CA Performance Center

Release Notes

2.4.1

CA Technologies Product References

This document references the following CA Technologies products and components:

- CA Performance Center
- CA Infrastructure Management Data Aggregator
- CA NetQoS® Performance Center
- CA Single Sign-On
- CA Network Flow Analysis
- CA Application Delivery Analysis
- CA Unified Communications Monitor
- CA eHealth
- CA Spectrum

Contact CA Technologies

Contact CA Support

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

- Online and telephone contact information for technical assistance and customer services
- Information about user communities and forums
- Product and documentation downloads
- CA Support policies and guidelines
- Other helpful resources appropriate for your product

Providing Feedback About Product Documentation

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

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

Contents

Chapter 1: Welcome

Welcome to CA Performance Center. Review these *Release Notes* before installing the CA Performance Center software.

This document contains important information and installation notes, including the following topics:

- Product documentation availability

- Operating system support

- System requirements

- Version compatibility

This section contains the following topics:

New Features and Enhancements

The following features have been added in CA Performance Center 2.4.1 and Data Aggregator 2.4.1.

Note: For a complete list of new features and enhancements, see the *GA Release Letter*. For information about late-breaking changes, see the product *Readme* files.

Usability Enhancements

Improved Navigation

Enhanced breadcrumbs provide faster access to groups and sites, which simplifies navigation. A full path to the currently selected group now appears. Users can click a site or group to change the context of the dashboard.

Enhanced Site List Views

The ability to edit view settings for the site list is now available. Four selections are available:

- All Sites: Shows all sites under the selected group

- Parent Sites: All sites at the parent level

- Peer Sites: All sites at the same level as the selected site

- Child Sites: Direct children of the selected site

Raw CSV Export

Export to a CSV file in RAW format without units. The units are now listed in the column headers in the CSV file.

Non-Integer Scorecard Threshold Values

Scorecards now supports decimals when showing metric values. Users can also enter decimal numbers in the scorecard's view settings.

Drill from Views into DA Admin Page

Access the DA administrator page directly from a page associated with the DA. The new role right "Drill from Views into DA Admin Page" has been created for this purpose.

Changing Dashboard Layout No Longer Removes All Views

When a user changes a dashboard layout, no views are removed, but are instead moved to the first pane of the new layout. All view edits are preserved when the views are moved to the new layout.

Improved Component Level Poll Controls

Poll filtering now applies to all metric families. In addition, a new UI has been created to support the creation of filter expressions. Expressions involving logic are supported, including nested AND/OR/NOT expressions.

User Interface Enhancements

Fixed Context Views

A new 'Context' drop-down lets users fix a dashboard to a specific group from the dashboard settings dialog. A lock icon now indicates whether a view is fixed to the selected context or whether it is fixed to the page-level context.

Configuring URL Parameters of a Browser View

When configuring the browser view, a number of URL parameters are now available. URL parameters can set the language, resolution, and other properties. Identifiers can also be added to each URL parameter to act as meaningful labels.

Group Tree Enhancement

The group that is currently selected is highlighted in the group tree when users switch between groups.

View Dashboards Results at Higher Resolution

The new "Run Dashboards at Higher Resolution" role right lets users select more granular time ranges when viewing dashboards. Users without this role right are still limited to the default time ranges set by CA Performance Center.

Reporting

Customize Access to On-Demand Reports

Two new role rights can be assigned to limit access to viewing and managing on-demand reports:

Create On-Demand Report Templates

Lets users create, edit, and delete on-demand report templates. This role right also determines who can view the on-demand report templates.

Run On-Demand Report Templates

Lets users run on-demand report templates.

API

Open API

New public API for building queries to access configuration information and metric data. The OpenAPI query builder produces a URL using the OData 2.0 standard, which lets you view custom metric data in the specified format.

Vendor Certifications

New XML Attributes

Two new XML general attributes have been created for vendor certifications and metric families.

- Version

- Author

Certification Migration Tool

Upgrading to a new version of Data Aggregator now requires users to run the certification migration tool, which is included in the installer package. The migration tool moves vendor and CAMM certifications and metric families to the appropriate directory.

