

CA Server Automation

Release Notes

Release 12.6



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CA Technologies Product References

This document may reference the following CA Technologies products and components or third-party components:

- CA AppLogic®
- CA Configuration Automation, formerly CA Application Configuration Manager (CA ACM)
- CA eHealth®
- CA Embedded Entitlements Manager (CA EEM)
- CA IT Asset Manager
- CA IT Client Manager (CA ITCM)
- CA Network and Systems Management (CA NSM)
- CA Network Automation
- CA Patch Manager
- CA Process Automation, formerly CA IT Process Automation Manager (CA IT PAM)
- CA Server Automation
- CA Service Desk Manager (CA SDM)
- CA Spectrum® Infrastructure Manager (CA Spectrum)
- CA SystemEDGE
- Racemi® DynaCenter®
- Software Delivery, a component of CA IT Client Manager

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Contact CA Support

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- 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

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Chapter 1: Introduction

The *Release Notes* provide the new and enhanced features in this release, product requirements, and known issues.

Chapter 2: System Requirements

Your system must meet or exceed the requirements in this section for successful installation and operation of CA Server Automation.

This product relies on TCP/IP, SNMP, Domain Name Service (DNS) and other networking technologies. If these technologies are not available, slow, or have incorrect or out of date information, product functionality can be adversely affected, including failing technology.

This section contains the following topics:

- [Manager Requirements](#) (see page 11)
- [Optional Software for CA Server Automation](#) (see page 16)
- [Internationalization \(i18n\)](#) (see page 17)
- [Localization \(L10n\)](#) (see page 21)
- [CA Server Automation AIM Server and Managed Node Requirements](#) (see page 21)
- [External Software for Supported Virtual Platforms](#) (see page 29)

Manager Requirements

The CA Server Automation manager supports the following operating systems:

- Windows Server 2003 SP2 and 2003 R2 SP2 Standard, Enterprise, and Datacenter Edition (x86, x64)
- Windows Server 2008 Standard, Enterprise, and Datacenter Edition (x86, x64)
- Windows Server 2008 R2 Standard, Enterprise, and Datacenter Edition (x64)

The [compatibility matrix](#) on the CA Support Online website, provides the most current list of supported operating environments.

Note: For seamless timezone operation, verify that your distributed computing environment is synchronized to a common time source (for example, NTP server, GPS).

Hardware Requirements

The following hardware is required to implement distributed and nondistributed CA Server Automation component implementations.

- CPU: Intel Xeon 51xx 2.6 GHz or equivalent, or Intel Core 2 Duo 2.6 GHz or equivalent
 - Note:** The CPU requirements also apply to client desktops/workstations running the CA Server Automation web browser-based UI.
- RAM:
 - 4 GB for deployments managing up to 1,000 systems
 - 8 GB on a 64 bit operating system for deployments managing up to 5,000 systems
 - 16 GB on a 64 bit operating system for deployments managing more than 5,000 systems
- Network Interface Controller (NIC): 100 Mbps or more
- Free disk space for main installation drive: 30 GB
- Free disk space for drive with databases: 30 GB

Note: The disk space for the drive holding the databases is required wherever you have configured Microsoft SQL Server to store the databases for this product. The drive can be anywhere: on the same drive used for product installation, on a different drive, or on a different system. If the drive is on the same drive as the product installation, the required free disk space is the sum of the two values. The product databases grow in size based on product usage, potentially consuming 30 GB or more, depending on the maintenance that is being done.

Important! To avoid unlimited growth of your transaction log, see the Microsoft KB Article 873235 for Microsoft SQL Server configuration instructions.

Important! If you install CA Server Automation with other CA products, consider the combined impact and adjust the hardware specifications accordingly. For example, if you install CA Server Automation (4-GB RAM) and CA Configuration Automation (3-GB RAM) on one server, you need a server with a minimum of 7-GB RAM. Review integration product Release Notes on the CA Support Online website:
<http://supportconnect.ca.com>.

Note: The CPU requirements also apply to client desktops/workstations running the CA Server Automation web browser-based UI.

Software Requirements

The following software is required for CA Server Automation:

CA Embedded Entitlements Manager (CA EEM)

CA Server Automation distributes, supports, and is certified to work with CA EEM version 8.4 SP04 CR08 (8.4.408).

CA Server Automation also supports:

- All "CA EEM 8.4" subversions – from CA EEM 8.4 SP04 (8.4.244), up to and including the version we distribute, up to and including new "CA EEM 8.4" SP.
- CR subversions that ship after the release of this product.

If an insufficient version of CA EEM is detected during installation, the installation program displays the minimum so you can upgrade to a supported version.

To request support, or to certify this product with other versions of CA EEM, contact your CA representative.

Note: If your site has multiple instances of CA Server Automation or CA Virtual Assurance, the CA EEM server cannot be shared.

Note: If this product installs CA EEM, the "Use Transport Layer Security" option is not enabled by default. For additional security, log in to the CA EEM interface and select the TLS option on the Configuration tab.

Adobe Acrobat Reader

Viewing or exporting reports in PDF format requires Adobe Acrobat Reader 9.

Database Requirements

CA Server Automation uses Microsoft SQL Server as its database. Because CA Server Automation integrates with other CA products, review the database requirements for integration products.

This release supports the following versions:

- 2005 SP3 or greater (32 bit, 64 bit), Standard and Enterprise Editions
- 2008 SP2 (32 bit, 64 bit), Standard and Enterprise Editions
- 2008 R2 (32 bit, 64 bit), Standard, and Enterprise Editions
- 2008 R2 Express (32 bit, 64 bit), Database with Management Tools, and Database with Advanced Services Editions

Note: SQL Server Tools (OSQL.EXE) are required.

Note the following:

- For your convenience, SQL Server 2008 R2 Express Edition (32 bit) is available on the CA Server Automation installation media at the following location: DVD1\Installers\Windows\External\MSSQLExpress\setup.exe.
- Named instances and SQL Server clusters are supported. TCP/IP must be enabled, and static port assignments must be used for each instance. Dynamic ports are not supported.
- The system installed with the manager components must also have the SQL client installed.
- After installing SQL Server Tools, check to see that OSQL.EXE is properly installed to this location (if using the default install path):
 - MS SQL 2005: C:\Program Files\Microsoft SQL Server\90\Tools\Binn
 - MS SQL 2008: C:\Program Files\Microsoft SQL Server\100\Tools\Binn

Remote Databases

If you are using a remote database, the local system must have an appropriate matching version of the SQL Server Native Client.

Examples

- A remote 2008 SP2, R2, or R2 Express database requires either a local 2008 SP2, R2, or R2 Express Native Client.
- A remote 2005 SP3 database requires a local 2005 SP3 Native Client.

The SQL Server Native Client is available from the Microsoft Download Center by searching, “Feature Pack for Microsoft SQL Server.” Based on your *remote* database and operating environment, complete these steps:

1. Select the most recent appropriate version (2005 SP3+ or 2008 SP2+).
2. Download and install the appropriate module for your operating environment on your *local* system.

