

CA Clarity™ PPM

Release Notes

v13.0.00



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Chapter 1: Welcome to CA Clarity PPM

Welcome to CA Clarity PPM v13.0. This release provides you with improved usability and performance over previous product releases. The following sections explain the new features available in this release.

This section contains the following topics:

- [Installation](#) (see page 9)
- [Supported Upgrade Paths](#) (see page 10)
- [New Look and Feel](#) (see page 11)
- [Administration](#) (see page 16)
- [Project Management](#) (see page 17)
- [Financial Management](#) (see page 18)
- [Studio](#) (see page 19)
- [Reports](#) (see page 20)

Installation

The installation process has been streamlined by instituting image-based deployment of the v13.0 database. In previous versions of CA Clarity PPM, database objects were created at the time of installation. With v13.0, a fully populated database image is imported by the database administrator. When the v13.0 installation is pointed to the imported database and CA Clarity PPM services are started, installation is complete. This new process greatly reduces the overall time to perform a new installation.

The upgrade process has also been improved. Prior to v13.0, the current installation directory was upgraded directly. With v13.0, this is no longer the case. In a v13.0 upgrade, the installation is deployed to an empty directory. The benefit of this method is the assurance of a healthy file system because only the files necessary for CA Clarity PPM v13.0 are present. Any customization can be managed to help ensure it is ported to the new installation directory, if appropriate.

Lastly, with v13.0 the Beacon service must always be running on the application server or it cannot be managed from CA Clarity System Administration (CSA).

For more information about the new installation process, see the following documents:

- *Change Impact and Upgrade Guide*
- *Installation Guide*

Supported Upgrade Paths

The supported upgrade paths for CA Clarity PPM v13 include:

- CA Clarity PPM 8.1 or any 8.1 fix pack or service pack
- CA Clarity PPM 12.0 or any 12.0 service pack
- CA Clarity PPM 12.1

Note: Customers on 12.1.0.5849 should be patched with v12.1.0.4a before upgrading.

- CA Clarity PPM 12.1.1

Important! Customers on CA Clarity PPM 12.1.2 or higher should not upgrade to v13. For best results, wait for a supported upgrade path to a post-v13 service pack.

New Look and Feel

This release has a new look. New usability features make it easier to find what you need and take action.

The screenshot shows the Clarity PPM application interface. At the top, there is a main menu bar with 'Main menu bar' and a user toolbar with 'User toolbar' (containing 'Mary Bell', 'Logout', 'Help', and 'About'). Below the toolbar is a navigation bar with 'Home', 'Administration', and 'Favorites' buttons. A red box highlights this navigation bar. To the right of the navigation bar is a 'Portlets' section with 'Icons' and a set of four icons: a green 'x', a blue 'P', a blue gear, and a blue plus sign. A red box highlights this section. Below the navigation bar is a 'General' tab in a 'Overview: General' section. A red box highlights this tab. The 'Overview' section contains three main panels: 'Notifications' (listing various item counts like Action Items, Change Requests, etc.), 'Action Items' (listing items assigned to the user with a 'New' button), and 'My Projects' (listing no items with 'New' and 'New from Template' buttons). A red box highlights the 'Notifications' panel. To the right of these panels is a 'Favorite Links' section (empty), a 'Favorite Photo' section (empty), and a 'Site Links' section (empty). A red box highlights the 'Favorite Links' section. A red arrow points from the 'Icons' in the Portlets section to the four icons in the 'Icons' section of the Overview.

Main Menu Bar

The new main menu bar is located over the CA Clarity PPM application page. The menu bar replaces the left navigation pane that appeared in previous versions.



The following list explains the numbered features in the preceding figure:

1–Back

Returns you to the previous page. The page you return to is based on the previous entry in the Recent Pages list.

2–Recent Pages (History)

Provides a drop-down list of the pages most recently viewed. You can select from the list to return to a page. Entries are not made for navigation between subpages that belong to a specific instance. For example, if you are navigating between the subpages of a specific project, the subpages are not listed in the Recent Pages list.

3–Home, Administration, and Favorites Menus

Provide the navigation to all CA Clarity PPM pages. The menus and options that you can view depend on your access rights.

4–Refresh

Renews the data on a page.

5–Home

Returns you to the home page.

6–Current Timesheet

Takes you to your current open timesheet.

7–Search

Opens a search window for CA Clarity PPM.

User Icons

User icons that represent special actions appear on some pages where the actions are appropriate. The icons available include:



Export to Excel

Exports information from a page to an Excel format. If a page does not have portlets, the icon does not appear.

Export to PowerPoint

Exports content from a page to a PowerPoint format. If a page does not have portlets, the icon does not appear.

Personalize

Lets you customize a page by adding or removing a portlet, adding or removing a filter, or changing the layout of portlets.

Manage My Tabs

Lets you create new tabs, add content to tabs, and change the layout of portlets on tabs.

Favorites Menu

A Favorites menu now appears on the main menu bar. You can add any page in CA Clarity PPM to the Favorites menu by opening the page then opening the Favorites menu and clicking Add Current. This menu is a way to assemble a list of pages that you use often. The menu reduces the number of mouse clicks it takes to get to often used pages. You can also add action links to the menu (for example, a link to run a report).

