

CA Workload Control Center

Release Notes

r11.3



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CA Technologies Product References

This document references the following CA Technologies products:

- CA Embedded Entitlements Manager (CA EEM)
- CA Network and Systems Management (CA NSM)
- 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 Linux (CA WA Agent for Linux)
- CA Workload Automation Agent for Micro Focus (CA WA Agent for Micro Focus)
- 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 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 Control Center (CA WCC)

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Chapter 1: New Features

The Release Notes for CA Workload Control Center (CA WCC) documents new features and changes to existing features for r11.3. This chapter describes new features added to the product. The chapter "Changes to Existing Features" describes changes made to existing features and includes a list of any features removed from the product.

New features include the following:

- Support for the new agents and job types of CA Workload Automation AE r11.3
- A new *Workload Scheduling Guide* is provided to help you manage the new job types in CA WCC
- A new Monitoring component that lets you create views, view graphical representations of job flows, and monitor the status of those views to ensure successful job flow completion

Notes:

- The Monitoring component replaces the Job Flow components.
- CA EEM filtering controls are available for the objects in Monitoring.
- A new Resources component that lets you manage CA Workload Automation AE r11.3 virtual resources
- A new Reports - Forecast component that lets you predict future job runs and when they will occur
- Three new batch interface utilities that let you do the following from a command prompt:
 - Insert, modify, and delete Monitoring views
 - Create and manage an authorized list of job types for your enterprise
 - Create one or more templates for each job type that contain common job properties for reuse when creating a job
- New help systems for the Monitoring, Resources, and Reports - Forecast applications
- A new *Security Guide* that contains security information, including CA EEM policy information, for both CA Workload Automation AE and CA WCC

Agent and Job Type Support for CA WCC r11.3

CA WCC now provides support for multiple workload automation agents and job types. Supported agents are job type-specific and allow communication between the agent and CA Workload Automation AE. The CA Workload Automation Agent for UNIX, Linux or Windows is included with CA Workload Automation AE. You can purchase the other agents you need separately, and install them into your system agent directory.

Notes:

- Legacy CA Workload Automation AE job types (Box, Command, File Watcher, and User-Defined) are available by default with CA Workload Automation AE r11.3.
- Any job type not included with the CA Workload Automation Agent for UNIX, Linux or Windows will not be available if you do not install the appropriate agent plug-in.
- SAP job administration will only support the Business Agent for SAP and not the legacy CA Adapter for SAP. Legacy SAP jobs will be converted to command jobs.

For CA WCC r11.3, the following agents and job types are supported:














Agent	Supported Job Types	Notes
System Agent (CA Workload Automation Agent for UNIX, Linux or Windows)	Box	
	Command	
	File Watcher	
	File Trigger	
	FTP	
	User Defined	
	CPU Monitoring	
	Disk Monitoring	
	IP Monitoring	
	Process Monitoring	
	Secure Copy	
	Text File Reading and Monitoring	
	UNIX/Linux	Implemented as the legacy Command job
	Windows	Implemented as the legacy Command job
	Windows Event Log Monitoring	




































Agent	Supported Job Types	Notes
	Windows Service Monitoring	
Oracle E-Business Suite Agent	Oracle E-Business Suite Copy Single Request Oracle E-Business Suite Request Set Oracle E-Business Suite Single Request	
PeopleSoft Business Agent	PeopleSoft	
SAP Business Agent	SAP Batch Input Sessions SAP BW InfoPackages SAP BW Process Chain SAP Data Archiving SAP Event Monitor SAP Job Copy SAP Process Monitor SAP R/3	Replaces SAP InfoPackage job Replaces SAP Process Chain job Replaces SAP job
Database Agent	Database Monitor Database Stored Procedure Database Trigger SQL	
Application Services Agent	Entity Bean HTTP JMS Publish JMS Subscribe JMX-MBean Attribute Get JMX-MBean Attribute Set JMX-MBean Create Instance JMX-MBean Operation JMX-MBean Remove Instance JMX-MBean Subscribe POJO RMI Session Bean	Related to Java applications

Agent	Supported Job Types	Notes
Web Services Agent	Web Service POJO	Replaces existing web service job
z/OS Agent (used by distributed products only)	z/OS Regular z/OS Data Set Trigger z/OS Manual	
i5/OS	i5/OS Command File Trigger FTP CPU Monitoring Disk Monitoring IP Monitoring Process Monitoring Secure Copy Text File Reading and Monitoring	Formerly OS400 Agent

