

CA Workload Automation DE

Release Notes

r11.3



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CA Technologies Product References

This document references the following CA Technologies products:

- CA Workload Automation DE
- CA Workload Automation Desktop Client (CA WA Desktop Client)
- CA Workload Automation DE Web Client
- CA Workload Automation High Availability DE (CA WA High Availability)
- CA Workload Automation Web Services (CA WA Web Services)
- CA Workload Automation Agent for UNIX (CA WA Agent for UNIX)
- CA Workload Automation Agent for Linux (CA WA Agent for Linux)
- CA Workload Automation Agent for Windows (CA WA Agent for Windows)
- CA Workload Automation Agent for i5/OS (CA WA Agent for i5/OS)
- CA Workload Automation Agent for z/OS (CA WA Agent for z/OS)
- CA Workload Automation Agent for Application Services (CA WA Agent for Application Services)
- CA Workload Automation Agent for Web Services (CA WA Agent for Web Services)
- CA Workload Automation Agent for Micro Focus (CA WA Agent for Micro Focus)
- CA Workload Automation Agent for Databases (CA WA Agent for Databases)
- CA Workload Automation Agent for SAP (CA WA Agent for SAP)
- CA Workload Automation Agent for PeopleSoft (CA WA Agent for PeopleSoft)
- CA Workload Automation Agent for Oracle E-Business Suite (CA WA Agent for Oracle E-Business Suite)
- CA Workload Automation Restart Option EE (CA WA Restart Option)
- CA Spectrum® Service Assurance (CA Spectrum SA)

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- Information about user communities and forums
- Product and documentation downloads
- CA Support policies and guidelines
- Other helpful resources appropriate for your product

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Chapter 1: New and Changed Features for Administrators

CA Workload Automation DE r11.3 provides some new and changed features of interest to administrators, which are covered in the following topics.

This section contains the following topics:

[New Product Name](#) (see page 9)

[New Features](#) (see page 9)

[Changes to Existing Features](#) (see page 15)

New Product Name

In the previous release, the product was named CA Workload Automation. Starting in r11.3, we have renamed the product to CA Workload Automation DE.

New Features

The new features in this release of CA Workload Automation DE include the following:

- [Quiesce capabilities](#) (see page 10)
- [LDAP integration for user authentication](#) (see page 10)
- [Agent groups](#) (see page 10)
- [IPv6 support](#) (see page 11)
- [FIPS 140-2 compliance](#) (see page 11)
- [New dashboard view](#) (see page 11)
- [Topology enhancements](#) (see page 12)
- [History table management](#) (see page 12)
- [Automatic update of CA WA Desktop Client patches](#) (see page 12)
- [New server parameters](#) (see page 13)
- [Support for Windows authentication on Microsoft SQL Server](#) (see page 14)
- [New security permissions](#) (see page 14)
- [New CLI commands](#) (see page 15)

Quiesce Capabilities

Quiesce lets you pause the server so that no new workload can enter the server. You can start a server in a quiesce (pause) mode to prevent the server from temporarily submitting new jobs or triggering workload. When you are ready to resume submitting jobs and triggering workload, you can either unquiesce the server or unquiesce specific Applications or Events on the server.

You can also quiesce an agent to prevent it from temporarily receiving messages from the server or from running jobs.

Notes:

- For more information about starting the server in quiesce mode, see the *Implementation Guide*.
- For more information about quiescing and unquiescing the server and agents, see the *Admin Perspective Help* and the *CLI Perspective Help*.
- For more information about unquiescing specific Applications or Events, see the *Monitor Perspective Help*.

LDAP Integration for User Authentication

This release supports the current version of Light Weight Directory Protocol (LDAP) for user authentication. If you use an LDAP server product, such as MS Active Directory, Novell eDirectory, or Sun One Directory Server, you can import LDAP users into CA Workload Automation DE and activate them. Users are authenticated when they log in to CA WA Desktop Client. Users can be defined only in CA Workload Automation DE (local), defined in both CA Workload Automation DE and LDAP, or defined only in LDAP.

You can configure multiple LDAP authentication systems in the Topology for redundancy.

Note: For more information about LDAP integration, see the *Admin Perspective Help*.

Agent Groups

You can now create agent groups in the Topology by grouping agents of the same operating system. You can create Windows or UNIX agent groups to suit your environment. Agent groups let you use load balancing or run a job on all agents in a group.

Note: For more information about defining agent groups, see the *Admin Perspective Help*.

More information:

[Load Balancing](#) (see page 22)

[Running Jobs on All Agents in a Group](#) (see page 22)

IPv6 Support

All components of CA Workload Automation DE (server, client, and agents) support Internet Protocol version 6 (IPv6) on UNIX. Unlike IPv4 that uses a 32-bit address, IPv6 uses a 128-bit address and has a huge address space.

Notes:

- CA Workload Automation DE does not support IPv6 on a Windows server.
- The Tandem NSK and OpenVMS legacy agents do not support IPv6.

FIPS 140-2 Compliance

CA Workload Automation DE supports the U.S. Government encryption standard FIPS 140-2 and can be configured to run in a FIPS-compliant mode.

New Dashboard View

The Monitor Perspective now contains a dashboard view that displays status messages and historical data in predefined custom views. You can create, edit, or delete views to display the information you want. For example, you can list error messages from the trace log, view details of SNMP traps, and view the license status. You can also display status information in a graphical dashboard such as the number of active Applications, the number of CA WA Desktop Client connections, and the server memory status.

Note: For more information about the dashboard view, see the *Monitor Perspective Help*.