Tab Menus

Tabs can have menus. If a tab has a menu, a down arrow appears on the tab when it is active. To open a tab menu, click the tab once while it is activated.

Portlet Filtering and Options

Portlets have new options available for filtering, configuration, sorting and exporting. The portlet title bar shows a new filter feature. You can double-click anywhere on the portlet title bar to expand or collapse the filter.

Use the menu items located on the Options menu (shown in the following illustration) to manage the information contained in the portlet.



UI Themes Improvements

UI themes have been updated. The management of UI themes is now done through Studio. You can customize the stock UI themes by copying and modifying the CSS style sheets, which are available in Studio.

New Accessibility Features

You can select options for a resource that allow the CA Clarity PPM application work optimally with a screen reader. You can also display the user interface in a high-contrast mode for better readability.

Inline Edit for Lists

You can now edit directly in a list by clicking in a cell to activate edit mode. When you click in a field to update a list, the entire list is placed into edit mode. As you make changes to cells, a flag appears in each cell to indicate unsaved updates.

You can click links and icons in other fields while the list is in edit mode. When you are done, save your changes to update and save the data in the fields. Press the Esc key to return to display mode and discard unsaved changes.

New CA Clarity PPM Charts

Charts for this release have the following changes:

- All charts are HTML5.
- SVG charts have been removed.
- Zooming is available.
- Some charts have animation.
- Area and Donut chart types are available.

The out-of-the-box chart colors have changed for this release. If you are using the Color Consistency feature, document your current colors so that you can change the color in the new release, if needed. You can recreate your colors in this release using the custom color palette under System Options.

Auto-Suggest Lookups

Auto-suggest displays possible selection values to a user based on keyboard input. The following lookup changes occurred for this release:

- Auto-suggest is turned on for all lookups by default, but it can be turned off by opening the lookup and clicking the Auto-Suggest tab, then clearing the Auto Suggest Enabled check box.
Auto-suggest for OBS lookups cannot be turned off.
- Dependent Lookups are not auto-suggest enabled.
- Multi-valued lookups can be configured to work within lists and grids.

Multivalued Lookups in Lists

You can configure multivalued lookups to work within lists and grids.

Button Improvements

The buttons that appear on the majority of CA Clarity PPM pages have been standardized. The following table shows the new and old button names.

New CA Clarity PPM v13 Buttons	Old CA Clarity PPM v12.1.1 Buttons
Save	Save
Save and Return	Submit

New CA Clarity PPM v13 Buttons	Old CA Clarity PPM v12.1.1 Buttons
Return	Cancel

Administration

Configurable Notifications

Configurable notifications that allow administrators to add attribute information and any additional text information to a CA Clarity PPM notification are new for this release.

The following changes are also new:

- Subject and message body of the notifications can be configured by users.
- If you are changing a Studio object notification template, you can add Studio links to the notification that allow you to go directly to the project properties or change request instance.

New User Group and Access Rights

Greater access control is provided for the Account Settings, Organizer, and Projects pages. You can control who sees the links in the Home menu and navigates to the pages for these features. A user must be granted the explicit right to see each of these features.

In previous releases, the rights to see the pages were granted by default. To allow existing customers who wish to continue to provide these rights to users as a whole, a new out-of-the-box user group named *Basic group for user access* is available with this release. The new user group provides the new access rights.

Project Management

Interactive Gantt

The Work Breakdown Structure (WBS) page has changed. The previous WBS page has been removed and replaced with a new interactive Gantt editor page. There are functional differences between the previous WBS page and the new Gantt editor. The new Gantt editor includes drag-and-drop, inline insert, toolbar, and full hierarchy support.

Navigation to the new Gantt editor page has changed:

- The Gantt button on the Task List page has been removed.
- The Gantt editor opens in its own browser window.
- New Studio links have been provided to the Gantt editor.

For information about the new Gantt page, see the *Project Management User Guide*.

Editable Time-Varying ETCs on Assignments

Previously, CA Clarity PPM calculated and stored time phase assignment information. With this release, project managers can plan in more detail, leveraging time phase data. Project managers can view and edit time-varying ETCs on resource assignments from the following locations:

- Task properties view from the Assignment Usage view
- Time-varying ETCs in the Assignment properties page

Calculate Project and Task EV Metrics Without a Baseline

In previous releases, CA Clarity PPM did not calculate any earned value metrics without a project baseline. With this release, earned value metrics (like ACWP) no longer require a project baseline to calculate project and task costs.

Ability to Hide Empty Rows in Capacity Planning

When you filter the *Resource Planning: Capacity - Role Capacity* portlet, rows that have no results within the filter criteria are filtered out. The empty rows are hidden.

Assign Resources Not on the Project

A project manager can assign non-project team members directly to tasks. On the Project properties page, the project manager can control which resources are used for task assignments by setting a new field named *Assignment Pool*.

Financial Management

Process Enabled Cost Plans

Cost plans are process-enabled. You can create processes on financial plans.

Multiple Grouping Attributes in Cost Plan

The Group By and Sub-Group By fields have been replaced by a multivalued lookup field named Grouping Attributes. A cost plan now has ten available grouping attributes instead of five. You can plan by all ten attributes instead of two.

