CA Configuration Automation®

Release Notes
r12.8 SP02

CA Technologies Product References

This document references the following CA components and products:

- CA Network Discovery Gateway (CA NDG)
- CA Embedded Entitlements Manager (CA EEM)
- CA Business Intelligence (CA BI)

Contact CA Technologies

Contact CA Support

For your convenience, CA Technologies provides one site where you can access the information that you need for your Home Office, Small Business, and Enterprise CA Technologies products. At http://ca.com/support, you can access the following resources:

- Online and telephone contact information for technical assistance and customer services
- Information about user communities and forums
- Product and documentation downloads
- CA Support policies and guidelines
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Contents

Chapter 1: Overview

This document contains information about new features and enhancements in this release of CA Configuration Automation. Additionally, it contains installation requirements and considerations, an overview of product documentation, and information about contacting CA Technical Support (see page 3).

Chapter 2: New Features and Enhancements

This section lists the new features and enhancements in this release:

Run Compliance Job using Live Browse

You can now create compliance rules for objects with the Create a New Rule Group with Live Browse option from the Run Compliance Job option in the Tasks menu. You can:

- Browse the File System, Windows Registry, Windows Services, and Group Policies objects in a server.

- Create compliance rules for the objects in the complaint server.

- Run the compliance job for the selected servers, service, or server groups.

- Run the remediation job to remediate non-compliant objects on services, servers, or server groups using the Remediation Job tab.

Use the Script Editor to validate the scripts

You can use the Script Editor to write the scripts and execute the script on target machine on demand while developing the script.

- **Blueprint Integration:** Script Editor is integrated to Blueprint Configuration Executables bucket so that you can add, modify and execute the scripts.

  Note: OOTB Configuration Executables cannot be modified.

- **Live Browse Integration:** Script Editor is integrated with in the Live Browse functionality and is also enhanced for adding or updating a rule through Live browse

Report Enhancements

Under Reports tab, for Rule Compliance (Server) report, the By Server and Rule Group option provides details on passed and failed rules in each rule group for each selected server. Moreover, for the Rule Compliance (Service) report, the By Service and Rule Group option provides details on passed and failed rules in each rule group for each server in a selected service.

Microsoft Windows 2012 Support

As a compliance to standards Windows 2012 is now supported with current release.

Database support

CA Configuration Automation administrator can use the following database:

- Microsoft SQL Server 2014.

- Oracle 12c database that is installed on the following environments:

    - RHEL 6 64-bit (OS patch level 2.6.32-279.el6.x86_64)

    - Windows 2008 R2 64-bit (Version 6.1.7601)

    - AIX 6.1 64-bit (OS patch level 6100-08)

    Note:

    - The CCA database creation on Oracle 12c is certified for the *pluggable database* (PDB) service name with local user convention.

    - CA Configuration Automation12.8 SP02 does not support the creation of CCA database, if:

    - The service name or SID is related to container database (CDB$ROOT).

    - The Common User notation starts with C## or c##.

Java JRE Support Update

CA Configuration Automation r12.8 SP02 installs Java JRE 1.7.0_51 before installing the product.

Enhanced Search in Blueprint Test Discovery Field

You can now type a Blue Print component name in the search field and the list of available components displays the components that starts with your search criteria.

Command Line Enhancements

You can automate the administration process of updating the Server Management Profile, Server Access Profile and Service Management Profile using the assignprofile task available in cca command-line utility "ccautil".

Interpreted Clusters

With the new interpretation type called interpreted cluster, you can define the cluster name to form a relationship between cluster nodes and the respective target database instances. The cluster discovery information, by default is available for Oracle 11g Database Instance (UNIX) and Oracle 10g Database Instance (UNIX) blueprints on AIX and RedHat cluster platforms.

Component Details (Services) Report Template Target tab includes Available Servers

Beginning in CA Configuration Automation r12.8 SP02, the Target tab in the Report Templates lists the shuttle control of Available Servers. The report fetches multiple servers for a single selected component blueprint.