Certification Installer

In addition to using a REST client to import a certification, users can now use the new certification installer. The installer can install single or multiple certifications, and certifications that are located in specific directories. The certification installer does not have to be run on the Data Aggregator machine. The installer has both Windows and Linux versions, with a UI available for both, and command line available for Linux.

Product Documentation

CA provides a full set of technical documentation for all products. The guides available for CA Performance Center are as follows:

- Administrator Guide

- Operator Guide

- Installation Guide

- Managed Service Provider Guide

- Release Notes

- Single Sign-On User Guide

- Report Information Base (RIB) API Guide

- Web Services API Guide

- Use Cases

A Readme file contains the most recent list of known issues and workarounds. We recommend downloading the latest version of the Readme file and Release Notes from CA Support Online.

You can open these guides in PDF and HTML format from the Documentation Bookshelf. Access the bookshelf from the Help menu in the CA Performance Center user interface.

Context-sensitive online Help is available for pages and views when you click a Help (?) button or select Help for This Page from the Help menu.

Use the online Help system when you need more information about configuration tasks, navigating the user interface, and performance data.

Third-Party Software License Agreements

Third-party software was used in the creation of CA Performance Center. All third-party software has been used in accordance with the terms and conditions for use, reproduction, and distribution as defined by the applicable license agreements.

Information about third-party license agreements is provided in the following document, installed automatically with the CA Performance Center software:

[Installation Directory]\PerformanceCenter\ThirdPartyContent\caim_thirdpartycontent.txt

Chapter 2: Deployment Requirements and System Requirements

This section contains the following topics:

Deployment Options

Any CA Performance Center deployment requires additional servers to host data sources. Data source system requirements vary widely. Consult the data source Release Notes for deployment guidelines and system requirements.

CA has performed comprehensive testing of three different deployment scenarios with different numbers of managed items. The number of managed items translates to a rate of metric data that is processed:

- 15,000 metrics per second; 100,000 managed items (smaller deployment)

- 75,000 metrics per second; 500,000 managed items (medium-size deployment)

- 150,000 metrics per second; 1,000,000 managed items (large deployment)

The system requirements in this document reflect the differing requirements of these three environments.

System Requirements

Prepare a dedicated server for the CA Performance Center installation. Be sure that the server meets the requirements for your deployment size.

For All Deployments

The software can be installed in any filesystem to which the root user has write access. Typically, it is installed in /opt.

Verify that Security Enhanced Linux (SELinux) is disabled on the server where you plan to install CA Performance Center. By default, some Linux distributions have this feature enabled, which does not allow the product to function properly.

By default, the MySql database is installed to /opt/CA/MySql/, but you can select another location. Make sure you have enough disk space allocated to the selected filesystem to support a database.

The minimum supported screen resolution is 1280x1024.

DNS resolution and time synchronization are required. For more information, see the *Installation Guide*.

Adobe® Flash® must be installed on any client that accesses the product user interface. You can download it from the Adobe website.

A web browser is required. The following browser applications are supported:

- Microsoft Internet Explorer versions 9, 10, 11

- Mozilla Firefox (current version)

- Google Chrome (current version)

Virtual and SAN Environments

Review the document titled *CA Support Statement for Running CA Performance Management Products in Virtualization and SAN Environments* on CA Support Online:

https://support.ca.com/phpdocs/7/5637/CA_Support_Statement_for_Running_CA_NVM_Products_in_Virtualization_Environments.pdf

The document discusses the CA policies for installing and operating Performance Management products on virtualized servers or Storage Array Networks (SAN). You must be logged in as a registered user to view documentation on CA Support Online.

