CA Virtual Assurance for Infrastructure Managers

Release Notes

Release 12.6

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CA Technologies Product References

This document references the following CA Technologies products:

- CA eHealth®
- CA Embedded Entitlements Manager (CA EEM)
- CA IT Asset Manager
- CA IT Client Manager
- CA Network and Systems Management (CA NSM)
- CA Patch Manager
- CA Server Automation
- CA Service Desk Manager (CA SDM)
- CA Spectrum ®
- CA SystemEDGE
- CA Virtual Assurance for Infrastructure Managers
- CA Software Delivery

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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 CA Virtual Assurance Release Notes provide you details about new and enhanced features of this release, the prerequisites of the product installation, and integration with Third-party tools.

For details about installing CA Virtual Assurance, see the *Installation Guide*. For a brief description of the entire documentation set, see chapter *Related Publications* in this guide.

Chapter 2: System Requirements

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

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 If these technologies are not available, slow, or have incorrect or out of date information, product functionality can be adversely affected, including failing technology.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)
CA Virtual Assurance AIM Server and Managed Node Requirements (see page 20)
External Software for Supported Virtual Platforms (see page 28)

Manager Requirements

This section provides details on the hardware and software requirements for a manager installation of CA Virtual Assurance Release 12.6.

Hardware Requirements

The following hardware is required to implement distributed and nondistributed CA Virtual Assurance 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 Virtual Assurance web browser-based UI.

- RAM: 4 GB
  - 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 Virtual Assurance with other CA products, consider the combined impact and adjust the hardware specifications accordingly. For example, if you install CA Virtual Assurance (4-GB RAM) and CA Service Desk Manager (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 Virtual Assurance web browser-based UI.

Software Requirements

This section provides information about the software required to implement distributed and non-distributed components.

Manager on Windows

The CA Virtual Assurance 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).

Database Requirements

CA Virtual Assurance uses Microsoft SQL Server as its database. Because CA Virtual Assurance 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 Virtual Assurance 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 OSQ.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 Virtual Assurance 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 Virtual Assurance 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 Virtual Assurance supports the major versions of the Adobe Flash Player. The minor versions can also work, but they are not certified.

Additional CA Software

CA Virtual Assurance requires the following software shipped with the installation media:

CA Embedded Entitlements Manager for Windows (CA EEM)

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

CA Virtual Assurance 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.

CA Network Discovery Gateway

This software is required for system and network discovery.

SystemEDGE

The installation program installs SystemEDGE 5.6.0 if it is not already on your system. SystemEDGE is required for the CA Virtual Assurance 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.

Optional CA Software for CA Virtual Assurance

You can install the following optional CA software and configure CA Virtual Assurance accordingly to enable specific integration functionality:

CA Service Desk Manager

Version 11.2, 12.0, 12.1, 12.5, or 12.6 is required to open help desk tickets.

Internationalization (i18n)

CA Virtual Assurance 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 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 Virtual Assurance integrates with other CA products, review the international support statements for integration products.

CA Virtual Assurance 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 Virtual Assurance 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 Virtual Assurance the Virtual Machine name must be ASCII.

CA Virtual Assurance 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 CA 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 Virtual Assurance 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 in the Windows Command Prompt for running commands 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 Virtual Assurance CLI Commands

AutoShell and CA Virtual Assurance CLI commands support the -locale switch that allows you to specify a locale based on an IS0 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.

SRM CLI Commands

The svcwatch 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 Virtual Assurance disallows unsupported characters in UCS fields for service profile, pools, and so on.

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

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

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

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

CA Virtual Assurance AIM Operating System Support

The SystemEDGE AIMs and Advanced Encryption shipped with CA Virtual Assurance 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 Virtual Assurance requires external software for virtual platforms in your environment. CA Virtual Assurance 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 Hardware Management Console (HMC)

To manage logical partitions of IBM POWER5 or POWER6 platforms, install HMC V7R3.5, V7R7.1, V7R7.2, or V7R7.3.

