

# HP Project and Portfolio Management Center

Software Version: 9.20

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## What's New and What's Changed

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Software Release Date: February 2013



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# Contents

<b>1</b>	<b>What's New in PPM Center Version 9.20</b>	<b>7</b>
	What's New in PPM Center Version 9.20	7
	Usability Enhancements	8
	Asynchronous Loading Implemented for Dashboard Page	8
	User Interface Enhancements	8
	HP Demand Management	12
	Request Details Page	12
	Submenu Options for Create Request	13
	HP Program Management	13
	HP Document Management	14
	Remodelled Document Management System	14
	Other Notable Enhancements to Document Management System	15
	HP Solution Integrations	16
	Enhancements to ALM Bundle 9.20	16
	Centralized Integration Landing Page	17
	PPM Center Integration with Quality Center/HP ALM (Using ALM)	18
	View Project Quality (PPM Center Integration with HP ALM)	20
	Agile Integration Solution (PPM Center Integration with HP Agile Manager)	21
	HP Resource Management	21
	Open Interface	21
	LDAP Import Supports Importing Users from Org Units with Non-Unique Names	22
	Upgrade Considerations	22
	Changed and New Document Titles	23
	Related Information	23
<b>2</b>	<b>Upgrade Impact</b>	<b>25</b>
	Overview of Upgrade Considerations	25
	Upgrade Path	25

Oracle Database Compatibility .....	26
Microsoft Windows .....	26
Oracle .....	27
HP-UX .....	27
IBM AIX .....	28
Red Hat Linux .....	28
SUSE Linux .....	29
Extensions and Migrators Compatibility .....	30
HP Deployment Management Extension for Oracle E-Business Suite .....	30
HP Object Migrator and Mercury GL Migrator .....	32
HP Deployment Management Extension for Oracle Technology .....	34
HP Deployment Management Extension for SAP Solutions .....	34
Customized Solutions .....	34
Data Model Changes .....	35
Tables .....	35
Views .....	43
Entity Changes .....	44
Access Grants .....	44
Licenses .....	45
Portlets .....	46
Report Types .....	46
Request Header Type Field Groups .....	47
Request Types .....	47
Special Commands .....	48
Validations .....	48
Workflows .....	49
<b>3 System Requirements and Configuration Updates .....</b>	<b>51</b>
Overview of System Modifications .....	51
server.conf File Changes .....	51
Additions and Modifications .....	51

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# 1 What's New in PPM Center Version 9.20

## What's New in PPM Center Version 9.20

This version of the HP Project and Portfolio Management Center (PPM Center) product features enhancements in the following key areas as compared to version 9.14:

- *Usability Enhancements*
- *HP Demand Management*
- *HP Program Management*
- *HP Document Management*
- *HP Solution Integrations*
- *HP Resource Management*

For more information, also see the relevant product guides.

Many new features and changes introduced in versions 9.11, 9.12, 9.13, and 9.14 are included in version 9.20. However, the minor minor version in which a feature was introduced is not necessarily identified in this document. For more details about new features and changes introduced in versions 9.11 through 9.14, see the *Release Notes* for version 9.14.



Defect fixes included in patches (up until 9.14.0004) on top of version 9.14 are also rolled into version 9.20. You may also want to see the *Release Notes* for version 9.14.0004.

## Usability Enhancements

Usability enhancements have been made throughout the product. Numerous of these modifications may be transparent to you. However, you may notice some significant usability improvements that improve your user experience with the PPM Center product.

Key areas of improvements are described in the following sections.

### Asynchronous Loading Implemented for Dashboard Page

In previous versions, PPM Center displays portlets on the Dashboard page only when loading of all data is complete.

In version 9.20, asynchronous loading is implemented, allowing the display of portlets on the Dashboard page to be loaded more efficiently. As soon as data loading for individual portlets is complete, the individual portlets are displayed. This allows users to check data in these portlets first while the system loads data for other portlets on the Dashboard page.

### User Interface Enhancements

User interface of PPM Center has been improved greatly to bring you a brand new HP Experience style look and feel of the PPM Center product.

In addition, the standard user interface pages have been enhanced in the following ways:

- *“Jump To“ Quick Navigation Panel Added to Request Pages*
- *New Ribbon Style Toolbar on the Top of PPM Center Pages*
- *Error Tips Available for Unfilled Required Fields*
- *Modify Search Button Added to Search Results Pages*
- *A New Statistics Section*



## “Jump To” Quick Navigation Panel Added to Request Pages

Request pages in PPM Center can be very long as they can contain many components. In previous versions, PPM Center users have to scroll up or down the long pages to locate a specific section that they want to work on. It is even more difficult when the request pages are very long.

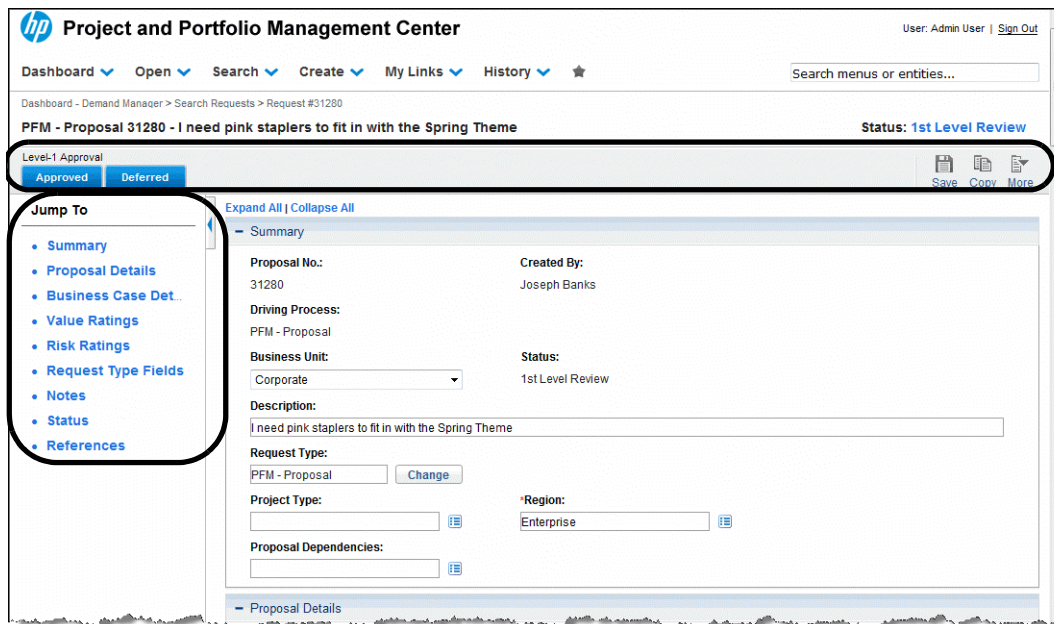
To improve the usability, PPM Center version 9.20 introduced a new **Jump To** navigation panel on the following pages:

- Create New Request page
- Request Details page

To jump to a particular section on a page, click its section name link from the **Jump To** navigation panel. Section names turn red if the sections contain unfilled required fields.

The **Jump To** navigation panel is expanded by default (as illustrated in *Figure 1-1*). To collapse it, click the arrow button in the upper-right corner of the panel.

Figure 1-1. New Jump To navigation panel and Ribbon Toolbar



## New Ribbon Style Toolbar on the Top of PPM Center Pages

In previous versions, action buttons are located in different places on PPM Center pages. Users have to remember the locations of the action buttons when working with these pages.

Version 9.20 introduced a ribbon style toolbar that collects all action buttons on the following pages into one place:

- Create New Request page
- Request Details page
- Edit Time Sheet page
- Financial Summary page
- Financial Data page
- Program Overview page
- Project Overview page
- Task Details page

The new ribbon style toolbar is located at the top of the pages. This saves users effort in finding and remembering positions of related action icons while they work with the long pages.

Depending on the access grant of the current user, the numbers of action buttons displayed vary. If more than three action buttons are available, only the first two of them are displayed. To access more action buttons, click the **More** button for more options. The **Cancel Request** button on the Request Details page and on the Project Details tab of the Project Overview Page always appears at the end of the **More** drop-down list.

The **Available Actions** section in previous versions was merged into the new ribbon style toolbar as well. If a request or project is at a certain step in a workflow, available workflow step actions are displayed in the ribbon toolbar as well, in the form of blue buttons, to the left end of the toolbar (as illustrated in *Figure 1-1*).

## Error Tips Available for Unfilled Required Fields

Error tips are available for unfilled required fields, which appear at the top of the pages when users click **Save** or **Submit** without filling all required fields. The error tips contain label names for all unfilled required fields. Clicking a label name in the error tips leads users to the related field (highlighted in red). This allows users to work with PPM Center more easily and efficiently.

## Modify Search Button Added to Search Results Pages

In previous versions, PPM Center displays search criteria at the bottom of Search Results pages. Search results pages can be very long if they contain many search results. PPM Center users have to scroll down the long pages to change search criteria.

To improve the usability, PPM Center version 9.20 introduced a new **Modify Search** button in the upper-right corner of the following pages:

- Package Search Results page
- Program Issue Search Results page
- Program Risk Search Results page
- Program Search Results page
- Project Issue Search Results page
- Project Risk Search Results page
- Project Scope Change Search Results page
- Project Search Results page
- Report Search Results page
- Request Search Results page
- Staffing Profile Search Results page
- Task Search Results page
- Time Sheet Search Results page

## A New Statistics Section

A new **Statistics** section is available on the following pages:

- Financial Summary page
- Financial Data page
- Task Details page

In the **Statistics** section, users can find general information such as name, status, and description.