Simple Budget Improvements

The following changes were made to the Simple Budget for this release:

- Three new fields were added to the Financial Metrics section of the simple budget:
 - IRR (Internal Rate of Return)
 - MIRR (Modified Internal Rate of Return)
 - Planned Payback Period (in months)
- Four new fields were added to the Financial Metrics Options section:
 - Investment Rate
 - Initial Investment
 - Use System Rate for Total Cost of Capital
 - Use System Reinvestment Rate

Financial Management Improvements Using the Resource Plan

The following Financial Management improvements have been made using Resource Planning:

- Getting cost or rate from the rate matrix
You can create or populate a plan from assignments or allocations the way it is done in CA Clarity PPM v12. Changes have been made to rate calculations to get better and more accurate rates.
- Null grouping attributes
You can create a plan detail with a null grouping attribute using a resource plan. This enhancement removes some restrictions such as requiring a team member to be financially enabled or assigned a role.
- Insta-slice
This feature is turned off for the Populate from Resource Plan feature. Time slices are created when the time slice job runs.

Studio

Object Actions

An Actions menu displays on some CA Clarity PPM pages with default menu options. The actions menu can be customized by adding object actions. You can add object actions to the menu that do the following:

- Run a report
- Run a process
- Run a job
- View another page
- View an external Internet site

TSV Improvements

Fiscal time-scaled values (TSVs) are available with this release. Instead of operating on the standard yearly calendar, fiscal TSVs are based on the fiscal calendar.

You can configure TSV displays based on a specific date for the *Start Date* attribute property.

Reports

This version of CA Clarity PPM supports CABI 3.2 and the BusinessObjects Reporting Server. Actuate is no longer supported as a reporting solution. See the "Compatibilities" appendix for a complete list of supported CABI 3.2 configurations.

The following stock reports were removed due to functionality that is no longer offered in CA Clarity PPM:

- Pre-Billing Report
- Invoice Register Report
- Customer Invoice Report

A new financial universe was created to support the new grouping attributes in Cost Plans. In addition, the existing financial universe was updated to provide backward compatibility with custom reports written in prior CA Clarity PPM versions. The financial universes included in this release are:

- CA PPM Investment Financials v13 – MSSQL/Oracle (New)
- CA PPM Investment Financials – MSSQL/Oracle (Updated)

The Legacy universe was updated to remove references to fields that changed or are no longer in the CA Clarity PPM data schema.

See the *Change Impact and Upgrade Guide* for a list of changed and deprecated fields.

Chapter 2: Localization

CA Clarity PPM is fully localized and supports over 100+ regional settings for date, time, and number formatting. The user interface is available in the following languages:

- Brazilian Portuguese
- Czech
- Danish
- Dutch
- English
- Finnish
- French
- German
- Hungarian
- Italian
- Japanese
- Norwegian
- Polish
- Russian
- Spanish
- Swedish
- Turkish

Localized versions of some CA Clarity PPM Online Help files and guides will be available within 90 days of the product general availability

The most recent editions of localized documentation are available online from the Documentation link on [CA Support](#).

Chapter 3: Training

For implementation teams, CA Technologies offers instructor-led and self-paced CA Clarity PPM training. This training is designed to help implementation teams understand CA Clarity PPM functionality so they can make informed decisions on configuring CA Clarity PPM.

For user training, CA Technologies offers the CA Productivity Accelerator (CA PA) solution. You can use this solution to create custom education materials and practice simulations and assessments. The custom education materials are used in classroom training and online simulations. Your users can access the practice simulations and assessments from the Learn link on the User toolbar or from the learning management system (LMS). CA PA provides standard content modules that you can upload into your CA PA editor and modify to reflect your configuration of CA Clarity PPM. You can also integrate your organization's processes and procedures into the CA PA solution.

CA Education offers these training solutions. To learn more about the training offerings and CA PA, see <http://ca.com/education>.

Chapter 4: Documentation

Context-sensitive Online Help is provided with CA Clarity PPM.

The entire set of CA Clarity PPM guides is available from [CA Support](#) and can be accessed from the CA Clarity PPM bookshelf. With this bookshelf, you can view a specific guide or search the entire bookshelf for related information. You can view an HTML version of these guides, download a PDF, or download a .zip of the entire bookshelf.

You can access the CA Clarity PPM bookshelf from the product support page or from the documentation page. Visit [CA Support](#) periodically for the latest editions of CA Clarity PPM guides.

The following documents are available from the bookshelf:

Release Documents

Document	Description
Change Impact and Upgrade Guide	Describes changes to CA Clarity PPM for the release and outlines any upgrade actions due to the changes.
Release Notes	Introduces you to key features and additional resources.

User Guides

Guide	Description
CA Clarity PPM Basics	Describes the basic features of CA Clarity PPM for users, such as navigational techniques, favorite links, access to portlets, and account setup.
Demand Management	Describes how you can capture, classify, evaluate, and dispose of all sources of demand.
Financial Management	Describes how a financial manager can set up CA Clarity PPM for financial management, create financial summaries and detailed financial plans, and process transactions and chargebacks.
IT Service Management	Describes how you can analyze investments associated with a service for value and quality and make informed financial decisions.

