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Clarity v12 Upgrade

r7.5.3 → r8.1 → v12

Differences & Considerations



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Agenda

➤ Overview

- Goals and Objectives to Upgrade
- Tools

➤ Differences

- Architecture Changes – 7.5.3 to v12.1
- Clarity 8 Features & Enhancements
- Clarity 12 Features & Enhancements

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- Upgrade to 8.1 Considerations
- Upgrade to v12 Considerations

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Overview

- **Goals and Objectives to Upgrade**
 - Clarity PPM r7.5.3 is soon to be retired
 - New features with Clarity 8
 - New features with Clarity 12
 - Improve performance of Resource Management Features
 - Better functional architecture
 - Database clustering capabilities
 - Thousands of bug fixes, many minor and major enhancements
 - New product architecture stack additions
 - Leverage new reporting capabilities

➤ Tools

- Read the manuals to familiarize yourself with v12
 - Change Impact and Upgrade Guide
 - Release Notes
 - Installation and Upgrade Guide
 - Technical Reference Manual
 - Product Architecture Stack
 - Digital Celerity Training
 - Digital Celerity Test Case Library
- CA Clarity PPM v12 Upgrade Page on CA Support Online
 - Links are provided to product guides, FAQs, webcasts, service offerings, customer forums, and other useful information.

Overview continued

➤ **Tools** continued

- Controlled changes, faster increments, simplified packaging and delivery, as of 8.1 SP1
 - Service Pack: more frequent general fixes and enhancements delivery between major releases. Beginning with Clarity v8.1 new installs can be done directly without upgrading from base version. All program files are included for installation.
 - Hot Fix: Only changed program files are included.

Differences

- **Architecture Changes – 7.5.3 to v12.1**
 - Significant functional data model change
 - altered and migrated the investments data model
 - replacing several tables with views for backwards compatibility
 - Stand-alone report viewer web server
 - Financial Data Model Changes
 - FOS Replaced and related changes
 - Better functional architecture
 - Product architecture stack additions
 - 64-bit Windows and Linux
 - Windows 2008
 - Oracle 11g

Differences

Architecture Changes – 7.5.3 to v12.1

Changes in 12.1

Component	Description
Server Operating System	<ul style="list-style-type: none">▪ Dropped support for Solaris 9▪ Dropped support for Solaris 10 SPARC 32-bit▪ Added support for HP-UX 11iv3 IA64▪ Dropped support for Red Hat Enterprise Linux 4▪ Dropped support for SUSE Enterprise Linux 9▪ Added support for IBM AIX 6.1
Server DB	<ul style="list-style-type: none">▪ Dropped support for Oracle 9.2▪ Added support for Oracle 11.2▪ Added support for MS SQL Server 2008

Differences

Architecture Changes – 7.5.3 to v12.1

Server Java Runtime	<ul style="list-style-type: none">▪ Added support for Java 6▪ Dropped support for Java 5
Application Server	<ul style="list-style-type: none">▪ Added support for Apache Tomcat 6▪ Dropped support for Apache Tomcat 5▪ Added support for BEA WebLogic 10.4▪ Dropped support for BEA WebLogic 9▪ Added support for IBM WebSphere 7.0.0.7▪ Dropped support for IBM WebSphere 6
Report Server	<ul style="list-style-type: none">▪ Added support for CA Business Intelligence r3 - (SAP BusinessObjects Enterprise XI 3.1)▪ Dropped support for CA BI 2.0
LDAP	<ul style="list-style-type: none">▪ Added support for any LDAP v3 compliant directory server

Differences

Architecture Changes – 7.5.3 to v12.1

Client OS	<ul style="list-style-type: none">▪ Added support for MS Windows 7 (all editions), 32-bit and 64-bit▪ Dropped support for Mac OS 10.3 (10.4 or higher patch level required)
Client browser	<ul style="list-style-type: none">▪ Added support for MS IE 8.0▪ Added support for Firefox 3.5▪ Added support for Safari 4.0
Client applications	<ul style="list-style-type: none">▪ Added support for Java 6 Runtime Environment
Products included with Clarity	<ul style="list-style-type: none">▪ Xelsius Designer 2008 (for creating dashboards)

Differences

➤ Clarity 8 Features & Enhancements

➤ Non-Project Investment Object (NPIO)

- Ideas have been added as an NPIO
- 'Other Investments' is renamed to 'Other Work'
- NPIOs can be Staffed in the same manner as Projects
- NPIO time entry will follow the same rules that are followed for entering Actuals for Tasks on Projects
- Financial Planning can now be used with NPIOs to capture a Cost Plan (Forecast) and Budgeted spend on an Investment
- Financial Chargebacks can now be used on an NPIO to allow for the chargeback of time and money to other Departments in the organization
- All NPIOs have the ability to Baseline and multiple baselines are supported
- All NPIOs now have a Hierarchy tab.