Example: ENU\<x86 or x64>\sqlncli.msi

Browser Requirements

CA Server Automation supports the following browsers for the user interfaces. These web browsers are supported for the duration of their lifecycles (as determined by the manufacturer), or until CA Technologies ends support.

- Microsoft Internet Explorer 8.0
Note: If you get the message, “A script on this page is causing Internet Explorer to run slowly,” review Microsoft KB Article 175500.
- Mozilla Firefox 3.6.19, and 5.0.1

CA Server Automation requires a supported browser with the Adobe Flash Player plug-in. The following versions are supported:

- Adobe Flash Player version 9.0 and 10.0

Note: CA Server Automation supports the major versions of the Adobe Flash Player. The minor versions can also work, but they are not certified.

Solaris Systems for JumpStart Provisioning

CA Server Automation supports JumpStart provisioning on the following Solaris systems:

For SPARC-based systems:

- Solaris 8 Release 0204 (additional user configuration is required on the server)
- Solaris 9 (any release)
- Solaris 10 (any release)
- Flash Archives comprised of Solaris 8 0204, 9, or 10

For x86 based systems:

- Solaris 10 Release 1106 or newer
- Flash Archives comprised of Solaris 10 1106 or newer

Optional Software for CA Server Automation

You can install the following optional CA software for CA Server Automation to enable integration functionality:

CA Configuration Automation

Version 12.5.SP1 is required for change and configuration management.

CA ITCM, formerly CA Desktop and Server Management (CA DSM)

Release 12.5 is required for all server and software provisioning.

Note: CA Server Automation requires a CA ITCM 12.5 instance with the following patches applied in the order specified: RO19193, RO25187, RO28174, RO28697, RO28698, T5J1146, RO31086, RO25188, and RO35411.

SystemEDGE

The installation program installs SystemEDGE 5.6.0 if it is not already on your system. SystemEDGE is required for the CA Server Automation AIMs. AIMs are functional extensions to the SystemEDGE agent.

SystemEDGE Releases 4.3.4, 4.3.5, 4.3.6, 5.0, 5.0.1, 5.0.2, and 5.1.0 are still supported for managing remote servers in your environment.

CA Process Automation

Version 3.1 or 3.1 SP1 (localized) release is required to create process automation workflows that use CA Server Automation functionality.

The public version of JRE 1.5 or later is required to run the CA Process Automation installation program.

CA Network and Systems Management (CA NSM)

Release 11.1 or 11.2 is required to collect performance metrics using the CA NSM Performance Agent.

CA Service Desk Manager

Release 12.5, or 12.6 is required to open help desk tickets.

NetApp DataFabric Manager server (DFM)

NetApp DataFabric Manager server version 4.0 (with NetApp Operations, Provisioning, and Protection Managers) is required to provide Storage Provisioning Manager functionality through integration with NetApp Provisioning Manager.

Internationalization (i18n)

CA Server Automation is an internationalized product (i18n) that uses UTF-8 character encoding to display language-specific characters. For example, the German ü (umlaut), the French è (grave accent), or Japanese characters in input and output data are displayed.

The UTF-8-encoded character support includes, but is not limited to, the following areas:

- Textual descriptions of objects or resources
- Messages
- User names and passwords to connect to manageable resources
- Regular expressions (SystemEDGE)

The installation of this product is supported on English, French, German, and Japanese versions of the supported Microsoft Windows operating systems. Also, for Windows, you can use a supported version of SQL Server that is either English, or the appropriate localized version for that operating system.

Important! If you edit a product file that uses UTF-8 encoding, be sure to save it with UTF-8 encoding. Operating systems that are not English and have multibyte characters must be saved with UTF-8 encoding. Windows Notepad can save with UTF-8 encoding.

General Limitations

Because CA Server Automation integrates with other CA products, review the international support statements for integration products.

CA Server Automation supports only host or cluster names with the characters 'a - z', 'A - Z', '0 - 9' and '-'. A host or cluster name cannot start with a hyphen ('-') or be all numeric. The NetBIOS name of a Windows system must match its DNS host name. CA Server Automation supports non-ASCII Virtual Machine names, but only if they are provisioned using the virtualization vendor software directly. When cloning or provisioning a new Virtual Machine from within CA Server Automation, the Virtual Machine name must be ASCII.

CA Server Automation supports only ASCII characters in:

- SQL Server host names (subject to host name limitations), instance names, user names, and passwords
- CA EEM/Security host names (subject to host name limitations), user names, and passwords
- All SystemEDGE parameters with the exception of policy names
- SystemEDGE Privilege Separation User (UNIX and Linux only)
- SNMP read, read/write, and trap community strings
- %TEMP% environment variable
- Installation target paths of all CA Server Automation components

Customize Console Display

If you want to display console data that contains language-specific characters, verify the following prerequisites for CLI commands and the NodeCfgUtil utility:

- Verify that the appropriate language support is available on your operating system.
- Enable the Lucida Console font for running commands in the Windows Command Prompt or NodeCfgUtil utility.
- Enable UTF-8 character encoding in the UNIX or Linux console that you want to use to run your commands. Enter the following command in the terminal console to display the current language setting:

```
echo $LANG
```

If UTF-8 is not enabled, enter, for example, the following command in a console window (use the appropriate character encoding: en_US.UTF-8, ja_JP.UTF-8, fr_BE.UTF-8, de_DE.UTF-8, and so on):

```
LANG=en_US.UTF-8; export LANG
```

AutoShell and CA Server Automation CLI Commands

AutoShell and CA Server Automation CLI commands support the `-locale` switch that allows you to specify a locale based on an ISO 639_3166 combination (for example: `fr_FR` for French). See the *Invoking AutoShell* section and *CLI Commands* in the *Reference Guide*.

Solaris Zones Uptime

The Solaris Zone Uptime MIB attribute (`zoneAimStatZoneUpTime`) is specified as `DisplayString` that supports ASCII characters only. The corresponding fields in the user interface do not display UTF-8 characters.

Default Package Wrapper Name

The default package wrapper name is not localized and reads 'default' in all supported languages. Custom package wrapper names support UTF-8 characters.

Service Response Monitoring AIM Configuration File

When you modify the `svcrsp.cf` configuration file to add language-specific characters, verify that the text editor you use supports UTF-8 as a storage format. If your text editor inserts a UTF-8 Byte Order Mark when saving the file, SystemEDGE ignores the Byte Order Mark when reading the configuration file.

Service Response Monitoring CLI Commands

The `svctool` CLI supports localized output and console help information.

If you use the optional `-L` switch, the utility detects the current locale of the console and language catalog if available. If a language catalog is not found, the utility falls back to English as a default language.

Cisco UCS Limitations

The Cisco Unified Computing System (Cisco UCS) only supports English language characters. Because the UCS Manager treats non-English characters as invalid, CA Server Automation disallows unsupported characters in UCS fields for service profile, pools, and so on.