Job Type Icons

The following job type icons are used in CA WCC:

 Box (BOX)	 Secure Copy (SCP)
 Command (CMD)	 User Defined (specify 0-9)
 File Watcher (FW)	 z/OS Regular (ZOS)
 File Trigger (FT)	 z/OS Data Set Trigger (ZOSDST)
 FTP (FTP)	 z/OS Manual (ZOSM)
 i5/OS (I5)	
Object Monitoring Jobs	
 CPU Monitoring (OMCPU)	 Text File Reading and Monitoring (OMTF)











 Disk Monitoring (OMD)	 Windows Event Log Monitoring (OMEL)
 IP Monitoring (OMIP)	 Windows Service Monitoring (OMS)
 Process Monitoring (OMP)	
ERP Jobs	
 Oracle E-Business Suite Copy Single Request (OACOPY)	 SAP BW Process Chain (SAPBWPC)
 Oracle E-Business Suite Request Set (OASET)	 SAP Data Archiving (SAPDA)
 Oracle E-Business Suite Single Request (OASG)	 SAP Event Monitor (SAPEVT)
 PeopleSoft (PS)	 SAP Job Copy (SAPJC)
 SAP Batch Input Session (SAPBDC)	 SAP Process Monitor (SAPPM)
 SAP BW InfoPackage (SAPBWIP)	 SAP R/3 (SAP)
Database Jobs	
 Database Monitor (DBMON)	 Database Trigger (DBTRIG)
 Database Stored Procedure (DBPROC)	 SQL (SQL)
Application and Web Services Jobs	
 Entity Bean (ENTYBEAN)	 JMX-MBean Operation (JMXMOP)
 HTTP (HTTP)	 JMX-MBean Remove Instance (JMXMREM)
 JMS Publish (JMSPUB)	 JMX-MBean Subscribe (JMXSUB)
 JMS Subscribe (JMSSUB)	 POJO (POJO)
 JMX-MBean Attribute Get (JMXMAG)	 RMI (JAVARMI)
 JMX-MBean Attribute Set (JMXMAS)	 Session Bean (SESSBEAN)
 JMX-MBean Create Instance (JMXMC)	 Web Service (WBSVC)

Monitoring

The Monitoring application has been added to CA WCC. It is a thin-client, applet-free component that performs the same basic functions as the former Job Flow Monitoring component (for CA Workload Automation AE r11.3 servers only). You can add, edit, or delete views, monitor collections and jobs within the views, and view the dependencies for a job or collection in a graphical flow. A new *Monitoring Help*, describing the application in detail, is now available from the Help link.






Monitoring Status Icons

New icons have been added to represent CA Workload Automation AE job statuses, as follows:

Status	New Icon
Running	
Unknown	
Starting	
Success	
Failure	
Terminated	
On Ice	
Inactive	
Activated	
Restart	
On Hold	
Queue Wait	
Pending Machine	
Waiting for Resources	

Status	New Icon
Waiting for Reply	

New icons have been added to represent CA WCC server statuses, as follows:

Status	New Icon
Server Disconnected	
Server Not Configured	
Server Failure	
Server Connected	
Server Unknown	

Resources

The Resources application has been added to CA WCC. It lets you add, edit, or delete virtual resources, monitor resources, and view resource dependencies for a job or collection of jobs in a graphical view. You can specify box job or job predecessors that must complete successfully before a box job or job can run. Similarly, you can specify virtual resources that must be met before a box job or job can run. For example, you can create a virtual resource in Resources and then use that resource as a dependency for a job's execution. A new *Resources Help*, describing the application in detail, is now available from the Help link.

Reports - Forecast

The Reports – Forecast application has been added to CA WCC. It is a thin-client application that lets you create, generate, and display forecast reports of job runs that have occurred, or that will occur, during the time period you specify. The forecast report displays jobs, their duration, and their start and end times in tabular and Gantt chart formats on a single page. The Gantt chart also shows the time relationships of the jobs. You can use forecast reports to view job runs that occurred during a previous time interval, or specify a future time interval to help you predict your workflow. A new *Reports - Forecast Help*, describing the application in detail, is now available from the Help link.

Batch Interfaces

Three new batch interface utilities have been added to CA WCC enabling you to perform many basic and necessary CA WCC functions using the Windows command line or UNIX console.

The Monitoring Batch Interface lets the administrator insert, modify, and delete CA WCC monitoring views from the Windows command line or UNIX console as an alternative to using the Monitoring application. You can export and import existing views from one CA WCC r11.3 server to another, or create a text file that lets you insert, modify, or delete views.

