

# HP Project and Portfolio Management Center

Software Version: 9.30

## What's New and What's Changed

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Software Release Date: September 2014



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The following table indicates changes made to this document since the last released edition.

Publication Date	Summary of Changes
October 2014 (9.30, Second Edition)	<ul style="list-style-type: none"><li>• Updated "Data Model Changes" to include the tables and views that were added in version 9.30 but not documented.</li><li>• Added an enhancement entry in the <i>What's New in PPM Center version 9.30</i> section for the pie chart in the Staffing portlet on the <b>Project Summary</b> tab of the Project Overview page.</li></ul>
November 2014 (9.30, Third Edition)	<ul style="list-style-type: none"><li>• Updated the Autopass licensing instructions for existing customers in the "New Features" section, including the URLs for the My Updates portal and the HP Licensing for Software portal</li></ul>

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# Chapter 1: What's New in PPM Center Version 9.30

This section contains the following:

- ["What's New in Version 9.30" below](#)
- ["Upgrade Considerations" on page 18](#)
- ["Changed and New Document Titles" on page 20](#)
- ["Related Information" on page 20](#)

## What's New in Version 9.30

This section describes what's new in version 9.30.

## New Features

Version 9.30 introduced the following new features:

- **Purging Stale PPM Center Database Data**

An increasing PPM Center database size could impact the database operations and affect the overall performance of PPM Center. The standalone PPM Purge Tool is designed for PPM Center administrators to permanently delete (purge) stale database data by specifying purging criteria.

The PPM Purge Tool offers the following:

- Dynamic statistics overview of all entities with statuses in the PPM Center Oracle database
- Enables administrators to define purging criteria based on their organizations business needs and to purge stale data to decrease database load
- Downloadable XML files for purging criteria that administrators defined and downloadable purge history reports

For more information, see the *Installation and Administration Guide*.

- **Replacing JBoss with Tomcat**

To simplify the PPM Center's platform and to address the upcoming JBoss 4.05 end-of-life issue, PPM Center version 9.30 has implemented a fundamental change, that is, replacing JBoss technology with the open source Tomcat technology.

As a result of this change, the following server configuration parameters are removed from PPM Center:

- APP\_SERVER\_MULTICAST\_PORT
- APP\_SERVER\_NAMING\_SERVICE\_RMI\_PORT
- APP\_SERVER\_NAMING\_SERVICE\_BINDING\_PORT
- APP\_SERVER\_WEBSERVICE\_PORT
- APP\_SERVER\_JRMP\_INVOKER\_RMI\_PORT
- APP\_SERVER\_POOLED\_INVOKER\_BINDING\_PORT
- APP\_SERVER\_HAJNDI\_RMI\_PORTAPP\_SERVER\_HAJNDI\_BINDING\_PORT
- APP\_SERVER\_POOLEDHA\_BINDING\_PORT
- APP\_SERVER\_JMX\_RMI\_PORT

For more information, see the *Installation and Administration Guide*.

- **Autopass integration implemented to align with HP's licensing mechanism**

PPM Center version 9.30 implemented Autopass integration to replace PPM Center's original licensing mechanism with HP's licensing mechanism. The new Autopass licensing solution simplifies the license generation and validation process, supports more product license types, offers flexible license installation options, and simplifies product license management.

- **Simplified license activation and validation process.** To activate and generate an Autopass license, simply go to the HP Licensing for Software portal (<http://www.hp.com/software/licensing>).

When installing an Autopass license key file, PPM Center validates the IP address of the PPM Server against that assigned in the license file. For a clustered environment, IP address assigned in the license file matches that of the primary node in the cluster.

- **More product license types available.** In addition to the perpetual product license (or term license), trial license and evaluation license are also available with PPM Center 9.30. This allows new customers to try and evaluate PPM Center features and functionalities.
- **More flexible license installation options available.**

For new PPM Center customers, when installing PPM Center for the first time, you have the following options:

- If you do not have an evaluation license or a perpetual product license, you can select the **No thanks. I will install the license later.** option in the Choose License page of the installation wizard. A trial license will be generated automatically and activated for you right away, which allows you to use PPM Center with a limited number of users for 60 days. (To view the features and capacity available with a trial license, you can check the PPM Workbench License Administration window.)

Before the trial license expires, if you wish to experience the full features of PPM Center, you can obtain an Autopass license file from the HP Licensing for Software portal and install the license file by using either the Administration Console the newly introduced `kLicenseInstall.sh` tool.

- If you have an evaluation license or perpetual product license, you can install the Autopass license key file using one of the following ways:
  - In the Choose License window during PPM Center 9.30 installation process, or
  - After the installation of PPM Center 9.30, before the trial license expires, install the license key file by using either the Administration Console the newly introduced `kLicenseInstall.sh` tool.