Rapid Server Imaging Limitations

The RSI Server does accept localized strings (utf-8) for names and descriptions of images, driver sets and driver collections, and stores them in its database. However, it runs only on an English server and does not display localized messages. The RSI agents are also supported only on English servers and so capture/deploy of non-English servers are not supported. The Server Automation integration with the RSI server also accepts utf-8 strings for names and descriptions of images, driver sets and driver collections. CA Server Automation has its own localized messages that are displayed, however, the English-only messages from the RSI server is passed through as is.

CA Configuration Automation Limitations

CA Configuration Automation supports only ENG SQL server.

Reservation Manager Requirement for a Common Windows Administrator Account Name

The Reservation Manager requires that all Windows systems that are provisioned, to have a common administrator account name. Because the default administrator account name can differ based on the language of the Windows OS, consider creating a common account name on all systems.

Reservation Manager Limitations

The names of virtual machines deployed by the Reservation Manager contain only these characters: 'a - z', 'A - Z', '0 - 9' and '!'. This limitation is enforced to restrict the host names for virtual machines to characters supported by the product.

Business Objects Reports

Business Object reports require Microsoft SQL Server, English, or Japanese versions; no other languages are supported.

Installation Limitations

You can specify the language for a silent installation by using the parameter, `-L <locale>` (for example, `Install.exe -L fr`). The following locales are supported: en (English), ja (Japanese), de (German), and fr (French). If you do not specify a locale, the installer chooses the best fit (system locale or English (en)).

The DVD install path that you specify cannot contain Chinese characters, unless it is a Chinese system. If you specify Chinese characters on a non Chinese system, the installer fails with the following message:

Unable to extract the compressed file. Please get another copy of the installer and try again.

The product installer accepts non-ASCII characters for the configuration of LPAR, vCenter, Solaris Zones, Microsoft Cluster Service, Hyper-V, SCVMM, Remote Monitoring, and UCS components. However, if non-ASCII characters are entered, the configuration of the associated AIMs can silently fail. If you have to configure an AIM using non-ASCII characters, then configure the AIM post-install using the UI Administration tab or CLI.

Localization (L10n)

CA Server Automation Release 12.6 is a localized release. Consider the following use cases when you work with a localized CA Server Automation manager:

When you install a localized release of CA Server Automation, for example, Japanese CA Server Automation on a Japanese system, the installer installs the product with two languages, Japanese and English as the default language. Because CA Server Automation provides a web-based user interface, you can access CA Server Automation through a web browser from a remote or the local system. If you remotely access a localized release of CA Server Automation, consider the following:

If the web browser locale of your system is set to a language that is not available on the CA Server Automation manager, the user interface appears in English. English is the default language.

CA Server Automation AIM Server and Managed Node Requirements

This section provides details on the hardware requirements and operating systems supported by an AIM Server or a Managed Node.

Hardware Requirements for Managed Nodes and AIM Servers

The hardware requirements for SystemEDGE and AIMs are as follows:

Minimum

CPU: Same as OS vendor

RAM: Same as OS vendor

Free disk space: 50 MB (Managed Node, SystemEDGE only *)

Free disk space: 250 MB (AIM Server with all CA Server Automation AIMs installed)

Network Interface Controller (NIC): 100 Mbps

Recommended

CPU: Same as OS vendor

RAM: Same as OS vendor

Free disk space: 150 MB or more (Managed Node, SystemEDGE only **)

Free disk space: 500 MB (AIM Server with all CA Server Automation AIMs installed)

Network Interface Controller (NIC): 100 Mbps or more

(*) UNIX and Windows space requirements vary somewhat. For Windows installations space requirement is for installation using MSI installer.

(**) Space requirements for runtime files increase when diagnostic traces are enabled. Size of diagnostic trace is capped to 10 MB by default.

SystemEDGE Operating System Support

A computer running SystemEDGE Version 5.6.0 requires one of the following operating systems:

Windows

- Windows Server 2003 SP2 Standard, Enterprise, Data Center, and Small Business Server Edition (32 bit, x86)
- Windows Server 2003 R2 SP2 Standard, Enterprise, and Data Center Edition (32 bit, x86)
- Windows Server 2003 R2 SP2 Standard, Enterprise, and Data Center Edition (64 bit, x64)
- Windows Server 2003 SP2 Edition (64 bit, x64)
- Windows Server 2003 SP2 64-bit Itanium Edition (64 bit)

- Windows Server 2008 R2 with SP1
- Windows Server 2008 Standard, Enterprise and Data Center Edition (32 bit, x86)
- Windows Server 2008 Standard, Enterprise and Data Center Edition (64 bit, x64)
- Windows Server 2008 R2 Standard, Enterprise and Data Center Edition (64 bit, x64)
- Windows Server 2008 64-bit Itanium Edition (64 bit)
- Windows XP Professional SP3 (32 bit, x86)
- Windows Vista SP1 Business, Enterprise, and Ultimate Edition (32 bit, x86)
- Windows Vista SP1 Business, Enterprise, and Ultimate Edition (64 bit, x64)
- Windows 7 Professional Edition (32 bit, x86)
- Windows 7 Professional Edition (64 bit, x64)

HP

- HP-UX 11.11 PA-RISC (64 bit)
- HP-UX 11.23 PA-RISC (64 bit)
- HP-UX 11.23 ia64 (64 bit)
- HP-UX 11.31 PA-RISC (64 bit)
- HP-UX 11.31 ia64 (64 bit)

IBM AIX

- IBM AIX 5L Version 5.3 (32 bit, 64 bit)
- IBM AIX Version 6.1 (64 bit)
- IBM AIX Version 7.1 (64 bit)

Linux

- Red Hat Linux Web Server, Advanced Server, and Enterprise Server 4.0 (32 bit, x86)
- Red Hat Linux Web Server, Advanced Server, and Enterprise Server 4.0 (64 bit, x64)
- Red Hat Linux 64-bit Itanium Web Server, Advanced Server, and Enterprise Server 4.0 (64 bit)
- Red Hat Linux Web Server, Advanced Server, and Enterprise Server 5.0 (32 bit, x86)
- Red Hat Linux Web Server, Advanced Server, and Enterprise Server 5.0 (64 bit, x64)
- Red Hat Linux 64-bit Itanium Web Server, Advanced Server, and Enterprise Server 5.0 (64 bit)
- Red Hat Enterprise Linux 6.0 (32 bit, x86)
- Red Hat Enterprise Linux 6.0 (64 bit, x64)

- SUSE Linux Enterprise Server 9.0 (32 bit, x86)
- SUSE Linux Enterprise Server 9.0 (64 bit, x64)
- SUSE Linux Enterprise Server 9.0 (64 bit, ia_64)
- SUSE Linux Enterprise Server 10.0 (32 bit, x86)
- SUSE Linux Enterprise Server 10.0 (64 bit, x64)
- SUSE Linux Enterprise Server 10.0 (64 bit, ia_64)
- SUSE Linux Enterprise Server 11 (32 bit, x86)
- SUSE Linux Enterprise Server 11 (64 bit, x64)
- Debian Linux Version 4.0 (Etch) (32 bit, x86)
- Debian Linux Version 4.0 (Etch) (64 bit, x64) - Legacy Mode Only
- Debian Linux Version 4.0 (Etch) (64 bit, ia_64) - Legacy Mode Only
- Debian Linux Version 5.0 (Lenny) (32 bit, x86)
- Debian Linux Version 5.0 (Lenny) (64 bit, x64) - Legacy Mode Only
- Debian Linux Version 5.0 (Lenny) (64 bit, ia_64) - Legacy Mode Only

zLinux

- SUSE Linux Enterprise Server 10 (zSeries) - Legacy Mode Only
- SUSE Linux Enterprise Server 11 (zSeries) - Legacy Mode Only
- Red Hat Enterprise Server 5.0 (zSeries) - Legacy Mode Only

Solaris

SystemEDGE supports all Solaris Zone configurations for the Solaris 10 operating system.