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

IBM Virtual I/O Server and Integrated Virtualization Manager (IVM)

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

Exchange Server and Active Directory

To enable monitoring for Exchange Server and Active Directory, verify that you have the following product installed in your environment:

- .Net 3.5 or higher versions
- Power shell v2.0
- Exchange Management Tools SP3 on the AIM host to monitor Exchange Server 2007.

Note: Exchange Management Tools SP3 is not required for monitoring Exchange Server 2010.

Chapter 3: New Features and Enhancements

This section contains the following topics:

Backup and Restore (see page 31)
Cisco UCS (see page 32)
IBM LPAR (see page 32)
International Support (see page 32)
Microsoft Cluster Services (MSCS) (see page 33)
Remote Deployment (see page 33)
Exchange Server and Active Directory AIM (see page 34)
Policy Actions (see page 34)
Policy Configuration (see page 35)
Scalability Best Practices (see page 35)
Upgrade (see page 35)
User Interface (see page 36)
VMware vSphere Support (see page 37)

Backup and Restore

In this release, CA Virtual Assurance supports the following features:

Backup and Restore Documentation

The Installation Guide provides instructions how to backup and restore manager nodes. A manager node is any server that has the following components:

- Domain Server
- Distribution Server
- Databases
- EEM server

Cisco UCS

In this release, CA Virtual Assurance 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 LPAR

In this release, CA Virtual Assurance 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.

International Support

CA Virtual Assurance Release 12.6 is an internationalized release.

More Information

Internationalization (i18n) (see page 17)
Localization (L10n) (see page 20)

Microsoft Cluster Services (MSCS)

In this release, CA Virtual Assurance supports the following features:

Microsoft Cluster Services (MSCS) Integration

CA Virtual Assurance manages multiple clusters with multiple nodes from a single monitoring station running on a single AIM.

MSCS CLI

CA Virtual Assurance provides CLI commands for operations on MSCS.

More Information

CA Virtual Assurance AIM Operating System Support (see page 24)

Remote Deployment

In this release, CA Virtual Assurance 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

Exchange Server and Active Directory AIM

In this release, CA Virtual Assurance provides:

Exchange Server and Active Directory AIM

Exchange Server and Active Directory AIM lets you monitor Exchange Server and Active Directory environments on both off-premise and on-premise infrastructure. This release supports the following:

- Microsoft Exchange Server 2007
- Microsoft Exchange Server 2010
- Microsoft Active Directory 2008

Supported Operating Systems

- Windows Server 2008 Standard, Enterprise and Data Center Edition
- Windows Server 2008 R2 Standard, Enterprise and Data Center Edition

Note: This release of Exchange Server and Active Directory AIM does not support internationalization.

More Information

Exchange Server and Active Directory (ESAD) AIM Availability (see page 45)

Policy Actions

In this release, CA Virtual Assurance 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 Virtual Assurance 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

Scalability Best Practices

In this release, CA Virtual Assurance 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.

Upgrade

In this release, CA Virtual Assurance supports the following features:

Upgrade Documentation

The Installation Guide provides instructions how to upgrade CA Virtual Assurance. You can upgrade the following CA Virtual Assurance releases to Release 12.6:

- CA Virtual Assurance release 12.0.2 (SP2)
- CA Virtual Assurance release 12.5

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 Virtual Assurance supports the following features:

VMware vSphere 5.0

CA Virtual Assurance manages VMware vSphere 5.0 environments.

vApp

CA Virtual Assurance 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 Virtual Assurance verifies network connectivity for provisioned VMs.

More Information

CA Virtual Assurance AIM Operating System Support (see page 24)

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 39)

SNMPv3 Trap Forwarding Issue

The CA NSM Event Manager must be configured in a specific manner to successfully receive CA Virtual Assurance 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 41)

Related Publications

The CA Virtual Assurance documentation consists of the following deliverables:

Administration Guide

Explores how to administer and use CA Virtual Assurance to manage virtual resources in your environment.