Guide	Description
Personalizing CA Clarity PPM	Describes more advanced features available for users to personalize CA Clarity PPM for individual use.
Portfolio Management	Describes how to create portfolios and analyze investments in portfolios using CA Clarity PPM.
Project Management	Describes how a project manager can create projects, set up project defaults, and schedule and assign tasks using CA Clarity PPM.
Requirements Planning	Describes how you can define and track the deliverable requirements of your business, and capture your business values in the form of requirements.
Resource Management	Describes how a resource manager can create, manage, and find resources using CA Clarity PPM.

Administrative, Developer, and Technical Guides

Guide	Description
Access Rights Reference Guide	Describes CA Clarity PPM access rights.
Administration	Describes the administrative features used to support and maintain CA Clarity PPM, such as user accounts, passwords, access, processes, reports, and jobs.
Business Objects Universe Developer	Describes how to create Business Objects reports using the Business Objects universes created for CA Clarity PPM.
CA Clarity-Xcelsius Implementation	Describes Xcelsius visualizations and how you can configure for real-time CA Clarity PPM data transfers using web service connections.
Installation	Describes how to install CA Clarity PPM.
Studio Developer	Describes how to configure CA Clarity PPM by creating new pages, fields, and portlets.
Technical Reference	Describes the CA Clarity PPM database tables and columns and entity-relationship diagrams.
XML Open Gateway Developer	Describes how to import and export CA Clarity PPM data through the XML Open Gateway.

Chapter 5: Add-ins and Connectors

The following table shows the add-in versions that are compatible with CA Clarity PPM v13:

Add-ins

CA Clarity PPM Add-in	Compatible Version
Accelerator for New Product Development	2.0
Accelerator for PMBOK	2.0
Accelerator for PRINCE2	2.0
Business Relationship Manager Accelerator (with Service Desk)	3.0
Earned Value Manager	2.0
PPM Essentials Accelerator	2.0
PMO Accelerator	3.0

CA Product Connector

CA Product Connector	Compatible Version
Connector for CA Unicenter Asset Portfolio Management	2.0
Connector for CA Unicenter® Service Desk & CA Software Change Manager for Distributed	2.0
Connector for Remedy (Service Connect)	2.0
Agile Vision Enterprise	Winter 2012
Product Vision	Winter 2012

CA Third-Party Connector

CA Connector	Compatible Version
Connector for Microsoft SharePoint	2.0

Chapter 6: Additional Resources

Known Issues

For information about known issues, visit [CA Support Online](#) and search using one of the following keywords:

- *clarity13open*
- *clarity13resolved*

Any related articles and known issues are displayed.

Contacting Technical Support

For online technical assistance and a complete list of locations, primary service hours, and telephone numbers, contact CA Support.

Web address:

<http://www.support.ca.com>

Telephone numbers:

North America: 1 888 550 6458

Europe: 44 08459 888788

Asia Pacific: 61 3 9821 3000

Appendix A: Compatibilities

This section contains the following topics:

- [About Compatibilities](#) (see page 31)
- [CA Clarity PPM Servers](#) (see page 31)
- [Integrated Servers](#) (see page 33)
- [Clients](#) (see page 34)
- [Products Included with CA Clarity PPM](#) (see page 36)
- [Change History](#) (see page 36)
- [FIPS Operating Mode Restrictions](#) (see page 37)
- [IPv6 Network Compatibility Restrictions](#) (see page 38)
- [CA Business Intelligence r3.2 - \(SAP BusinessObjects Enterprise XI 3.1 Service Pack 3\)](#)
- [Supported Configurations](#) (see page 41)

About Compatibilities

This appendix contains operating environment information for this release, which is also available from the Compatibilities link on support.ca.com.

Many of the products listed in this appendix are not shipped with CA Clarity PPM and the customer must acquire it directly. The software included with CA Clarity PPM is listed in the section, "Products included with CA Clarity PPM." Refer to your licensing agreement for more information.

CA Clarity PPM Servers

The following table shows supported platforms for servers running CA Clarity PPM server software (application and background servers).

	Oracle Solaris	Microsoft Windows	Hewlett-Packard HP-UX	Linux	IBM AIX
Operating System¹⁾		<ul style="list-style-type: none"> ■ Windows 2008 Server (R2) 64-bit Standard Edition or Enterprise Edition 		<ul style="list-style-type: none"> ■ Red Hat Enterprise Linux 5 64-bit for x86 chipsets: any maintenance release ■ Red Hat Enterprise Linux 6 64-bit for x86 chipsets: any maintenance release ■ SUSE Enterprise Linux 10 64-bit for x86 chipsets: any maintenance release ^{1b)} ■ SUSE Linux Enterprise Server 11 64-bit for x86 chipsets; any maintenance release ^{1b)} 	<ul style="list-style-type: none"> ■ AIX 5.3: any maintenance release ■ AIX 6.1: any maintenance release
Upgrading Customers (Existing Installations Only)	Solaris 10 SPARC64 64-bit: any maintenance release ^{1a)}	Windows 2003 Server 64-bit Standard Edition or Enterprise Edition up to SP2	HP-UX 11iv3 IA64: any maintenance release		
Virtualization	See the CA Support Statement for Virtualization. To find this document, log in to CA Support Online and navigate to the CA Clarity Product page.				
Database²⁾	Oracle 10.2 Standard and Enterprise Edition: version 10.2.0.5 or higher patch level ^{2a)} Oracle 11.2 Standard and Enterprise Edition: version 11.2.0.2 or higher patch level ^{2a)} Microsoft SQL Server 2008 Enterprise Edition: Any Service Pack ^{2b)} Microsoft SQL Server 2008 R2 Enterprise Edition: Any Service Pack ^{2b)}				