Topology Enhancements

The structure of the Topology has changed to display the status of the servers, agents, agent groups, authentication systems, SNMP managers, and the SMTP server defined in your CA Workload Automation DE environment. You can also add, configure, and control nodes in the Topology.

For example, you can now do the following in the Topology:

- Stop a server instance
- Limit the size of email messages and attachments used in email notifications
- Stop an agent
- Set an agent property remotely
- Delete agent logs
- Refresh an agent security file
- Configure the SNMP server
- Switch Primary and Standby roles in a CA WA High Availability environment

Note: For information about the Topology, see the *Admin Perspective Help*.

History Table Management

As the history information in your database tables grows over time, your server performance degrades. You can now move some of your history data to stage tables to save disk space and make querying the tables faster, improving server performance. You can save the stage tables to a file or a tape as a backup or delete them as required.

Note: For more information about history table management, see the *Report Perspective Help*.

Automatic Update of CA WA Desktop Client Patches

You can now configure CA WA Desktop Client to update client installations automatically whenever there are patch updates available. To use this feature, you establish a centralized location for updates, which can be HTTP or LAN based, and specify how often CA WA Desktop Client checks for updates. If a new update is available, CA WA Desktop Client notifies the user. The user can proceed with the update or dismiss the notification until the next time CA WA Desktop Client checks for updates. The user can also check for updates at any time.

Note: For more information about using the automatic update feature, see the *Admin Perspective Help*.

New Server Parameters

You configure server parameters to control the behavior of the server. You can now configure server parameters to do the following:

- Configure multiple SNMP managers
- Configure rollover of the trace log file
- Change the frequency of the status messages generated in the dashboard
- Limit the size of email messages and attachments used in email notifications
- Modify the default email template used in email notifications
- Limit the number of jobs in the output of a forecast report
- Limit the number of scheduled reports running at a time
- Limit the number of users running reports at a time
- Configure how long the server waits for a report to finish
- Change how often the server calculates expected end times in Applications.
- Specify a maximum execution time for JavaScript scripts

Note: For more information about configuring server parameters, see the *Admin Perspective Help*.

Update Indicators

When you update a server parameter, CA WA Desktop Client indicates whether you must restart the server for the new value to take effect. In a CA WA High Availability configuration, it indicates whether you must restart the Primary instance of the server or all instances of the server.

Note: For more information about update indicators, see the *Admin Perspective Help*.

Advanced Parameters

You can now display the advanced parameters of the server in CA WA Desktop Client. CA Support uses the advanced parameters for troubleshooting and performance tuning.

Important! You must contact CA Support before changing an advanced parameter.

Note: For more information about displaying the advanced parameters, see the *Admin Perspective Help*.

Configuration Property Update Utility

If the server is down, you can use the configuration property update utility to list and update server parameters. The updated value of the parameter takes effect when the server is restarted.

Note: For more information about the configuration property update utility, see the *Admin Perspective Help*.

Support for Windows Authentication on Microsoft SQL Server

If you use a Microsoft SQL Server database, you can now use Windows authentication instead of SQL Server authentication. To enable Windows authentication, you must set up a valid domain account in the CA Workload Automation DE service after installing the server.

Note: For more information about enabling Windows authentication on Microsoft SQL Server, see the *Implementation Guide*.

New Security Permissions

Security permissions determine the type of access a user or group has to a particular element of the server. You can now add permissions to permit or prevent a user or group from doing the following:

- Delete the output of forecast reports from the server
- Create, read, update, or delete a report design
- Delete the output of history reports from the server
- Execute a report design to generate a report result
- Receive status messages in the dashboard
- View the Topology

Note: For more information about security permissions, see the *Admin Perspective Help*.

New CLI Commands

The Command Line Interface (CLI) lets you issue commands against the server and agents from the command line. You can now issue CLI commands to do the following:

- Add, update, and remove agents and agent groups
- Display information about agent groups
- Quiesce and unquiesce servers and agents
- Determine whether the server is quiesced
- Move history information in the database tables to stage tables to improve performance
- Apply a logging profile to the current logging profile
- Set the severity threshold of a logger identifier
- Display information about a logging profile
- Display the severity threshold of the logger identifiers
- Delete status messages from the dashboard
- Display information about job profiles
- Delete job profiles

Note: For information about the CLI commands, see the *CLI Perspective Help*.

Purging Completed Applications Using Wildcards

The `purgecompletedjobs` CLI command has been updated to support wildcards. You can now purge completed jobs from multiple Applications.

Note: For more information about the `purgecompletedjobs` command, see the *CLI Perspective Help*.

Changes to Existing Features

The changes to the existing features for this release of CA Workload Automation DE include the following:

- [CA licensing](#) (see page 16)
- [Server logs](#) (see page 16)
- [Multiple SNMP managers](#) (see page 16)
- [Migration changes](#) (see page 17)
- [Specifying the network interface during the install](#) (see page 17)
- [Server restart on lost database connectivity](#) (see page 17)

CA Licensing

In this release, the current licensing system is replaced with the CA common license manager. As an enterprise product, CA Workload Automation DE does not fail upon license failures, but continues to operate. License failures are reported in the trace log, audit log, and dashboard. You can issue a CLI command to check the current license status.

Note: For more information about licensing, see the *Implementation Guide*.

Server Logs

This release supports a new logging facility. The server stores regular log information in the trace log (tracelog.txt). For convenience, error messages are also stored in the errors.txt file. A new log file, named the buffer log, stores all messages regardless of the message category or severity.

Note: The Automated Framework Message log (afmlog.txt) no longer exists.

