SP4. You must [upgrade the default agent manually](#).
- The following platforms have been certified at the time of General Availability (GA). Additional platforms are planned to be certified post GA. For current information regarding platform support, check the CA Workload Automation DE Support web page at <http://ca.com/support> and follow the CA Workload Automation Compatibility Information link under the Product Status section.

Platform	Minimum Hardware	Recommended Hardware	Operating System	JRE Version
AIX	IBM eServer P5 P550E 2 CPU cores, 1.5 GHz each 2 GB RAM 10 GB of disk space	IBM 8231-E2D Power 730 Express® Server 16 CPU Cores, 3.6 GHz each 8 GB RAM 40 GB of disk space	AIX 5.3, 6.1, or 7.1 (64-bit)	IBM JRE 1.7.0-SR7 (64-bit)
HP-UX PA-RISC	HP-9000 rp 3440-4 server 2 CPU cores, 1 GHz each 2 GB RAM 10 GB of disk space	HP rp 3440 server 4 CPU cores, 1 GHz each 4 GB RAM 20 GB of disk space	HP 11i v3 (PA-RISC) (64-bit)	HP-UX JRE 1.6.23 (HPUX_PA-RISC)
HP-UX IA	HP rx2660 2 CPU cores, 1 GHz each 4 GB RAM 20 GB of disk space	HP rx2660 4 CPU cores, 1 GHz each 4 GB RAM 20 GB of disk space	HP 11i v3 (Itanium 64-bit)	HP-UX JRE 1.7.0.10 (ia64)
Linux x86	Intel Xeon processor 2 CPU cores, 2.8 GHz each 2 GB RAM 10 GB of disk space	Intel Xeon processor 4 CPU cores, 2.8 GHz each 4 GB RAM 20 GB of disk space	Red Hat Enterprise Linux EA/AS 5 or 6 (32-bit) SUSE Linux Enterprise Server 10 (32-bit)	Oracle (formerly SUN) JRE 1.7.0_72 (32-bit)
			Note: You must have RPM package libXp-1.0.0-8.i386.rpm for Linux systems.	

Platform	Minimum Hardware	Recommended Hardware	Operating System	JRE Version
Linux x64	Intel Xeon processor 2 CPU cores, 2.8 GHz each 2 GB RAM 10 GB of disk space	Intel Xeon processor 4 CPU cores, 2.8 GHz each 4 GB RAM 20 GB of disk space	Red Hat Enterprise Linux EA/AS 5, 6, or 7 (64-bit) SUSE Linux Enterprise Server 10 (64-bit) Note: You must have RPM package libXp-1.0.0-8.i386.rpm for Linux systems.	Oracle (formerly SUN) JRE 1.7.0_72 (64-bit)
z/Linux (s390/zSeries)	4 GB RAM 10 GB of disk space	8 GB RAM 20 GB of disk space	Red Hat Enterprise z/Linux 5 or 6 (31- or 64-bit) SUSE z/Linux 10 or 11 (31- or 64-bit)	31-bit JRE 1.7.0 SR5 or higher for the server 31-bit JRE 1.6 SR8 or higher for the default agent Note: The JRE is not supplied with the server or default agent.
Solaris SPARC	Sun V440 UltraSPARC IIIi processor 2 CPU cores, 1.5 GHz each 2 GB RAM 10 GB of disk space	Sun V440 UltraSPARC IIIi processor 4 CPU cores, 1.5 GHz each 4 GB RAM 20 GB of disk space	Solaris 9 or 10 (64-bit)	Oracle (formerly SUN) JRE 1.7.0_72 (64-bit)