	Oracle Solaris	Microsoft Windows	Hewlett-Packard HP-UX	Linux	IBM AIX
Database Interface	CA Clarity PPM DataDirect Type 5 (v4.2) Drivers for Oracle and SQL Server (included in CA Clarity PPM distribution).				
Java Runtime	■ Sun J2SDK 1.6.0: version 1.6.0_20 or higher patch level (64-bit)	■ Sun J2SDK 1.6.0: version 1.6.0_20 or higher patch level (64-bit)	■ HP JDK 6: 6.0.05 or higher patch level (64-bit)	■ Sun J2SDK 1.6.0: version 1.6.0_20 or higher patch level (64-bit)	■ IBM Java 6 64-bit: SR6 or higher patch level 64-bit)
Application Server	<ul style="list-style-type: none"> ■ Apache Tomcat 6.0.26 or higher patch level (64-bit) ■ Oracle WebLogic 10.3: Any service pack (64-bit) ■ IBM WebSphere 7.0.0.7 (64-bit) 				
Report Server	CA Business Intelligence r3.2. See CA Business Intelligence r3.2 for more information.				
Mail Server	Any SMTP/IMAPI/POP3 mail server can be used. CA Clarity PPM does not explicitly support any one vendor.				

Notes:

- ¹⁾CA Clarity PPM is supported on any localized version of the supported operating systems.
 - ^{a)} The Oracle UltraSPARC T2 and T3 processors are not supported. Solaris on x86 is also not supported.
 - ^{b)} CA Clarity PPM on SUSE Linux connecting to a Microsoft SQL Server database is not currently supported.
- ²⁾Databases can be run on any vendor-supported operating system.
 - ^{a)} Oracle Real Application Cluster (RAC) is supported.
 - ^{b)} SQL Server Named Instances is supported. SQL Server Clustering is supported with manual intervention after a database failure to restart failed background processes.

Integrated Servers

The following table shows supported software for servers integrating with CA Clarity PPM.

Single Sign On Server	CA SiteMinder 12.0 SP3
LDAP Server	Supports any LDAP v3 compliant directory server (such as CA Directory, Microsoft Active Directory, Novell eDirectory, Oracle Directory Server, and so on).

SharePoint Server	SharePoint Server 2010 (64-bit), Enterprise Edition
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Clients

The following table shows supported software for client computers accessing CA Clarity PPM.

	Microsoft Windows	Apple Mac OS	Desktop Linux
Operating System	<ul style="list-style-type: none">■ Microsoft Windows XP Professional: Service Pack 2 or higher■ Microsoft Windows Vista, all editions■ Windows 7, all editions, 32-bit and 64-bit	<ul style="list-style-type: none">■ Mac OS X: Release 10.4 or higher patch level	<ul style="list-style-type: none">■ Any vendor or version with support for browsers listed under Web Browser section.
Web Browser	<ul style="list-style-type: none">■ Internet Explorer 8.0 and any v8 patch release■ Internet Explorer 9.0 and any v9 patch release■ Firefox 3.5■ Firefox 8.0	<ul style="list-style-type: none">■ Safari: Version 5.1.1 and higher■ Firefox 3.5■ Firefox 8.0	<ul style="list-style-type: none">■ Firefox 3.5■ Firefox 8.0

	Microsoft Windows	Apple Mac OS	Desktop Linux
Client Applications⁵⁾	<ul style="list-style-type: none"> ■ Microsoft Excel 2007-2010 32-bit, all editions or Microsoft Excel 2003 with 2007 compatibility pack ■ Microsoft PowerPoint 2007-2010 32-bit, all editions ■ Microsoft Project 2007-2010 32-bit, all editions ■ Java 6 Runtime Environment (required for Open Workbench, CA Clarity PPM Microsoft Project interface, and XOG Client): 1.6.0_15 or higher patch level ■ Adobe Flash Player (for viewing Xcelsius dashboards). Version 10 or higher. ■ Acrobat Reader 7.0 or higher (for reading CA Clarity PPM installation guides, technical manuals, user guides, and offline reports) ■ Crystal Reports 2008 Designer (required only for custom report development): SP3 or higher level 	<ul style="list-style-type: none"> ■ Microsoft Office Excel 2011 ■ Adobe Flash Player (for viewing Xcelsius dashboards). Version 10 or higher. ■ Mac OS Preview PDF viewer (for reading CA Clarity PPM installation guides, technical manuals and user guides) ■ <i>No Microsoft Project support</i> ■ <i>No Open Workbench support</i> ■ <i>No Crystal Report Designer support</i> 	<ul style="list-style-type: none"> ■ Acrobat Reader 7.0 or higher (for reading CA Clarity PPM installation guides, technical manuals, user guides, and offline reports) ■ Adobe Flash Player (for viewing Xcelsius dashboards). Version 10 or higher. ■ <i>No Excel Export support</i> ■ <i>No Microsoft Project support</i> ■ <i>No Open Workbench support</i> ■ <i>No Crystal Report Designer support</i>
Third-party SOAP Integration Toolkits	<ul style="list-style-type: none"> ■ Microsoft Visual Studio 2005 (.NET Framework 2.0) ■ Apache AXIS 1.3 	<ul style="list-style-type: none"> ■ Apache AXIS 1.3 	<ul style="list-style-type: none"> ■ Apache AXIS 1.3