Delete Steps during Remediation Job Execution

During the Remediation Job execution for Compliance and Jobs, you can now delete multiple steps for a server using the Delete Steps action that is available under the Select Actions drop-down list in the Servers tab.

Run CCA reports in CSV format

You can now schedule or run CCA reports in CSV format. The CSV format is generated when you use the Send the Report As Attachment With Notification option, Destination Delivery Type as File System, and schedule or run the CCA report.

This section contains the following topics:

New and Updated Blueprints

This release includes the following new or updated Blueprints:

Blueprint Name	Component Version	Blueprint Version
Windows Server 2012 With Compliance Rules	2012	1.0.0
Microsoft Exchange Server 2010	2010	1.0.0
Oracle Database 10g (UNIX)	10.*	2.0.0
Oracle Database 10g Instance (UNIX)	10.*	2.0.0
Oracle Database 11g (UNIX)	11.*	2.0.0
Oracle Database 11g Instance (UNIX)	11.*	2.0.0
Microsoft SQL 2008 Server Instance	10.*	1.0.0
Microsoft SQL 2008 Server Database	10.*	1.0.0
Microsoft SQL 2012 Server Instance	11.*	1.0.0
Microsoft SQL 2012 Server Database	11.*	1.0.0

Notes:

■ With Oracle 10g and 11g Unix blueprints, you can discover the instances in each database as components in addition to the Oracle Database server.

■ With Microsoft SQL 2008 and 2012 blueprints, you can discover the SQL server instance and the databases in each SQL server instance as components.

Chapter 3: Operating Environment Support

This chapter describes the operating environments that are supported by the various CA Configuration Automation components.

This section contains the following topics:

CA Configuration Automation Server

CA Configuration Automation Server software installation is supported on the following operating environments:

- Microsoft Windows Server 2008 (32-bit and 64-bit versions)

- Microsoft Windows Server 2008 R2

- Microsoft Windows Server 2012

- Novell SUSE Linux 9, 10, and 11 (32-bit and 64-bit versions)

- Red Hat Enterprise Linux 5 and 6 (32-bit and 64-bit versions)

- Solaris 10 (32-bit and 64-bit versions)

Note: Use a dedicated server with a 64-bit operating system for the CA Configuration Automation Server when possible.

CA Configuration Automation Database

The following database servers support CA Configuration Automation Database software installation:

- Microsoft SQL Server 2008 (with current patches)

- Microsoft SQL Server 2012

- Microsoft SQL Server 2014

- Oracle 11g

    - OS: Linux, AIX, and Windows only

    - Database Versions: 11.2.0.1, 11.2.0.3, 11.2.0.4

From CA Configuration Automation r12.8 SP01 onwards, Oracle 11g ASM environments are certified for the following platforms:

■ RHEL 5 64-bit

  Oracle Database 11g (11.2.0.1) available on ASM Cluster Configuration with Oracle RAC

■ Windows 2008 (x64)

■ Oracle Database 11g (11.2.0.1) available on standalone ASM

Note: When possible, use a dedicated server for the database server.

■ Oracle 12c database is supported for the following environments:

  ■ RHEL 6 64-bit (OS patch level 2.6.32-279.el6.x86_64)

  ■ Windows 2008 R2 64-bit (Version 6.1.7601)

  ■ AIX 6.1 64-bit (OS patch level 6100-08)

  Notes:

  ■ The CCA database creation on Oracle 12c is certified for the pluggable database (PDB) service name with local user convention.

  ■ CA Configuration Automation12.8 SP02 does not support the creation of CCA database, if:

    ■ The service name or SID is related to container database (CDB$ROOT).

    ■ The Common User notation starts with C## or c##.