## HP Demand Management

### Request Details Page

The Request Details page has been enhanced in the following ways:

- To help users distinguish between similarly named requests, the request title on the Request Details page displays the request number as well as the request description, in the following format:

**<Request Type> <Request Number> - <Request Description>**

For example: **DEM - Application Bug 30182 - Application fails when saving after using new Ops modules**

- The following button names have been changed on the Request Details page:
  - **Make a Copy** is renamed **Copy**.
  - **Delete** is renamed **Delete Request**.
  - **Printable Version** is renamed **Print**.
- In the top section, the **Request Status** field is moved to the upper-right corner of the page. Users can click the status to go to the **Status** section.
- In the **Status** section, the **View Available Actions** link is removed.

## Submenu Options for Create Request

In previous versions, users have to go to the Create New Request page every time when they want to create requests.

To improve the usability, version 9.20 introduced **Create Request** submenu options. Users can create a request with a recently used request type by clicking **Create > Request > <Request Type>**. The **Create Request** submenu lists five most recently used request types, corresponding to request types listed in the **Create Based on Desired Action** section of the Create New Request page. If users have deleted all requests of a request type (including closed requests), the request type is removed from the **Create Request** submenu. The **Create Request** submenu disappears when all request types created most recently are removed.

## HP Program Management

The Program Overview page has been enhanced in the following ways:

- The following new columns are available to all users to add to programs listed on the Program Overview page:
  - **Forecast Benefit**
  - **Actual Benefit**
  - **Approved Budget**
  - **Approved Budget** (subordinate to **Capital Cost** in the list of selectable columns)
  - **Approved Budget** (subordinate to **Operating Cost** in the list of selectable columns)
- When a user clicks **Export to Excel** in the upper-right corner of the Program Overview page, only the displayed columns in the **Content** section are exported to Excel, in the order they are displayed. In other words, the Excel file reflects any changes a user has made to the columns selected for display and to the column layout.

## HP Document Management

PPM Center version 9.20 provides DMS functions out-of-the-box and removes the need of installing separate 3rd-party content and index servers.

### Remodelled Document Management System

The HP Document Management System (DMS) is remodelled to fully leverage your current Oracle databases—either a PPM Center–dedicated database or an external database on your network, providing you the standard out-of-the-box document management capabilities.

PPM Center version 9.20 offers the following DMS solutions:

- **PPM Center Database DMS:** Requiring no additional software or hardware products, this solution stores documents in PPM Center database, but provides documents check-in/out and versioning functionalities out-of-the-box. Full Text Search can also be enabled by creating the required Oracle TEXT indexes and updating a PPM Server parameter from the Administrator Console. From PPM Center users’ perspective, this solution provides all the features of a Documentum-based DMS solution, as well as a new feature to search only the latest versions of documents or to search all versions. No additional deployment or configuration required, and no extra license cost.
- **PPM Center External Database DMS:** Provides the same features as the PPM Center Database DMS solution, except that the documents are saved in an external database schema, instead of in the PPM Center database schema.
- **PPM Center File System:** The File System DMS solution only offers “attachment-like” behavior, and offers none of the features expected from a Document Management System. This is the default DMS solution provided in a fresh install of PPM Center version 9.20.

The Documentum-based document management solutions (either using HP version of EMC Documentum Content Server EE software or integration with stand-alone instance of EMC Documentum Content Server EE software using connector) are not available DMS options in PPM Center version 9.20.

If you are still using a Documentum-based DMS solution, make sure you migrate it to a supported DMS solution before you upgrade your PPM Center to version 9.20.

For details about supported migration paths, migration instructions, and more information about the new DMS solutions, see the *Document Management Guide and Reference*.

## Other Notable Enhancements to Document Management System

Other notable enhancements to DMS include:

- Performing DMS Migration from the Administrator Console

The DMS Migration feature, introduced since PPM Center version 9.13, allows you to migrate easily to a supported target DMS:

- Migration occurs while PPM Server is online, and has almost no impact on PPM users. They can keep on checking in and checking out files, and add new attachments.
  - Once the migration is completed, you are able to test the new solution during a “transition period” while the old solution is still available. If you meet any issue with the new DMS system, you can always cancel the migration and go back to the existing solution, and no document is lost in the process.
  - You can schedule the time at which the migration is running, and adjust different parameters to control what load the migration can have on the PPM system. Note however that migration process has a relatively limited impact on PPM Server performance under standard server load.
- kConfig update: The kConfig tool is enhanced to help you fix broken documents before you migrate a Documentum-based document management solution to a supported target solution.
  - Edit DMS Configuration directly from the Administrator Console
  - Search historical versions: A new option available on the Search <Entities> page when a new database-based DMS is used as the current DMS and the full text search feature is enabled.

## HP Solution Integrations

PPM Center supports integrations with other HP products, using Application Lifecycle Management (ALM) integration bundle, as well as other new integrations that do not depend on the ALM entities:

- *Enhancements to ALM Bundle 9.20*
- *Centralized Integration Landing Page*
- Enhanced integration solutions with HP Quality Center/HP Application Lifecycle Management. See *PPM Center Integration with Quality Center/HP ALM (Using ALM)*.
- Integration with HP ALM for retrieval of project quality information and quality matrix for the View Project Quality integration solution. See *View Project Quality (PPM Center Integration with HP ALM)*.
- Integration with HP Agile Manager for retrieval and display of status and progress of agile development projects managed using HP Agile Manager. See *Agile Integration Solution (PPM Center Integration with HP Agile Manager)*

### Enhancements to ALM Bundle 9.20

PPM Center includes Application Lifecycle Management (ALM) integration bundle, a solution that lowers the cost and risk of application change within your organization and can also accelerate the time to market for your applications. ALM bundle supports integrations with HP Service Manager, HP Universal CMDB, HP Quality Center version 10 and HP Application Lifecycle Management version 11.00 or later, HP Change Control Management, and HP Release Control.

The functionality and entities of ALM bundle 9.20 for PPM Center 9.20 are almost identical to ALM bundle 9.10 for PPM Center 9.10. If ALM bundle 9.10 is installed, there is no need to install the new bundle.

The enhancements to ALM bundle 9.20 include the follows:



- Added the following two request statuses so that users can add them to appropriate workflow steps of the ALM - Request for Change workflow as needed:
  - 3-Test Lab Setup Completed
  - 5-Test Execution Completed

Always customize the ALM - Request for Change workflow template by adding the two request statuses to appropriate workflow steps. It is not a good practice to use this workflow provided in the ALM bundle directly. The workflow is provided as a template to minimize your workflow creation effort.

- Renamed the **Quality Center Defect Information** field group to **QC/ALM Defect Information** and the **Quality Center Info** field group to **QC/ALM Info**

QC refers to HP Quality Center Enterprise Edition version 10.00; ALM refers to the standard HP ALM (Application Lifecycle Management) edition version 11.x, including versions 11.00, 11.20, and 11.50. To accommodate this product name change, these two field groups are renamed and the fields names are renamed as well.

For more information about the ALM bundle, see the *HP Solution Integrations Guide*.

## Centralized Integration Landing Page

PPM Center version 9.20 introduced a centralized landing page for the integration solutions. You can access it by clicking **Open > Administration > Integrations** from the menu bar.

Figure 1-2. Integration Configuration Landing Page

HP Project and Portfolio Management Center

User: Admin User | Sign Out

Dashboard ▾ Open ▾ Search ▾ Create ▾ My Links ▾ History ▾ ☆

Search menus or entities...

Dashboard - Key Status Information > Integration Configurations

**Manage Application Change**

Manage Application Change for QC/ALM is an enterprise solution that enables companies to harness the full potential of PPM Center and QC/ALM software by synchronizing defect and requirement information between the two tools.  
[Download PPM Center-ALM Integration Tool.](#)

View Project Quality

Agile Integration Solution

**Integration Configurations**

Request Type	Status	Server URL	Version	Domain	Project	Entity Type	Actions
ALM - Defect Template with Quali...		http://156.152.160.69:8080/qcbin/	ALM 11.5	DEFAULT	ALM_Demo	Defect	
ALM - RFC Demo		http://w2k3r2sp2:8080/qcbin/	QC 10	DEFAULT	CredT_App	Requirement	

Server Configuration Details:

ALM - Defect Template with Quality Center Integration (OOTB) ▾ + Add Integration Configuration

The integration landing page offers:

- A centralized and consolidated view of all integration configurations
- Consolidated configuration, including documents and tools
- Easy and unified configuration process
- Step by step guidance in configuration
- A navigation pane to switch between different integration solutions

## PPM Center Integration with Quality Center/HP ALM (Using ALM)

### Enhancements to the Solution

Key enhancements to the solution include:

- Allows you to specify the requirement type for requirement synchronization purpose by adding the **QC/ALM Requirement Type** field to the QC/ALM Info field group
- Allows you to control whether the synchronization shall be optional by providing two fields:

- **Synchronize to QC/ALM Requirement** (Yes or No Radio Buttons)
- **QC/ALM Control Field** (drop-down list)
- Easy and unified configurations, including
  - Pre-configured default value mapping list for quick configuration
  - Intuitive and straightforward icon with different statuses for enabling or disabling an integration configuration with a simple click
  - Step by step configuration guidance
- For integration of PPM Center request type and QC/ALM defect, a third option for bi-directional integration is available in the **Integration Options** section on the Configure QC/ALM Integration for Request Type page: **Creating a PPM Center request automatically creates an associated QC/ALM entity and vice versa.**
- Allows you to add new integration configuration easily, and map one ALM request type to multiple entities from different QC/ALM domains or projects.

#### Upgrading PPM Center Integration with Quality Center (Using ALM)

In PPM Center version 9.14, it is possible to upgrade your PPM Center integration with Quality Center version 9.2 or 10 to the integration with HP Application Lifecycle Management (ALM) version 11.00.