- Solaris UltraSPARC 8 (64 bit)
- Solaris UltraSPARC 9 (64 bit)
- Solaris UltraSPARC 10 (64 bit)

- Solaris 8 (32 bit, x86)
- Solaris 9 (32 bit, x86)
- Solaris 10 (32 bit, x86)
- Solaris 10 (64 bit, x64)

Note: Patches 109326 (SPARC) and 109327 (x86) are required for Solaris 8 SPARC and Intel, or SystemEDGE does not start. We recommend the patches 117000 (SPARC) and 117001 (x86) for Solaris 8 SPARC and Intel, which fixes the issue with incorrect CPU statistics.

CA Server Automation-specific features such as deployment and configuration may not be supported on all platforms.

CA Server Automation AIM Operating System Support

The SystemEDGE AIMs and Advanced Encryption shipped with CA Server Automation run on the following operating systems:

Windows: Advanced Encryption

- Windows XP Professional SP3 (32 bit, x86)
- Windows Vista Business, Enterprise, Ultimate SP1 (32 bit, x86)
- Windows Vista Business, Enterprise, Ultimate SP1 (64 bit, x64)
- Windows 7 Professional, Ultimate (32 bit, x86)
- Windows 7 Professional, Ultimate (64 bit, x64)
- Windows Server 2003 SP2 Standard, Enterprise, Data Center, and Small Business Server Edition (32 bit, x86)
- Windows Server 2003 SP2 Edition (64 bit, x64)
- Windows Server 2003 SP2 64-bit Itanium Edition (64 bit)
- Windows Server 2003 R2 SP2 Standard, Enterprise, and Data Center Edition (32 bit, x86)
- Windows Server 2003 R2 SP2 Standard, Enterprise, and Data Center Edition (64 bit, x64)
- Windows Server 2008 Standard, Enterprise and Data Center Edition (32 bit, x86)
- Windows Server 2008 Standard, Enterprise and Data Center Edition (64 bit, x64)
- Windows Server 2008 R2 Standard, Enterprise and Data Center Edition (64 bit, x64)
- Windows Server 2008 64-bit Itanium Edition (64 bit)

Windows: vCenter Server AIM, Solaris Zones AIM, LPAR AIM, Cisco UCS AIM, Remote Monitoring AIM, Service Response Monitoring AIM

- Windows Server 2003 SP2 Standard, Enterprise, Data Center (32 bit, x86)
- Windows Server 2003 R2 SP2 Standard, Enterprise, and Data Center Edition (32 bit, x86)
- Windows Server 2003 R2 SP2 Standard, Enterprise, and Data Center Edition (64 bit, x64)
- Windows Server 2003 SP2 Edition (64 bit, x64)
- Windows Server 2008 Standard, Enterprise and Data Center Edition (32 bit, x86)
- Windows Server 2008 Standard, Enterprise and Data Center Edition (64 bit, x64)
- Windows Server 2008 R2 Standard, Enterprise and Data Center Edition (64 bit, x64)

Windows: Hyper-V AIM

- Windows Server 2008 R2 Standard, Enterprise and Data Center Edition (64 bit, x64)

HP: Advanced Encryption, Service Response Monitoring AIM

- HP-UX 11.11 PA-RISC (64 bit)
- HP-UX 11.23 PA-RISC (64 bit)
- HP-UX 11.23 IA64 (64 bit)
- HP-UX 11.31 PA-RISC (64 bit)
- HP-UX 11.31 IA64 (64 bit)

IBM AIX: Advanced Encryption, Service Response Monitoring AIM

- IBM AIX 5L Version 5.3 (32 bit, 64 bit)
- IBM AIX Version 6.1 (64 bit)
- IBM AIX Version 7.1 (64 bit)

Note: JRE is shipped with the SRM AIM for AIX.

Linux: Advanced Encryption, Service Response Monitoring AIM

- Red Hat Linux Web Server, Advanced Server, and Enterprise Server 4.0 (64 bit, x64)
- Red Hat Linux 64-bit Itanium Web Server, Advanced Server, and Enterprise Server 4.0 (64 bit)
- Red Hat Linux Web Server, Advanced Server, and Enterprise Server 5.0 (32 bit, x86)
- Red Hat Linux Web Server, Advanced Server, and Enterprise Server 5.0 (64 bit, x64)
- Red Hat Linux 64-bit Itanium Web Server, Advanced Server, and Enterprise Server 5.0 (64 bit)

- Red Hat Enterprise Linux 6.0 (32 bit)
- Red Hat Enterprise Linux 6.0 (64 bit, using 32-bit binaries)
- SUSE Linux Enterprise Server 9.0 (64 bit, x64)
- SUSE Linux Enterprise Server 9.0 (64 bit, ia_64)
- SUSE Linux Enterprise Server 10.0 (32 bit, x86)
- SUSE Linux Enterprise Server 10.0 (64 bit, x64)
- SUSE Linux Enterprise Server 10 (64 bit, ia_64)
- SUSE Linux Enterprise Server 11 (32 bit, x86)
- SUSE Linux Enterprise Server 11 (64 bit, x64)
- Debian Linux Version 5.0 (Lenny) (32 bit)

Solaris: Advanced Encryption, Service Response Monitoring AIM

Note: SystemEDGE supports all Zone or Container configurations for the Solaris 10 operating system.