The Filter Job Types Batch Interface lets the administrator create an authorized list of job types from the Windows command line or UNIX console for all or specified users. Because your enterprise may not use all of the supported CA Workload Automation AE r11.3 job types, as an administrator, you can remove unused job types from a list, and then review the list at any time and make changes as needed. This list is used to populate the Filter Job Types dialog in Quick Edit and Application Editor.

The Job Template Batch Interface lets the administrator create one or more templates that contain a set of job type-specific properties for each job type, and make them available for authorized users. The user can then select one of these user-defined templates from the Create Job or Create Object dialog in Quick Edit, or from the Palette in Application Editor, to create a job. For example, the administrator has created an FTP job template that includes the common job-type properties and the specific properties for the target FTP server. The authorized user can now select that template to create a new FTP job, and therefore, save time by not having to re-enter the information.

Help files that describe the capabilities and usage of these batch interfaces are available from the following locations:

Windows

WCC_installation_root\LauncherServer\webapps\wcc\Documentation\Help\BatchInterfaces

UNIX

WCC_installation_root/LauncherServer/webapps/wcc/Documentation/Help/BatchInterfaces

They are also available from the documentation bookshelf.

Security Guide

A new *Security Guide* is included with CA WCC r11.3. This guide consolidates all of the security information, previously included in multiple documents, into a single guide. Because CA EEM policies are defined for the CA Workload Automation AE instance and CA WCC, a best practices section has been included to help you evaluate your environment and set up an efficient security policy.

Chapter 2: Changes to Existing Features

This chapter documents changes made to existing features and includes a list of any features removed from the CA WCC r11.3.

Changed features include the following:

- CA Secure Socket Adapter (SSA) is installed with the CA Workload Automation AE SDK.
- Job Status Console
 - Additional alarms in the available Alarms list on the Alerts: Add an Alarm Filter and Alerts: Edit an Alarm Filter pages
 - Additional fields that let you filter on jobs that last started within a set period of time
 - Wait Reply status for the i5/OS job type
 - Integration with Quick View, replacing the Job Details and Job Details: Action pages
- Quick View
 - Preferences dialog that lets you set which reports should be displayed in Quick View
 - Paging of the job list when a job search returns more jobs than can be displayed on a single page
 - Revised Job Details table that displays related job properties together in categories
 - View JIL button that lets you view job details in JIL
 - Job icons in the Job Flow that indicate status, resources, global variables, and logical operators associated with the jobs
- Quick Edit
 - A scroll bar added to the Select Job Types dialog when the number of displayed job types exceeds the space available in the dialog
 - A redesigned Properties section that displays properties common to all job types, and properties relating to specific job types, in separate categories
 - A Customize dialog that contains tabs that let you select commonly used job types and set general application properties

- Application Editor
 - Ability to reuse an existing SAP job definition directly from SAP
 - A redesigned Properties section that displays related job properties together in categories
 - A drop-down list of commands that replaces the Load Previous, Save, Import Jobs, Commit, and Clear buttons
 - A Customize dialog that contains tabs that let you select commonly used job types and set general application properties
- High Availability
 - A single page that displays all information instead of tabbed pages
 - Ability to apply configuration packages, view history, and roll back configurations on a spectator server from the core server
 - Ability to select individual spectator servers and individual configuration components for synchronization
- Configuration Manager
 - Removal of Unicenter CA-7 and SAP server support
 - Removal of CAICCI links
 - Removal of users
 - A single page that displays all information instead of tabbed pages
 - Revisions to the Configuration Batch Interface
- CA EEM
 - Actions and resource changes to the CA EEM policies
 - Policies added and removed
 - WCC0002 application changed to WCC0003
- JAWS
 - JAWS™ is supported and is implemented through a web client component, JAWS Quick Monitor. JAWS Quick Monitor replaces the Critical Path Monitoring feature that was available in previous releases of CA WCC.
- Global users have been simplified
- Enhancements to the bookshelf
- Reorganized documentation
- Removal of the following components:
 - Job Flow Batch Interface and its associated help
 - Job Flow Design/Job Flow Monitoring and their associated help
 - Job Editor and its associated help

- Reporting and its associated *Reporting User Guide*

SSA Installation

CA Secure Socket Adapter (SSA) lets CA Technologies components utilize a single communications multiplexing port to ease firewall administration and minimize conflicts with other applications.