In PPM Center version 9.20, you can upgrade your PPM Center integration with Quality Center version 10 to the integration with HP Application Lifecycle Management (ALM) version 11.00 or later. This applies to upgrading from any combination of QC 10 with PPM Center 9.1x/8.0x/7.x to the combination of PPM Center 9.20 and ALM 11.x.

Note that though the Quality Center Defect Information field group and the and the Quality Center Info field group have been renamed to QC/ALM Defect Information field group and the QC/ALM Info field group respectively in PPM Center version 9.20, upgrading the integration configuration does not upgrade the Quality Center Defect Information section or the Quality Center Info section of the existing requests.

For instructions on upgrading the integration configuration, see the *HP Solution Integrations Guide*.

## View Project Quality (PPM Center Integration with HP ALM)

PPM Center version 9.20 introduced a new integration solution between PPM Center and HP ALM — View Project Quality.

This integration solution aims to offer project managers:

- Management of both PPM Center projects and HP ALM releases
- Visibility of quality KPIs from PPM Center projects
- Visibility of ALM Scorecard from PPM Center projects

After PPM Center administrators performed necessary configuration tasks to enable the integration, project managers can create new projects and then, they are able to view quality-related KPIs and other information through the following portlets that are added to the Project Overview page by default:

New Portlet	Description
Requirement Trends	Displays requirement statuses trend in the last 10 days. The requirement status includes requirement coverage.
Open Defect Trends	Displays open defects trend in the last 10 days. The open defects include open defects number and total defects number.
Priority Defects Trends	Displays trend of defects of high severity in the last 10 days. The higher severity defects include defects of severity S1 and S2.
Project Quality Scorecard	Displays ALM release scorecard information. The scorecard portlet is displayed only when the ALM scorecard information is configured in the project request field of the Project Planning and Tracking (PPT) module in ALM.

For detailed information about the View Project Quality integration solution, see the *HP Solution Integrations Guide*.

## Agile Integration Solution (PPM Center Integration with HP Agile Manager)

The integration between PPM Center and HP Agile Manager allows project managers, program managers, portfolio managers, and other project stakeholders to have:

- Visibility into real-time status and progress of agile development projects from within PPM Center, without having to log on to HP Agile Manager for details
- A consolidated view of their tasks and agile development initiatives

The integration allows project managers to map a task under a project to a specific release managed in HP Agile Manager. Each PPM Center task is associated with a single release in HP Agile Manager throughout the task life cycle. This is a one-way one-to-one mapping relationship.

After the mapping relationship is established, the project managers are able to view real-time agile development related charts retrieved from HP Agile Manager. In addition, project managers can also view the overall release hierarchy information of a specific work package from within PPM Center.

For detailed information about Agile Integration Solution, see the *HP Solution Integrations Guide*.

## HP Resource Management

### Open Interface

The new user open interface includes the following enhancements:

- A new interface table RSC\_RESOURCES\_INT is introduced to store the resource attributes.
- Information can be loaded from LDAP into the resource attributes.
- Resource attributes can be loaded from interface table into PPM Center.

## LDAP Import Supports Importing Users from Org Units with Non-Unique Names

By adding new columns to the KRSC\_ORG\_UNITS\_INT and KRSC\_ORG\_UNITS\_MEMBERS\_INT tables, PPM Center now supports importing users from organization units that do not have unique names but are of different hierarchical levels. A **Hierarchy** column or option is added to pages or pop-up windows that are related to Org Units to help differentiate the hierarchical levels of the Org Units you import.

The **Hierarchy** column or option also appear on the following pages:

Page	New Column or Option
Search Resources	<b>Hierarchy</b> column in the popup selector window for the <b>Org Unit</b> field
Search Organization Units	<ul style="list-style-type: none"><li>• <b>Hierarchy</b> as a drop-down list option for the <b>Sort By</b> field</li><li>• <b>Hierarchy</b> column on the Search Results page</li></ul>
Search Resource Pools	<b>Hierarchy</b> column in the popup selector window for the <b>Primary Organization Unit</b> field
Analyze Assignment Load Data Export	
Search Resource Availability	<b>Hierarchy</b> column in the popup selector window for the <b>Organization Unit</b> field

## Upgrade Considerations

When you upgrade from version 9.1x to version 9.20, consider impacts in the following areas:

- **Upgrade process.** Specific information about the impact of the upgrade process on your existing PPM Center instance is provided in [Chapter 2, Upgrade Impact](#), on page 25.

This chapter also addresses changes to the PPM Center data model and entities—these may affect customizations introduced on your PPM Center instance.

- **System administration.** Items of interest to the PPM Center system administrators or database administrator are detailed in [Chapter 3, \*System Requirements and Configuration Updates\*](#), on page 51.

## Changed and New Document Titles

*Table 1-1* lists the title changes made to documentation for PPM Center version 9.20.

Table 1-1. Changes to document titles in PPM Center version 9.20

PPM Center Version 9.10 and Earlier	PPM Center Version 9.20
N/A	RESTful Web Services Guide (added in 9.20)

## Related Information

The following documents provide detailed information about the installation, configuration, and customization of this version:

- *Installation and Administration Guide*
- *Document Management Guide and Reference*
- *Upgrade Guide*
- *System Requirements and Compatibility Matrix*
- *Customizing the Standard Interface*
- *Getting Started*

For additional details, you may also want to consult the documentation for the following PPM Center product areas:

- HP Demand Management
- HP Deployment Management

- HP Financial Management
- HP Portfolio Management
- HP Project Management
- HP Program Management
- HP Resource Management
- HP Time Management
- Application Lifecycle Management
- HP Center Management for Quality Center
- HP Document Management
- Web services
- Operational Reporting



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## 2 Upgrade Impact

### Overview of Upgrade Considerations

This chapter focuses on the impact of the upgrade process as well as the resulting changes to the PPM Center data model and entities. Also included are tables that identify the upgrade path and compatibility of the third-party products used with the PPM Center database, Extensions, and Migrators.

### Upgrade Path

To upgrade to PPM Center version 9.20, you must have PPM Center version 9.10 (with or without service packs) installed. If an earlier version is installed, you must first upgrade to version 9.10, and then upgrade to PPM Center version 9.20. For information about how to upgrade to version 9.10, see the *Upgrade Guide* for version 9.10.

Remember that changes in the supported versions of third-party products, such as the Oracle® database software, may affect your upgrade. To determine—and plan—your environments for the upgrade, see the *Installation and Administration Guide* and *System Requirements and Compatibility Matrix*.

## Oracle Database Compatibility

The following tables (*Table 2-1* through *Table 2-5*) provide an overview of the Oracle database versions supported for the PPM Server in PPM Center versions 9.10 and 9.20. For additional details specific to these versions, see the *System Requirements and Compatibility Matrix* document for each version.

Environments that are *not* supported in version 9.20 of PPM Center are shown in the lightly shaded areas in the following tables. Combinations shown in unshaded areas are supported for version 9.20 of PPM Center and may coincide with earlier supported environments.



All installed Oracle versions must include the most recent patches and follow the guidelines provided in the latest *Critical Patch Update*. This information is available from <https://metalink.oracle.com>.

### Microsoft Windows

Table 2-1. Oracle database and Microsoft Windows platform support for PPM Center versions 9.1x and 9.20

Oracle Version	Windows Server 2003 Standard & Enterprise Editions (both 32-bit and 64-bit)	Windows Server 2003 SP1 Standard & Enterprise Editions (32-bit)	Windows Server 2003 SP2 Standard & Enterprise Editions (both 32-bit and 64-bit)	Windows Server 2003 R2 Standard & Enterprise Editions (both 32-bit and 64-bit)	Windows Server 2003 R2 SP2 Standard & Enterprise Editions (both 32-bit and 64-bit)	Windows Server 2008 Standard, Enterprise & Datacenter Edition (64-bit)	Windows Server 2008 R2 Standard & Enterprise Editions (64-bit)
11.1.0.7 11.1.0.7 RAC	9.10~9.14	9.10~9.14	9.10~9.14	9.10~9.14	9.10~9.14	9.10~9.14	9.10~9.14
11.2.0.1 11.2.0.1 RAC	9.10~9.14	9.10~9.14	9.10~9.14	9.10~9.14	9.10~9.14	9.10~9.14	9.10~9.14
11.2.0.2 11.2.0.2 RAC	9.12~9.14 9.20	9.12~9.14 9.20	9.12~9.14 9.20	9.12~9.14 9.20	9.12~9.14 9.20	9.12~9.14 9.20	8.00.01 9.20
11.2.0.3 11.2.0.3 RAC	9.14 9.20	9.14 9.20	9.14 9.20	9.14 9.20	9.14 9.20	9.14 9.20	9.14 9.20

Table 2-2. Oracle database and Oracle platform support for PPM Center versions 9.1x and 9.20

Oracle Version	Solaris 9 <sup>a</sup>	Solaris 10 <sup>b</sup>	Oracle Enterprise Linux 5	Oracle Enterprise Linux 6
11.1.0.7 11.1.0.7 RAC	9.10~9.14	9.10~9.14	9.14	not supported
11.2.0.1 11.2.0.1 RAC	9.10~9.14	9.10~9.14	9.14	not supported
11.2.0.2 11.2.0.2 RAC	9.12~9.14 9.20	9.12~9.14 9.20	9.14 9.20	9.20
11.2.0.3 11.2.0.3 RAC	9.14 9.20	9.14 9.20	9.14 9.20	9.20

a. PPM Center version 9.1x support includes Solaris 9 Patches 1 through 9.

b. PPM Center version 9.1x support includes Solaris 10 Patches 1 through 8.

