CA Configuration Automation®

Release Notes

r12.8 SP01

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
- Other helpful resources appropriate for your product

Providing Feedback About Product Documentation

If you have comments or questions about CA Technologies product documentation, you can send a message to techpubs@ca.com.

To provide feedback about CA Technologies product documentation, complete our short customer survey which is available on the CA Support website at http://ca.com/docs.

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: 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 9 and 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
- Oracle 11g (Solaris, Linux, AIX, and Windows only)
- Oracle 11.2.0.3 (Linux and Windows only)

CA Configuration Automation r12.8 SP01 is certified for Oracle 11g ASM environments on 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.

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 9 and 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 5L v5.3 (32-bit and 64-bit versions) and AIX v6.1 (32-bit emulation mode), 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 8, 9, and 10 (32-bit and 64-bit versions), 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	Sybase ASE 15	DB2 9.5	MySQL 5.1	Postgres 9
Solaris 10				X		X	
Red Hat Enterprise Linux 5 x86 (64-bit)				X		X	X
Red Hat Enterprise Linux 6 x86 (32-bit)						X	X
Windows 2008 32-bit	X	X		X	X	X	X
Windows 2008 64-bit	X	X	X		X	X	X
Windows 2012 64-bit	X	X	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

Chapter 3: 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 10 on Windows 7, and Windows 2008 and 2012 in Desktop mode

  IE 10 supports the following report formats on Windows:

  - Windows 2008 and 2012—All the report formats except the Crystal reports
  - Windows 7—All the report formats
- Mozilla Firefox 16
- Google Chrome 20

CA EEM Server Support

CA Configuration Automation is certified with the EEM Server r12.51 CR01 version that is, EEM Server r12.51.1.8.

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 4: New Features and Enhancements

This section contains the following topics:

Delete Saved Report Instances

Beginning in CA Configuration Automation r12.8 SP01, you can set the max.reports.retention.instances.size configuration property in the bo property group to define the number of report instances a custom report can have after the cleanup job.

The default max.reports.retention.instances.size value is -1 (the product never deletes report instances automatically). The valid values are -1 to 999 instances.

If you set max.reports.retention.instances.size to a value from 1 to 999, CA Configuration Automation deletes report instances every 24 hours, or when the CA Configuration Automation Server starts.

Deploy and Undeploy Agents on UNIX Server

The Enable Use of Sudo checkbox in the Agent Installation section of the Access Profile lets you deploy and undeploy the agents on a UNIX server.

The checkbox is available when the Access Mode is set to Agent for an access profile. Selecting the Enable Use of Sudo checkbox describes the agent account as a sudo account. The sudo account lets you deploy and undeploy the agents without providing the root credentials.

Discover Servers on EC2 Cloud Environment

Beginning in CA Configuration Automation r12.8 SP01, you can discover the servers on the EC2 cloud environment. The following network scan policies are introduced to discover the servers on cloud environment:

- Cloud Service Scan with Soft agent
- Cloud Service Scan without Soft agent

Note: Open the firewall for the WMI and SSH to perform the soft agent discovery when you select the *Cloud Service Scan with Soft agent* policy to discover the servers Ec2 cloud.

The new AWS EC2 tab in the Credential Vault Profile page lets you provide the EC2 cloud credentials.

To discover servers on the EC2 cloud environment, follow these steps:

1. Create a Credential Vault profile with the EC2 cloud credentials in the AWS EC2 tab.
2. Create a Network Profile and select the cloud supported network scan policy, and Credential Vault profile.
3. Provide the AWS EC2 End Point in the inclusion list.
4. Run the Network profile.

   NDG discovers the servers on the EC2 cloud environment depending on the network scan policy that is selected in Network Profile.

Manage File Filters

Beginning in CA Configuration Automation r12.8 SP01, you can apply or remove the Never Run Change Detection and Time Variant filters to specific folders, and its sub folders and files. The actions are available in the Manage Filters tab under the File Filters and Attributes pane. The Manage Filters makes it easy to apply the filters to folders, and its sub folders and files rather traversing manually.

To apply or remove the Never Run Change Detection and Time Variant filter, follow these steps:

1. Select a folder or a sub folder from the directory and file structure available in the File Filters and Attributes pane.
2. Click the Manage Filters tab to list the sub folders and files of the selected folder.
3. Select the sub folders and files from the list, and then select one of the following actions from the Select Actions drop-down:
   - Set Never Run change Detection

     Apply the Never Run change Detection filter to the selected folders, its sub folders, and files that are defined in the File Filters and Attributes pane.
   - Set Time Variant

     Apply Time Variant filter to selected folders, its sub folders, and files that are defined in the File Filters and Attributes pane.
   - Remove Never Run change Detection

     Remove the Never Run change Detection filter from selected folders, its sub folders, and files that are defined in the File Filters and Attributes pane.
   - Remove Time Variant

     Remove the Time Variant filter from selected folders, its sub folders, and files that are defined in the File Filters and Attributes pane.