You can use the new logging facility to do the following:

- Configure when the trace log is archived (rollover) by maximum file size or by time (weekly, daily, hourly, or every minute)
- Limit the messages stored in the trace log by setting the severity threshold (error, fatal, info, off, and warning) of each message category (logger identifier)
- Retrieve the current security threshold for each message category
- Set up various logging profiles, which can be applied to control the types of messages included in the trace log at a given time
- Configure the maximum size of the buffer log file

Note: For more information about server logs, see the *Admin Perspective Help*.

Multiple SNMP Managers

In the previous release, you could only configure one SNMP manager during installation. In this release, you can now configure multiple SNMP managers after installation. After you configure multiple SNMP managers, you can send SNMP traps to multiple IP addresses.

Note: For more information about configuring SNMP managers, see the *Admin Perspective Help*.

Migration Changes

In the previous release, the migration utility was installed and run on the computer where the previous r4.4.x or r5.0.x server was installed. After running the migration utility to convert artifacts on the previous server, you manually moved the converted artifacts to the r11.1 server to complete the migration.

In this release, the migration process has been simplified. The new migration utility is installed with the server. You run the migration utility from the command line of the computer where the r11.3 server is installed. The new migration utility connects to the r11.1 or r5.0.3 server and database and migrates artifacts, global variables, and history data to the r11.3 server.

Note: For more information about migration, see the *Implementation Guide*.

Specifying the Network Interface during the Install

In the previous release, the installer automatically obtained the first available network interface that was bound to the local host. In this release, you can now choose the network interface the server binds to by specifying the host name, IP address, or an alias of the local server. The mapping between the host name or alias and the resolved IP address must be 1:1.

Note: For more information about installing the server, see the *Implementation Guide*.

Server Restart on Lost Database Connectivity

In this release, if a database connection is lost, the server tries to reestablish the database connection for up to an hour by default. If reconnection is not successful within this time, the server shuts down. In the previous release, the server shut down immediately and had to be restarted manually.

Note: For more information about server restart after lost database connectivity, see the *Admin Perspective Help*.

Chapter 2: New and Changed Features for Schedulers, Operators, and Programmers

CA Workload Automation DE r11.3 provides many new features for schedulers, operators, and programmers, which are covered in the following topics.

This section contains the following topics:

[New Features](#) (see page 20)

[Changes to Existing Features](#) (see page 36)

New Features

The new features in this release of CA Workload Automation DE include the following:

- [History reporting enhancements](#) (see page 21)
- [Forecasting enhancements](#) (see page 21)
- [Searching for jobs across Applications](#) (see page 21)
- [Load balancing](#) (see page 22)
- [Running jobs on all agents in a group](#) (see page 22)
- [Job output variables](#) (see page 22)
- [Support for new agent releases](#) (see page 23)
- [Variable dependency monitor Events](#) (see page 27)
- [Event priority](#) (see page 27)
- [Progress bar for running Applications](#) (see page 28)
- [Extend CA WA Web Services](#) (see page 28)
- [Application templates for third-party integration](#) (see page 28)
- [Specifying JavaScript scripts in the job definition](#) (see page 29)
- [Using content assist to define JavaScript scripts](#) (see page 29)
- [New JavaScript function to get system property](#) (see page 29)
- [Making mass updates to jobs within an Application](#) (see page 30)
- [Resource enhancements](#) (see page 30)
- [Bypassing future execution of an Event](#) (see page 31)
- [New monitor states](#) (see page 31)
- [Email notification templates](#) (see page 31)
- [Job profiling](#) (see page 32)
- [Referential integrity](#) (see page 32)
- [Reason field for job and Application commands](#) (see page 33)
- [Default zoom settings for Application graphs](#) (see page 33)
- [Selecting user IDs in job definitions](#) (see page 33)
- [Inherit Trigger User preference](#) (see page 34)
- [Job ancestor wait \(JANCWAIT state\)](#) (see page 34)
- [Suppressing notifications for a job](#) (see page 34)
- [Customized sort order for custom views](#) (see page 35)
- [Hiding completed jobs automatically using the Rounded at option](#) (see page 35)

- [Folding groups in job definitions](#) (see page 35)
- [Application integration tags](#) (see page 36)

History Reporting Enhancements

You can now schedule history reports using Events to save the output on the server for viewing later. You can export the output in different formats including CSV and HTML. When scheduling history reports, you can specify a list of users to notify when the history report execution is complete. You can also grant permission to a list of users to view the report output.

The predefined history reports have been updated to include new reports on long-running jobs and jobs grouped by job type.

Note: For more information about scheduling history reports and running predefined reports, see the *Services Perspective Help*.

Forecasting Enhancements

You can now schedule forecast reports using Events to save the output on the server for viewing later. You can export the output in different formats including CSV and HTML. When scheduling forecast reports, you can specify a list of users to notify when the forecast report execution is complete. You can also grant permission to a list of users to view the report output.

Note: For more information about forecast reports, see the *Services Perspective Help*.

Searching for Jobs across Applications

You can now search for jobs across Applications defined on a single server. This feature is useful for locating jobs that are defined in many different Applications. From the search results, you can open each job definition and make the required changes.

Note: For more information about searching for jobs across Applications, see the *Define Perspective Help*.

Load Balancing

You can use agent groups to balance workload between each agent defined in the group. When a job using load balancing runs, the server determines the agent the job runs on based on one of the following load balancing policies:

- Round robin
- Random selection
- CPU usage

Note: For more information about load balancing, see the *Define Perspective Help*.

More information:

[Agent Groups](#) (see page 10)

Running Jobs on All Agents in a Group

You can use agent groups to run a job on all agents in the group. For example, you can create a single backup job and set it to run on multiple agents, with each agent installed on a different server.

Note: For more information about running a job on all agents in a group, see the *Define Perspective Help*.