Differences

➤ Clarity 8 Features & Enhancements

➤ Timesheets

- Timesheets have been modified to include four sections.
 - Tasks
 - Other Time
 - Incidents
 - Indirect Rows

➤ Resource Management

- Capacity Planning functionality rewritten.
 - Resource Planning Portlets have been enhanced.
 - Total Demand looks across all Investment Types.
 - NPIO staffing can be viewed as part of Capacity Planning.
- Resource Requisitions functionality enhanced.
 - Supports the ability to staff a project with multiple instances of the same roles.

Differences

➤ Clarity 8 Features & Enhancements

➤ Resource Management continued

- Scenarios Significant Improved
- System Options
 - Allow Override of Requisition Approval Flag.
 - Allow Mixed Bookings.
- You can now staff a non-project investment object including an Idea.
- Capability to allow Resources, belonging to an OBS Unit, to be allocated (added) en masse to an Investment Object.

➤ Portfolio Management

- Scenarios Significant Improved Portfolio Content can now include all Investment objects.
- Roles can be used to help define the parameters of a Portfolio.
- New fields have been added to the Portfolio properties.
- Portfolio planning at the Department level.

Differences

➤ Clarity 8 Features & Enhancements

➤ Business Process management improvement

- Multiple Objects can be accessed from one process.
 - Conditions and Action Items can use information from all objects involved in the process.
 - Links can be configured between Objects via Lookups and the Process Engine will recognize the Links.
 - Setup Pre/Post Conditions using information from all of the Objects in the Process.
- A Step in a Process can now contain more than one Action.
- New Action Type called Sub-process and can be invoked within an Action and can run 3 different ways.
 - Synchronous
 - Asynchronous
 - Independent

Differences

➤ Clarity 8 Features & Enhancements

➤ Business Process Management improvement

- Escalations can now be configured at both the Step-level and Process-level.
- Process creator is able to validate incrementally or validate just a sub-set of a process.
- The new 'Validate Process Definitions' Job will check for primary Processes which have an inactive Subprocess and will mark them for revalidation.
- Event context for Start Options will now check the previous and new values of attributes.
- Process Flow Diagrams allow drill-down from the diagram to a specific Step, Group, Action or Subprocess.

Differences

➤ Clarity 8 Features & Enhancements

➤ Audit Trail Improvements

- Ability to track Create/Delete actions.
- Master/subobject audit trails viewable from the same page.
- Global Audit Trail View to see audit trail records across all objects.
- Audit Trail Purge Job can be configured to delete audit trail records that are more than a specified number of days old.

➤ Clarity Studio

- Custom Objects and Custom Attributes can now be deleted allowing for a “cleaner” system.
- A new type of portlet named “Filter” has been created and will filter the content across all portlets on that page or can be configured to filter across multiple pages.

Differences

➤ Clarity 8 Features & Enhancements

➤ Clarity Studio continued

- Ability to configure any String Attribute with the auto-numbering feature.
- New and Delete configurable actions can be configured on the list view or grid portlet.
- Two new Types of Attributes:
 - Calculated
 - Time Varying
- Ability to filter the list of values within a dynamic query lookup, based on what has been selected in another Attribute on that object.
- Configure what images to display for a specific studio attribute. There are 34 images available out of the box.

Differences

➤ Clarity 8 Features & Enhancements

➤ Clarity Studio continued

- Ability on a custom portlet to allow/not allow the end-user to configure the view.

➤ Financial Management

➤ New Department functionality.

- Department Object has been created and replaces financial departments and locations.
- The Financial Organization Structure (FOS) is replaced by the new Department feature which combines the FOS with the OBS while maintaining the relationship between Entities, Locations and Departments that was used in previous versions.
- Departments and Locations exist as instances of ODF Objects and also exist as Nodes in an OBS.
- Each time a department is created, a portfolio to match is automatically created with full portfolio management functionality.