In previous releases, SSA was installed using the CA Common Components DVD. For this release, SSA is installed with the CA Workload Automation AE SDK (SDK). The SDK must be installed on the CA WCC server using the CA WCC DVD before you install CA WCC. For more information, see the *Implementation Guide*.

Job Status Console

Job Status Console has the following enhancements for this release:

- Three new alarms, WAIT_REPLY_ALARM, MUST_START_ALARM, and MUST_COMPLETE_ALARM, have been added to the available Alarms list on the Alerts: Add an Alarm Filter and Alerts: Edit an Alarm Filter pages.

You can specify a must start time for a job, which is the relative or absolute amount of time after a job's scheduled start time within which a job must start. Similarly, you can specify a must complete time for a job, which is the relative or absolute amount of time after a job's start time within which a job must complete. The must start and must complete times for a job can be set in the date conditions and start times properties. If the job does not start or complete by the specified times, an alarm is issued.

If an i5/OS job is waiting for a user reply before it can continue running, a notification is issued by the i5/OS agent requesting this reply and the job's status changes to a WAIT_REPLY status. To satisfy the request, the operator must send a REPLY_RESPONSE event, signaling the agent to resume the job run. You can create an alarm filter to notify you when a job requires this intervention. CA Workload Automation AE automatically acknowledges the alarm once the REPLY_RESPONSE event has been sent.

- Two new fields have been added to the Job Status: Edit a Filter and Job Status: Add a Filter pages for CA Workload Automation AE job filters. You can now filter on jobs that last started within the specified number of days, hours, or both days and hours.
- A new status for i5/OS jobs, the Wait Reply status, is initiated from the i5/OS agent when a job requires a response from the operator before it can continue running. The Wait Reply status has been added as a filter criterion on the Job Status: Add a Filter and Job Status: Edit a Filter pages, letting you filter on jobs with that status. It has also been added as a job status option on the Alerts: Add a Policy and Alerts: Edit a Policy pages, letting you create alert policies that will notify you when a job has entered this state.
- The Job Details and Job Details: Actions pages have been removed from Job Status Console. Now, when you select a job from the Job Status: Jobs and the Alerts: Alerts pages, Quick View opens in a new window, letting you view the job details, send an event, or display CA Workload Automation AE job logs.
- Support for the new job types for r11.3 has been added to Job Status Console. The Type field on the Job Status: Jobs page displays the job type for each job.

Quick View

Quick View has the following enhancements for this release:

- You can select the report types that you want to be displayed when the job you search for is found. Three report types are available for selection in the Customize dialog: Dependent Jobs, Starting Conditions, and Job Runs. By default, all report types are selected for display. User preferences are saved between sessions.
- The Search Results section contains arrow buttons that let you page forward and backward through the list when it contains more than 50 items.
- Job properties can be displayed in the Job Details section in either tree (table) format or as JIL statements. The Show JIL/Show Tree button is provided to switch between formats.

In the tree format, job properties are displayed in categories which can be expanded or collapsed to show details as needed. For example, if you are interested only in job-specific property details for the selected job, you can expand that category and collapse the others.

- The Job Flow section contains icons that represent resources, global variables, and logical operators associated with the jobs displayed. Additionally, the job icons indicate status. These icons are described in a legend window.
- A new status for i5/OS jobs, the Wait Reply status, is initiated from the i5/OS agent when a job requires a response from the operator before it can continue running.

Quick Edit

Quick Edit has the following enhancements for this release:

- The Search section has been enhanced to include additional key fields that you can use to search for specific objects. For example, the Search Job selection now contains the Name, Box, Owner, Send to Machine, Run Calendar, Group, Application, Run Days, Exclude calendar, Description, Min Run Time, Max Run Time, and Job Types fields in which you can enter search criteria to narrow your search.
- The Properties section has been modified to include common property categories and a job-type specific category that contains all the properties associated with a particular job type. If you are interested in only the job-type specific properties for a job, you can expand that category and collapse the common property categories.
- A dialog has been added that lets you set the job types that display in the Create Object, Create Job, and Select Job Types dialogs and general application properties.
- Job templates can be imported and displayed in the Create Object and Create Job dialogs in Quick Edit for each job type. This feature lets you easily create one or more new jobs with predefined properties.
- Icons used in the job flow are described in a legend window that is accessible from the Flow toolbar. You can use the legend window to identify the job types, status icons, and line dependencies displayed in the flow.