More information:

[Agent Groups](#) (see page 10)

Job Output Variables

For selected job types, the server creates a JavaScript variable for each return value. The return values are available as long as the Application is active. You can use the return values of a job in the subsequent jobs of that Application. For example, the result of an SQL query can be stored as a variable and then passed to another job.

Note: For more information about job output variables, see the *Define Perspective Help*.

Support for New Agent Releases

This release of CA Workload Automation DE supports the following new agent releases:

- CA Workload Automation Agent for UNIX r11.3
- CA Workload Automation Agent for Linux r11.3
- CA Workload Automation Agent for Windows r11.3
- CA Workload Automation Agent for i5/OS r11.3
- CA Workload Automation Agent for Application Services r11.3
- CA Workload Automation Agent for Web Services r11.3
- CA Workload Automation Agent for Micro Focus r11.3
- CA Workload Automation Agent for Databases r11.3
- CA Workload Automation Agent for SAP r11.3
- CA Workload Automation Agent for PeopleSoft r11.3
- CA Workload Automation Agent for Oracle E-Business Suite r11.3.1

Note: The agent features mentioned in this document require one or more of these agents. For more information about defining jobs using these agents, see the *Define Perspective Help*.

Modifying Resource Limits in a UNIX Job

When you define a UNIX job, you can set the job to modify resource limits on the agent computer for the duration of the job. For example, you can define a job that modifies the maximum core file size and CPU times on the UNIX computer.

Note: For more information about modifying resource limits in a UNIX job, see the *Define Perspective Help*.

Sending a Signal to an Executing UNIX Job

You can send a signal to a UNIX job while it is executing. The signal can perform actions on the running process such as kill, suspend, or release.

Note: For more information about sending a signal to an executing UNIX job, see the *Monitor Perspective Help*.

Windows Interactive Jobs

When you define a Windows job, you can indicate that the job runs in interactive mode. Interactive mode lets you view and interact with jobs that invoke Windows Terminal Services or user interface processes. For example, you can define a job to open a GUI application, such as Notepad, on the Windows desktop.

Note: For more information about defining Windows interactive jobs, see the *Define Perspective Help*.

Support for the Return at First Occurrence Wait Mode in Monitoring Jobs

When defining a Monitoring job, you can now select the Return at first occurrence wait mode. If you select this wait mode, the job does not complete until the conditions that the job monitors are met. For example, a Process Monitoring job can monitor a running process. When the process stops, the job completes.

Note: For more information about specifying the wait mode in Monitor jobs, see the *Define Perspective Help*.

Secure Copy and Secure FTP Jobs

Using the CA Workload Automation Agent for UNIX, Linux, or Windows, you can define a job to transfer binary files securely between an agent computer and a remote computer. You can define the following job types to transfer a file securely:

Secure Copy

Lets you securely transfer binary files using the Secure Copy Protocol (SCP). The SCP protocol does not support wildcard transfers.

Secure FTP

Lets you securely transfer binary files using the Secure File Transfer Protocol (SFTP). The SFTP protocol supports wildcard transfers, so you can upload multiple files to a remote computer or download multiple files to the agent computer.

Note: For more information about defining Secure Copy and Secure FTP jobs, see the *Define Perspective Help*.

SNMP Job Types

Using the CA Workload Automation Agent for UNIX, Linux, or Windows, you can define and run the following SNMP jobs:

SNMP Subscribe

Lets you subscribe for SNMP trap information.

SNMP Trap Send

Lets you send SNMP trap information.

SNMP Value Get

Lets you retrieve the value of an SNMP variable.

SNMP Value Set

Lets you set the value of an SNMP variable.

Note: For more information about defining SNMP jobs, see the *Define Perspective Help*.

Wake on LAN Jobs

Using the CA Workload Automation Agent for UNIX, Linux, or Windows, you can define a Wake on LAN job to send a signal to a server to turn it on. The job can wake up a remote computer that has been soft-powered-down (ACPI D3-warm state).

Note: For more information about defining Wake on LAN jobs, see the *Define Perspective Help*.

Support for Local Data Area in i5/OS Jobs

When you define an i5/OS job, you can specify data for the local data area. The local data area is a temporary 1024-byte storage area that exists for the duration of the job. You can use the local data area to pass data to the job and to other programs that run as part of the job.

Note: For more information about specifying data for the local data area in an i5/OS job, see the *Define Perspective Help*.

New JMX Job Types

The CA Workload Automation Agent for Application Services supports the following two new JMX jobs:

JMX-MBean Create Instance

Lets you create an MBean on a JMX server.

JMX-MBean Remove Instance

Lets you remove an MBean from a JMX server.

Note: For more information about defining JMX jobs, see the *Define Perspective Help*.

Support for Environment Variables in PeopleSoft Jobs

You can now set environment variables in PeopleSoft jobs. For example, you can set values for the location of the PeopleSoft PeopleTools executables (TOOLBIN) and path to the database drivers (DBBIN).

Note: For more information about setting environment variables, see the *Define Perspective Help*.

Copy Single Request Jobs

Using the CA Workload Automation Agent for Oracle E-Business Suite, you can define a Copy Single Request job to copy an existing single request defined on Oracle Applications and run it under the agent. When the job runs, it can override values in the original definition with values specified on the agent or in the job definition.

Note: For more information about defining Copy Single Request jobs, see the *Define Perspective Help*.