## HP-UX

Table 2-3. Oracle database and HP-UX platform support for PPM Center versions 9.1x and 9.20

Oracle Version	HP-UX 11i v2 <sup>a</sup>	HP-UX 11i v3 <sup>a</sup>
11.1.0.7 11.1.0.7 RAC	9.10~9.14	9.10~9.14
11.2.0.1 11.2.0.1 RAC	9.10~9.14	9.10~9.14
11.2.0.2 11.2.0.2 RAC	9.12~9.14 9.20	9.12~9.14 9.20
11.2.0.3 11.2.0.3 RAC	9.14 9.20	9.14 9.20

a. Includes both PA-RISC and Itanium support for version 9.1x, and only Itanium support for version 9.20.

Table 2-4. Oracle database and IBM AIX platform support for PPM Center versions 9.1x and 9.20

Oracle Version	AIX 5L Version 5.3	AIX Version 6.1	AIX Version 7.1
11.1.0.7 11.1.0.7 RAC	9.10~9.14	9.10~9.14	not supported
11.2.0.1 11.2.0.1 RAC	9.10~9.14	9.10~9.14	not supported
11.2.0.2 11.2.0.2 RAC	9.12~9.14	9.12~9.14 9.20	9.20
11.2.0.3 11.2.0.3 RAC	9.12~9.14	9.14 9.20	9.20

Red Hat Linux

Table 2-5. Oracle database and Red Hat Linux platform support for PPM Center versions 9.1x and 9.20

Oracle Version	Red Hat Enterprise Linux AS 4.0 <sup>a,c</sup>	Red Hat Enterprise Linux AS 5.0 <sup>b,c</sup>	Red Hat Enterprise Linux AS 6.0 <sup>c</sup>
11.1.0.7 11.1.0.7 RAC	9.10~9.14	9.10~9.14	not supported
11.2.0.1 11.2.0.1 RAC	9.10~9.14	9.10~9.14	not supported
11.2.0.2 11.2.0.2 RAC	9.12~9.14	9.12~9.14 9.20	9.20
11.2.0.3 11.2.0.3 RAC	9.12~9.14	9.14 9.20	9.20

- a. PPM Center version 9.1x support includes initial AS 4.0 release and Updates 1 through 6.
- b. PPM Center version 9.1x support includes initial AS 5.0 release and Updates 1 through 4.
- c. Both 32- and 64-bit platforms are supported.

Table 2-6. Oracle database and SUSE Linux platform support for PPM Center versions 9.1x and 9.20

Oracle Version	SUSE Linux Enterprise 9 <sup>a c</sup>	SUSE Linux Enterprise 10 <sup>b c</sup>	SUSE Linux Enterprise 11 <sup>c</sup>
11.1.0.7 11.1.0.7 RAC	9.10~9.14	9.10~9.14	9.10~9.14
11.2.0.1 11.2.0.1 RAC	9.10~9.14	9.10~9.14	9.10~9.14
11.2.0.2 11.2.0.2 RAC	9.12~9.14	9.12~9.14 9.20	9.20
11.2.0.3 11.2.0.3 RAC	9.12~9.14	9.12~9.14 9.20	9.20

- a. PPM Center version 9.1x support includes initial Enterprise 9 release and SP1 through SP4.
- b. PPM Center version 9.1x support includes initial Enterprise 10 release and SP1 through SP3.
- c. Both 32- and 64-bit platforms are supported.

## Extensions and Migrators Compatibility

### HP Deployment Management Extension for Oracle E-Business Suite

*Table 2-7* details the versions of Oracle E-Business Suite that are supported by the various versions of the HP Deployment Management Extension for Oracle E-Business Suite and PPM Center.

Versions that are *not* supported on PPM Center version 9.20 are shown in the lightly shaded areas. Combinations shown in unshaded areas are supported for this version of PPM Center.

Table 2-7. Oracle E-Business Suite and HP Deployment Management Extension for Oracle E-Business Suite versions supported on PPM Center versions 9.1x and 9.20 (page 1 of 2)

Oracle E-Business Suite Version	HP Deployment Management Extension for Oracle E-Business Suite Version 9.10
11–11.5.6	9.10, 9.11
11.5.7 Application Object Library: FND.E Applications DBA: AD.F Common Modules: AK.D Financials Suite: Family Pack A	9.10~9.14 9.20
11.5.8 Application Object Library: FND.F Applications DBA: AD.G Common Modules: AK.E Financials Suite: Family Pack C	9.10~9.14 9.20
11.5.9 <sup>a</sup> Application Object Library: FND.G Applications DBA: AD.H Common Modules: AK.F Financials Suite: Family Pack D	9.10~9.14 9.20

Table 2-7. Oracle E-Business Suite and HP Deployment Management Extension for Oracle E-Business Suite versions supported on PPM Center versions 9.1x and 9.20 (page 2 of 2)

Oracle E-Business Suite Version	HP Deployment Management Extension for Oracle E-Business Suite Version 9.10
<p>11.5.10 <sup>a, b</sup></p> <p>Application Object Library: FND.H            Applications DBA:AD.I            Common Modules: AK.G            Financials Suite: Family Pack F</p>	<p>9.10~9.14            9.20</p>
<p>11.5.10.2 (CU2) <sup>b</sup></p> <p>Application Object Library:FND.H            Applications DBA: AD.I.6            Common Modules: AK.G            Financials Suite: Family Pack F</p>	<p>9.10~9.14            9.20</p>
<p>12.0.0–12.1.2</p> <p>Applications Technology: R12.ATG_PF.A–            R12.ATG_PF.B.DELTA.2            Applications DBA: R12.A–R12.AD.B.DELTA.1</p>	<p>9.10~9.14            9.20</p>
<p>12.1.3</p> <p>Applications Technology: R12.ATG_PF.A–            R12.ATG_PF.B.DELTA.3            Applications DBA: R12.A–R12.AD.B.DELTA.3</p>	<p>9.12~9.14            9.20</p>

a. 11.5.8 with the FND.G Mini Pack is functionally equivalent to 11.5.9.

b. 11.5.8-11.5.9 with the FND.H Mini Pack is functionally equivalent to 11.5.10.

## HP Object Migrator and Mercury GL Migrator

*Table 2-8* details the versions of Oracle E-Business Suite that are supported by the various versions of the Migrators and the HP Deployment Management Extension for Oracle E-Business Suite.

Versions that are *not* supported on PPM Center version 9.20 are shown in the lightly shaded areas. Combinations shown in unshaded areas are supported for this version of PPM Center.

Table 2-8. Oracle E-Business Suite and HP Migrator versions supported on HP Deployment Management Extension for Oracle E-Business Suite versions 9.1x and 9.20 (page 1 of 2)

Oracle E-Business Suite Version	Kintana Object*Mi-grator Version 5.1	Mercury Object Migrator Version 6.0	HP Object Migrator Version 7.5	Kintana GL*Migrator Version 2.0	Mercury GL Migrator Version 6.0
11–11.5.1	9.1x	9.1x	9.1x	9.1x	9.1x
11.5.2–11.5.6	9.1x	9.1x	9.1x	not supported	9.1x
11.5.7 Application Object Library: FND.E Applications DBA: AD.F Common Modules: AK.D Financials Suite: Family Pack A	9.10~9.14 9.20	9.10~9.14 9.20	9.10~9.14 9.20	not supported	9.10~9.14 9.20
11.5.8 Application Object Library: FND.F Applications DBA: AD.G Common Modules: AK.E Financials Suite: Family Pack C	9.10~9.14 9.20	9.10~9.14 9.20	9.10~9.14 9.20	not supported	9.10~9.14 9.20
11.5.9 <sup>a</sup> Application Object Library: FND.G Applications DBA: AD.H Common Modules: AK.F Financials Suite: Family Pack D	9.10~9.14 9.20	9.10~9.14 9.20	9.10~9.14 9.20	not supported	9.10~9.14 9.20



Table 2-8. Oracle E-Business Suite and HP Migrator versions supported on HP Deployment Management Extension for Oracle E-Business Suite versions 9.1x and 9.20 (page 2 of 2)

Oracle E-Business Suite Version	Kintana Object*Mi-grator Version 5.1	Mercury Object Migrator Version 6.0	HP Object Migrator Version 7.5	Kintana GL*Migrator Version 2.0	Mercury GL Migrator Version 6.0
11.5.10 with FND.H Mini Pack <sup>a, b, d</sup> Application Object Library: FND.H Applications DBA:AD.I Common Modules: AK.G Financials Suite: Family Pack F	not supported	9.10~9.14 9.20	9.10~9.14 9.20	not supported	9.10~9.14 9.20
11.5.10.2 (CU2) <sup>c, d</sup> Application Object Library:FND.H Applications DBA: AD.I.6 Common Modules: AK.G Financials Suite: Family Pack F	not supported	9.10~9.14 9.20	9.10~9.14 9.20	not supported	9.10~9.14 9.20
12.0.0–12.1.2 Applications Technology: R12.ATG_Pf.A– R12.ATG_Pf.B.DELTA.2 Applications DBA: R12.A–R12.AD.B.1	not supported	not supported	9.10~9.14 <sup>e</sup>	not supported	not supported
12.1.3 Applications Technology: R12.ATG_Pf.A– R12.ATG_Pf.B.DELTA.3 Applications DBA: R12.A–R12.AD.B.3	not supported	not supported	9.12~9.14 <sup>e</sup> 9.20 <sup>e</sup>	not supported	not supported

- a. 11.5.8 with the FND.G Mini Pack is functionally equivalent to 11.5.9.
- b. 11.5.8-11.5.9 with the FND.H Mini Pack is functionally equivalent to 11.5.10 (for HP Object Migrator).  
11.5.8-11.5.9 with the Financials Family Pack F is functionally equivalent to 11.5.10 (for HP GL Migrator).
- c. See the HP Object Migrator Oracle Apps Version 11.5.10.2 Compatibility Patch (#174141) Readme for details.
- d. Support for the Oracle Applications E-Business Suite version 11.5.10 with the 10G database version requires installation of patch 154770. See the HP Object Migrator Version 6.0 Database version 10G Compatibility Patch (#154770) readme for details.
- e. Apply the patch to Object Migrator 7.5 that makes it compatible with R12.1.2.