Application Editor

Application Editor has the following enhancements for this release:

- SAP drag and drop support has been added in Application Editor. SAP drag and drop lets you reuse an existing SAP job definition from an SAP server.
- A dialog has been added that lets you set the job types that display in the Palette and general application properties.
- Job templates can be imported and displayed in the Palette. This feature lets you easily create a new job with predefined properties.
- A drop-down action list has been added that includes commands that replace the former Load Previous and Start New buttons.
- Group and Application fields have been added to the Import Jobs dialog for use as additional search criteria. You can also recursively import box contents.
- Icons displayed in the job flow are described in a legend window that is accessible from the Graph toolbar.
- The Print and Find buttons have been moved to the Graph toolbar.

High Availability

High Availability has the following enhancements for this release:

- All of the information formerly contained in tabbed pages is now contained in individual sections on a single page displayed on the core or spectator server.
- You can configure the table in each section to display the number of rows you want.
- You can now do the following from the core server:
 - Select the components on one or more spectator servers that should be synchronized with the core server in one operation.
 - View the history of package activity on a spectator server.
 - Apply a configuration package on a spectator server.
 - Roll back the configuration on a spectator server.

Configuration Manager

Configuration Manager has the following enhancements for this release:

- All of the information, formerly contained in tabbed pages, is now contained on a single page.
- You can add, delete, copy, and modify multiple servers at a single time using the Server Management Console dialog.
- A Search section has been added that lets you search by server name and server type.
- Only changes to server definitions require deployment. You do not need to deploy changes to application-specific preferences.

The following have been removed from Configuration Manager:

- CAICCI links
- Users
- CA-Unicenter NSM Auxiliary Services, CA-Unicenter, CA-Unicenter (NR-Server), CA-Unicenter (Remote), and CA-Unicenter (Transport) services

CA EEM

CA EEM has the following enhancements, listed by policy, for this release:

CA EEM Application

The CA EEM Application WCC0002 has been changed to WCC0003.

ObjectControlOverrideDefault

This policy is new and applies to the Quick Edit application.

- Resource: */Override
- Actions: create and delete

ApplicationAccess

The following actions have been added:

- ReportsForecast
- CommandLineConsole
- JobStatusViews
- MonitoringViews
- Resources
- Monitoring

The following actions have been removed:

- JobEditor
- JobFlowMonitoring
- JobFlowDesign
- wccMain
- WebServicesBasic
- WebServicesAdvanced
- Reporting

The following action has been renamed:

- CPM has been changed to JAWS

ConfigurationControl

The *DEFAULT users filter has been removed from the ConfigurationControlCredentialsAdminDefault policy.

The following filter has been added to the ConfigurationControlCredentialsAdminDefault policy:

```
WHERE          named attribute: name:option3  ==      value:
val:_MONITOR_
```


OR named attribute: name:option3 == value: val:_GLOBAL_

The following policies have been added:

- ConfigurationControlMonitoringUserDefault
 - Resource: Monitoring/view/viewName/JobDeps
 - Action: access
 - Resource: Monitoring/flow/layout
 - Action: access
- ConfigurationControlMonitoringAdminDefault
 - Resource: Monitoring/server/serverName/cache
 - Action: delete
- ConfigurationControlFrameworkThemesDefault
 - Resource: FrameworkTheme/theme/instance/themeName
 - Action: access
- ConfigurationControlEventDefault
 - Resource: */Event
 - Action: access

The following policy has been removed:

- ConfigurationControlCPMDefault

The following policy names have been changed:

- ConfigurationControlCredentialsUpdateUserDefault to ConfigurationControlCredentialsUserDefault
- ConfigurationControlCredentialsAdminUserDefault to ConfigurationControlCredentialsAdminDefault

JobActionAutoSys

This resource class has been removed.

JobActionCA7

This resource class has been removed.

PortletAccess

This resource class has been removed. The portlets previously secured here have been redefined as applications (Enterprise Command Line was renamed to CommandLineConsole) and moved into the ApplicationAccess policy.

LogAccess

The action EventProcessorLog has been changed to SchedulerLog.

MonitorViewControl

The following resources have been deleted:

- Server/*
- */PriorRun
- */RunLog

The following actions have been deleted:

- Publish
- Resync

ObjectAccess

The following resources have been added:

- */Forecast/*
- */JobStatus/*

The following resources have been deleted:

- */GlobalVariable/*
- */Calendar/*
- */ExtendedCalendar/*
- */Cycle/*
- */Job/*
- */Jobset/*
- */Report/*

ObjectControl

The following resource has been added:

- */Forecast/*

The following resources have been deleted:

- */ARFDef
- */ARFSet
- */Dataset
- */OneTimeOverride

JAWS

CA WCC supports a third-party application from Terma Software Labs named JAWS™, version 3.5, formerly JAWS Workload Scheduling Manager, version 3.2.7. This application lets you monitor critical path job streams in your workload automation environment.