- Solaris UltraSPARC 8 (64 bit)
- Solaris UltraSPARC 9 (64 bit)
- Solaris UltraSPARC 10 (64 bit)
- Solaris 8 (32 bit, x86)
- Solaris 9 (32 bit, x86)
- Solaris 10 (32 bit, x86)
- Solaris 10 (64 bit, x64)

Systems Performance LiteAgent Operating System Support

A computer running CA Performance LiteAgent requires one of the following operating systems:

Windows

- Windows Server 2003 Standard, Enterprise, Data Center, and Small Business Server Edition (32 bit, x86)
- Windows Server 2003 (64 bit, x64)
- Windows Server 2003 R2 Standard, Enterprise, and Data Center Edition (32 bit, x86)
- Windows Server 2003 R2 (64 bit, x64)

- Windows Server 2008 (32 bit, x86)
- Windows Server 2008 (64 bit, x64)
- Windows Server 2008 R2 (64 bit, x64)
- Windows Vista Business, Enterprise, and Ultimate Edition (32 bit, x86)
- Windows Vista Business, Enterprise, and Ultimate Edition (64 bit, x64)
- Windows XP Professional SP2+ (32 bit, x86)
- Windows XP Professional SP2+ (64 bit, x64)

HP

- HP-UX 11.23 PA-RISC (64 bit)
- HP-UX 11.23 IA64 (64 bit)
- HP-UX 11.31 PA-RISC (64 bit)
- HP-UX 11.31 IA64 (64 bit)

Note: For HP-UX 11, we recommend PHNE 27063 s700 800 11 cumulative ARPA Transport patch or later. This patch fixes memory issues with HP-UX libraries.

IBM AIX

- IBM AIX Version 5.3 (32 bit, 64 bit)
- IBM AIX Version 6.1 (64 bit)

Linux

- Red Hat Linux Advanced Server and Enterprise Server 4.0 (64 bit, x64)
- Red Hat Linux Advanced Server and Enterprise Server 4.0 (32 bit, x86)
- Red Hat Linux Enterprise Server 5.0 (32 bit, x86)
- Red Hat Linux Enterprise Server 5.0 (64 bit, x64)
- SUSE Linux Enterprise Server 9.0 (32 bit, x86)
- SUSE Linux Enterprise Server 9.0 (64 bit, x64)
- SUSE Linux Enterprise Server 10.0 (32 bit, x86)
- SUSE Linux Enterprise Server 10.0 (64 bit, x64)

Solaris

Note: SystemEDGE supports all Zone or Container configurations for the Solaris 10 operating system.

- Solaris UltraSPARC 9 (32 bit)
- Solaris UltraSPARC 9 (64 bit)
- Solaris UltraSPARC 10 (64 bit)
- Solaris 10 (32 bit, x86)
- Solaris 10 (64 bit, x64)

External Software for Supported Virtual Platforms

To enable virtual management functionality, CA Server Automation requires external software for virtual platforms in your environment. CA Server Automation can manage the following virtual environments:

- VMware vCenter Server
- Solaris Zones
- Microsoft Hyper-V
- IBM AIX LPAR
- Cisco Unified Computing System (UCS)

The management of these virtual environments requires the following components:

- vCenter Server AIM
- Solaris Zones AIM
- Microsoft Hyper-V AIM
- LPAR AIM
- Cisco UCS AIM

Note: For Microsoft Hyper-V, SystemEDGE and the AIM must be installed on each physical Microsoft Hyper-V Server.

VMware vCenter Server

To enable virtual management for VMware vCenter Server, verify that you have one of the following components installed in your environment:

VMware ESX Server/VMware ESXi Server

Version 3.5, 4.0, 4.1, or 5.0 is required to create VM sessions.

Note: ESX and ESXi Server support requires that a vCenter Server is configured to manage the ESX or ESXi servers.

VMware vCenter Server

VMware vCenter Server version 4.0, 4.1, or 5.0 is required to clone and migrate virtual machines and to manage the VMware vSphere or Virtual Infrastructure environment.

Note: VMware Tools optimize the virtualization of VMs and it is strongly recommended that they are installed on each VM in your VMware environment. Some features of this product will not be available or may not function correctly for VMs that do not have VMware Tools installed. For this reason, VMs that do not have VMware tools installed are not supported.

Microsoft Hyper-V Server

To enable virtual management for Microsoft Hyper-V Server, verify that you have at least one of the following products installed in your environment:

- Hyper-V Server 2008 R2 (64 bit, x64)

Note: Reservation Manager supports Hyper-V provisioning of Windows Server 2003 and Windows Server 2008 operating systems.

Oracle Solaris Zones

To enable virtual management for Oracle Solaris Zones server, verify that you have the following component installed in your environment:

- Solaris 10 with zones compatibility to manage Solaris Zones.

IBM Power VM (Logical Partitions, LPAR)

To enable virtual management for IBM LPAR, verify that you have the following components installed in your environment:

IBM AIX LPAR

IBM LPAR POWER5, POWER6, or POWER7 platforms let you monitor logical partitions on AIX and their managed systems.

IBM AIX Network Installation Manager (NIM) server

To enable imaging functionality for computers running AIX operating systems, install NIM server on AIX 5.3, 6.1, or 7.1. NIM adapter component installations are supported on AIX 5.3 (TL11 or higher), AIX 6.1 (TL4 or higher), and AIX 7.1.

Note: To image NIM clients with AIX 6.1 versions, the NIM server must be running AIX version 6.1 or later.

IBM AIX Network Installation Manager (NIM) client

NIM clients are supported on AIX 5.3 and 6.1.

IBM Hardware Management Console (HMC)

To manage logical partitions of IBM POWER5 or POWER6 platforms, install HMC V7R3.5, V7R7.1, or V7R7.2.

HMC V7R7.1 is the minimum level for POWER7 support.

IBM Integrated Virtualization Manager (IVM)

Alternative to HMC for managing logical partitions. Runs on the Virtual I/O Server. Versions 1.5, 2.1, and 2.2 are supported.

IBM Virtual I/O Server

IBM Virtual I/O Server (VIOS) lets you configure IBM AIX POWER5, POWER6, and POWER7 logical partitions. VIOS versions 1.5, 2.1, and 2.2 are supported.

Cisco Unified Computing System (UCS)

To enable management for Cisco UCS, verify that you have the following product installed in your environment:

- Cisco UCS 1.3, 1.4, and 2.0

Chapter 3: New Features and Enhancements

This section contains the following topics:

[AppLogic](#) (see page 33)
[CA Configuration Automation](#) (see page 34)
[CA Network Automation](#) (see page 34)
[Cisco UCS](#) (see page 34)
[IBM AIX Image Provisioning](#) (see page 35)
[IBM LPAR](#) (see page 35)
[Microsoft Cluster Services \(MSCS\)](#) (see page 35)
[Policy Actions](#) (see page 36)
[Policy Configuration](#) (see page 36)
[Rapid Server Imaging \(RSI\)](#) (see page 37)
[Remote Deployment](#) (see page 37)
[Reservation Manager](#) (see page 38)
[Scalability Best Practices](#) (see page 39)
[Storage Provisioning Manager](#) (see page 39)
[User Interface](#) (see page 40)
[VMware vSphere Support](#) (see page 41)
[Client Software Development Kit](#) (see page 41)

AppLogic

In this release, CA Server Automation supports a new integration product, CA AppLogic. CA AppLogic is a cloud computing platform for packaging an N-tier application into a logical entity and managing it as a single system.

The following features from CA AppLogic Releases 2.9 and 3.0 are supported:

AppLogic Discovery

You can discover the AppLogic Grids, Applications, Templates, Grid Servers, and Appliances associated with an AppLogic Web Services API Server.

Application Provisioning

You can provision an application based on a template to an AppLogic grid.