CA Configuration Automation Grid

The following operating environments support CA Configuration Automation Grid software installation:

■ Microsoft Windows 2008 Server (32-bit and 64-bit versions)

■ Microsoft Windows 2008 Server R2

■ Microsoft Windows Server 2012

■ Novell SUSE Linux 9, 10, and 11 (32-bit and 64-bit versions)

■ Red Hat Enterprise Linux 5 and 6 (32-bit and 64-bit versions)

■ Solaris 10 (32-bit and 64-bit versions)

Note: Use the 64-bit operating system version when possible.

CA Configuration Automation Agent

The following operating environments support CA Configuration Automation Agent software installation: AIX v6.1 (32-bit emulation mode and 64-bit version) and AIX v7.1 (64-bit version)

- CentOS Linux release 5 (requires that the compat-libstdc++-33 and libXp-1.0.0-8.1.el5 components are installed on the agent host)

- Debian 6.0.1

- HP-UX 11i (32-bit and 64-bit versions), HP-UX 11i v3 Itanium and PA-RISC (32-bit, and 64-bit emulation mode)

- Microsoft Windows 2003 Server with SP2 or later, Windows 2008 Server (32-bit and 64-bit versions), and Microsoft Windows 2012

- Oracle Linux 4, 5 and 6 (Certified on 4.8 x64, 5.7 x64, 6.2 x86/x64)

- Red Hat Enterprise Linux 4, 5, and 6 (32-bit and 64-bit versions)

- Solaris 10 (32-bit and 64-bit versions) and Solaris 11 (Sparc & Intel x64)

- SUSE Linux 8, 9, 10, and 11 (32-bit and 64-bit versions)

- Ubuntu Linux version 12, 13 (Install ia32-libs on 64-bit machines for the 32-bit CCA agent to work)

  Note: CCA Agent is certified on Ubuntu 12.10 x64, and Ubuntu 13.04 x86.

The CA Configuration Automation Agent can interrogate databases on its installed server (except for CentOS Linux). The following table lists the databases that each CA Configuration Automation Agent platform (left column) can interrogate:

Agent Database Connectivity	Oracle DB 11g	Microsoft SQL 2008	Microsoft SQL 2012	MySQL 5.1
AIX 6.1 (64-bit)	X			
Solaris 10				X
Red Hat Enterprise Linux 5 x86 (64-bit)				X
Red Hat Enterprise Linux 6 x86 (32-bit)				X
Red Hat Enterprise Linux 6 x86 (64-bit)	X			
Windows 2008 32-bit	X	X		X
Windows 2008 64-bit	X	X	X	X
Windows 2012 64-bit	X	X	X	X

Note: Oracle 11g 32-bit applications are installed in 32-bit compatibility mode on 64-bit operating systems.

Network Discovery Gateway

The following operating environments support Network Discovery Gateway (NDG) software installation:

- Microsoft Windows Server 2008 (32-bit and 32-bit compatibility mode on 64-bit platforms)

- Microsoft Windows Server 2008 R2

- Microsoft Windows Server 2012

The following table describes the softagent platform coverage for NDG discovery.

Note: The supported versions for VMware ESXi are 4.x, 5.0, 5.1, and 5.5.

Legend

- x = denotes supported item

- NA = item is Not Applicable for the given platform

- *x = denotes supported on specific versions

- *1 = Itanium only, not PA-RISC

- *2 = get from cpu descr

- *3 = looks like just OS version

- *4 = is "64-bit", should be PowerPC

- *5 = only VMware related services

- *6 = partial coverage

- *7 = same for all interfaces

- *8 = only Window 2008

- *9 = not supported on Solaris VM

- *10 = Supports SATA and IDE hard disk

- *11 = Only RHEV name without release info

Supported Attributes	Windows	AIX	HP (ia64)	HP (PA-RISC)	Solaris	Linux
host name	x	x	x	x	x	x
manufacturer	x	x	x	x		x