Differences



➤ Clarity 8 Features & Enhancements

➤ Financial Management

➤ New Department functionality continued

- The Resources tab on the Department shows capacity vs. demand for the department's resources.
- Departments subscribe to Services (Consumers) or can also be Providers of Services. A Department can be both a Consumer and a Provider for the same, or different, Services.
- Entity and Location(s) must be created before the Departments can be created.

➤ New Financial Planning Enhancements.

- Financial Plan can be created for any investment, including a service.
- Forecast  Approval  Budget
 - The "forecast" of the planned spend on the investment is entered in a Cost Plan.
 - Cost Plans can be created manually or imported from the Resource Plan.
 - Approved portion of the Cost Plan becomes the Budget.

Differences

➤ Clarity 8 Features & Enhancements

➤ Financial Management

➤ New Financial Planning Enhancements continued

- Benefit Plans do not go through an approval process and are independent of the forecasts / budgets they are associated with.

➤ New Chargebacks functionality.

- Chargebacks can be used for all Investments.
- Invoices and recovery statements are available.
- Investments can be configured to use either their own chargeback rule or Entity-specific global rules.
- Costs incurred by Service or detailed Investments are charged back via % or pre-determined rates.
- Organizations must decide what criteria will be used to Credit.
- Create Departments as needed to represent Charge To and Credit To groups within the organization.
- Set up the rules for the Standard Charge To based on the organization's needs.

Differences

➤ Clarity 8 Features & Enhancements

➤ Financial Management

- Location and Department OBSs are defined at the Entity Level.
- Fiscal time periods are Entity based.
- Location & Department require an OBS.
- Matrices can contain all Investments.

➤ Service Management

- New Service investment object.
- Services provide insight into the business of IT and what they are working on for the business.
- Services contain Providers and Subscribers.
- Services have time tracking, budgeting and chargeback capabilities.

Differences

➤ Clarity 8 Features & Enhancements

➤ Service management

- Accumulate transactions against all investments to provide total cost of ownership (TCO) for services or individual investments provided by IT.
- Cost Plans can be created to determine how and when the money for the Services will be spent.
- Benefit Plans can be created to determine how much and when the benefit will be realized for the Service.
- Cost Plans are approved to become Budgets.
- Processes can be written against a Service.
- A department can subscribe to one or more services.

Differences

➤ Clarity 8 Features & Enhancements

➤ Business Relationship Manager

- Collection of 64 portlets with drill-downs.

- Business Relationship Manager is comprised of three different dashboards and two portals.

- Valuable reporting tool for:

- Independent Provider/Subscriber Department Managers

- Individual Service Manager

- High Level IT Managers

- Business Relationship Manager

- Projects and WBS improvement

- Modifications to the Investment Data Model

Differences

➤ Clarity 8 Features & Enhancements

➤ Clarity Security

- System now defines when a right has been assigned automatically by the application.
- The "Management – Capacity Planning" right has been removed.
- NPIO's have several new rights such as Modify Baseline, Edit / View Financial (All), as well as others.
- The permissions to Start, Cancel and Delete processes were defined as three separate rights.
- Need rights to the Subobject to view Audit Trails from the master Object.
- Cost Plan, Benefit Plan and Budget Plan rights added.
- Additional Financial, Services and Department access rights.

Differences

➤ Clarity 12 Features & Enhancements

- Business Objects (BO) XI reporting
 - Packaged as CA Business Intelligence Embedding Kit
 - Supporting intersection of BOXI PAS and CA Clarity PPM PAS
- Requirements planning
 - supports the upfront scoping exercise that allows business needs to be captured in the form of requirements, estimated at high-levels, and prioritized and bundled into product or service releases
 - generate a roadmap that can be presented to stakeholders to both evaluate and understand the NPD or IT process
 - Once approved, release plans and requirements can be attached to programs, projects, and tasks for implementation
 - track the progress of requirements from the development cycle to release.