Platform	Minimum Hardware	Recommended Hardware	Operating System	JRE Version
Windows	Intel Xeon processor 2 CPU cores, 2.8 GHz each 2 GB RAM 10 GB of disk space	Intel Xeon processor 4 CPU cores, 2.8 GHz each 4 GB RAM 20 GB of disk space	Windows Server 2003 and R2 (32- or 64-bit), Enterprise Edition Windows Server 2008 and R2 (64-bit), Enterprise Edition Windows Server 2012 (64-bit), Standard Edition	Oracle (formerly SUN) JRE 1.7.0_72 (32- and 64-bit)

CA Workload Automation Desktop Client

The following table lists the system requirements for CA WA Desktop Client:

Component	Recommended Level
Operating system	Windows XP Professional - any supported version Windows Vista Business & Ultimate - any supported version Windows 7 Professional & Ultimate - any supported version Windows 8 Professional - any supported version Windows Server 2012 Standard - any supported version
JRE Version	JRE 1.7.0_72 (32-bit)
Processor	Intel Pentium, 1.0 GHz or higher
Memory	2 GB RAM or higher

Component	Recommended Level
Monitor	Video support for at least 256 colors at 1024x768 resolution
Network	Active IP connection to your CA Workload Automation DE server and a user ID that has authority to access it

Note: CA WA Desktop Client does not support CA Workload Automation ESP Edition functionality.

Supported Databases

CA Workload Automation DE supports the following databases:

- Oracle 10g R1 or R2, Oracle 11g R2, Oracle 11g RAC, and Oracle 12c
Note: On Oracle 12c, SSL is supported only on AIX and z/Linux platforms.
- Microsoft SQL Server 2005, 2008, and 2012 (with the CA Workload Automation DE server installed on all supported platforms except AIX and z/Linux)
- IBM DB2 9.1, 9.5, 9.7, and 10.1 (with the CA Workload Automation DE server installed on AIX and z/Linux only)

Database Requirements

The following table lists the disk space requirements for the database:

Requirement	Minimum Value
Disk space for software files	3 GB
Disk space for database files	16 GB

Notes:

- If you use a Microsoft SQL Server database, verify that the collation setting is set to be case insensitive.
- If you use an Oracle database, verify that the database uses an 8-bit ASCII character set. Non-ASCII characters sets such as Unicode are not supported.

Disk Space Calculation

Before you install CA Workload Automation DE, ensure that your database has the required disk space to handle your workload. To calculate the required disk space, use the following formula:

required disk space = initial storage space + database growth

initial storage space

Specifies the storage space (file size) required to initially set up the database to work with CA Workload Automation DE. We recommend that you set up the following initial storage space for your database:

- Trial environment—200 MB
- Production environment—1 GB

database growth

Specifies the storage space your database requires over time. To calculate the database growth, use the following formula:

Database growth = Number of jobs run per day x 13 KB x Number of days

where 13 KB is the maximum space required for a job based on testing.

Example

Suppose that you want to set up a database for a trial environment. You plan to run 500 jobs per day, everyday. You delete data from the database once a month to free space for future workload. To calculate the disk space required to handle growth per month, apply the following formula:

Database growth = 500 jobs run/day x 13 KB x 30 days

= approximately 200 MB

To calculate the overall disk space required for the database, apply the following formula:

Required disk space = Initial storage space + database growth

= 200 MB + 200 MB

= 400 MB

Supported Agents

CA Workload Automation DE supports the following agents and the supported agent plug-ins:

- CA WA Agent for UNIX, Linux, Windows, or i5/OS r11.3 (including all service packs up to SP4)
- ESP System Agent Release 7.0 for UNIX, Linux, Windows, and i5/OS

Appendix A: Acknowledgements

This appendix contains copyright and license agreement information from third-party software used in CA Workload Automation DE.