Supported Attributes	Windows	AIX	HP (ia64)	HP (PA-RISC)	Solaris	Linux
model	x	x	x	x		x
serial_number	x	x	x	x		x
os_detail	x	x	x	x	* 2	x
os_type	x	x	x	x	x	x
os_vrsn_major	x	x	x	x	x	
os_vrsn_minor	x	x	x	x	x	
os_kernel	N/A		x	*1	* 3	x
domain name	x	x			x	x
processor_name	x	x	x			x
processor_arch	x	*4	x	x	x	
processor_descr	x					
processor_manufacturer	x		x	x		x
processor_max_clock_speed	x	x	x	x	x	x
processor_l2_cache_size	x	x			x	x
processor_l2_cache_speed	x	NA	NA	NA	NA	NA
processor_logical_cnt	x	x	x	x	x	x
memory_capacity	x	x	x	x	x	x
memory_type	x	NA	NA	NA	NA	x
memory_speed	x	NA	NA	NA	NA	x
memory_slots_in_use	x	x	NA	NA	x	x
memory_total_slots	x	NA	NA	NA	NA	NA
bios_name	x	NA	NA	NA	x	x
bios_manufacturer	x	NA	NA	NA	NA	x
bios_serial_number	x	NA	NA	NA	NA	NA
IPv4 address	x	x	x	x	x	x
IPv6 address(es)	x	x			x	x
mac address	x	x	x	x	x	x

Supported Attributes	Windows	AIX	HP (ia64)	HP (PA-RISC)	Solaris	Linux
interface index	x	x	x	x	x	x
interface speed	x	x	x	x	*6	x
interface duplex	x	x	x	x	*6	
interface negotiation	x	x	x	x		
default IPv4 gateway	x	x	x	x	*6	x
default IPv6 gateway	x					x
IPv4 dhcp server	x					
IPv6 dhcp server						
dns domain	x	*6	x	x	*7	x
service_display_name	x	NA	NA	NA	x	NA
service_key_name	x	x	x	x	x	x
service_logon_as	x	x	x	x	x	x
service_path	x	x	x	x	x	x
service_startup	x	NA	NA	NA	NA	NA
application_name	x	x	x	x	x	x
application_publisher	x	NA	x	x	x	x
application_version	x	x	x	x	x	x
application_arch	NA	NA	x	x	x	x
application_install_date	x	x	x	x	x	x
application_install_locati on	x	x	x	x	x	x
application_is_patch	x		x	x		
physical_disk_index	x	x	x	x		
physical_disk_name	x	x	x	x	x	x
physical_disk_size	x	x	x	x	x	x
physical_disk_interface_t ype	x	x			x	x

Supported Attributes	Windows	AIX	HP (ia64)	HP (PA-RISC)	Solaris	Linux
physical_disk_media_type	x	NA			x	
physical_disk_model	x	x	x	x		
physical_disk_free_space	x	x	x	x	x	x
physical_disk_serial_number	*8	x	*6	*6	*9	*10
logical_partition	x	x	x	x		
logical_partition_name	x	x	x	x		x
logical_partition_index	x	x	x	x	x	x
logical_partition_filesystem	x	x			x	x
logical_partition_is_bootable	x	x			x	x
logical_partition_is_primary	x	x				
logical_partition_size	x	x	x	x	x	x
logical_partition_free_space	x	NA	NA	NA	NA	NA
cd_dvd_drive_description	x	x	x	x	x	x
cd_dvd_drive_dev_id	x	x	x	x	x	x
cd_dvd_drive_media_type	x	x	x	x	x	x
tape drives	x					
tape drive_desc	x					
tape drive_dev_type	x					
tape drive_manufacturer	x					
filesystem name	NA	x	x	x	x	x
filesystem size	NA	x	x	x	x	x

Supported Attributes	Windows	AIX	HP (ia64)	HP (PA-RISC)	Solaris	Linux
filesystem mount location	NA	x	x	x	x	x
filesystem free_space	NA	x	x	x	x	x
Open Ports	x	x	x	x(limitations)	x	x