Note: The JAWS application requires a database. For more information, see the JAWS documentation.

JAWS is now implemented through a web client component, JAWS Quick Monitor. A page that calls JAWS Quick Monitor is created in CA WCC when you define and deploy a JAWS server using CA WCC Configuration Manager. If you are monitoring more than one JAWS server, each server has its own JAWS page. Configuration Manager lets you define the tab text for each page so you can uniquely identify each server that you want to monitor.

JAWS Quick Monitor replaces the Critical Path Monitoring feature that was available in previous releases of CA WCC. Additionally, *Critical Path Monitoring Help* has been replaced by *JAWS Help*.

Changes in Setting up a Monitor User

The process for creating a monitor user has been simplified in CA WCC r11.3. The Monitor ID, defined in CA WCC Configuration Manager and in CA Workload Automation AE, now has extended functionality that includes monitoring for all CA WCC users, and replaces the `_JSC_DEFAULT_` user from previous versions of CA WCC.

The enhancements to setting up the monitor user include:

- You no longer need to set up a separate monitor user id and password for Monitoring and Job Status Console. The Monitor ID and Monitor Password, entered in the server definition for each CA Workload Automation AE back-end server defined to CA WCC, replaces the global session User ID and Password fields previously set up in the Job Status Console Environment Properties.

Note: You must designate a Monitor id and Monitor Password for each CA Workload Automation AE instance defined in Configuration Manager.

- Changes in the ConfigurationControlCredentialsAdminDefault policy filter are no longer necessary.
- The monitor user is automatically added to Credentials when the server is defined in Configuration Manager, letting you change the user id and associated password without changing the server definition. If you choose to change that user id and password in Credentials, it will be applied to Monitoring automatically, and applied to Job Status Console at the next service restart.

Note: If you change the user id, the new user id must be a valid CA EEM user or, if using CA Workload Automation AE native security, the user must be defined on the CA Workload Automation AE server using `autosys_secure` and have SUPER EDIT rights.

For information about setting up the monitor user, see the *CA WCC Implementation Guide*.

Documentation Bookshelf

The documentation bookshelf is an HTML page that lets you access and search the documentation included with CA WCC. CA WCC documentation consists of guides and online help. Guides are in PDF format and online help systems are in HTML format. The HTML bookshelf contains links that open the help systems and guides. Help systems open in a browser window and guides open in Adobe Reader within a browser window.

During CA WCC installation, documentation is installed in the Documentation folder within the root directory of CA WCC. If you are using Internet Explorer, you should open the bookshelf by double-clicking Bookshelf.hta in the Documentation folder. If you are using a different browser, you should open the bookshelf by double-clicking Bookshelf.html in the Documentation folder.

Note: The Bookshelf.hta file works only with Internet Explorer. This file circumvents the active content pop-up that Internet Explorer displays when you run an HTML file with active content from a hard drive.

The bookshelf also lets you search all guides and online help for one or more words. The search results page contains links to the guides and help topics that contain the words you searched for.

Notes:

- When you select a guide in the search results page, the guide opens and the first instance of the word is highlighted. To find additional instances of the word, you can use the search functionality of Adobe Reader.
- When you select a help topic in the search results page, the topic opens. You can then use the search functionality of your browser to find the word in the topic.

Documentation Set Changes

The CA WCC documentation set has been reorganized for this release.

The *Readme* contains the following changes:

- Systems requirements have been moved to the *Release Notes*.
- Installation considerations and the default ports table have been moved to the *Implementation Guide*.

Note: Operating system support, general considerations, known issues, and published fixes (patch information) remain in the *Readme*.

The *Implementation Guide* contains the following changes:

- These installation procedures for common components have been removed. The installation procedures can now be found in the *CA Common Components Implementation Guide*, included with the CA Common Components DVD.
- The "Installing and Configuring Event Management" chapter has been removed from the guide. The installation procedure for Event Management can be found in the *CA Common Components Implementation Guide*, included with the CA Common Components DVD, and the configuration topics about CA Workload Automation AE message forwarding to Event Management can be found in the *CA Workload Automation AE Implementation Guide*, included with the CA Workload Automation AE DVD.
- The "Web Service Job-Related Information" appendix has been removed from the guide. The new Web Service job type is defined in a different way in this release.
- An installation checklist for CA WCC has been added to the installation chapter.
- The first chapter, "Introduction to CA WCC Implementation" has been updated, and a small-scale deployment example has been added.
- The Reporting installation chapter has been removed.