Support for CA Workload Automation Agent for Oracle E-Business Suite r11.3.1

CA Workload Automation Agent for Oracle E-Business Suite r11.3.1 includes the following new features:

- Quote resolved expressions in default values
- Give a higher priority to request set defaults over concurrent program defaults
- Specify value set expressions to resolve profile and flexfield expressions in SQL statements
- Specify the output format, template language, and template territory settings for the layout template
- Specify a list of Oracle users to notify when the job completes
- Identify OA request sets, single request programs, and Oracle users by display name or short name
- Search for OA applications, single request programs, request sets, and Oracle users by short name or display name

Note: For more information about defining Oracle E-Business Suite workload, see the *Define Perspective Help*.

Variable Dependency Monitor Events

You can now trigger workload based on global variable expressions. When you create a Variable Dependency Monitor Event, the server evaluates the variable expression, and runs the Application referenced in the Event whenever the variable expression is satisfied. The server reevaluates the expression whenever any of the variables in the expression changes.

Note: For more information about Variable Dependency Monitor Events, see the *Define Perspective Help*.

Event Priority

In an Event definition, you can now specify an Event priority from 1 (lowest priority) to 10 (highest priority) to prioritize the triggering of Events scheduled at the same time. When multiple Events are eligible for execution at the same time, the server triggers the Events in descending priority order. The default Event priority is 5.

Note: For more information about Event priorities, see the *Define Perspective Help*.

Progress Bar for Running Applications

When you open the graphical view of a running Application in the Monitor perspective, a new progress bar shows the Application's start time, estimated end time, and completion percentage. By default, the completion percentage is calculated based on the number of completed and bypassed jobs in the Application. If anticipated end times is enabled for the Application, you can choose to calculate the completion percentage based on elapsed time instead.

Note: For more information about monitoring the status of running Applications, see the *Monitor Perspective Help*.

Extend CA WA Web Services

Web services let you integrate the server in a Service Oriented Architecture (SOA) using Simple Object Access Protocol (SOAP) over HTTP or HTTPS. In this release, CA WA Web Services has been extended to let third-party solutions create, update, invoke, monitor, and control workload. You can program your software applications to call functions that access the web services to manage Events, Applications, jobs, resources, global variables, and other artifacts. You can also use the web services to execute a CLI command, return server time zone information, and test schedule criteria.

Notes:

- The Event functions provided in the previous release do not work with the current release. If you use these functions, you must update your software applications.
- For information about installing CA WA Web Services, see the *Implementation Guide*.
- For information about using CA WA Web Services, see the *Programming Guide*.

Application Templates for Third-Party Integration

Application templates let you integrate CA Workload Automation DE with a third-party application. For example, the third-party application could use a web browser as a front end to execute CA Workload Automation DE workload as part of a business process. To create an Application template, you define an Application in CA WA Desktop Client and specify parameters that represent the properties of the business application that you want to run. To run and manage the Application, the third-party application passes parameters as arguments to the Application template using the CA WA Web Service functions.

Note: For more information about specifying and exporting Application parameters, see the “Working with Applications” chapter in the *Define Perspective Help*. For more information about specifying application parameter values in an Event, see the “Working with Events” chapter in the *Define Perspective Help*.

Specifying JavaScript Scripts in the Job Definition

You can now define a JavaScript script within a job definition. The script can run at Event trigger time or at job run time. You can only use locally defined scripts in the job where they are defined. If you want to share a script with another job in the Application, define the script in the Application properties instead.

Note: For more information about specifying JavaScript scripts in a job definition, see the *Define Perspective Help*.

Using Content Assist to Define JavaScript Scripts

You can now use content assist to help you define a JavaScript script in an Application in the Define perspective. Using content assist, you can insert built-in JavaScript variables and functions in the script by selecting them from a pop-up. You can also insert native JavaScript functions and objects.

You can also use content assist to help you define a script in the JavaScript repository or an Alert in the Services perspective.

Notes:

- For more information about defining JavaScript scripts in an Application, see the *Define Perspective Help*.
- For more information about defining JavaScript scripts in the JavaScript repository or in an Alert, see the *Services Perspective Help*.

New JavaScript Function to Get System Property

You can use the `getSystemProperty` JavaScript function to retrieve the value of a system property. The `getSystemProperty` function lets you retrieve a system property without invoking a Java method. Invoking a Java method carries potential security and reliability problems.

Note: For more information about the `getSystemProperty` JavaScript function, see the *Programming Guide*.

Making Mass Updates to Jobs within an Application

You can now make a change to multiple jobs within an Application at once. Mass updates apply to the following fields in the job definition:

- agent name
- job name and qualifier
- run frequency
- script/command name
- arguments

For example, you can change the run frequency of all the jobs in the Application from daily to workdays without updating the fields individually. You can search for jobs in a large Application or select the jobs in the Application that you want to update.

Note: For more information about making mass updates to jobs within an Application, see the *Define Perspective Help*.

Resource Enhancements

This release includes the following resource enhancements:

- When setting resource availability counts, you can increase or decrease the availability count of a resource by a specified amount. For example, you can increase the availability count of a resource by three units. You can set resource availability counts using the Monitor Perspective, the CLI, or JavaScript built-in functions.
- When you delete a resource that is being used in a job definition, CA WA Desktop Client lists the Applications affected by the deletion. You can proceed with the deletion or cancel the deletion request.
Note: You can no longer delay deleting the resource until all jobs using the resource have completed. If a job requires the deleted resource, the job remains in the RESWAIT state until the resource dependency is dropped or a new resource is created with the same name.
- For debugging purposes, you can display details about the resources defined on the server and the processed resource requests (orders).

Notes:

- For more information about setting resource availability counts, see the *Monitor Perspective Help*, the *CLI Perspective Help*, or the *Programming Guide*.
- For more information about displaying resource details, see the *CLI Perspective Help*.
- For more information about deleting resources, see the *Services Perspective Help*.