Deploy RSI Images to an AppLogic Grid

When an RSI server is deployed to an AppLogic grid, you can deploy images captured from other sources to the grid using a shared depot.

CA Configuration Automation

In this release, CA Server Automation supports the following features:

Server Relationships Discovery

You can view relationships between a server and all other managed servers in the network. Discovering these relationships can help you determine which servers can be grouped into a server automation service.

Verification for Services

You can assign a CA Configuration Automation server to a service, which also lets you perform verification functions on the service level. For example, you can take snapshots, view components, and run discovery or change detection.

CA Network Automation

In this release, CA Server Automation integrates with CA Network Automation. CA Network Automation provides the following functionality to Cisco routers and switches running the Cisco Internetwork Operating System (Cisco IOS):

- Network device discovery
- VLAN listing
- VLAN creation and deletion

Cisco UCS

In this release, CA Server Automation supports the following features:

Port Profiles

You can import port profiles created in the Cisco UCS Manager to a VMware vCenter port group. To import a port profile, define the VMware vCenter network topology and profile client using the vCenter Creation wizard. Use the vCenter Creation wizard to create, update, and delete items in the port profile network topology.

Blade and Host Name Correlation

The OS host name running on a blade now displays in Resources, Summary, General Information after discovery and provisioning are complete.

IBM AIX Image Provisioning

In this release, CA Server Automation supports the following features:

IBM AIX Imaging Using the MKSYSB Utility

MKSYSB provides one-step provisioning of an IBM AIX image that can include additional software. You can provision an MKSYSB image to a virtual machine (LPAR) or reimagine a physical IBM computer that runs an AIX operating system.

IBM LPAR

In this release, CA Server Automation supports the following features:

CPU and Memory Resource Allocation

From the Quick Start panel, you can change share-based dynamic resource allocations and update profiles for CPU and Memory settings.

LPAR monitoring

SystemEDGE provides enhanced performance metrics for LPAR monitoring. The installation of the CA Performance LiteAgent is no longer required on an LPAR.

IBM Integrated Virtualization Manager (IVM)

A lower-cost alternative to the Hardware Management Console (HMC) for managing logical partitions. Runs on the Virtual I/O Server and does not require separate hardware.

LPAR AIM and Virtual I/O Server

The LPAR AIM Configuration in the Administration tab of the user interface has been enhanced to consider Virtual I/O Server dependencies. The user interface provides details about connections and states.

Microsoft Cluster Services (MSCS)

In this release, CA Server Automation supports the following features:

Microsoft Cluster Services (MSCS) Integration

CA Server Automation manages multiple clusters with multiple nodes from a single monitoring station running on a single AIM.

MSCS CLI

CA Server Automation provides CLI commands for operations on MSCS.

More Information

[CA Server Automation AIM Operating System Support](#) (see page 25)

Policy Actions

In this release, CA Server Automation supports the following features:

Manage Windows Service Action Type

The Manage Windows Service action type lets you control Windows services using the AutoShell command line and scripting environment. You can start, stop, or get the status of a Windows service. You can also change its startup type, set dependencies, or the login account.

Create Report Action Type

The Create Report action type lets you automatically generate reports. You can also schedule this action.

Policy Configuration

In this release, CA Server Automation supports the following features:

Layered Templates Support

Layered templates allow you to apply additional monitoring on top of a SystemEDGE configuration, without the need to import them into a policy. The templates can be applied as layers to the base policy, without the need to apply the base policy. Templates can be applied at the individual server or service level. Control settings like community or port remain with base policy. When templates are applied, Policy Configuration combines templates and base policy into a sysedge.cf file for a specific server. Templates allow key configuration items including:

- Threshold monitors
- Process and Process Group monitors
- Log file monitors
- History monitors
- MIB extensions

Import of SystemEDGE 5.x configurations

After upgrading SystemEDGE 5.x from unmanaged to managed, it is possible to import the previous configuration into Policy Configuration as either a template or policy

Rapid Server Imaging (RSI)

In this release, CA Server Automation supports the following features:

Multiple Depots

You can register and remove depots from RSI Servers, and select a depot for image capture and deploy.

Exclude File Systems from Captured Images

You can specify file systems to exclude when capturing images (Windows and Linux/Unix only).

Deploy RSI Images to an AppLogic Grid

When an RSI server is deployed to an AppLogic grid, you can deploy images captured from other sources to the grid using a shared depot.

Remote Deployment

In this release, CA Server Automation supports the following features:

Support for Deploying Exchange and Active Directory AIM

Provides a default package wrapper that allows deployment of the AIM.

Deployment Reports

Added a new report to get Deployment Job Status for a given distribution server over a timespan.

Updates to Job Detail Panel

Provides support for the following features:

- Paging (100 rows in a page).
- Filtering by one or more columns
- Sorting by columns

Reservation Manager

In this release, Reservation Manager supports the following features:

AppLogic Platform

Support for CA AppLogic®, an application-centric turnkey cloud computing platform, is added.

Tenant Configuration

Additional configuration settings were added so that Super Administrators have more flexibility to customize the environment for each Tenant.

IBM PowerVM User Power Options

Users can control the power status of partitions without contacting the Administrator. When Administrators grant permissions, users can power on, shut down, and restart assigned partitions.

Storage Provisioning

Administrators can provision additional storage for Reservation Manager resource pools containing VMware resources in a single operation utilizing Storage Provisioning Manager for NetApp provisioning policies.

Mobile User Interface for Reservation Management

Coming soon, Administrators and users can manage basic reservation tasks in Reservation Manager using an Apple® iPhone® and iPad®. Features include viewing, canceling, and extending reservations, cost calculation, and use of templates. The mobile user interface also allows Administrators to reuse recent reservation configurations and to receive announcements about reservations. Contact Services for availability and the name to search in the application store.

Maintenance Mode

Administrators can now block end-user access to Reservation Manager when maintenance is performed.

Automatic Update of Job Status

Job status for reservations is now updated automatically without manual refresh.

Command Line Support for Listing Reservation Templates

A new dpmrm listtemplates command is added to list available reservation templates for a specified organizational unit.

Dynamic NIM Resources

When creating reservations for IBM Power VM partitions through Reservation Manager, administrators no longer have to create NIM resource configurations manually. NIM resources are dynamically created on the NIM Master server.

Scalability Best Practices

In this release, CA Server Automation supports the following features:

Scalability Best Practices Documentation

Policy Configuration and Remote Deployment documentation now include scalability best practices and recommendations for large-scale environments.

Storage Provisioning Manager

In this release, CA Server Automation supports the following features:

User Access Control

You can now configure privileged access to storage operations including Enhanced Storage Policies.

Clone Storage

You can now clone LUN resources in the command line interface.

User Interface

User interface navigation changed significantly in this release. The following highlights the navigation and feature changes:

Feature Availability

The user interface only displays features for installed components and integrations.

Search

A natural language Search feature is added for actions and resources. Search includes AutoComplete of search entries, and direct launch from Search results. You can also view events and performance on searched objects.