Softagent Platform Coverage for NDG Discovery

Supported Attributes	z/Linux	VMware ESXi (with SSH)	VMware (Web Services)	IBM-PowerVM (P5/P6)	Solaris Non Global Zones	Red Hat Enterprise Virtualization
host name	x	x	x	NA	x	x
manufacturer	x	*x	x	NA	NA	NA
model	x	*x	x	NA	NA	NA
serial_number	x	*x	NA	NA	NA	NA
os_detail	x	*x	x	NA	x	* 11
os_type	x	x	x	NA	x	x
os_vrsn_major		NA	x	NA	x	NA
os_vrsn_minor		NA	x	NA	x	NA
os_kernel		x	NA	NA	NA	NA
domain name	x	NA	NA	NA	NA	NA
processor_name		x	x	NA	x	x
processor_arch		NA	NA	NA	NA	NA
processor_descr		NA	NA	NA	NA	NA
processor_manufacturer	x	x	NA	x	NA	NA
processor_max_clock_speed		x	x	NA	NA	x
processor_l2_cache_size		x	NA	NA	NA	NA
processor_l2_cache_speed	NA	NA	NA	NA	NA	NA
processor_logical_cnt	x	x	x	x	x	NA

Supported Attributes	z/Linux	VMware ESXi (with SSH)	VMware (Web Services)	IBM-PowerVM (P5/P6)	Solaris Non Global Zones	Red Hat Enterprise Virtualization
memory_capacity	x	x	x	x	x	x
memory_type	NA	*x	NA	NA	NA	NA
memory_speed	NA	x	NA	NA	NA	NA
memory_slots_in_use	NA	x	NA	NA	x	NA
memory_total_slots	NA	*x	NA	NA	NA	NA
bios_name	NA	x	NA	NA	NA	NA
bios_manufacturer	NA	x	NA	NA	NA	NA
bios_serial_number	NA	NA	NA	x	NA	NA
IPv4 address	x	NA	x	x	x	x
IPv6 addresses		NA	NA	NA		
mac address	x	NA	x	NA	NA	x
interface index		NA	NA	NA	x	NA
interface speed		NA	x	NA	NA	x
interface duplex		NA	x	NA	NA	NA
interface negotiation		NA	NA	NA	NA	NA
default IPv4 gateway	x	x	x	NA	NA	x
default IPv6 gateway		NA	NA	NA	NA	
IPv4 dhcp server		NA	NA	NA	NA	NA
IPv6 dhcp server		NA	NA	NA	NA	NA
dns domain	x	x	x	NA	NA	NA
service_display_name	NA	NA	*5	NA	x	NA
service_key_name	x	x	*5	NA		NA

Supported Attributes	z/Linux	VMware ESXi (with SSH)	VMware (Web Services)	IBM-PowerVM (P5/P6)	Solaris Non Global Zones	Red Hat Enterprise Virtualization
service_logon_as	x	NA	NA	NA	NA	NA
service_path	x	NA	NA	NA	NA	NA
service_startup	NA	NA	*5	NA	x	NA
application_name	x	x	NA	NA	x	NA
application_publisher	x	*x	NA	NA	NA	NA
application_version	x	*x	NA	NA	x	NA
application_arch	x	NA	NA	NA		NA
application_install_date	x	*x	NA	NA	NA	NA
application_install_location	x	NA	NA	NA	x	NA
application_is_patch		*x	NA	NA		NA
physical_disk_index		*x	x	NA	NA	NA
physical_disk_name	x	*x	x	NA	NA	NA
physical_disk_size	x	*x	x	NA	NA	NA
physical_disk_interface_type	x	*x	NA	NA	NA	NA
physical_disk_media_type		*x	x	NA	NA	NA
physical_disk_model		NA	x	NA	NA	NA
physical_disk_free_space	NA	NA	NA	NA	NA	NA
physical_disk_serial_number	x	NA	NA	NA	NA	NA
logical_partition		NA	NA	NA	NA	NA