The *Reporting User Guide* has been removed from the doc set.

Removal of Reporting Component

The Reporting component has been removed from CA WCC r11.3. The Reporting DVD, the two options on the CA WCC installation DVD, and the Reporting application are no longer accessible. However, a new Reporting application is planned for the next CA WCC release.

Chapter 3: System Requirements

System requirements are provided for the servers in the CA WCC environment. For supported operating systems, information about required patches, and known issues, see the *CA WCC Readme*.

Notes:

- For CA Common Components and CA Workload Automation AE system requirements, see the appropriate *Release Notes*.
- After CA WCC is installed, you can check the version of software components used in CA WCC and other environmental information by clicking the System Information link and scrolling down to the appropriate section.

This section contains the following topics:

[CA WCC Server](#) (see page 31)

[CA WCC Client](#) (see page 35)

[Event Management Server](#) (see page 35)

[CA Workload Automation AE Servers](#) (see page 36)

CA WCC Server

The main CA WCC product is installed on the CA WCC server. A DVD-ROM drive is required for installation. Alternatively, you can mount the DVD/ISO image as a drive.

Note: Note: On UNIX and Linux, you must mount the DVD/ISO image as a drive instead of using ISO Buster or a similar tool.

As the number of users and the number of jobs monitored by CA WCC increases, you may see a performance benefit from adding additional memory and/or additional processing power. Additional processing power can be added either by using a faster CPU or by adding additional CPUs.

Hardware Requirements

Depending on the operating system, specific CA WCC server hardware requirements must be met or exceeded for CA WCC to install and run correctly.

Important! The following requirements apply to installing CA WCC on the CA WCC server only. Installing CA EEM on the CA WCC server is not recommended; however, if you plan to install other components such as CA EEM or Event Management on the CA WCC server, the RAM and hard disk space requirements for those components must be added to the RAM and hard disk space requirements listed for CA WCC. Additionally, the fastest processor recommended for any single component should be used.

Note: The requirements that follow are for a typical enterprise with up to two CA Workload Automation AE instances and up to 15,000 jobs in the database of each CA Workload Automation AE instance. More detail on requirements by the size of the enterprise will be available following the initial Beta.

The requirements for a Windows or Linux x86 computer are as follows:

- 2 GHz or higher processor recommended.
- Two CPUs minimum, four CPUs recommended for large enterprises.
- At least 4 GB of RAM; 8 GB recommended.

Important! On 32-bit operating systems, the minimum requirement is 4 GB; on 64-bit operating systems, we strongly recommend 6 GB at minimum for optimal performance.

- 6-7 GB of hard disk space for the installation, including CA WCC and the required common components.

The requirements for a Solaris computer are as follows:

- 2 GHz or higher processor recommended.
- Two CPUs minimum, four CPUs recommended for large enterprises.
- At least 4 GB of RAM; 8 GB recommended.

Important! On 32-bit operating systems, the minimum requirement is 4 GB; on 64-bit operating systems, we strongly recommend 6 GB at minimum for optimal performance.

- 6-7 GB of hard disk space for the installation, including CA WCC and the required common components.

Note: On UNIX and Linux, the /tmp directory should have a minimum of 500 MB of space available. On Windows, %TEMP% and %TMP% must point to a directory with a minimum of 500 MB of space available.

Software Requirements

Common component Secure Socket Adapter (SSA) must be installed on the CA WCC server before you install CA WCC. Additionally, common component CA EEM must be installed and running before you install CA WCC. CA EEM is typically installed on a dedicated server. Common components are installed using the CA Common Components DVD.

Notes:

- CA WCC r11.3 supports all common components installed using the CA Common Components DVD r11.3.
- If CA EEM is not configured for failover, all instances of CA WCC in a High Availability group must reference the same instance of CA EEM. If CA EEM is configured for failover, the instances of CA WCC in a High Availability group do not need to reference the same instance of CA EEM; however, the CA EEM instances referenced must be in the same failover setup.

Note: For information about configuring CA EEM for failover, see the *CA Embedded Entitlements Manager Getting Started Guide*, available from CA Support Online.

- For information about installing or upgrading common components, see the *CA Common Components Implementation Guide*.