Bypassing Future Execution of an Event

You can now bypass any future execution of an Event to prevent it from triggering at its scheduled time. In the previous release, you could only bypass the next scheduled execution of an Event. Before an Event execution is bypassed, you can unbypass it.

Note: For more information about bypassing and unbypassing Events, see the *Services Perspective Help* or the *CLI Perspective Help*.

New Monitor States

You can set up notifications to notify users or take action when a job reaches a certain state. Notifications now support the following monitor states:

- Force completed
- Global variable wait
- Resource wait

Note: For more information about setting up notifications, see the *Define Perspective Help*.

Email Notification Templates

When setting up email notifications, you now have full control over the message content. You can use the default subject or override it. For the message text, you can use the default message, append text to the default message, or use your own message. When overriding the default subject or message, you can insert Application- and job-level built-in symbolic variables using a menu.

Your administrator can edit the default subject and message by modifying the default email template defined in the Topology.

Notes:

- For more information about setting up email notifications, see the *Define Perspective Help*.
- For more information about modifying the default email template, see the *Admin Perspective Help*.

Job Profiling

By default, the server calculates anticipated end time, dueout propagation, and critical path using the average execution time of the last ten runs of the job. In this release, you can provide more accurate average data by specifying one or more profiles for a job based on different criteria. For example, suppose that a job runs for one hour from Monday to Thursday and for six hours on Friday. If you use the %APPL.SDAY symbolic variable as the profile string, the server performs its calculations based on the scheduled day of the week for the Application.

Profile strings can be specified explicitly or calculated dynamically through JavaScript scripts and expressed using symbolic variables or the %VAR global variable function.

Notes:

- For more information about specifying a profile for a job, see the *Define Perspective Help*.
- For more information about listing and purging job profiles, see the *CLI Perspective Help*.

Referential Integrity

When you delete an artifact, CA WA Desktop Client determines the business impact of the deletion on other artifacts. For example, when you try to delete an Application that is associated with Events, the Events affected by the deletion are listed. You can proceed with the deletion or cancel the deletion request.

Referential integrity applies to the following artifacts:

- Applications (impacts Events)
- Calendars (impacts Events)
- Resources (impacts Applications)
- Alerts (impacts Applications)
- JavaScript scripts (impacts Applications, Events, and Alerts)
- Agents (impacts Applications)
- Agent groups (impacts Applications)
- Agent users (impacts Applications)

Note: For more information about deleting artifacts, see the *Define Perspective Help*, *Services Perspective Help*, and *Admin Perspective Help*.

Reason Field for Job and Application Commands

When issuing job- or Application-level commands using the Monitor perspective or the `exexCommand` built-in function, you can specify a reason for issuing the command. The reason messages are stored in a command log, which is a mini audit log for future reference. You can view the command log for a job or Application in the Monitor perspective using the Details command.

By default, the reason field is an option within a command. However, you can make it a mandatory field for specific Applications.

Notes:

- For more information about specifying a reason in a command, see the *Monitor Perspective Help* or the *Programming Guide*.
- For more information about viewing the command log for a job or Application, see the *Monitor Perspective Help*.
- For more information about making the reason field mandatory for an Application, see the *Define Perspective Help*.

Default Zoom Settings for Application Graphs

You can now set default zoom settings for Application graphs in the Define and Monitor perspectives. In the preferences, you can choose to fit graphs to the window size or specify a specific zoom factor. You can override the zoom defaults for a specific Application graph by zooming in and out or scrolling through the graph using the mouse wheel or cursor.

Note: For more information about setting the default zoom settings for Application graphs, see the *Define Perspective Help* and *Monitor Perspective Help*.

Selecting User IDs in Job Definitions

When defining a job, you can now select a user ID from a list of users defined in the Topology for the specified agent.

Note: For more information about selecting users ID in job definitions, see the *Define Perspective Help*.

Inherit Trigger User Preference

When you create an Event, you can set the Inherit trigger user option to override the execution user for Events triggered manually. If this option is set, the execution user is set to the user that manually triggered the Event. In this release, you can now set a preference for the Inherit trigger user option, which is useful if you often override the default behavior.

Note: For more information about the Inherit trigger user option, see the *Define Perspective Help*.

Job Ancestor Wait (JANCWAIT State)

When defining a job, you can specify a new option to delay the job from running until the same job completes in a previous generation of the Application. If the same job is running in a previous Application generation, the server puts the job in the new Application generation in a JANCWAIT state. When the job completes in the previous Application generation, the server removes the JANCWAIT from the job in the new Application generation and submits the job when its dependencies are met.

An operator can unwait a job so that it no longer waits for the same job to complete in a previous Application generation before it runs.

Notes:

- For more information about using the job ancestor wait option, see the *Define Perspective Help*.
- For more information about the JANCWAIT job state and unwaiting a job, see the *Monitor Perspective Help*.

Suppressing Notifications for a Job

If an Application contains notifications, the notifications are copied to each job in the Application. If you do not want the Application-level notifications to apply to every job, you can now suppress them. Alternatively, you can edit or remove a copied notification.

Note: For more information about suppressing notifications for a job, see the *Define Perspective Help*.

Customized Sort Order for Custom Views

In the previous release, the information in a custom view was sorted based on the order the columns appeared in. In this release, when you create or update a custom view, you can now customize the sort order of the columns that appear in the view. You can override the sort order by clicking a column heading in the open custom view.

Note: For more information about specifying a customized sort order for custom views, see the *Monitor Perspective Help*.

Hiding Completed Jobs Automatically Using the Rounded at Option

When hiding completed Applications automatically, you can now select a time interval frequency using the Rounded at option. For example, if you select every 2 hours using the Rounded at option, completed Applications are automatically hidden every two hours, starting at the top of the next hour.