Dashboard

The Dashboard adds a Quick Launch panel for common system functions, and a Community Access panel with access to Provide Feedback and CA Support. A new Jobs pane lets jobs run in the background so that you can continue working.

Utilization Panels, Analytics Subtab

Utilization panels for VMware vSphere and Microsoft Hyper-V are added to track parameters like CPU, RAM, and disk utilization. You can access the panels using the Dashboard, Analytics.

Resources

The user interface exposes the following resources: Data Center, services, servers, managed, and unmanaged. When you select a resource, you can right-click and get resource-specific menus. Context-based menus make many tabs unnecessary.

Customized Quick Start Menus

You can customize Quick Start menus to display specific commands.

Help, Bookshelf

You can select which help system location to use:

- Local Help (as installed)
- Online Help (latest at support.ca.com)

Online is the default. Offline is available for systems without web access.

VMware vSphere Support

In this release, CA Server Automation supports the following features:

VMware vSphere 5.0

CA Server Automation manages VMware vSphere 5.0 environments.

vApp

CA Server Automation can perform operations on vApps. A vApp is a specific Resource Pool that treats a collection of VMs as a single unit. An operation on a vApp is propagated to all VMs in the vApp.

Multi-instances

The vCenter AIM can manage multiple vCenter Servers.

Network Connectivity of VMs After Provisioning

CA Server Automation verifies network connectivity for provisioned VMs.

More Information

[CA Server Automation AIM Operating System Support](#) (see page 25)

Client Software Development Kit

The CA Server Automation Client Software Development Kit (SDK) is provided to enable external applications to access CA Server Automation services. The SDK provides high-level functionality from a single point of contact and does not need to run on a CA Server Automation computer. The SDK uses web service calls to interact with CA Server Automation, so you only need to know the location of the service controller to use the SDK.

The SDK Application Programming Interface (API) is provided as a C library and associated header files. The API provides libraries for Windows, Solaris, HP-UX, AIX, and Linux operating environments. A sample program is included to demonstrate the use of the API. Documentation for the API is provided in the header files and in an accompanying readme file.

Chapter 4: Patches and Published Fixes

Patches and published fixes may be available for this version of the product. Visit the CA Support Online website <http://supportconnect.ca.com> to download patches or view published fixes before proceeding with the product installation. Patches and published fixes are available from the Download Center, Published Solutions pane.

This product includes all maintenance that was published prior to May 20, 2011.

This section contains the following topics:

[SNMPv3 Trap Forwarding Issue](#) (see page 43)

SNMPv3 Trap Forwarding Issue

The CA NSM Event Manager must be configured in a specific manner to successfully receive CA Server Automation SNMPv3 traps. If the CA NSM Event Manager is not configured properly, trap processing terminates.

Important! CA NSM 11.1: You must apply CA fix QO99777 and Microsoft fix 931565.

For more information about the CA NSM issue, see fix number QO99777 on CA Support Online at <http://ca.com/support>. Click Technical Support, then Download Center, and enter fix number QO99777 in the Quick Search field to locate the Product Information Bulletin.

You should also search the Microsoft Support website for Knowledge Base article 931565, which discusses the situation in which a WinSNMP application stops responding when you run third-party security scanning software on a Windows Server 2003-based computer.

Chapter 5: Documentation

This section contains the following topics:

[Related Publications](#) (see page 45)

Related Publications

The following publications provide information about CA Server Automation and are located on your installation media, the CA Bookshelf, and the CA Support Online website:

Administration Guide (DCA_Admin_ENU.pdf)

Describes product architecture, troubleshooting, concepts, and configuration tasks for administrators.

Installation Guide (DCA_Install_ENU.pdf)

Describes installation prerequisites, best practices, and procedures for CA Server Automation.

Reference Guide (DCA_Ref_ENU.pdf)

Provides detailed information about AutoShell, CLI scripting commands, log files, and performance metrics.

Online Help (HTML)

Provides information to help you complete tasks using the CA Server Automation user interface.

Reservation Manager Help (HTML)

Provides information to help users and administrators complete tasks using the Reservation Manager user interface.

Release Notes (DCA_Release_ENU.pdf)

Provides information about new and changed features and product implementation information including operating system support, system requirements, and how to contact Technical Support.

Service Response Monitoring User Guide (VAS_SRMUser_ENU.pdf)

Provides installation and configuration details of SRM.

SystemEDGE Release Notes (SE_Release_ENU.pdf)

Provides information about new and changed features and agent implementation information including operating system support, system requirements, and how to contact Technical Support.

SystemEDGE User Guide (SE_User_ENU.pdf)

Provides end-user information about the SystemEDGE agent.

CA Bookshelf (HTML)

Provides HTML and PDF versions of all guides and search capabilities.

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

Chapter 6: Known Issues

The *CA Server Automation Release Notes* on CA Support Online contain issues and other information discovered after publication.

For the latest version of the Release Notes, visit <http://ca.com/support>.

1. Log in to CA Support Online.
2. Select Enterprise/Small and Medium Business.
3. Select Documentation.
4. Select the CA Server Automation Bookshelf from the Bookshelf drop-down list, and click Go.
5. Open the Release Notes from the Bookshelf window.

This section contains the following topics:

[Naming Limitations of IBM Logical Partitions](#) (see page 48)
[Login Process is Slow](#) (see page 48)
[Rapid Server Imaging Limitations](#) (see page 49)
[VMware vCenter Server CLIs Are Missing](#) (see page 49)
[User Interface Does Not Reflect Product Upgrade](#) (see page 49)
[CA AppLogic Supported Versions Are Not Documented](#) (see page 50)
[Performance Chart Shows Zero Memory Usage on LPAR Level](#) (see page 51)
[Orchestrator Feature is Not Available](#) (see page 51)
[Naming Restrictions of Compliance and Remediation Jobs for CA Configuration Automation](#) (see page 51)
[Navigation Problem in SystemEDGE Installer on AIX Systems](#) (see page 52)
[Virtual Machines With the Same Name in a vApp](#) (see page 52)

Naming Limitations of IBM Logical Partitions

Symptom:

When I specify the name of a logical partition, CA Server Automation does not support it.

Solution:

The name of an LPAR provided to the IBM Create LPAR request is case-sensitive. This product however does not support management of two logical partitions in the same PowerVM server where the name differs only by case. For example, the following LPAR names are not supported in PowerServer1:

LPAR1 and lpar1

LPAR names must not contain the `/` character, because it is used as a separator of entities in object instances of monitors. A `/` character produces ambiguous monitor object instances. For example, an LPAR name 'lpar/blue' is not supported.

Login Process is Slow

Symptom:

If the user management connects to Active Directory, the login process can take a long time.

Solution:

CA EEM can bind with Active Directory using the default LDAP port 389. If the login process takes a long time, change to the Global Catalog port 3268.