Notes:

- ⁴⁾ Adobe no longer supports the SVG viewer. Results could vary.
- ⁵⁾ Using multiple versions of third-party software concurrently are not supported as it can cause out-of-sync and compatibility issues. CA Technologies supports only versions of third-party software that the vendor supports.

Products Included with CA Clarity PPM

The following table includes third-party software licensed and shipped with CA Clarity PPM. All of the following software is included on the CA Clarity PPM Installation DVD.

Component	Notes
Java Runtime	The JDK installers for all supported operating systems.
Application Server	Apache Tomcat for all supported operating systems.
Report Server	CA Business Intelligence r3.2
Client Applications	Xcelsius Designer 2008 SP3

Notes:

- Oracle WebLogic and IBM WebSphere are not included with CA Clarity PPM. Customers wishing to use either of these servers over Tomcat must acquire their licenses independent of CA Clarity PPM.
- Crystal Reports Designer is required only for custom report development and is not included with CA Clarity PPM.

Change History

Changes in 13.0

Component	Description
Server Operating System	<ul style="list-style-type: none">■ CA provides support only for upgrading customers with pre-existing installations on Solaris and HP-UX.■ Dropped 32-bit operating systems.■ Added support for SUSE Enterprise Linux 11■ Added support for RHEL 6.0
Server DB	<ul style="list-style-type: none">■ Dropped support for Microsoft SQL Server 2005.■ Added Microsoft SQL Server 2008 R2.

Component	Description
Server Java Runtime	<ul style="list-style-type: none"> ■ Dropped 32-bit support.
Application Server	<ul style="list-style-type: none"> ■ Dropped 32-bit support.
Report Server	<ul style="list-style-type: none"> ■ Dropped support for Actuate. ■ Dropped support for CA Business Intelligence r3. ■ Added support for CA Business Intelligence r3.2.
Client Browser	<ul style="list-style-type: none"> ■ Dropped support for IE6 and IE7. ■ Added support for Firefox 8.0. ■ Added support for IE 9.0. ■ Added support for Safari 5.1.1.
Client Applications	<ul style="list-style-type: none"> ■ Dropped support for Microsoft Project 2000, 2002 and 2003. ■ Defined support for Crystal Reports Designer 2008 as SP3 or higher (instead of any service pack).
SharePoint Server	<ul style="list-style-type: none"> ■ Dropped support for SharePoint Server 2007. ■ Added SharePoint Server 2010.

FIPS Operating Mode Restrictions

Not all CA Clarity PPM platforms support RSA BSAFE Crypto-J for FIPS 140-2 certification. The following table displays the compatible platforms and operating systems documented by RSA. While other platforms are likely to function correctly, CA cannot verify support for Crypto-J on any other than those platforms listed here.

Platform	Operating System	Number of Bits	Release
Microsoft Windows	2008 Server	64	Oracle JDK 1.6
Red Hat Linux	Advanced Server 6.0	64	Oracle JDK 1.6
IBM AIX	AIX 6.1	64	IBM Java 6 SR6 or higher (64-bit)

Notes:

- The file 'java.security' under '<JAVA_HOME>/jre/lib/security' lists all the security providers along with their preference order. CA Clarity PPM automatically places the Crypto-J provider above the SunJCE provider's location in the providers list. To use the Crypto-J provider with CA Clarity PPM, you must explicitly set the security provider entry in the first index position:
security.provider.1=com.sun.crypto.provider.SunJCE. The index numbers for the other positions must be adjusted accordingly. Verify that the Sun SunJCE security provider is the first one.
- If you are using the IBM FIPS provider on AIX, you do not need to make the changes described in the previous bullet. AIX uses the IBM FIPS provider for FIPS mode.

IPv6 Network Compatibility Restrictions

CA Clarity PPM is certified to operate in an IPv6 networking environment with restrictions. Other configurations of CA Clarity PPM using IPv6 are likely to work but have not been certified. For mixed IPv6/IPv4 environments, it is assumed that the server instance uses two network interface cards, one configured for IPv6 and the other for IPv4.