Note: For more information about hiding completed Applications automatically, see the *Monitor Perspective Help*.

Folding Groups in Job Definitions

This usability enhancement lets you expand and fold groups of job properties (sections) based on your level of experience with the product. By default, job definition properties that are set in the Application, such as the agent name or run frequency, are folded to minimize clutter. You can set a preference so that these sections are always expanded.

Note: For more information about expanding and folding sections in job definitions, see the *Define Perspective Help*.

Application Integration Tags

To integrate an Application with another CA product, you can now specify Application integration tags in the Application definition. In this release, you can map an Application to one or more business services defined in CA Spectrum SA. CA Spectrum SA lets you model services to represent cross-product data based on logical business functions.

Notes:

- To integrate CA Workload Automation DE with CA Spectrum SA, the CA Workload Automation DE connector must be installed. For more information about the connector, see the *CA Workload Automation DE Connector Guide* packaged with the connector.
- For more information about specifying Application integration tags, see the *Define Perspective Help*.

Changes to Existing Features

The changes to the existing features for this release of CA Workload Automation DE include the following:

- [Using unsupported agent features](#) (see page 36)
- [Maximum execution time for JavaScript scripts](#) (see page 36)

Using Unsupported Agent Features

In the previous release, if you tried to use an agent feature that was not supported, the agent ignored the keywords related to the new feature. This design could result in unexpected behavior. In this release, if you try to use an unsupported agent feature, the server prevents the job submission and places the job in a SUBERROR state. The job status provides additional information to help you resolve the issue.

Maximum Execution Time for JavaScript Scripts

To prevent programming errors such as infinite loops from bringing the server down, the server can terminate faulty JavaScript scripts. If a script that runs at trigger time exceeds a maximum execution time, the server terminates the script, control is returned to the process that initiated the script execution, and the Event fails to trigger.

Your administrator can configure the maximum execution time for JavaScript scripts and set up failure notifications when Events fail to generate Applications.

Note: For more information about configuring the maximum execution time for JavaScript scripts, see the *Admin Perspective Help*.

Saving a Date-Time/Manual Event with a Suspend Time in the Past

In the previous release, you can save a Date-Time/Manual Event with the following criteria:

- Recurring schedule, such as daily
- Past date specified in the Suspend at field
- No future date specified in the Resume at field

In this release, the Event cannot be saved and results in an error. This change was introduced to prevent Date-Time/Manual Events from not being scheduled at all.

Note: For more information about specifying suspend and resume times, see the *Define Perspective Help*.

Chapter 3: System Requirements

This section contains the following topics:

[CA Workload Automation DE Server](#) (see page 39)

[CA Workload Automation Desktop Client](#) (see page 41)

[Supported Databases](#) (see page 42)

[Supported Agents](#) (see page 44)

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 and default agent for all platforms except AIX and z/Linux. For AIX and z/Linux, install the required JRE versions. For the other platforms, do not change the JRE.
- The default agent packaged with the server is CA Workload Automation Agent for UNIX, Linux, or Windows r11.3.

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 eServer P5 550B 4 CPU cores, 1.65 GHz each 4 GB RAM 20 GB of disk space	AIX version 5.3 (64-bit) or 6.1	64-bit JRE 1.6 SR6 or higher for the server 32-bit JRE 1.6 SR6 or higher for the default agent Note: The JRE is not supplied with the server or default agent.

Platform	Minimum Hardware	Recommended Hardware	Operating System	JRE Version
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 JRE 6.0 update 4
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 JRE 6.0 update 4
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 (64-bit) SUSE Linux Enterprise Server 10 Note: You must have RPM package libXp-1.0.0- 8.i386.rpm for Linux systems.	Sun JRE 1.6 update 16
z/Linux (s390/zSeries)	4 GB RAM 10 GB of disk space	8 GB RAM 20 GB of disk space	SUSE z/Linux (s390/zSeries) (31- or 64-bit)	31-bit JRE 1.6 SR8 or higher for the server and default agent Note: The JRE is not supplied with the server or default agent.

Platform	Minimum Hardware	Recommended Hardware	Operating System	JRE Version
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)	Sun JRE 1.6 update 16
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), Standard Edition Windows Server 2008 and R2 (64-bit), Standard Edition	Sun JRE 1.6 update 16

Note: The preceding 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>.

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
Processor	Intel Pentium, 1.0 GHz or higher

Component	Recommended Level
Memory	2 GB RAM or higher
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

Supported Databases

CA Workload Automation DE supports the following databases:

- Oracle 10g R1 or R2, Oracle 11g R2, or Oracle 11g RAC
- Microsoft SQL Server 2005 or 2008 (with the server installed on Windows only)
- IBM DB2 9.1 or 9.5 (with the server installed on AIX 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:

$\text{required disk space} = \text{initial storage space} + \text{database growth}$

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:

$\text{Database growth} = \text{Number of jobs run per day} \times 13 \text{ KB} \times \text{Number of days}$

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:

$\text{Database growth} = 500 \text{ jobs run/day} \times 13 \text{ KB} \times 30 \text{ days}$

$= \text{approximately } 200 \text{ MB}$

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

$\text{Required disk space} = \text{Initial storage space} + \text{database growth}$

$= 200 \text{ MB} + 200 \text{ MB}$

$= 400 \text{ MB}$

Supported Agents

In addition to the r11.3 agents, CA Workload Automation DE supports the ESP System Agent Release 7.0 for UNIX, Linux, Windows, and i5/OS operating systems and the supported agent plug-ins.