This section contains the following topics:

[Apache HTTP Web Server 2.2.22](#) (see page 46)
[Apache log4j 1.2.15](#) (see page 62)
[Apache Tomcat 6.0.35](#) (see page 66)
[ASM 3.2](#) (see page 81)
[Axis 1.4](#) (see page 82)
[Axis2 1.6.2](#) (see page 86)
[Batik 1.6](#) (see page 91)
[BIRT 2.6.1](#) (see page 112)
[Bouncy Castle 1.46](#) (see page 117)
[Commons Attributes 2.1](#) (see page 118)
[Commons beanutils 1.6](#) (see page 122)
[Commons beanutils 1.7](#) (see page 124)
[Commons Chain 1.0](#) (see page 129)
[Commons cli 1.1](#) (see page 133)
[Commons Codec 1.3](#) (see page 137)
[Commons Collections 3.1](#) (see page 141)
[Commons Collections 3.2](#) (see page 145)
[Commons Collections 3.2.1](#) (see page 149)
[commons dbcp 1.2.1](#) (see page 153)
[Commons Digester 1.6](#) (see page 157)
[commons discovery 0.2](#) (see page 161)
[commons-exec 1.0.1](#) (see page 165)
[Commons FileUpload 1.0](#) (see page 169)
[Commons httpclient 4.1.1](#) (see page 172)
[Commons Lang 2.1](#) (see page 176)
[Commons Lang 2.4](#) (see page 180)
[commons-lang 2.5](#) (see page 184)
[Commons Logging 1.1.1](#) (see page 189)
[Commons net 1.4.1](#) (see page 193)
[Commons Pool 1.2](#) (see page 198)
[Commons Validator 1.1.4](#) (see page 202)
[DTP 1.8.1](#) (see page 205)
[Eclipse 3.3](#) (see page 206)
[Eclipse SDK 3.6.1](#) (see page 210)
[EMF 2.6.1](#) (see page 211)
[GEF 3.5.1](#) (see page 212)
[GEF 3.6.1](#) (see page 216)
[HP-UX JRE v1.6](#) (see page 216)
[HP-UX JRE v1.7](#) (see page 217)
[iBATIS Java 2.1.7](#) (see page 218)
[IBM DB2 Driver for JDBC and SQLJ 9](#) (see page 221)
[ICU4J 4.2.1](#) (see page 222)
[Jakarta Commons Exec 1.0.1](#) (see page 223)
[Javax.mail 1.4.0.jar](#) (see page 228)

[JDOM 1.0](#) (see page 235)
[JK 1.2.31](#) (see page 237)
[JRE v.1.7](#) (see page 242)
[Log4j 1.2.14](#) (see page 243)
[Log4j 1.2.15](#) (see page 247)
[Oracle 11G JDBC driver 11.1.0.7.0](#) (see page 250)
[ORO 2.0.8](#) (see page 251)
[Rhino 1.6R3](#) (see page 252)
[Saxon HE 9.2.1.1](#) (see page 253)
[spring framework 1.2.8](#) (see page 261)
[Struts 1.2.9](#) (see page 265)
[WTP 3.2.2](#) (see page 269)
[Xalan-J 2.5.1](#) (see page 270)
[Xerces-J 2.9.1](#) (see page 275)
[xml-commons xml-api 1.3.04](#) (see page 280)
[XMLBeans 2.3.0](#) (see page 290)
[XMLBeans 2.5](#) (see page 294)

Apache HTTP Web Server 2.2.22

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```
/*
 * mod_mime_magic: MIME type lookup via file magic numbers
 * Copyright (c) 1996-1997 Cisco Systems, Inc.
 *
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 * 1997. Future revisions and derivatives of this source code must
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* -----
*
*/

```

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"macmartinized" polygon code copyright 1992 by Eric Haines, erich@eye.com

For the server\util_md5.c component:

```

/*****
* NCSA HTTPd Server
* Software Development Group
* National Center for Supercomputing Applications
* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
* Copyright (C) 1995, Board of Trustees of the University of Illinois
*
*****/
*
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*
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* Content-MD5 Code contributed by Martin Hamilton (martin@net.lut.ac.uk)
*
*/

```

```

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Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)
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* cvt - IEEE floating point formatting routines.  
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XMLBeans 2.5

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