Clarity Installations on a Microsoft Windows Configuration

Config- uration	App Server	OS for App Server	Database	OS for Database	Status
1	Apache Tomcat 6.0.26 (64-bit)	Windows 2008 R2	MSSQL 2008 R2	Windows 2008 R2	Certified in pure IPv6 and mixed mode.
2	Apache Tomcat 6.0.26 (64-bit)	Windows 2008 R2	Oracle Enterprise Edition 11.2.0.2	Windows 2008 R2	Certified in pure IPv6 and mixed mode.
3	IBM Websphere 7.0.0.7 (64 bit)	Windows 2008 R2	Oracle Enterprise Edition 11.2.0.2	Windows 2008 R2	Certified in mixed mode.
4	Oracle WebLogic 10.3 (64-bit)	Windows 2008 R2	Oracle Enterprise Edition 11.2.0.2	Windows 2008 R2	Certified in pure IPv6 and mixed mode.

Mail Server on a Microsoft Windows Configuration

Configuration	App Server	OS for App Server	Database	OS for Database	Mail Server	Status
5	Apache Tomcat 6.0.26 (64-bit)	Windows 2008 R2	Oracle Enterprise Edition 11.2.0.2	Windows 2008 R2	MIRAK ⁵⁾ 10.3.1	Certified in pure IPv6 and mixed mode.

Business Objects Testing CABI 3.2 on a Microsoft Windows Configuration

Configuration	App Server	OS for App Server	Database	OS for Database	BO	Status
6	Apache Tomcat 6.0.26 (64-bit)	Windows 2008 R2	MSSQL 2008 R2	Windows 2008 R2	CABI 3.2	Certified in pure IPv6 and mixed mode.
7	Apache Tomcat 6.0.26 (64-bit)	Windows 2008 R2	Oracle Enterprise Edition 11.2.0.2	Windows 2008 R2	CABI 3.2	Certified in pure IPv6 and mixed mode.

Upgrade from v12.1.1 to v13 on a Microsoft Windows Configuration

Configuration	App Server	OS for App Server	Database	OS for Database	Status
8	Apache Tomcat 6.0.26 (64-bit)	Windows 2008 R2	MSSQL 2008 R2	Windows 2008 R2	Certified in mixed mode.
9	Apache Tomcat 6.0.26 (64-bit)	Windows 2008 R2	Oracle Enterprise Edition 11.2.0.2	Windows 2008 R2	Certified in mixed mode.

Installation on a Hybrid CA Clarity PPM Configuration with a different OS for APP and DB

Config- uration	App Server	OS for App Server	Database	OS for Database	Status
10	Apache Tomcat 6.0.26 (64-bit)	Windows 2008 R2	Oracle Enterprise Edition 11.2.0.2	RH6	Certified in pure IPv6 and mixed mode.
11	Oracle WebLogic 10.3 (64-bit)	Windows 2008 R2	Oracle Enterprise Edition 11.2.0.2	RH6	Certified in pure IPv6 and mixed mode.

Mail Server on a Hybrid CA Clarity PPM Configuration with a different OS for APP and DB

Config- uration	App Server	OS for App Server	Database	OS for Database	Mail Server	Status
12	Apache Tomcat 6.0.26 (64-bit)	Windows 2008 R2	Oracle Enterprise Edition 11.2.0.2	RH6	MIRAK ⁵⁾ 10.3.1	Certified in mixed mode.

Business Objects Testing CABI 3.2 on a Hybrid CA Clarity PPM Configuration with a different OS for APP and DB

Config- uration	App Server	OS for App Server	Database	OS for Database	BO	Status
13	Apache Tomcat 6.0.26 (64-bit)	Windows 2008 R2	Oracle Enterprise Edition 11.2.0.2	RH6	CABI 3.2	Certified in mixed mode.

Upgrade from v12.1.1 to v13 on a Hybrid CA Clarity PPM Configuration with a different OS for APP and DB

Config- uration	App Server	OS for App Server	Database	OS for Database	Status
14	Apache Tomcat 6.0.26 (64-bit)	Windows 2008 R2	Oracle Enterprise Edition 11.2.0.2	RH6	Certified in mixed mode.

Note:

⁵⁾ MIRAK is an open source mail server used for testing purposes.

CA Business Intelligence r3.2 - (SAP BusinessObjects Enterprise XI 3.1 Service Pack 3) Supported Configurations

The following Business Objects configurations are supported for CA Clarity PPM. Additional information such as minimum CA Business Intelligence (CABI) r3.2 hardware requirements can be found in the CABI documentation. For information about virtualization support, refer the following SAP document: *Business Objects Support Statement – VMWare ESX Server*.

The application servers listed in the following table indicate the minimum releases tested for CABI r3.2 in integration with CA Clarity PPM. Subsequent releases (indicated by the last number in the name) are supported, but not necessarily tested in integration with CA Clarity PPM. The same applies to the application server JDKs.

Note: If there are network editions of any application servers listed in the following table, those network editions are not supported. Unless otherwise specified, only 32-bit versions of the application servers (with their underlying JDK) can be used.

Running CABI r3.2 has not been tested on a CA Clarity PPM system using a UNIX or Linux operating system and configured with SQL Server. In such cases, CA recommends running CABI r3.2 on a separate Windows server.