15,000 Metrics per Second (Smaller Deployment)

Setting or Component	Description
Operating system	Red Hat Enterprise Linux 5.x for x64
	Red Hat Enterprise Linux 6.x for x64
Processor	4 dedicated virtual CPUs
Processor Speed	2.0 GHz
Memory (RAM)	16 GB
Disk Space	56 GB
Disk Input/Output	100 Mega Bytes/second

75,000 Metrics per Second (Medium-Size Deployment)

Setting or Component	Description
Operating System	Red Hat Enterprise Linux 5.x for x64
	Red Hat Enterprise Linux 6.x for x64
Processor	12 cores
Processor Speed	2.0 GHz
Memory (RAM)	32 GB
Disk Space	130 GB
Disk Input/Output	100 Mega Bytes/second

150,000 Metrics per Second (Large Deployment)

Setting or Component	Description
Operating System	Red Hat Enterprise Linux 5.x for x64
	Red Hat Enterprise Linux 6.x for x64
Processor	24 cores
Processor Speed	2.5 GHz
Memory	32 GB
Disk Space	223 GB
Disk Input/Output	100 MegaBytes/second

Configure UTF-8 Support

Configure the computer where you will install the component to support UTF-8 encoding. If UTF-8 encoding is not enabled, characters may not display properly during the installation.

The appropriate language packs are also required to support localized deployments.

Note: Some scripts that are used in the installation of selected components are not localized and run in English. For more information, see the *Localization Status Readme* file.

Follow these steps:

1. Do one of the following steps:

    a. Type the following command from a Korn or bash shell:

        `export LANG=LANG_value ; export LC_ALL=$LANG`

        LANG_value

        Indicates the value of the language you want the product to support. The following variables are supported:

        English: en_US.utf8

        French: fr_FR.utf8

        Japanese: ja_JP.utf8

        Simplified Chinese: zh_CN.utf8

        Traditional Chinese: zh_TW.utf8

        For example:

        `export LANG=zh_TW.utf8 ; export LC_ALL=$LANG`

    b. Type the following command from a Bourne shell:

        `LANG=LANG_value ; export LANG`

        `LC_ALL=LANG_value ; export LC_ALL`

        For example:

        `LANG=zh_CN ; export LANG`

        `LC_ALL=zh_CN ; export LC_ALL`

    The language variable is set.

Version Compatibility

CA Performance Center 2.4.1 uses code and user interface design features derived from CA NetQoS Performance Center version 6.1. However, the two products are distinct in multiple ways, and they do not support the same data sources.

CA Performance Center is fully compatible with the following CA Technologies products:

- CA Infrastructure Management Data Aggregator

- CA Network Flow Analysis

- CA Application Delivery Analysis

- CA Unified Communications Monitor

- CA Spectrum

- CA Application Performance Management

- CA eHealth

- Anomaly Detector

Find an updated listing of supported data source product versions on the product page on the CA Support website.

The CA Event Manager data source that is installed automatically with the CA Performance Center software is the only version that is compatible with CA Performance Center 2.4.1.

Some CA products do not yet offer support for CA Performance Center 2.4.1. Compatibility with NetQoS Performance Center does not ensure support for CA Performance Center.

For the following product versions, **CA NetQoS Performance Center version 6.1** (or version 6.1 with service packs) is required:

- Transaction Insight Manager (TIM) on the CA Multi-Port Monitor (CA APM and CA Multi-Port Collector convergence)

  If you plan to deploy TIM on the Multi-Port Monitor, NetQoS Performance Center 6.1 is *required*. Later versions are not supported.

- CA Application Delivery Analysis versions 9.2, 9.3, 10.0

- CA Unified Communications Monitor versions 3.6, 3.7

- CA Application Performance Management version 9.5

- CA SuperAgent versions 8.3, 9.0, 9.1

- CA NetVoyant versions 7.0, 7.1

- CA Network Flow Analysis version 9.2

- CA Unified Communications Monitor versions 3.0, 3.1, and 3.2

- CA Anomaly Detector versions 2.1, 2.2

- CA Spectrum version 9.3, 9.4

- CA Spectrum Infrastructure Manager r2.5 (with Version 1 of the CA Catalyst Connector for NetQoS Performance Center)

- CA eHealth versions 6.3.0.05, 6.3.1, 6.3.2, 6.3.2.01, 6.3.2.02, 6.3.2.05

For upgrade instructions, see the [CA Support Online website](). You should plan to upgrade your CA Technologies products in a specific order if you are installing multiple products on the same server. The upgrade instructions provide details for multiple possible configurations.