Follow these steps:

1. Start CA Embedded Entitlements Manager.
The login page appears.
2. Select AIP as application, EiamAdmin as user, and log in.
The user interface appears.
3. Select Configure, EEM Server.
The EEM Server pane appears.
4. Select Global Users/Global Groups.
The user interface displays Global Users/Global Groups properties.
5. Change the Port number to 3268, and click Save.
The change takes effect immediately. You do not have to recycle any services after this change.

Rapid Server Imaging Limitations

Symptom:

The RSI Server character limitations listed in the Internationalization section of the Release Notes do not seem to be correct.

Solution:

The RSI Server accepts localized strings (utf-8) for names and descriptions of images, driver sets and driver collections, and stores them in its database. However, it runs only on an English server and does not display localized messages. The RSI agents are also supported only on English servers, and so capture/deploy of non-English servers are not supported. The CA Server Automation integration with the RSI server also accepts utf-8 strings for names and descriptions of images, driver sets and driver collections. CA Server Automation has its own localized messages that are displayed; however, the English-only messages from the RSI server are passed through as is. The RSI server supports depot names with ASCII characters.

VMware vCenter Server CLIs Are Missing

Symptom:

The *CA Server Automation Reference Guide* is missing CLIs for VMware vCenter Server.

Solution:

A similar product bookshelf has the complete list of VMware vCenter Server CLIs. Use Google to search for the *CA Virtual Assurance for Infrastructure Managers* bookshelf. Next, select *Reference Guide*, Command Line Scripting, Command Line, VMware vCenter Server CLI commands.

User Interface Does Not Reflect Product Upgrade

Symptom:

After I upgrade to the new version of CA Server Automation, the user interface does not reflect the new version.

Solution:

If you used the same browser instance before and after upgrade, the user interface may not reflect the new version. Close the browser session, open a new one, and log in to the user interface.

CA AppLogic Supported Versions Are Not Documented

Symptom:

I want to use CA AppLogic, but the supported versions and requirements are not documented.

Solution:

CA Server Automation supports CA AppLogic 2.9 and 3.0. Review the following requirements.

Note: If your AppLogic grid controller does not have the required version of the web services application (WS_API) listed below, contact CA Support.

CA AppLogic 2.9

- The AppLogic grid controller requires web service application WS_API_R4 or later
- Verify that a WS_API application is provisioned, and that the WS_API server is configured

For details, see <http://doc.3tera.com/AppLogic29/RefAppsWsApi.html#MyAnchor>

CA AppLogic 3.0

- The AppLogic grid controller requires WS_API_R8 or later
- Verify that a WS_API application is provisioned and configured using the *Application Catalog Reference Guide*
- Set up ACL access to the grid for the default WS_API user using the following example:
 1. Add the default user to the admin group.
`Group modify admin +local:user:api@anycomp.com`
 2. Enable grid administrator access for the default user
`Grid modify_acl local:group:admin=grid_administrator`
 3. Modify the ACL so all existing applications and templates are available in CA Server Automation.
`App modify_acl app_name modify_acl local:admin:full=yes`

Performance Chart Shows Zero Memory Usage on LPAR Level

Symptom:

When I monitor memory usage on LPAR level, the performance chart shows zero.

Solution:

The platform only provides memory utilization metrics, if memory is used in shared mode, that is, if memory is virtualized.

For dedicated memory, no utilization metrics can be collected and hence a utilization value of 0 is reported in the utilization chart.

Orchestrator Feature is Not Available

Symptom:

The CA Server Automation Installation Guide, Custom Worksheet refers to the Orchestrator feature, but I do not see it in the installation program.

Solution:

This feature was inadvertently added. Look for this feature in a future release.

Naming Restrictions of Compliance and Remediation Jobs for CA Configuration Automation

Symptom:

I am restricted on the characters I can use in compliance and remediation jobs in the CA Configuration Automation interface.

Solution:

The CA Configuration Automation user interface and its SDK enforce different character sets for compliance and remediation job names. The SDK has more restrictions than the user interface. The CA Server Automation user interface calls the SDK to create or update compliance and remediation jobs, and therefore enforces the same restrictions as the SDK.

Although the CA Configuration Automation user interface lets you use the following characters for compliance and remediation job names, they are not supported in CA Server Automation: = & " > < / \ ? : ; | + *

Navigation Problem in SystemEDGE Installer on AIX Systems

Symptom:

When I install SystemEDGE on AIX 6.1 and 7.1, navigation does not work in the lsm (UNIX Installer) text user interface. This problem also occurs with Advanced Encryption and the SRM AIM.

Solution:

Unlike on other UNIX operating systems and older AIX versions, navigation in lsm text user interface does not work on AIX 6.1 and 7.1 using the keyboard arrow keys when TERM is set to the (common) value of xterm. The problem does not occur when using the Java-based graphical lsm UI.

Workaround is to either set TERM to a different value (for example, vt100) before starting the installation, use + and – keys to navigate, or (PuTTY specific) set “Disable application cursor keys mode”.

Virtual Machines With the Same Name in a vApp

Symptom:

When I create virtual machines with the same virtual machine name in the same vApp, the virtual machines are not discovered properly.

Solution:

Do not create multiple virtual machines with the same VM name under the same vApp. This restriction only applies to virtual machines with the same name that have the same immediate parent. For example, do not create two Virtual Machines named "TestVM" under vApp "TestVApp". However, if vApp "TestVApp" has two vApps named "TestVApp1" and "TestVApp2", you can create one virtual machine "TestVM" under TestVApp1 and another "TestVM" under TestVApp2.

Appendix A: Acknowledgements

This appendix contains copyright and licensing agreement information for third-party software used in CA Server Automation.

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ActiveMQ 5.4.2

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```
* -----
* 
*/
```

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For the `server\util_md5.c` component:

```
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* 
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* Software Development Group
* National Center for Supercomputing Applications
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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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* 
* md5.c: NCSA HTTPd code which uses the md5c.c RSA Code
```

```
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```
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```
#
```

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Thanks to the following people for their input:

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hash.c: chained hash tables

Reference: Your favorite introductory book on algorithms

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list.c: lists handling implementation

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@version 3.0 (December 2000)

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@author Vincent Rijmen

@author Antoon Bosselaers

@author Paulo Barreto

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Written by: Philip Hazel

Email local part: ph10

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Mersenne Twister¶

The `_random` module includes code based on a download from <http://www.math.keio.ac.jp/matumoto/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.

Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)` or `init_by_array(init_key, key_length)`.

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Any feedback is very welcome.

<http://www.math.keio.ac.jp/matumoto/emt.html>

email: matumoto@math.keio.ac.jp

Sockets¶

The socket module uses the functions, `getaddrinfo()`, and `getnameinfo()`, which are coded in separate source files from the WIDE Project, <http://www.wide.ad.jp/>.

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MD5 message digest algorithm¶

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L. Peter Deutsch

ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at
<http://www.ietf.org/rfc/rfc1321.txt>

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.

1999-11-04 lpd Edited comments slightly for automatic TOC extraction.

1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.

1999-05-03 lpd Original version.

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary.
This results in a 1000-fold speedup. The C version is still 5 times faster, though.

- Arguments more compliant with python standard

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