Differences

➤ Clarity 12 Features & Enhancements

➤ Microsoft SharePoint add-in

- provides a place in SharePoint for non-CA Clarity PPM users to view CA Clarity PPM information about projects in which they have an interest for collaborative efforts
- CA Clarity PPM projects can be published as SharePoint project home pages to provide key real-time information from Clarity with drill-down capabilities for users who want to see more information directly in CA Clarity PPM

➤ New Product Development (NPD) add-in

- provides automated processes and workflows to help an organization implement its product management methodology of choice
- supports product portfolio planning and allows the creation of portfolios based on brand and product line

Differences

➤ Clarity 12 Features & Enhancements

➤ New Product Development (NPD) add-in

- handles product management from conception to launch by moving an idea, and later a project, through specific stages/gates
 - Based on Stage Gate best practices
 - Complete automation of gate approval processes
 - Gate scoring based on six factors
 - Assigned gatekeepers for one or more gates
 - Role-Based Dashboards - Over 50 portlets
 - Enhanced Project, Product, and Idea Objects - New attributes and sub-pages designed to track NPD metrics
- designed around specific roles such as marketing manager, project manager or product manager



Differences

➤ Clarity 12 Features & Enhancements

- Open Workbench users can take advantage of updated Help file content in Open Workbench.
- Assistance with Studio Views migration now built-in
 - Use the new Studio Views screen to show which views have changes that you will need to deal with.
 - New Global Views Admin Screen
 - Filtered list of all views across all Studio Objects. Shows whether a view is:
 - Personalized: configured by one or more end users
 - Modified: configured by an administrator
 - Upgraded: changed since the last release
- Earned Value Management add-in
 - Adds new EVM content
 - Not required, can continue using pre-v12 EV features
 - Recommended when supporting work for DOD & other organizations that require by contract to conform to the ANASI standard

Differences

➤ Clarity 12 Features & Enhancements

- Department Names can be 120 Characters in Length
- Personal Dashboarding
 - allows individual users to create and manage Portlets and Dashboards and share Dashboards with other users
 - ability to export the Studio Grid and Graph portlets individually or in a dashboard to Microsoft Excel and PowerPoint
 - Calculating Summary Task Percent Complete in Open Workbench
 - new methods (Manual, Duration, and Effort) are now available for calculating and displaying percent complete for tasks in real-time
 - The previous behavior of using the lowest value of detail tasks has been removed from Open Workbench
 - Earned value calculations will now use the % Complete option
 - The % Expended option for calculating earned value has been removed

Differences

➤ Clarity 12 Features & Enhancements

- Enhancements in Task Percent Complete Calculation
 - three methods are now available (Manual, Duration, and Effort) for calculating percent complete for tasks.
 - there is an overall percent complete value at the project level
- Display Assignee Status for Current User Only in Process Action Item Details
 - This enhancement provides the ability to display only the current user information when assigning a manual action item in a process.
- Software Load-Balanced Configurations Simplified
 - valid jsessionID HTTP Cookie is created upon successful authentication to simplify some load-balancer configurations

Differences

➤ Clarity 12 Features & Enhancements

- Ability to Filter Reports by Category and Status
 - filter reports by their status and category making the filtered reports list shorter and more relevant
- Ability to Set External Authentication Flag in User XOG
 - allows you to set the External Authentication flag for a user via the User XOG API
- Email Notification Sender Address Control
 - set the sender address of email notifications to a constant value
- API for Customizing MSP Interface to Clarity
 - an API that allows users to customize certain aspects of the Microsoft Project interface

Differences

➤ Clarity 12 Features & Enhancements

➤ Web Intelligence Support for Business Objects Integration

- Run and view Web Intelligence (Webi) reports from CA Clarity PPM

➤ Enhancements to Actual Cost of Assignments

➤ introduces the following new fields

- A new, time-varying actual cost field in the CA Clarity PPM database. This field is automatically populated whenever actual work is posted against an assignment.
- A new, Actual Cost field for an assignment on the Task Properties page of a CA Clarity PPM project. This field sums all the time-varying actual costs for an assignment
- The enhancement also introduces a new Actual Cost field in Open Workbench to keep assignment costs synchronized with CA Clarity PPM

Differences

➤ **Clarity 12 Features & Enhancements**

- **Protect Against Deletion of Project Resources and Task Assignments if Actuals Exist**
 - prevents the removal, replacement, or deletion of assignments or removal of staff members from projects if actuals exist on a task assignment
- **New Reports – Business Objects**
 - Invoice Register Report
 - Pre-Billing Report
- **New Licensing Model**
 - includes new license types that are automatically visible on the License Information portlets for all new customers
 - existing customers can set up their systems to display the new license types from the Server Properties page on the CA Clarity PPM System Administration tool



Differences

➤ Clarity 12 Features & Enhancements

➤ New XOG Content Pack Argument to Exclude Parent Objects

- A new argument “exclude_parent” is available when executing the contentPack XOG API. This allows the export of a child object without exporting the parent object.