## HP Deployment Management Extension for Oracle Technology

There are no changes in the support for the HP Deployment Management Extension for Oracle Technology in this version of PPM Center. However, the new version of the Extension must be installed after an upgrade.

## HP Deployment Management Extension for SAP Solutions

There are no changes in the supported SAP modules, archives, and platforms in the HP Deployment Management Extension for SAP Solutions in this version of PPM Center. However, the new version of the Extension must be installed after an upgrade.

## Customized Solutions

As with any upgrade, customized solutions are at risk of not functioning exactly as intended once an upgrade is completed. Carefully review your existing customizations before proceeding with the upgrade. New features and functionality provided in this version may make your customizations obsolete.

# Data Model Changes

The section describes the major changes to the data model in this version, as compared to version 9.10.

## Tables

*Table 2-9* details the changes to tables since PPM Center version 9.10. Some tables have been deleted, some new tables have been introduced, some existing tables have been modified, some tables have been deprecated and are unused in version 9.20, and other tables have been replaced by views.

Table 2-9. Table changes (page 1 of 8)

Table	Impact
FM_FORECAST_ACTUAL_PERIOD_SUM	Modified in 9.10
I18N_KNTA_LOOKUPS	Deleted in 9.10
ITG_BUNDLED_ITEMS	Obsoleted in 8.00.01
ITG_COMPRESSED_ELEMENTS	Obsoleted in 8.00
ITG_SETTINGS_ATTRIBUTES	Modified in 9.10
ITG_SETTINGS_CONT_ATTRS	Modified in 9.10
JMS_MESSAGES	Deleted in 9.10
JMS_ROLES	Deleted in 9.10
JMS_SUBSCRIPTIONS	Deleted in 9.10
JMS_TRANSACTIONS	Deleted in 9.10
JMS_USERS	Deleted in 9.10
KCRT_FG_PFM_ASSET	Modified in 9.10
KCRT_FG_PFM_ASSET_INT	Modified in 9.10
KCRT_FG_PFM_PROJECT	Modified in 9.10
KCRT_FG_PFM_PROPOSAL	Modified in 9.10
KCRT_FG_PFM_PROPOSAL_INT	Modified in 9.10

Table 2-9. Table changes (page 2 of 8)

<b>Table</b>	<b>Impact</b>
KCRT_FG_PROG_REFERENCE	Modified in 9.10
KCRT_FG_PROG_REFERENCE_INT	Modified in 9.10
KCRT_FG_PROG_RISK	Added in 9.10
KCRT_FG_PROG_RISK_INT	Added in 9.10
KCRT_FG_SERVICE	Added in 9.10
KCRT_FG_SERVICE_INT	Added in 9.10
KCRT_FG_UCMDB_INT	Modified in 9.10
KCRT_REQUEST_DETAILS	Modified in 9.10
KCRT_REQUEST_HEADER_TYPES_LOC	Modified in 9.10
KCRT_REQUEST_SUB_TYPES_LOC	Modified in 9.10
KCRT_REQUEST_TYPE_SECURITY	Modified in 9.10
KCRT_REQUEST_TYPES_LOC	Modified in 9.10
KCRT_RT_REQUEST_RESOURCES	Modified in 9.10
KCRT_STATUSES_LOC	Modified in 9.10
KCRT_TABLE_ENTRIES	Modified in 9.10
KCST_BENEFIT_ACCESS	Deprecated in 8.00
KCST_BENEFIT_LINE_CELLS	Deprecated in 8.00
KCST_BENEFIT_LINES	Deprecated in 8.00
KCST_BENEFIT_LINKED_ENTITIES	Deprecated in 8.00
KCST_BENEFIT_PERIOD_SUM_75	Deleted in 8.00
KCST_BENEFIT_TXN_HIST	Deprecated in 8.00
KCST_BENEFITS	Deprecated in 8.00
KCST_BUDGET_ACCESS	Deprecated in 8.00
KCST_BUDGET_LINE_CELLS	Deprecated in 8.00

Table 2-9. Table changes (page 3 of 8)

<b>Table</b>	<b>Impact</b>
KCST_BUDGET_LINES	Deprecated in 8.00
KCST_BUDGET_LINKED_ENTITIES	Deprecated in 8.00
KCST_BUDGET_PERIOD_SUM_75	Deleted in 8.00
KCST_BUDGET_TXN_HIST	Deprecated in 8.00
KCST_BUDGETS	Deprecated in 8.00
KCST_CURRENCY_CELLS_75	Deleted in 8.00
KCST_CURRENCY_LINES_75	Deleted in 8.00
KDEM_DEMAND_FIELDS	Modified in 9.10
KDEM_DEMANDS	Modified in 9.10
KDLV_PACKAGES_INT	Modified in 9.10
KDRV_CALENDAR_EXCEPTIONS	Modified in 9.10
KDRV_CALENDAR_SETUPS	Modified in 9.10
KDRV_ROLLUP_METHODS	Modified in 9.10
KDRV_ROLLUP_SETUPS	Modified in 9.10
KDRV_STATES_NLS	Modified in 9.10
KDRV_WORKING_DAYS	Modified in 9.10
KDSH_DIST_IMPACTED_USERS	Deprecated in 9.10
KDSH_DIST_ORG_UNITS	Deprecated in 9.10
KDSH_DIST_SECURITY_GRPES	Deprecated in 9.10
KDSH_DISTRIBUTION_ERRORS	Deprecated in 9.10
KDSH_DISTRIBUTION_USERS	Deprecated in 9.10
KDSH_DYNAMIC_FILTERS	Deprecated in 9.10
KDSH_MODULE_DIST_PAGES	Deprecated in 9.10
KDSH_MODULE_DIST_PORTLETS	Deprecated in 9.10

Table 2-9. Table changes (page 4 of 8)

<b>Table</b>	<b>Impact</b>
KDSH_MODULE_DISTRIBUTIONS	Deprecated in 9.10
KDSH_MODULES	Deprecated in 9.10
KDSH_PUBLISHED_MODULE_USERS	Deprecated in 9.10
KENV_ENVIRONMENTS	Modified in 9.10
KENV_HOST_CLASSES_NLS	Modified in 9.10
KINS_ACTIONS	Added in 9.10
KINS_TABLESPACES	Added in 9.10
KNTA_APP_SERVER_PROPERTIES	Modified in 9.10
KNTA_COMMANDS	Modified in 9.10
KNTA_DOCUMENT_HISTORY_CONTENTS	Added in 9.13
KNTA_DOCUMENT_TIP_CONTENTS	Added in 9.13
KNTA_DOCUMENT_VERSIONS	Added in 9.13
KNTA_ENTITIES_NLS	Modified in 9.10
KNTA_EXTERNAL_SYNCH	Modified in 9.10
KNTA_FIELD_SECURITY	Modified in 9.10
KNTA_PARAM_SET_FIELDS_NLS	Modified in 9.10
KNTA_REF_RELATIONSHIPS_NLS	Modified in 9.10
KNTA_REFERENCES	Modified in 9.10
KNTA_REPORT_SUBMISSIONS	Modified in 9.10
KNTA_RESOLVED_SEC_TOKENS	Modified in 9.10
KNTA_SERVER_PARAM_DEF_NLS	Modified in 9.10
KNTA_UCMDB_CI_ENTRIES	Added in 9.10
KNTA_UCMDB_CI_SETS	Added in 9.10
KNTA_USERS	Modified in 9.10

Table 2-9. Table changes (page 5 of 8)

<b>Table</b>	<b>Impact</b>
KNTA_VALIDATIONS_NLS	Modified in 9.10
KPFM_CONFIGURATIONS	Modified in 9.10
KPFM_SCENARIOS	Modified in 9.10
KPMO_PROGRAM_BUSINESS_OBJ	Modified in 9.10
KRSC_ORG_UNITS_NLS	Modified in 9.10
KRSC_STAFF_PROF_PERIOD_SUM	Modified in 9.10
KTMG_PAGE_COLUMNS	Modified in 9.10
KTMG_POLICIES	Modified in 9.10
KWFL_PENDING_EXEC_CALLBACKS	Modified in 9.10
KWFL_RESOLVED_SEC_TOKENS	Modified in 9.10
KWFL_WORKFLOW_STEPS_NLS	Modified in 9.10
KWFL_WORKFLOWS_NLS	Modified in 9.10
PFM_PORTFOLIO_CONTENTS	Added in 9.10
PFM_PORTFOLIO_MANAGERS	Added in 9.10
PFM_PORTFOLIOS	Added in 9.10
PGM_PROGRAM_CONTENT	Added in 9.10
PGM_PROGRAMS	Added in 9.10
PLSQL_BLOCK_TES	Deleted in 9.10
PM_EXCEPTION_RULE_RESULTS	Modified in 9.10
PM_MSP_LINK_REQUESTS	Added in 9.10
PM_PROGRAM_PROJECTS	Deleted in 9.10
PM_PROJECTS_CONTAINERS	Deleted in 9.10
PPM_EMAIL_CONTEXT_INFO	Added in 9.10
PPM_EMAIL_PROCESSED_MSGS	Added in 9.10