Chapter 4: Documentation

This section contains the following topics:

[Guides](#) (see page 45)

[Online Help](#) (see page 45)

Guides

The PDF guides for this product are as follows:

- *CA Workload Automation DE r11.3 Release Notes*
- *CA Workload Automation DE r11.3 Implementation Guide*
- *CA Workload Automation DE r11.3 Overview Guide*
- *CA Workload Automation DE r11.3 Programming Guide*
- *CA Workload Automation DE r11.3 Examples Cookbook*
- *CA Workload Automation DE r11.3 Admin Perspective Help*
- *CA Workload Automation DE r11.3 CLI Perspective Help*
- *CA Workload Automation DE r11.3 Define Perspective Help*
- *CA Workload Automation DE r11.3 Monitor Perspective Help*
- *CA Workload Automation DE r11.3 Report Perspective Help*
- *CA Workload Automation DE r11.3 SAP Tools Perspective Help*
- *CA Workload Automation DE r11.3 Services Perspective Help*

To view PDF files, you must download and install the Adobe Reader from the Adobe website if it is not already installed on your computer.

Online Help

While you are using CA WA Desktop Client, you can access the following help:

Context-sensitive help

Click the help icon (?) or press F1 to get help about a dialog, view, or page. A description appears along with links to related help topics.

Task-based help

From the Help menu, click Help Contents. You can access the following help books:

- *Define Perspective Help*
- *Monitor Perspective Help*
- *Services Perspective Help*
- *SAP Tools Perspective Help*
- *CLI Perspective Help*
- *Admin Perspective Help*
- *Report Perspective Help*

To navigate the Help, expand the topics in the Contents pane on the left side of the page, then click an entry to display its information.

Click the Index tab at the bottom of the left pane to display the Help Index. Enter a term in the text box and click Display to display matching index entries; click an index entry to display associated information.

To search the Help, enter a keyword or phrase in the Search field, then click GO to locate the specified text in the Help and display search results in context in the left pane. Click a result link in the left pane to open a topic.

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 Axis2 1.4](#) (see page 49)
[Apache Commons Attributes 2.1](#) (see page 49)
[Apache Commons BeanUtils 1.6](#) (see page 49)
[Apache Commons Beanutils 1.7.0](#) (see page 49)
[Apache Commons Chain 1.0](#) (see page 50)
[Apache Commons CLI 1.1](#) (see page 50)
[Apache Commons Codec 1.3](#) (see page 50)
[Apache Commons Collections 3.1](#) (see page 50)
[Apache Commons Collections 3.2.0](#) (see page 50)
[Apache Commons Collections 3.2.1](#) (see page 51)
[Apache Commons Digester v.1.6](#) (see page 51)
[Apache Commons Discovery 0.2](#) (see page 51)
[Apache Commons FileUpload 1.0](#) (see page 52)
[Apache Commons httpclient 4.1.1](#) (see page 53)
[Apache Commons IO 1.4](#) (see page 53)
[Apache Commons Lang 2.1](#) (see page 53)
[Apache Commons Lang 2.3](#) (see page 54)
[Apache Commons Lang 2.4](#) (see page 54)
[Apache Commons Logging 1.1.1](#) (see page 54)
[Apache Commons Pool 1.2](#) (see page 54)
[Apache Commons Validator 1.1.4](#) (see page 54)
[Apache Commons.net 1.4.1](#) (see page 55)
[Apache HTTP Web Server 2.2.22](#) (see page 56)
[Apache iBATIS Java 2.1.7](#) (see page 67)
[Apache Jakarta Commons DBCP 1.2.1](#) (see page 67)
[Apache Jakarta Commons Exec 1.0.1](#) (see page 68)
[Apache Log4j 1.2.14](#) (see page 68)
[Apache Log4j 1.2.15](#) (see page 68)
[Apache Spring Framework 1.2.8](#) (see page 68)
[Apache Struts 1.2.9](#) (see page 69)
[Apache Tomcat 6.0.29](#) (see page 70)
[Apache Tomcat 6.0.35](#) (see page 71)
[Apache Tomcat Connectors JK 1.2.31](#) (see page 78)
[Apache Xalan-J 2.5.1](#) (see page 80)
[Apache Xerces-J 2.6.1](#) (see page 81)
[Apache XMLBeans 2.0](#) (see page 81)
[Apache XMLBeans 2.3.0](#) (see page 81)
[Apache XMLBeans 2.5.0](#) (see page 81)
[Apache xml-commons xml-apis 1.3.04](#) (see page 82)
[Bouncy Castle 1.46](#) (see page 87)
[CRYPTIX 3.2](#) (see page 88)
[Eclipse BIRT 2.6.1](#) (see page 88)
[Eclipse DTP 1.8.1](#) (see page 89)
[Eclipse EMF 2.6.1](#) (see page 89)

[Eclipse GEF 3.6.1](#) (see page 90)
[Eclipse SDK 3.6.1](#) (see page 90)
[Eclipse WTP 3.2.2](#) (see page 90)
[HP-UX JRE](#) (see page 91)
[IBM DB2 Driver for JDBC and SQLJ](#) (see page 91)
[JDOM 1.0](#) (see page 92)
[JRE v.1.6](#) (see page 93)
[Oracle 11G JDBC Driver version 11.1.0.6.0](#) (see page 93)
[Oracle 11G JDBC Driver version 11.1.0.7.0](#) (see page 94)
[Rhino 1.5R5](#) (see page 95)
[Rhino 1.6R2](#) (see page 102)
[Saxon HE 9.2.1.1](#) (see page 103)
[Sun JRE 1.6.0_16](#) (see page 111)

Apache Axis2 1.4

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* httpd@ncsa.uiuc.edu
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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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*
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