Supported Attributes	z/Linux	VMware ESXi (with SSH)	VMware (Web Services)	IBM-PowerVM (P5/P6)	Solaris Non Global Zones	Red Hat Enterprise Virtualization
logical_partition _name	NA	*x	NA	NA	NA	NA
logical_partition _index	NA	*x	NA	NA	NA	NA
logical_partition _filesystem	NA	*x	NA	NA	NA	NA
logical_partition _is_bootable	NA	*x	NA	NA	NA	NA
logical_partition _is_primary	NA	NA	NA	NA	NA	NA
logical_partition _size	NA	*x	NA	NA	NA	NA
logical_partition _free_space	NA	NA	NA	NA	NA	NA
cd_dvd_drive_d escription	NA	NA	NA	NA	NA	NA
cd_dvd_drive_d ev_id	NA	NA	NA	NA	NA	NA
cd_dvd_drive_m edia_type	NA	NA	NA	NA	NA	NA
tape drives		NA	NA	NA		NA
tape drive_desc		NA	NA	NA	NA	NA
tape drive_dev_type		NA	NA	NA	NA	NA
tape drive_manufact urer		NA	NA	NA	NA	NA
filesystem name	x	x	NA	NA	x	NA
filesystem size	x	x	NA	NA	x	NA
filesystem mount location	x	x	NA	NA	x	NA
filesystem free_space	NA	*x	NA	NA	x	NA
Open Ports	x	NA	NA	NA	x	x (one port only)

Limitations

Following are the limitations with softagent platform coverage:

- On HP-UX platform, open ports are shown only if LSOF utility is installed. Without the utility, it is not possible to obtain information about the process that is associated with a specific port.

- Dmidecode utility is required on Linux platform to get the host details populated for a system.

- MAC address of Solaris non-global zones is same as Global zones. Because the MAC address is unique, MAC address against non-global zones is not displayed.

- You can only obtain service 'logon as' information for Unix platforms for the services that are currently active.

Chapter 4: System Requirements

Before you install, verify that you are installing the software on a supported platform using a supported database, as defined in Supported Operating Environments section.

This section contains the following topics:

Preinstalled Database

CA Configuration Automation uses a relational database to store blueprint and application-related data. You can create the database within your existing Oracle or Microsoft SQL Server environment. The requirements are as follows:

- The licensed database software is installed before you run the CA Configuration Automation Server installation program.

- You can create the database instance and administrative user during CCA Server installation.

- Ensure the user performing the installation or upgrade has the following database user rights:

   Microsoft SQL Server User Rights

   - Minimum install rights: dbcreator

   - Minimum user rights: db_owner

   Oracle User Rights

   The user needs to be granted quota space for the tablespaces. If the user is assigned the RESOURCE role, the user has unlimited tablespace. If the RESOURCE role is not assigned, the user must have quota space assigned using the alter command as follows:

   ```
   alter user cca quota unlimited on CCADATA;
   alter user cca quota unlimited on CCAINDEX;
   ```

The following privileges are required:

- CREATE PROCEDURE

- CREATE SEQUENCE

- CREATE SESSION

- CREATE TABLE

- CREATE TRIGGER

- CREATE VIEW

Regardless of the database type, you need to provide the following database-related details to connect with and create or update the database schema during CCA Server installation:

- CCA Database user name

- CCA Database password

- Database server name

- Database name (if you are using Microsoft SQL Server) or Oracle Service name (if you are using an Oracle database)

- If you choose to create the database user during CA Configuration Automation Server installation, you need to provide the user name and password of the administrator authorized to create the database instance

SQL Server Authentication Settings

If you are creating the CCA Database on Microsoft SQL Server, you need to check your SQL Server authentication settings.