Operating System	Server Version	Application Server / JDK	CMS & Audit Database Provider / Data Connector
Microsoft Windows	<ul style="list-style-type: none"> ■ Windows Server 2003 SP2 Enterprise Edition (32-bit and 64-bit) ■ Windows Server 2003 R2 Enterprise Edition (32-bit and 64-bit) ■ Windows Server 2008 SP2 Standard Edition (32-bit and 64-bit) ■ Windows Server 2008 SP2 Enterprise Edition (32-bit and 64-bit) <p>Note: Business Objects supports and recommends installation of all Microsoft critical patches for the operating systems listed.</p> <p>If utilizing Query as a WebService (QaaWs), .NET Framework 2.0 is required.</p>	<ul style="list-style-type: none"> ■ Tomcat 5.5/JDK 1.5.0_xx (OEM provided) <ul style="list-style-type: none"> ■ MS SQL Server 2008/MDAC 2.8 & SNAC (32-bit ODBC required) ■ Oracle 10.2/Oracle Net Client 10.2 (32-bit Oracle libraries required. Typically included in 64-bit client installer) ■ Oracle 11.1/Oracle Net Client 11.1 (32-bit Oracle libraries required. Typically included in 64-bit client installer) 	
Linux	<ul style="list-style-type: none"> ■ Red Hat Enterprise Server 5 (64-bit)⁶⁾ ■ SUSE Enterprise Linux 10 (64-bit) 	<ul style="list-style-type: none"> ■ Tomcat 5.5/JDK 1.5.0_xx (OEM provided) <ul style="list-style-type: none"> ■ Oracle 10.2/Oracle Net client 10.2 (32-bit Oracle libraries required. Typically included in 64-bit client installer.) ■ Oracle 11.1/Oracle Net Client 11.1 (32-bit Oracle libraries required. Typically included in 64-bit client installer.) 	
Solaris	<ul style="list-style-type: none"> ■ Solaris 10 (64-bit SPARC)⁷⁾ 	<ul style="list-style-type: none"> ■ Tomcat 5.5/JDK 1.5.0_xx (OEM provided) <ul style="list-style-type: none"> ■ Oracle 10.2/Oracle Net Client 10.2 (32-bit Oracle libraries required. Typically included in 64-bit client installer.) ■ Oracle 11.1/Oracle Net client 11.1 (32-bit Oracle libraries required. Typically included in 64-bit client installer.) 	

Operating System	Server Version	Application Server / JDK	CMS & Audit Database Provider / Data Connector
AIX	■ AIX 6.1 (64-bit) ⁸⁾	■ Tomcat 5.5/JDK 1.5.0_xx (OEM provided)	<ul style="list-style-type: none"> ■ Oracle 10.2/Oracle Net Client 10.2 (32-bit Oracle libraries required. Typically included in 64-bit client installer.) ■ Oracle 11.1/Oracle Net client 11.1 (32-bit Oracle libraries required. Typically included in 64-bit client installer.)
HP-UX	Not supported.		

⁶⁾Minimum patch requirements for Red Hat Enterprise Server 5: RHBA-2007:0619-3.

⁷⁾Minimum patch requirements for Solaris 10: SUNWgzip; SUNWzlib; SUNWscpu; SUNWbash; SUNWbcp, SUNWxcu4 XCU4 Utilities; SUNWxwfnt; SUNWxwplt; SUNWlibC; SUNWeu8os - American English/UTF-8 L10N For OS Environment User Files; SUNWeuluf - UTF-8 L10N For Language Environment User Files; SUNWuiu8 - Iconv modules for UTF-8 Locale; SUNWulcf - UTF-8 Locale Environment Common Files; SUNWmfrun; SUNWxwice.

⁸⁾Minimum patch requirements for AIX 6.1: Technology Level 2 SP1; IBM C++ Runtime Environment Components for AIX => xlc.aix61.rte:10.1.0.0.

Appendix B: Third-Party Acknowledgements

CA Clarity PPM has dependencies on third-party software products. Before using CA Clarity PPM, you must accept all license agreements.

This section provides acknowledgments for the third-party software used with CA Clarity PPM.

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Jetty Server (<http://jetty.mortbay.org/project/modules/jetty>)

org.mortbay.jetty:jetty:jar:6.1.15

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Jetty Utilities (<http://jetty.mortbay.org/project/jetty-util>)

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Unnamed - org.slf4j:slf4j-api:jar:1.3.1 (<http://www.slf4j.org/slf4j-api>)
org.slf4j:slf4j-api:jar:1.3.1:runtime

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Unnamed - org.slf4j:slf4j-jdk14:jar:1.3.1 (<http://www.slf4j.org/slf4j-jdk14>)
org.slf4j:slf4j-jdk14:jar:1.3.1:runtime

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Rhino (<http://www.mozilla.org/rhino/>) rhino:js:jar:1.7R1

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WSDL4J (<http://sf.net/projects/wsdl4j>) wsdl4j:wsdl4j:jar:1.6.2

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HttpUnit 1.6.2

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Jakarta Regexp 1.3

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* hash.c: chained hash tables

* Reference: Your favorite introductory book on algorithms

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Log4j 1.2.8

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Lucene 1.4.3

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Last revised by Reagle \$Date: 2005-07-19 12:33:09 -0400 (Tue, 19 Jul 2005) \$

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## XMLSchema 1.1

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