Table 2-9. Table changes (page 6 of 8)

<b>Table</b>	<b>Impact</b>
PPM_FISCAL_PERIODS_NLS	Added in 9.10
PPM_INT_AGILE_TASK_MAPPING	Added in 9.20
PPM_INT_CONFIGURATIONS	Added in 9.10
PPM_INT_EVENTS	Added in 9.10
PPM_INT_QC_KPI	Added in 9.20
PPM_INT_QC_CONTROL	Added in 9.10
PPM_INT_QC_ENTITY_MAP	Added in 9.10
PPM_INT_SOLUTIONS_NLS	Added in 9.10
PPM_SERVICE_JOB_STATUS	Modified in 9.10
RC_TEMP_TABLE	Deleted in 9.10
RPT_CALENDAR_DAYS	Added in 9.10
RPT_CM_FACT_CNTL	Added in 9.10
RPT_DIM_PPM_FISCAL_PERIODS	Added in 9.10
RPT_DIM_REQUESTS	Added in 9.10
RPT_DIM_RM_POSITIONS	Added in 9.10
RPT_DIM_RM_RESOURCEPOOLMGRS	Added in 9.10
RPT_DIM_RM_RESOURCEPOOLS	Added in 9.10
RPT_DIM_RM_RESOURCES	Added in 9.10
RPT_DIM_RM_ROLES	Added in 9.10
RPT_DIM_RM_STAFF_PROFILES	Added in 9.10
RPT_DIM_TM_TIME_SHEET_LINES	Added in 9.10
RPT_DIM_TM_TIME_SHEETS	Added in 9.10
RPT_ETL_JOB	Added in 9.10
RPT_EVENT_DEF	Added in 9.10



Table 2-9. Table changes (page 7 of 8)

<b>Table</b>	<b>Impact</b>
RPT_EVENT_LOG	Added in 9.10
RPT_EVENT_LOG_DETAIL	Added in 9.10
RPT_FCT_FM_APPROVED_BUDGETS	Added in 9.10
RPT_FCT_FM_FCST_ACTUAL_CELL	Added in 9.10
RPT_FCT_RM_RES_DISTRIBUTION	Added in 9.10
RPT_FCT_RM_RESOURCE_CAPACITY	Added in 9.10
RPT_FCT_RM_RESOURCE_DEMAND	Added in 9.10
RPT_FCT_RM_RESOURCE_DEMAND_STG	Added in 9.10
RPT_FCT_RM_RESOURCE_EFFORT	Added in 9.10
RPT_FCT_RM_RESRCE_CAPACITY_STG	Added in 9.10
RPT_FCT_RM_RSC_CAPACITY_AGGR	Added in 9.10
RPT_FCT_RM_RSC_DEMAND_AGGR	Added in 9.10
RPT_FCT_TM_ACTUAL_EFFORT	Added in 9.10
RPT_FCT_TM_COMPLIANCE	Added in 9.10
RPT_FCT_TM_COST	Added in 9.10
RPT_KNTA_USERS_DELETES	Added in 9.10
RPT_PARAMS	Added in 9.10
RPT_RECREATE_INDEX	Added in 9.10
RPT_RERUN_STATUS	Added in 9.10
RPT_RM_FACT_CNTL	Added in 9.10
RPT_RM_RSC_RP_ENTRIES	Added in 9.10
RPT_RSC_RPDE_DELETES	Added in 9.10
RPT_DEPLOYMENT	Added in 9.12 Content Pack 1
RPT_DIM_PM_TASKS	Added in 9.12 Content Pack 1

Table 2-9. Table changes (page 8 of 8)

<b>Table</b>	<b>Impact</b>
RPT_DIM_REQ_DTL_CUSTOM_PARAMS	Added in 9.12 Content Pack 1
RPT_DIM_REQ_HDR_CUSTOM_PARAMS	Added in 9.12 Content Pack 1
RPT_FCT_PM_AGGR_PROJ_EFFORT	Added in 9.12 Content Pack 1
RPT_FCT_PM_AGGR_TASK_EFFORT	Added in 9.12 Content Pack 1
RPT_FCT_PM_TASK_ASSIGNMENTS	Added in 9.12 Content Pack 1
RPT_FCT_PM_TASK_COST	Added in 9.12 Content Pack 1
RPT_FCT_PM_TASK_UNASSGN_EFFORT	Added in 9.12 Content Pack 1
RPT_PM_PROJECT_ENTRIES	Added in 9.12 Content Pack 1
RPT_PM_PROJECT MANAGERS	Added in 9.12 Content Pack 1
RPT_PM_TASK_ENTRIES	Added in 9.12 Content Pack 1
RPT_UPGRADE_PARAMS	Added in 9.12 Content Pack 1
RSC_RESOURCES	Modified in 9.10
RSC_RESOURCES_INT	Added in 9.20
SM_RFC	Added in 9.10
TEMP_TBL1	Deleted in 8.00.01
TEMP_UTIL_SOURCE	Deleted in 8.00.01
TM_TIME_SHEETS	Modified in 9.10
TM_WORK_UNITS	Modified in 9.10
VALIDATION_ERRORS	Deleted in 9.10
WP_CALENDAR_CONSTRAINTS	Modified in 9.10
WP_TASK_ACTUALS	Modified in 9.10
WP_TASK_COSTS	Modified in 9.10
WP_TASK_INFO	Modified in 9.10
WP_USER_DATA	Modified in 9.10

## Views

*Table 2-10* lists the views that have been changed or added since PPM Center version 9.10.

Table 2-10. View changes (page 1 of 2)

<b>View</b>	<b>Impact</b>
RPT_DIM_BUSINESS_OBJ_MV	Added in 9.10
RPT_DIM_FM_FCST_ACTUAL_LINE_MV	Added in 9.10
RPT_DIM_FM_FCST_ACTUAL_MV	Added in 9.10
RPT_DIM_FM_FIN_SUMMARY_MV	Added in 9.10
RPT_DIM_FM_KNTA_LOOKUPS_MV	Added in 9.10
RPT_DIM_ORG_UNITS_MV	Added in 9.10
RPT_DIM_PROGRAMS_MV	Added in 9.10
RPT_DIM_PROGRAM_CONTENT_MV	Added in 9.10
RPT_DIM_PROJECTS_MV	Added in 9.10
RPT_DIM_REGIONS_MV	Added in 9.10
RPT_DIM_TM_ACTIVITIES_MV	Added in 9.10
RPT_DIM_TM_CHARGE_CODES_MV	Added in 9.10
RPT_DIM_TM_PERIODS_MV	Added in 9.10
RPT_FCT_FM_FA_APPROVED_MV	Added in 9.10
RPT_PPM_AGGR_WRK_DAYS_MV	Added in 9.10
RPT_PPM_AGGR_WRK_DAYS_MV	Added in 9.10
KRSC_ORG_UNITS_V	Modified in 9.10
RPT_DIM_PM_DTL_CSTPARMS_IRS_MV	Added in 9.12, Content Pack 1
RPT_DIM_PM_HDR_CSTPARMS_IRS_MV	Added in 9.12, Content Pack 1
RPT_DIM_PM_PROJ_ISSUE_MV	Added in 9.12, Content Pack 1
RPT_DIM_PM_PROJ_RISK_MV	Added in 9.12, Content Pack 1

Table 2-10. View changes (page 2 of 2)

View	Impact
RPT_DIM_PM_PROJ_SCPCHG_MV	Added in 9.12, Content Pack 1
RPT_DIM_PM_PROJ_SETTINGS_MV	Added in 9.12, Content Pack 1
RPT_DIM_PM_WORKPLAN_MV	Added in 9.12, Content Pack 1
KRSC_ORG_UNITS_INT	Modified in 9.20
KRSC_ORG_UNIT_MEMBERS_INT	Modified in 9.20

## Entity Changes

This section describes the major changes to the HP-provided entities—access grants, licenses, portlets, report types, request types, special commands, tokens, validations, and workflows—in this version, as compared to version 9.10. Some changes were introduced in service packs or minor releases, as noted.

### Access Grants

Table 2-11. Access grant changes (page 1 of 2)

Entity Name	Impact
Configure Portfolio Management	Modified in 9.10
Create MSPS Resource Mapping	Added in 9.10
Demand Mgmt: Import Request	Added in 9.12
Edit Actuals on All Financial Summaries	Added in 9.10
Edit Actuals on Financial Summary	Added in 9.10
Edit All Portfolios	Added in 9.10
Edit Costs on All Financial Summaries	Renamed to Edit Actuals on All Financial Summaries in 9.10

Table 2-11. Access grant changes (page 2 of 2)

Entity Name	Impact
Edit Costs on Financial Summary	Renamed to Edit Actuals on Financial Summaries in 9.10
Edit MSPS Resource Mapping	Added in 9.10
Edit Portfolio	Added in 9.10
Portfolio Manager	Renamed to View All Portfolios and modified in 9.10
Promise Unspecified Resources	Added in 9.10
Resource Mgmt: View Only Resources That I Manage as a Direct Manager	Added in 9.14
Resource Mgmt: View Only Resources That I Manage in My Resource Pool	Added in 9.14
Sys Admin: Server Tools: Execute SQL Runner	Modified in 9.12
Sys Admin: Server Tools: Execute File Browser	Added in 9.12
View All Portfolios	Added in 9.10

## Licenses

Table 2-12. Licenses changes

Entity Name	Impact
Application Portfolio Analyst	Added in 9.12
Application Portfolio User	Added in 9.12