   A message confirms whether the Never Run Change Detection and Time Variant filters are updated for the folder, its sub folders, and files.

   Note: If you add new sub folders or files to a folder, the existing filter does not apply to the newly added sub folder or files. Apply a new filter to the newly added sub folder or file when required.

Encrypt and Mask the Password Fields While Creating or Modifying the Blueprints

Beginning in CA Configuration Automation r12.8 SP01, you can mask and encrypt the default values of the component parameter, registry key or value, or file structure class parameter or group while creating and modifying the Blueprints.

To mask and encrypt the default values, set the Visibility value as Hide Value:

- For the component parameter in the Component Parameter and Variables tab
- For the registry key or value in Registry Filters and Attributes tab
- For the file structure class parameter or group in the File Structure Classes tab

General User Interface Enhancements

This release includes the following UI enhancements:

- The **Is Accessible** field in the Server table view displays whether you can use any of the following modes for component discovery operations to access the server:
  - Agent
  - SSH
  - WMI
  - Telnet

  The default Is Accessible value is **No**. If the Test Servers or Discovery action is successful, the value is set to **Yes**.
- The Blueprint details includes a **File Size Variant** filter. Use the filter in the change detection operation to compare files by size.
- The Hardware tab displays information of the multiple processors available on the target servers.

Generate Server Components (Server) Report of the Discovered Blueprint Data

Beginning in CA Configuration Automation r12.8 SP01, you can generate Server Components (Server) Report of the discovered blueprint data. The report provides the following information:

- Hardware Details
- Storage Details
- Network Interface Details

New and Updated Blueprints

This release includes the following new or updated Blueprints:

Blueprint Name	Component Version	Blueprint Version
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

Blueprint Name	Component Version	Blueprint Version
Microsoft SQL 2012 Server Database	11.*	1.0.0
Oracle 10g Database (UNIX)	10.*	1.0.0
Oracle 10g Database Instance (UNIX)	10.*	1.0.0
Oracle 11g Database (UNIX)	11.*	1.0.0
Oracle 11g Database Instance (UNIX)	11.*	1.0.0

Note: For Microsoft SQL server 2008 and 2012, you can discover the databases in each instance as components in addition to the SQL server instance (default or named). Similarly, for Oracle 10g, and 11g in the UNIX environment, you can discover the instances in each database as components in addition to the Oracle Database server.

NDG Discovers Hyper V 2012 Servers

Beginning in CA Configuration Automation r12.8 SP01, NDG discovers the Hyper V 2012 servers.

Remote Agent Installation and Uninstallation Using the IP Address

Beginning in CA Configuration Automation r12.8 SP01, the CCA Server can install or uninstall a remote agent using its IP Address when the CCA Server is not able resolve the target server by its hostname. The cca.log file provides the information whether the CCA Server is using the IP Address or the hostname to connect to the remote agent.

Server Comparisons(Server) Report Template Includes the Available Server Group Details

Beginning in CA Configuration Automation r12.8 SP01, the Target tab in the Report Templates lists the available server groups. Compare the source server with the selected targets servers, and the servers from the serve groups in the Target pane to generate specific server reports.

Notes:

- If the selected target server exists in selected server group, the source server is compared only once with the target server.
- If the selected source server exists in selected server group, the source server is not compared with the same server in the selected server group.

Schedule Log Deletion

Beginning in CA Configuration Automation r12.8 SP01, you can set the delete.old.ccalogs.interval property in the cca property group to delete cca.log files at scheduled intervals.

The default delete.old.ccalogs.interval value is -1 (the product never deletes log files automatically). The valid values are -1 to 365, where 1 is one day (24 hours).

The application deletes logs at the scheduled interval when the CA Configuration Automation Server and Grid Node starts from the following locations:

- C:\Program Files\CA\CCA Server\logs
- C:\Program Files\CA\CCA Grid Node\logs

Note: See the *CA Configuration Automation Administration Guide* for more information about how to edit CA Configuration Automation properties.

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: International Support

An *internationalized product* is an English product that runs correctly on local language versions of the required operating system and required third-party products, and supports local language data for input and output. Internationalized products also support the ability to specify local language conventions for date, time, currency and number formats.

Chapter 7: 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.