➤ Xcelsius Dashboarding

- Allows executives/users do what-if analysis, drill down for additional information, change variables, and view metrics, with easy and interactive sliders, filters, and other tools.
- Up to 49 percent of the data included in dashboards can be from a data source other than CA Clarity PPM.
- Four new out-of-the-box dashboards included with this release.
- Interactive portlets allow for more powerful reports that can be viewed inside or outside CA Clarity PPM.



Differences

➤ **Clarity 12 Features & Enhancements**

➤ Simplified Report Creation

➤ Included in this version are four new Business Objects universes for CA Clarity PPM.

- CA PPM Investments
- CA PPM Resource
- CA PPM Investment Financials
- CA PPM Timesheet

➤ Universes provide classes and objects that make the process of report creation simpler because users can create reports without creating SQL.

➤ Support for Business Objects Trusted Authentication

➤ Trusted Authentication feature provided by Business Objects, report requests from CA Clarity PPM do not require password authentication on the Business Objects server .

Differences

➤ Clarity 12 Features & Enhancements

- ETC Alignment with Team Member Allocation for NPIOs
 - Managers of non-project investments can now update the ETC to align with team member allocation for assigned resources using the Estimate from Allocation option on the team staff and detail pages.
 - Enhancement allows managers to update selected resources by refreshing the difference between ETC and allocation caused by changes in resource calendars.
- Mapping CA Clarity PPM Lookup Values to Open Workbench and Microsoft Project
 - A hidden ID is used to map and uniquely identify all lookup values from desktop schedulers.
 - Lookup values are now listed in the order in which they are defined in Studio.

Differences

➤ Clarity 12 Features & Enhancements

➤ Rate Matrix Extraction job

- The *Incremental Update Only* parameter is a check box that is selected by default to improve job performance by selecting investments that meet certain conditions.
- *Incremental Update Only* parameter check box cleared, the job runs normally except does not process inactive investments.

Upgrade Path



- **CA Clarity PPM r7.5 to v12.0 in one step is not an option**
 - r7.5.3 any fix pack to r8.1
 - r8.0 any fix pack to r8.1
 - r8.1 any fix pack or service pack to v12.0
- **CA Clarity PPM r8.1 to v12.0 in one step**
 - r8.1 any fix pack or service pack to v12.0

Considerations

➤ Upgrade to 8.1 Considerations

➤ NPIO

- Migrated ideas have a 20 char limitation for Idea ID in Clarity 8. Greater than 20 characters will be truncated.
- Training or documentation required for the following:
 - Other Investments have been renamed to Other Work.
 - NPIOs have new features.
- There are impacts of the changes on the Total Cost of Ownership calculations.
- New security for NPIO's.

➤ Timesheets

- Time Tracking is now available for NPIOs.
- User Values/Utility Codes 1 & 2 – are they needed?

Considerations

➤ Upgrade to 8.1 Considerations

➤ Resource Management

- User experience for Capacity Planning has changed.
- New terminology and new fields in Capacity Planning.
- Existing scenarios will not be migrated. They will be deleted.
- New security options.
- Existing requisitions will not migrate.
- Additional options for staffing NPIO's and by OBS.

➤ Portfolio Management

- In Clarity 8, when you submit the toolbar filter, the logic identifies the matching investments from the portfolio by applying the filter to the first investment.
- With Clarity 8, all seeded portlets (csk) were changed to refer to planned cost `planned_cst_*` and `planned_ben_*`.

Considerations

➤ Upgrade to 8.1 Considerations

➤ Portfolio Management

- NSQL portlet changes may impact data results.

➤ Business Management Processes

- Changes to security access rights.
- Which new enhancements can streamline existing processes?

➤ Audit Trails

- Create audit trails for insert/deletes?
- New Global Audit Trail link – management and access.
- New Audit Trail Purge Job – days for data retention?

➤ Clarity Studio

- Changes to security access rights.
- Impact of new functionality and attributes.