## Portlets

Table 2-13. Portlet changes

<b>Entity Name</b>	<b>Impact</b>
Financial Comparison	Added in 8.00.01
Financial Summary to Financial Data Comparison	Added in 8.00.01
Program Contents List	Added in 9.10
Program Cost Summary	Modified in 9.10
Program List	Modified in 9.10
Program Project List (replaced by Program Contents List)	Replaced in 9.10
Open Defects Trends	Added in 9.20
Priority Defects Trends	Added in 9.20
Requirements Trends	Added in 9.20
Project Quality Scorecard	Added in 9.20

## Report Types

Table 2-14. Report types changes

<b>Entity Name</b>	<b>Impact</b>
Purge Empty Time Sheet Lines	Added in 9.20
(REFERENCE) Export Request Report	Added in 9.12

## Request Header Type Field Groups

Table 2-15. Request header type field group changes

<b>Entity Name</b>	<b>Impact</b>
Service	Added in 9.10
CMQC Application Project	Description modified in 9.20
CMQC QC/ALM Administration (renamed from CMQC QC Administration)	Modified in 9.20
CMQC QC/ALM Instance (renamed from CMQC QC Instance)	Modified in 9.20
CMQC Testing Project	Description modified in 9.20
QC/ALM Defect Information (renamed from Quality Center Defect Information)	Modified in 9.20
QC/ALM Info (renamed from Quality Center Info)	Modified in 9.20
QC/ALM Release Information	Added in 9.20
Universal CMDB Impact Analysis	Modified in 9.12

## Request Types

Table 2-16. Request type changes

<b>Entity Name</b>	<b>Impact</b>
PFM-Asset	Modified in 9.10
PFM-Project	Modified in 9.10
PFM-Proposal	Modified in 9.10

## Special Commands

Table 2-17. Special command changes

Entity Name	Impact
ksc_clear_staffingprofile_forecast_assignment	Added in 9.10
ksc_copy_request	Modified in 9.12 by adding two parameters
ksc_export_request_as_xml	Added in 9.12
ksc_download_ucmdb_impactreport	Added in 9.12

## Validations

Table 2-18. Validation changes (page 1 of 2)

Entity Name	Impact
CST - Budget Entities	Modified in 9.10
CST - Program Names	Modified in 9.10
FINANCIAL BENEFIT AVOIDANCE CATEGORY List	Editable in 9.10
Financial Benefits Revenue Category List	Editable in 9.10
PM - Programs	Modified in 9.10
PM - Programs (Restricted)	Modified in 9.10
PMO - All Cost Enabled Programs	Modified in 9.10
PMO - Program Projects	Modified in 9.10
Service List	Added in 9.10
Service List Data	Added in 9.10
Service List uCMDB	Added in 9.10
RSC - Org Unit ID	Modified in 9.20



Table 2-18. Validation changes (page 2 of 2)

Entity Name	Impact
RSC - Org Unit ID - Enabled	Modified in 9.20
RSC - Org Unit Potential Parents (with Region)	Modified in 9.20
RSC - Org Unit Potential Parents (with Region) for New Org Units	Modified in 9.20
RSC - Org Unit Sort By	Modified in 9.20
RSC - Primary Org Units - Enabled	Modified in 9.20
RSC - Primary Org Units - Enabled and not assigned to any resource pool including specific org unit	Modified in 9.20
RSC - Primary Org Units associated to Resource Pools	Modified in 9.20
XML Exportable Request Template	Added in 9.12
XML Exportable Request Template By Request Type	Added in 9.12
XML Importable Request Template	Added in 9.12

## Workflows

Table 2-19. Workflow changes

Entity Name	Impact
Program Risk Management Process	Added in 9.10



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# 3 System Requirements and Configuration Updates

## Overview of System Modifications

This chapter highlights the system software and configuration changes for PPM Center version 9.20 (unless otherwise indicated).



For details specific to platform environments, see the *System Requirements and Compatibility Matrix*.

### server.conf File Changes

This section describes the changes to the server configuration parameters (located in the `server.conf` file) in version 9.20.

#### Additions and Modifications

The server configuration parameters listed in *Table 3-1* were either added or modified (for example, the parameter is used for a different purpose or the valid values have changed). For details about these parameters, see the *Installation and Administration Guide*.

Table 3-1. New or modified server configuration parameters (page 1 of 8)

Parameter Name	Change History	Description
ALLOW_SAVE_REQUEST_DRAFT	Description modified in 9.12	If set to <code>true</code> , enables the <b>Save Draft</b> button on the Create New Request page, which allows HP Demand Management users to save requests without automatically submitting them in the standard interface.
BYPASS_STARTUP_CHECKS	Added in 9.12	If set to <code>true</code> , prevents server checks at PPM Center startup.
CMQC_QC_VERSION	Modified in 9.12	Specifies ALM/Quality Center version for CMQC solution.
CMQC_INIT_STRING	Added in 9.12	<p>The value for <code>initString</code> parameter for CMQC solution, for example,</p> <pre>INI:s40F+cwwevEkcJ9zWHwpE8ktxfl1pb5y8QoENFQLs8=</pre> <p>You can get the value from Quality Center/ALM server.</p> <p>The <code>initString</code> value is stored in a <b>properties file</b> (<code>ALM\jboss\server\default\deploy\20qcbin.war\WEB-INF\siteadmin.xml</code>) or an <b>XML configuration file</b> (<code>ALM\conf\qcConfigFile.properties</code>) on the server where Quality Center/ALM is installed.</p>
DMS_DB_ENABLE_FULLTEXT_SEARCH	Added in 9.13	To enable the database fulltext search feature in document management for PPM Center, set this parameter to <code>true</code> .
DMS_FILENAME_DISPLAY_LENGTH	Added in 9.13	Determines the number of characters shown in the <b>References</b> section for the names of files attached to PPM Center entities.
DMS_MIGRATION_DELAY_BETWEEN_DOCUMENT	Added in 9.13	Determines the duration (in seconds) that a thread will wait between two documents to migrate. To lighten the load of the migration process on the PPM Server, increase the value of this parameter.

Table 3-1. New or modified server configuration parameters (page 2 of 8)

Parameter Name	Change History	Description
DMS_MIGRATION_DOCUMENTS_BATCH_SIZE	Added in 9.13	Determines the number of documents that to be queued for migration on a given PPM Service node. Every time the DMS Migration Engine Service runs on a Service node, the queue of documents to migrate is filled up.
DMS_MIGRATION_THREAD_COUNT	Added in 9.13	Specifies number of threads that will be migrating documents on a given PPM Service node.
ENABLE_CONNECTION_CORRELATION	Added in 9.12	<p>The Connection Correlation page is intended for use by HP Software Support for troubleshooting and is disabled by default in a production environment. If the page is enabled, you access it by selecting <b>Open &gt; Administration &gt; View connection correlation</b> from the PPM Dashboard.</p> <p>To enable the <b>Open &gt; Administration &gt; View connection correlation</b> menu item and the Connection Correlation page, add the <code>ENABLE_CONNECTION_CORRELATION</code> parameter to the <code>server.conf</code> file, and set its value to <code>true</code>.</p>
ENABLE_DEBUGGING_PER_USER	Added in 9.12	Add this parameter to the <code>server.conf</code> file and set it to <code>true</code> to enable debug logging to the <code>serverLog.txt</code> file for a specific user.
ENABLE_LW_SSO_UI	Added in 9.12	If added to the <code>server.conf</code> file and set to <code>true</code> , enables the lightweight single sign-on (LW-SSO) user interface
ENABLE_LW_SSO_WEB_SERVICE	Added in 9.12	<p>(For integration of PPM Center Tasks with Service Manager RFCs only)</p> <p>If LW-SSO authentication is enabled, add this parameter to the <code>server.conf</code> file and set it to <code>true</code> to specify that PPM Center is to always use the current user to call the Service Manager Web service.</p>

Table 3-1. New or modified server configuration parameters (page 3 of 8)

Parameter Name	Change History	Description
ENABLE_RESTRICTIONS_ON_PROJ_SEARCH	Added in 9.12	To enable a restriction on the number of projects returned on project searches, set this parameter to <code>true</code> . To specify the maximum number of projects returned on project searches, set the <code>MAX_RESULTS_ALLOWED_ON_PROJ_SEARCH</code> parameter.
ENABLE_SITE_MAP	Added in 9.12	If set to <code>true</code> , enables the <b>Site Map</b> link in the header of each page.
ENABLE_SKIP_NAVIGATION	Added in 9.12	If set to <code>true</code> , enables the <b>Skip Navigation</b> link in the header of each page.
EXCEPTIONS_RETAIN_PERIOD	Added in 9.12	Number of days non-service PPM Center exceptions are to be retained.
FONT_SIZE_OF_GRAPHIC_WORKFLOW	Added in 9.14	Specifies a font size for displaying larger or smaller characters in workflow layout images
HIGHLIGHT_NONWORKING_DAYS_IN_TIMESHEET	Added in 9.12	If set to <code>true</code> , for time sheets on which time is logged on a daily basis, the columns for non-working days are highlighted in color.
IMPACT_ANALYSIS_REPORT_CATEGORY	Added in 9.12	If you have enabled the attachment of Universal CMDB Impact Analysis Reports for CIs in PDF format to requests in PPM Center, use this parameter to specify the default category value for impact analysis reports, for example, change or operation.
IMPACT_ANALYSIS_REPORT_LANGUAGE	Added in 9.12	If you have enabled the attachment of Universal CMDB Impact Analysis Reports for CIs in PDF format to requests in PPM Center, use this parameter to set the default language code.
IMPACT_ANALYSIS_REPORT_SEVERITY	Added in 9.12	If you have enabled the attachment of Universal CMDB Impact Analysis Reports for CIs in PDF format to requests in PPM Center, use this parameter to set the default severity value for the impact analysis report.