Note: Ensure that you are using SQL Server and Windows authentication, not Windows only. If you do not have the correct authentication configured, CCA Database creation fails.

To check your SQL Server authentication settings

1. In SQL Server Enterprise Manager, expand the SQL Server Group.

2. Right-click on a server, and select Properties.

3. Click the Security tab.

4. Under Authentication, ensure that SQL Server and Windows are selected.

Java Virtual Machine

When you install CCA Server, the installation program recommends that you install a Java VM version that has been tested and qualified for compatibility with CCA Server. If you opt to use an existing installed Java VM, ensure the version is 1.6 or later.

Note: The Java VM requirement is for the CCA Agent install and uninstall operations only. Java VM is *not* required for normal agent operation.

As you may already have a version of a Java VM installed on the target server for the CCA Agent, two different agent installers are provided on the CCA distribution DVD—one version installs Java VM (agentvm) and one version does *not* install Java VM (agent) and attempts to find and use an existing Java VM.

Notes:

- The installation program may not be able to locate an existing Java VM if it was not installed in a commonly known location. If the installation fails, use agentvm to install the CCA Agent.

- For the remote CCA agent installation without VM, ensure that the JRE 1.5 or later is installed on the target machines.

Display Properties Settings (Windows)

The Display Properties, Settings for the monitor from which you run installation on a Windows server must be set to a minimum of 256 colors. This is a requirement for the correct functioning of the installer user interface.

If you do not have a monitor from which you run installation on a Windows server that can be set to a minimum of 256 colors, contact CA Support for a workaround.

Network

Connection to the network through an Ethernet 10/100 Base-T or Gigabit Ethernet network interface card (NIC) is required.

Processor

The following table shows the *minimum* processor required for CA Configuration Automation and related components:

Component	Processor
CA Configuration Automation Server	■ One 2 GHz dual core processor if the CA Configuration Automation Database is located on a different computer ■ Two 4 GHz dual core processors if the CA Configuration Automation Database is located on the same computer **Note:** We recommend a dedicated CCA Server.
CA Configuration Automation Database	Two 3 GHz dual core processors (also consider the native database vendor requirements) **Note:** We recommend a dedicated database server.
Network Discovery Gateway	One 2 GHz dual core processor
CCA Grid Server	One 2 GHz dual core processor
CA EEM Server	One 2 GHz dual core processor
CA Business Intelligence	One 2 GHz dual core processor

Memory and Disk Space

System requirements for memory and disk space vary by component as shown in the following table:

Component	Memory (RAM)	Minimum Free Disk Space
CA Configuration Automation Server	4 GB recommended (2 GB minimum) For optimal CCA Server performance, 1.5 GB of Java Virtual Memory is allocated by default.	5 GB
CA Configuration Automation Database	8 GB or more See native database vendor requirements	100 GB (depends on usage)

Component	Memory (RAM)	Minimum Free Disk Space
CA Configuration Automation Agent*	10 MB	Installation requirements: ■ 170 MB using existing Java VM ■ 300 MB using supplied Java VM Runtime requirements: ■ 65 MB using an existing Java VM ■ 100 MB using supplied Java VM
Network Discovery Gateway*	2 GB or more	2 GB
CCA Grid Server*	2 GB for each Grid Node instance	5 GB
CA EEM Server	2 GB or more	10 GB
CA Business Intelligence	2 GB or more	20 GB on the C drive, 30 GB total See the BusinessObjects product documentation for requirement details.

* These components can be installed on the same server or virtual servers, but you must be aware of the cumulative installation requirements.

The installation program extracts its contents to a temporary directory (the directory specified by the TEMP environment variable on Windows or the /tmp directory on Linux and UNIX or the current user's home directory). The extractor checks for adequate free space. After the installation has been successfully completed or is canceled, the temporary storage used by the installation program is released.