Installation Guide

Contains brief architecture information, various installation methods, post-installation configuration information, and Getting Started instructions.

Online Help

Provides window details and procedural descriptions for using the CA Virtual Assurance user interface.

Reference Guide

Provides detailed information about AutoShell, CLI commands, MIB attributes, and performance metrics.

Release Notes

Provides information about operating system support, system requirements, published fixes, international support, known issues, and the documentation roadmap.

Service Response Monitoring User Guide

Provides installation and configuration details of SRM.

SystemEDGE User Guide

Provides installation and configuration details of SystemEDGE.

SystemEDGE Release Notes

Provides information about operating system support, system requirements, and features.

Chapter 6: Known Issues

The *CA Virtual Assurance 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 Virtual Assurance 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:

64-bit Registry Keys Missing in Backup and Restore Documentation (see page 44)
Exchange Server and Active Directory (ESAD) AIM Availability (see page 45)
User Interface Does Not Reflect Product Upgrade (see page 45)
Login Process is Slow (see page 46)
Naming Limitations of IBM Logical Partitions (see page 46)
Navigation Problem in SystemEDGE Installer on AIX Systems (see page 47)
Performance Chart Shows Zero Memory Usage on LPAR Level (see page 47)
Virtual Machines With the Same Name in a vApp (see page 47)

64-bit Registry Keys Missing in Backup and Restore Documentation

Symptom:

When I try to back up directories and data according to the instructions in the Installation Guide, the listed registry keys do not match on 64-bit systems.

Solution:

In the *Back up the Directories and Data* section, the queries for the Product Installation Directory and IDManager Install Directory refer to 32-bit registry keys only.

Use the following registry keys:

Product Installation Directory

32 bit:
"HKEY_LOCAL_MACHINE\SOFTWARE\ComputerAssociates\DynamicProvisioningManager"

64 bit:
"HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\ComputerAssociates\DynamicProvisioningManager"

IDManager Install Directory

32 bit:
"HKEY_LOCAL_MACHINE\SOFTWARE\ComputerAssociates\InfrastructureDeployment"

64 bit:
"HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\ComputerAssociates\InfrastructureDeployment"

Exchange Server and Active Directory (ESAD) AIM Availability

Symptom:

I cannot find the Exchange Server and Active Directory AIM (ESAD) in the software distribution (DVD).

Solution:

The latest Exchange Server and Active Directory AIM (ESAD) will be available at http://ca.com/support when it is certified by the CA eHealth product. The download provides the instructions on how to install the AIM using Remote Deployment.

The following sections of the CA Virtual Assurance documentation are applicable after the AIM is available for deployment:

Administration Guide:

- Exchange Server and Active Directory AIM
- Provisioning Resources, Remote Deployment

Release Notes:

- New Features and Enhancements, Exchange Server and Active Directory AIM

User Interface Does Not Reflect Product Upgrade

Symptom:

After I upgrade to the new version of CA Virtual Assurance, 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.

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.

Naming Limitations of IBM Logical Partitions

Symptom:

When I specify the name of a logical partition, CA Virtual Assurance 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.

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”.

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.

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 Virtual Assurance.

This section contains the following topics:

ActiveMQ 5.4.2 (see page 52)
Adobe Flex SDK 3.4 (see page 64)
AIX JRE (see page 69)
Apache Software Foundation (see page 70)
Apache ActiveMQ-CPP 3.2.4 (see page 87)
Apache Axis2 1.5.2 (see page 104)
Apache HTTP Web Server 2.2.16 (see page 123)
Apache Tomcat 6.0.32 (see page 154)
base64 0.00.00B (see page 170)
Boost 1.42 (see page 171)
Castor 0.9.5.4 (see page 172)
concurrent utilities 1.3.4 (see page 173)
Eclipse BIRT Runtime v. 2.3.2.2 (see page 175)
EXPAT 2.0.1 (see page 197)
Hibernate 3.3.2 (see page 198)
HP-UX JRE 6.0.02 (see page 199)
HSQLDB 1.8 (see page 200)
ipmitool 1.8.10 (see page 202)
JAXP 1.4.2 (see page 203)
JBoss 4.0.3 SP1 (see page 224)
JGoodies Looks 2.2.0 (see page 225)
JRE v1.6 (see page 225)
JSMin (see page 226)
JSW v.3.2.3 (see page 227)
JXTA 2.3.6 (see page 230)
libcurl 7.21.0 (see page 231)
libssh2 2-0.18 and 2-1.0 (see page 232)
Libxml2 2.7.7 (see page 233)
MIT Kerberos v5 release 1.4 (see page 235)
Netscape Portable Runtime 4.7.1 (see page 238)
netx 0.5 (see page 239)
NUNIT 2.2.8 (see page 240)
openSSH for Windows CE (see page 241)
OpenSSL 0.9.8.h (see page 254)
OpenSSL 0.9.8g, 0.9.8j, and 0.9.8k (see page 257)
OpenSSL 0.9.8r (see page 260)
openwsman 2.0 (see page 265)
Oracle JDBC Driver 10G Release 2 (see page 266)
PCRE Library 8.12 (see page 267)
Pegasus 2.7 (see page 270)
POCO 1.3.2 (see page 271)
PuTTY 0.60 (see page 272)
py2exe for Python 2.6.x (see page 273)
Python 2.6 (see page 274)
Rhino 1.6R4 (see page 288)
Sun JDK 1.6.0 (see page 297)
Sun JRE v.1.6 (see page 302)

swfobject 2.1 (see page 303)
Tomcat 6.0.33 (see page 304)
Windows Installer XML (WiX)v3 (see page 333)
Zlib 1.2.3 (see page 333)

ActiveMQ 5.4.2

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- Apache Log4cxx 0.10.0
- Apache Log4j 1.2.14
- Apache Log4j 1.2.15
- Apache Log4net 1.2.10
- Apache Tomcat Connectors 1.2.20
- Apache VSA 5.3.0
- Apache wss4j 1.5.7
- Apache Xerces-C++ 3.0.1
- Apache xmlsec 1.4.3
- Axis 1.1
- Axis 1.4.1
- Commons Lang 2.0
- Drools 4.0
- Google Web Toolkit 2.0.3
- gwt2swf 0.6.0
- L2FProd 0.2
- OpenSAML 1.1b
- rome 1.0
- SNMP4J 1.8
- Xalan-J 2.5.2
- XML-RPC 3.1.2
- XML Security Java 1.3

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For the server\util_md5.c component:

```
/**********************************************************************
*

 * NCSA HTTPd Server

 * Software Development Group

 * National Center for Supercomputing Applications

 * University of Illinois at Urbana-Champaign

 * 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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Jean-loup Gailly Mark Adler

jloup@gzip.org madler@alumni.caltech.edu

Apache Tomcat 6.0.32

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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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$Id: trio.c 3600 2007-04-17 12:44:58Z veillard $

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- RSA is no longer included, found in the OpenSSL library

- IDEA is no longer included, its use is deprecated

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- GMP is no longer used, and instead we call BN code from OpenSSL

- Zlib is now external, in a library

- The make-ssh-known-hosts script is no longer included

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@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen

@author Antoon Bosselaers

@author Paulo Barreto

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jloup@gzip.org madler@alumni.caltech.edu

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THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel

Email local part: ph10

Email domain: cam.ac.uk

University of Cambridge Computing Service,

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us/) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	no
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+2.0.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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2.3.2	2.3.1	2003	PSF	yes
2.3.3	2.3.2	2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
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2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
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Mersenne Twister¶

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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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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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