Table 3-1. New or modified server configuration parameters (page 4 of 8)

Parameter Name	Change History	Description
LOCAL_IP	Description updated in 9.14	Used to construct the servlet URL for use by PPM Server when the PPM Server internally invokes one of its own servlets. An example of this is when a report is executed.  Ordinarily, this parameter should not need to be specified.
LW_SSO_CLEAR_COOKIE	Added in 9.12	If LW-SSO authentication is enabled, add this parameter to the <code>server.conf</code> file to specify that PPM Center must clear the LW-SSO token when a user logs out of PPM Center.
LW_SSO_DOMAIN	Added in 9.12	If LW-SSO authentication is enabled, add this parameter to the <code>server.conf</code> file to specify the LW-SSO domain.
LW_SSO_EXPIRATION_PERIOD	Added in 9.12	The token for validating user logon has an expiration value that determines an application's session validity. If LW-SSO authentication is enabled, add this parameter to the <code>server.conf</code> file to specify the LW-SSO token expiration period in minutes.  Configure a token expiration for each HP application that uses LW-SSO. HP recommends that you set the value to 60 (minutes).
LW_SSO_INIT_STRING	Added in 9.12	If LW-SSO authentication is enabled, add this parameter to the <code>server.conf</code> file to specify the value of the <code>initString</code> parameter.
LW_SSO_TRUSTED_DOMAIN	Added in 9.12	If LW-SSO authentication is enabled, add this parameter to the <code>server.conf</code> file to specify one or more LW-SSO trusted domains. To separate multiple domains, use semicolons (;).
MAX_RESULTS_ALLOWED_ON_PROJ_SEARCH	Added in 9.12	Specifies the maximum number of projects returned on project searches.  To set this restriction, you must also set the <code>ENABLE_RESTRICTIONS_ON_PROJ_SEARCH</code> parameter.

Table 3-1. New or modified server configuration parameters (page 5 of 8)

Parameter Name	Change History	Description
MAX_WEB_ATTACHMENT_SIZE_IN_MB	Added in 9.13	Specifies maximum attachment size (in MB) for files uploaded using PPM Center web interface. Attachments size is capped at 2 GB.
MOBILITY_ACCESS_HIDE_INITIAL_MESSAGE	Added in 9.14	Controls whether to hide or display the initial text in an Mobility Access email notification.
MULTICAST_WARNING_MINUTES	Added in 9.12, modified in 9.20	PPM Center logs warnings in the server logs if it does not detect multicast traffic from a node after a specified time interval has elapsed (even though the node can be reached on its JMS connection factory and the PPM_SERVER_INSTANCE table shows that the node is running). Use this parameter to configure the amount of time that must pass before PPM Center determines that a node is down.
NUMBER_OF_FUTURE_YEARS_TO_SHOW_ON_FINANCIAL_SUMMARY	Added in 9.12	Used along with the <a href="#">NUMBER_OF_PAST_YEARS_TO_SHOW_ON_FINANCIAL_SUMMARY</a> parameter to specify the time range for data displayed in tables of forecast and actual cost details and benefits details on the Edit Forecast & Actuals page and the Edit Benefits page of financial summaries.
NUMBER_OF_PAST_YEARS_TO_SHOW_ON_FINANCIAL_SUMMARY	Added in 9.12	Used along with the <a href="#">NUMBER_OF_FUTURE_YEARS_TO_SHOW_ON_FINANCIAL_SUMMARY</a> parameter to specify the time range for data displayed in tables of forecast and actual cost details and benefits details on the Edit Forecast & Actuals page and the Edit Benefits page of financial summaries.



Table 3-1. New or modified server configuration parameters (page 6 of 8)

Parameter Name	Change History	Description
ONLINE_IMPACT_ANALYSIS_REPORT	Added in 9.12	<p>PPM Center logs warnings in the server logs if it does not detect multicast traffic from a node after a specified time interval has elapsed (even though the node can be reached on its JMS connection factory and the PPM_SERVER_INSTANCE table shows that the node is running). Use this parameter to configure the amount of time that must pass before PPM Center determines that a node is down.</p> <p>To disable multicast monitoring, set this parameter to zero or a lower number.</p>
REPORTING_BASE_URL	Added in 9.12 CP1	If Operational Reporting is deployed on your system, this is the base URL for your BusinessObjects server.
SCHEME_BASED_REDIRECT_FILTER_ENABLED	Added in 9.20	<p>If set to <code>true</code>, enables the SchemeBasedRedirectFilter filter.</p> <p>The SchemeBasedRedirectFilter generates a correct redirect URL by adding the BASE_URL value as prefix to the redirect URL, such that every redirect URL starts with scheme (<code>http/https</code>) and the same base URL, and then sends to the correct target.</p> <p>If the parameter is not present in <code>server.conf</code>, the system would treat it as a <code>true</code> condition by default.</p> <p>If you do not use <code>https</code> or reverse proxy, you can disable the SchemeBasedRedirectFilter by setting the parameter to <code>false</code>.</p>
SHOW_PARAMETERS_AT_STARTUP	Added in 9.12	If set to <code>true</code> , enables the display (and logging) of all PPM Center server configuration parameters used during startup.
SERVICE_RECORDS_RETAIN_COUNT	Added in 9.12	Determines the number of the most recent service runs to be retained.

Table 3-1. New or modified server configuration parameters (page 7 of 8)

Parameter Name	Change History	Description
TABLE_COMP_USE_LEGACY	Added in 9.12	Determines whether the original layout of a table component is used. If set to <code>true</code> , the original layout is applied.
TM_ENABLE_GRID_RESIZE_CONTROL	Added in 9.12	If set to <code>true</code> , enables users to vertically resize Time Breakdown tables on time sheets.
TM_ENABLE_REQ_ACTIVITY_CONTROLS	Added in 9.12	In time-sheet policies, you can require users to specify activities on time-sheet lines for requests of particular request types. To enable this activity restriction based on request types, you must set this parameter to <code>true</code> . (You must also select the <b>Use Time Management to track actuals</b> option from the PPM Workbench.)
TM_ENABLE_SHOW_WHATS_NEW	Added in 9.12	The first time a user opens any time sheet, PPM Center displays a message that describes the saving of the time sheet. After this, the message is not displayed to that user again for any time sheet.  To disable the display of this message, set this parameter value to <code>false</code> .
UCMDB_WS_PASSWORD	Added in 9.12	Universal CMDB user password for logging in through Web service.
WORKBENCH_MAX_HEAP_SIZE	Added in 9.20	Specifies maximum available memory (in MB) for the PPM Workbench.
dashboard.Pivotdataset-Max-Cells	Added in 9.14	Determines the maximum number of cells (number of rows * number columns) in the List display mode of a pivot table portlet.
dashboard.Pivotdataset-Max-Distinct-Cells	Added in 9.14	Determines the maximum number of unique aggregations (product of numbers of unique values in each column) in a pivot table.
dashboard.Pivotdataset-Max-Distinct-In-Column	Added in 9.14	Determines the maximum number of unique values in any column of a pivot table.
dashboard.Pivotdataset-Max-Rows	Added in 9.14	Determines the maximum number of rows in the List display mode of a pivot table portlet.

Table 3-1. New or modified server configuration parameters (page 8 of 8)

Parameter Name	Change History	Description
DMS_FILENAME_SEARCH_MAX_RESULTS	Added in 9.20	Specifies maximum number of matching items before applying filters from other search criteria, such as creation date or "Closed" status. You may need to increase this value if too many filename matching items are filtered out by very selective search criteria.
WORK_PLAN_RESOURCE_AVAILABILITY_DAYS_LIMIT	Added in 9.20	Specifies resource availability days limit for a task, including the resource's non-working days. A schedule warning appears if the total of the value entered in the <b>Scheduled Duration</b> field plus the resource's non-working days is greater than the limit you specified.
MULTICAST_TTL	Added in 9.20	Specifies TTL value in all multicast channels.
HTTP_PROXY_URL	Added in 9.20	URL of the HTTP proxy server used for PPM Center to connect to the Internet. It can be used by integration solutions or other PPM Center functionality.
COST_ROWS_BATCH_SIZE	Added in 9.20	Batch size of rows for the Cost Rollup Service to process.
IMPACT_ANALYSIS_REPORT_NAME	Added in 9.20	Specifies a name for the UCMDB impact analysis report.
APP_SERVER_ALERT_TEXT	Added in 9.20	Alert text that displays on the application server logon page and headers.
MAX_QC_ALM_RELEASES_NUMBER	Added in 9.20	Specifies the maximum number of releases from ALM to be displayed on the Project Details page in PPM Center.
dashboard.Asynchronous-Loading-Enabled	Added in 9.20	Setting the value to <code>true</code> enables asynchronous rendering of the Dashboard page.

Table 3-2. New or modified LDAP attribute parameters

Parameter Name	Change History	Description
RSC_RESOURCES_INT	Added in 9.20	<p>Target table for the import. Can be mapped to any LDAP attribute.</p> <p>Always map both <code>VISIBLE_USER_DATA</code> and <code>USER_DATA</code>.</p> <p>To disable default mapping:</p> <ol style="list-style-type: none"> <li>1. Either comment out or delete the mapping line.</li> </ol> <p>Mappings:</p> <ul style="list-style-type: none"> <li>• <code>USERNAME</code> = <code>sAMAccountName</code></li> <li>• <code>USER_DATA1</code> = <code>mail</code></li> <li>• <code>VISIBLE_USER_DATA1</code> = <code>mail</code></li> </ul> <ol style="list-style-type: none"> <li>2. Add a placeholder parameter to the <code>LdapAttribute.conf</code> file that will add a value to the <b>FIRST_NAME</b> and <b>LAST_NAME</b> fields.</li> </ol>