Note: A database server's performance increases significantly when configured as a dedicated, physical server. Consult your database administrator for database server guidelines.

Web Browser Support

CA Configuration Automation includes a web-based interface for CA Configuration Automation Server access from both desktops and servers. The following browsers are supported:

■ Microsoft Internet Explorer 7, 8, and 9 with Adobe Flash

- Microsoft Internet Explorer 8 and 9 on Windows 7, and Windows 2008 and 2012 in Desktop mode

    - Mozilla Firefox 35.0

    - Google Chrome 40.0

CA EEM Server Support

CA Configuration Automation is certified with the EEM Server r12.51 CR02 version that is, EEM Server r12.51.2.11.

Storage Area Network (SAN) Manager Software

CA Configuration Automation discovers SAN storage devices by communicating with the following storage management software:

NetApp OnCommand (version 4.0 or later)

Discovers NetApp storage systems

Note: NetApp OnCommand was known formerly as DataFabric Manager server.

EMC SMI-S provider (version 4.4.0.0 or later)

Discovers EMC Clariion and Symmetrix storage systems.

Peripherals

A DVD-ROM drive (either attached locally or accessible remotely over the network) or the ability to mount a downloaded DVD image is required.

Chapter 5: Published Fixes

The complete list of published bug fixes for this product can be found through Published Solutions on http://support.ca.com.

Chapter 6: Documentation

The following documentation is included with this product:

Administrator Guide

Provides detailed instructions about using all features available in the Administration panel in the CA Configuration Automation user interface (UI). It also contains instructions for editing CA Configuration Automation configuration files. This document is named CCA_AdminGuide_ENU.pdf and is located in the CCA documentation folder.

User Guide

Provides detailed instructions about using all features available in the Management, Dashboard, and Tasks panels in the CA Configuration Automation user interface (UI). It also contains instructions for using the command-line interface. This document is named CCA_UserGuide_ENU.pdf and is located in the CCA documentation folder.

Implementation Guide

Provides detailed instructions about installing the NDG Server, the CA Configuration Automation Server, the CA Configuration Automation Database, CCA Grid Nodes, and CA Configuration Automation Agents. It also includes information on installing other required components including BusinessObjects reporting functionality, and CA EEM. This document is named CCA_ImplGuide_ENU.pdf and is located in the CCA documentation folder.

Connector Guide

Describes how to install and configure the CA Catalyst connector for CA Configuration Automation. This document is named CCA_ConnectorGuide_ENU.pdf and is located in the CCA documentation folder.

Message Reference Guide

Provides a list of all messages displayed while working with CA Configuration Automation. It also includes the reason the message appears, and a possible solution. This document is named CCA_MessageReferenceGuide_ENU.pdf and is located in the CCA documentation folder.

Release Notes

Contains release-specific information including new features, new blueprints, and supported operating environments for the various CA Configuration Automation components. This document is named CCA_RelNotes_ENU.pdf and is located on the distribution media in the top level directory.

Readme

Describes known issues, workarounds and late-breaking information not included in the standard product documentation. Review the file before working with the product. You can access the readme.html file from the dvd1 folder on Windows systems or from the root of the distribution media on Linux or UNIX.

Online Help

Provides detailed instructions about using all features available in the CA Configuration Automation Server user interface (UI). The top level of the online help system can be accessed from the Help link at the top right corner of the UI. Context-sensitive help is available from many pages and dialogs within the product.

Tenant UI Help

The tenant UI has an independent help system available from the tenant UI. For information about installing and configuring the tenant UI, see the Implementation Guide.

Note: The PDF files are independent of platform and operating system, and are viewable in the Adobe Acrobat Reader in Windows, Linux, and UNIX environments.

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

Appendix A: Acknowledgments

The CA Configuration Automation Bookshelf links to a text file called CCA_TPSA.txt that contains the copyright and license agreements for third-party software used in this CA Configuration Automation release.