Considerations

➤ Upgrade to 8.1 Considerations

➤ Financial Management

- Existing implementations of Financials will need to be reworked as part of the migration.
- FOS move to the OBS and Finance Setup.
- Department OBS and Location OBS are required.
- One Entity and One Location are now required.
- Fiscal Periods are now linked to an Entity.
- No longer two separate concepts of Forecast and Budget. The term Forecast is no longer visible in the tool.
- Training and documentation updates to incorporate the changes.
- Financial Planning is available to Departments, Services and all NPIO's.
- Chargeback functionality.

Considerations

➤ Upgrade to 8.1 Considerations

➤ Service Management

- New functionality – consideration for implementation.

➤ Business Relationship Manager

- Should the new content be deployed during an Upgrade?

➤ Security

- All security changes should be reviewed as part of an upgrade.
- What will be the impact if no security updates are made?

Considerations

➤ Upgrade to v12 Considerations

- Integrate with Microsoft SharePoint to extend visibility of critical project information.
- Implement the CA Productivity Accelerator to increase user adoption by providing a tool for developing customer-specific documentation, training and support.
- Implement the Idea NPIO.
- Use the CA Clarity PPM out-of-the-box solution for comprehensive product portfolio management.
- Implement new features of Requirements planning to have traceability throughout the project lifecycle and achieve higher business value as well as reduce project cost and failures.

Considerations

➤ Upgrade to v12 Considerations

- Integrate with Microsoft SharePoint to extend visibility of critical project information.
- XOG client users must upgrade to the CA Clarity PPM version of this client software.
- Versions of the CA Clarity Microsoft Project Interface prior to 12.1 are not compatible
 - A new version of Microsoft Project Interface is available with v12.1.
- Versions of Open Workbench installed prior to 12.1 are not compatible.
 - A new version of Open Workbench is available with v12.1.

Considerations

➤ Upgrade to v12 Considerations

➤ Mapping CA Clarity PPM Lookup Values to Open Workbench and Microsoft Project

- To take full advantage of this enhancement and avoid unexpected changes to lookup values special steps must be taken.

➤ Generic defects resolved through patch 12.0.6_generic_008a not included:

- Chargeback code does not recognize Credit To Rule when location is set to Project location in WIP settings.
- WEBI and recurrent parameters.
- Incorrect number format error when trying to save a value in a multi-valued lookup attribute based on OBS_BROWSE_* lookup.

Considerations

➤ Upgrade to v12 Considerations

- Complete the necessary Installation steps for New License Model Changes.
- Addition of four new Business Objects universes.
- Semi-monthly is no longer a valid value for time slice definitions for either Rollover Interval or Slice Period.
- User Interface Changes on the Select Subprojects Page
 - The names have changed for two Project object Studio views.
 - No action required if users did not personalize these list and filter views.

Considerations

➤ Upgrade to v12 Considerations

➤ User Interface Changes on the Select Subprojects Page

- The names have changed for two Project object Studio views.
- No action required if users did not personalize these list and filter views.

Old name	New name
Subproject - filter	Subproject Selection - Filter
Subproject - list	Subproject Selection - List

Considerations

➤ Upgrade to v12 Considerations

➤ Reports Usage Notes

- The security for reports is now linked to the new stock Business Objects universes for Clarity.
 - Custom reports created before v12.1 that are not converted to the new universes will not be secure when accessed through Infoview.
- Due to an issue with BusinessObjects, previously created instances for upgraded Crystal reports do not show snapshot data. A Crystal report instance that ran before the upgrade can open in CA Clarity PPM, but the report instance shows current data rather than the original report instance data.

Considerations

➤ Upgrade to v12 Considerations

- During the v12.1 upgrade process, previously installed add-ins are also migrated. However, to make the Business Objects reports work properly, you must install the add-ins certified on v12.1. The security for reports is now linked to the new stock Business Objects universes for Clarity.

Conclusion

➤ Why upgrade?

- CA Clarity PPM v12 is the most stable, most feature-rich
- CA Clarity PPM release is free for customers on maintenance
- New platforms, add-Ins, features, and continued stability

➤ What can I expect?

- Streamlined upgrade experience
- Significant effort to move from CA Clarity PPM r7.5.3 to r8.1. BUT less for CA Clarity PPM r8.1 to v12.0
- Assistance with Studio Views migration now built-in

Questions?



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