The following required software is automatically installed with CA WCC:

- Apache™ Tomcat 6.0.28
- Java Runtime Environment (JRE) 1.6.0 update 14

Note: This is installed as a private JRE and is used by the CA WCC Servlet engines.

Database Requirements

CA WCC utilizes private databases for Job Status Console Alerts, Monitoring, and Reports.

The Job Status Console Alerts database stores alerts for Job Status Console, a component of CA WCC. The Job Status Console Alerts database is automatically created during the CA WCC installation.

The Monitoring database stores data to calculate and render Monitoring views. By default, a Derby database is selected to be installed for the Monitoring application during the CA WCC installation; however, you can alternatively specify one of the following existing databases:

- Microsoft SQL Server 2008
- MySQL Enterprise 5.1
- Oracle 11g

The Reports database stores data used by the new Reports - Forecast application. A Derby database is automatically created during the CA WCC installation.

Notes:

- Each CA WCC server must have its own Monitoring database. Additionally, in a High Availability group, each core or spectator server must have its own Monitoring database; a Monitoring database cannot be shared among High Availability member servers.
- Each CA WCC server must have its own Reports database. Additionally, in a High Availability group, each core or spectator server must have its own Reports database; a Reports database cannot be shared among High Availability member servers.
- The CA WCC r11.3 Reports database is not related in any way to the Reports database used with BusinessObjects Enterprise reporting in previous versions of CA WCC.

Network Requirements for the High Availability Feature

CA WCC installed in a High Availability environment requires multicast support, meaning that the core and spectator machines must be able to send and receive multicast packets. In theory, multicast packets can be sent within a single subnet. However, if the subnet spans multiple switches, then it is possible that the bridging technology used may block multicast packets between the switches. Also, some advanced switches have the ability to block multicast packets within the switch. To cross subnets, the routers connecting each subnet must be configured to propagate the multicast packets.

CA WCC Client

You can access CA WCC remotely.

Note: Access to CA WCC is available only to users created in or referenced by CA EEM.

Hardware Requirements

The following client hardware requirements must be met or exceeded for CA WCC to run correctly on a Windows x86 computer:

- At least 512 MB of RAM; 1 GB or more recommended.
- 1 GHz processor; 2 GHz or more recommended.
- Minimum screen resolution of 1024 x 768.

Software Requirements

The following browser requirements must be met or exceeded for CA WCC to run correctly:

- CA WCC supports the following web browser and versions:
 - Microsoft Internet Explorer 7.0 and 8.0
- If you are planning to use the Event Console feature, you must download the Java Runtime Environment (JRE) from <http://java.sun.com>.

Event Management Server

CA WCC supports the Event Management included with either CA NSM or CA Common Services.

CA Common Services Event Management is installed using the CA Common Components DVD, and is typically installed on a dedicated server.

Note: For information about installing Event Management, see the *CA Common Components Implementation Guide*. For information about installing the Event Management included with CA NSM, see the CA Network and Systems Management documentation.

Hardware Requirements

For Event Management hardware requirements, see the *CA Common Components Release Notes*.

Software Requirements

The Event Manager installation requires Microsoft Internet Server, Apache HTTP Server, or Netscape Enterprise Server to be installed and running, so that URLs created as part of the installation are available. Although the Event Manager will function if this requirement is not met, URL-dependent features such as the Event Management online help will not be available.

CA Workload Automation AE Servers

CA WCC r11.3 supports CA Workload Automation AE r11.3 servers only.

Hardware Requirements

For CA Workload Automation AE hardware requirements, see the *CA Workload Automation AE Release Notes*.

Software Requirements

The following are CA WCC requirements for CA Workload Automation AE servers:

- If CA EEM without failover is implemented with CA Workload Automation AE, the CA Workload Automation AE servers and the CA WCC servers must reference the same instance of CA EEM. If CA EEM with failover is implemented with CA Workload Automation AE, the CA Workload Automation AE servers and the CA WCC servers do not need to reference the same instance of CA EEM; however, the CA EEM instances referenced must be in the same failover setup.

Note: For information about configuring CA EEM for failover, see the *CA Embedded Entitlements Manager Getting Started Guide*, available from CA Support Online.

- If cross-platform scheduling is enabled on the CA Workload Automation AE server, CAICCI must be installed on the CA Workload Automation AE server. CAICCI is a common component, installed using the CA Common Components DVD.
- To enable CA WCC Enterprise Command Line and Reports - Forecast functionality with CA Workload Automation AE, you must install the Command Sponsor (also referred to as WCC Command Sponsor) using the CA Workload Automation AE DVD.