Maximum Data Source Instances Supported

CA Performance Center is capable of managing multiple instances of selected data sources. The following limits apply to the number of data sources that you can register of each type:

- 10 CA Application Delivery Analysis data sources

- 1 CA Network Flow Analysis data source

- 4 CA Unified Communications Monitor data sources

- 1 CA Application Performance Management data source

- 1 CA Catalyst Connector data source

- 1 Event Manager data source

- 1 CA Spectrum data source

- 10 CA eHealth data sources (standalone CA eHealth systems or, for CA eHealth clusters, designated front-end systems)

Important! Additional data sources can add significant load to the system. As you add multiple instances of a data source, keep track of the estimated number of managed items that they monitor. Keep the total system load at or below 1,000,000 managed items from all data sources.

Language Support

The present version of CA Performance Center supports the following locales:

- English (US)

- Chinese (Simplified)

- Chinese (Traditional)

- French (France)

- Japanese

Additional languages might be supported in the future. A few known issues relate to language support. For example, some data sources have not been translated into all supported languages. For more information, see the Localization Status Readme file, which is available on the product page on the CA Support website.

Chapter 3: Upgrade Requirements and Considerations

If you are upgrading Data Aggregator, review the following information.

Supported Upgrade Paths

If you are upgrading from a previous release of Data Aggregator, upgrade your components. You always upgrade the CA Performance Center, Data Aggregator, and Data Collector components. Upgrade CA Infrastructure Manager Data Repository when you are upgrading to the releases identified in the table that follows.

Important! If you are upgrading from Release 2.0.00 to Release 2.4, upgrade to Release 2.1.00, upgrade to Release 2.2.x, and then upgrade to Release 2.3, first.

The following table indicates the supported upgrade paths and indicates which components to upgrade:

Release	CA Performance Center Component	Data Aggregator Component	Data Collector Component	CA Infrastructure Manager Data Repository Component
Release 2.0.00 to Release 2.1.00	Upgrade Required	Upgrade Required	Upgrade Required	Upgrade *Not* Required
Release 2.1.00 to Release 2.2.00	Upgrade Required	Upgrade Required	Upgrade Required	Upgrade Required
Release 2.2.00 to Release 2.2.1	Upgrade Required	Upgrade Required	Upgrade Required	Upgrade *Not* Required
Release 2.2.00 or 2.2.1 to 2.2.2	Upgrade Required	Upgrade Required	Upgrade Required	Upgrade Required
Release 2.2.[1, 2, 3] to 2.3.[0, 1, 2, 3]	Upgrade Required	Upgrade Required	Upgrade Required	Upgrade *Not* Required
Release 2.2.x to 2.3.4	Upgrade Required	Upgrade Required	Upgrade Required	Upgrade Required **Note:** Vertica Release 7 is introduced in Release 2.3.4.

Release	CA Performance Center Component	Data Aggregator Component	Data Collector Component	CA Infrastructure Manager Data Repository Component
Release 2.3.[0, 1, 2, 3] to Release 2.3.4	Upgrade Required	Upgrade Required	Upgrade Required	Upgrade Required **Note:** Vertica Release 7 is introduced in Release 2.3.4.
Release 2.3.4 to Release 2.4	Upgrade Required	Upgrade Required	Upgrade Required	Upgrade *Not* Required
Release 2.3.3 to Release 2.4	Upgrade Required	Upgrade Required	Upgrade Required	Upgrade Required
Release 2.4 to Release 2.4.1	Upgrade Required	Upgrade Required	Upgrade Required	Upgrade Required
Release 2.3.4 to Release 2.4.1	Upgrade Required	Upgrade Required	Upgrade Required	Upgrade Required

Note: For information about upgrading Data Aggregator components, see the *Data Aggregator Installation Guide*. For information about upgrade requirements and considerations for releases before 2.3.x, see the *Release Notes* or *Fixed Issues* file for the release to which you are upgrading.