For existing PPM Center customers, you must get new license keys before upgrading to version 9.30. Go to the My Updates portal ([http://support.openview.hp.com/software\\_updates.jsp](http://support.openview.hp.com/software_updates.jsp)), select **My Updates** and enter your service agreement ID to get PPM Center version 9.30 software updates and get new license required. Customers with a valid Entitlement Order Number can go to the HP Licensing for Software portal (<http://www.hp.com/software/licensing>) to activate your license by entering your Entitlement Order Number (EON). After successful upgrade, to start PPM Server

properly, you must use the `kLicenseInstall.sh` tool to install the Autopass license you received from HP.

- **Simplified product license management.** A new Administration Console tool (**Administration Console > Administration Task > License**) is added to allow you manage product license easily. Using the Administration Console tool, you can,
  - Install an Autopass license file without having to stop and restart the PPM Server
  - View a summary of licenses installed on the PPM Server, including license capacity and expiration dates
  - Remove an Autopass license file easily
- Licenses installed are stored in the PPM Center database, instead of the file system. This makes it possible for the installed licenses to become effective right away after license installation. No need to stop and restart the PPM Server.

For more information, see the *Installation and Administration Guide*, *Upgrade Guide*, and *Security Model Guide and Reference*.

- **Quick view available for Project Work Plan**

The **Quick** view is introduced for work plan in version 9.30. You can switch between the **Quick** view and other views. When you open the project work plan for the first time, it is opened in the **Quick** view. If you log out and return to the work plan, it is opened in the view as when you left.

This view provides you with a quick access to the combination of the following information:

- Schedule-related information, such as Scheduled Start, Scheduled Finish, and Scheduled Duration
- Information about the progress of the work plan, such as Actual Start, Actual Finish, and Percent Complete
- Gantt chart, a graphic display of schedule-related information, including task length and timing

For more information, see *HP Project Management User's Guide*.

- **Gantt view available for the Staffing Profile page**

The **Gantt** view is introduced for the Staffing Profile page in version 9.30. You can switch between the **Gantt** view and the **Table** view (old view of the Staffing Profile page). When you open the

Staffing Profile page for the first time, it is opened in the **Gantt** view. If you log out and return to the staffing profile, it is opened in the view as when you left.

In the **Gantt** view, you can display or edit positions in a more convenient way. For example, you can edit a position forecast demand or a resource allocation by dragging the time line bar in the Gantt chart.

For more information, see *HP Resource Management User's Guide*.

- **Gantt view available for the Resource Allocation Management page**

The **Gantt** view is introduced for the Resource Allocation Management page in version 9.30. You can switch between the **Gantt** view and the **Table** view (old view of the Resource Allocation Management page). When you open the Resource Allocation Management page for the first time, it is opened in the **Gantt** view. If you log out and return to the Resource Allocation Management page, it is opened in the view as when you left.

In the **Gantt** view, you can manage resource allocation in a more convenient way. For example, you can a resource allocation by dragging the time line bar in the Gantt chart.

For more information, see *HP Resource Management User's Guide*.

- **Resource Management Optimization**

In the **Gantt** view of the Resource Allocation Management page, you can get resources recommendation for the positions you want to assign resources. This helps you better decide on the resources to assign.

For more information, see *HP Resource Management User's Guide*.

- **Agile Open SDK provided to enable integration of PPM Center with agile management tools**

Starting from version 9.30, PPM Center provides a solution called Agile Open SDK. With this solution, PPM Center can be integrated with any agile management tool (both internal and external agile tools) by using different connectors. Therefore, this solution provides PPM project managers with a more comprehensive approach to manage hybrid projects in PPM Center.

**Caution:** In version 9.30, you cannot use the integration solution enabled by the Agile Open SDK to integrate PPM Center time sheets with HP Agile Manager. If you still want to use the integration between PPM Center time sheets and HP Agile Manager, you may choose to stay on

version 9.22.

For more information, see *HP Solution Integrations Guide*.

- **New SSH2 client for PPM Center**

A new SSH2 client is introduced to the HP Deployment Management module of PPM Center to support FIPS 140.2 compliant encryption algorithms. You can select the new SSH2 option from the Connection Protocol drop-down list in the Environment window of PPM Workbench.

The new SSH2 client is named **SSH2** in the Environment Connection Protocol list, with the old SSH2 renamed **SSH2 (Legacy)**. The new Secure Copy 2 is named **Secure Copy 2** in the Environment Transfer Protocol list, with the old Secure Copy 2 renamed **Secure Copy 2 (Legacy)**.

For more information, see *HP Deployment Management Configuration Guide*.

- **HP-supplied Excel reports for Operational Reporting**

PPM Center version 9.30 provides Excel version of the existing operational reports. You can generate these reports from PPM Center standard interface without using BusinessObjects. These Excel reports include:

- Demand Vs Capacity report
- Project Status List report
- Financial Summary report
- Time Sheet Compliance report
- ETL Job History report

For more information, see *Operational Reporting User's Guide*.

- **New tabs added on the Project Overview page**

PPM Center version 9.30 adds two tabs on the Project Overview page:

- **Staffing** tab. When you create a staffing profile for a project, PPM Center leads you to the **Staffing** tab of the Project Overview page where you can view and edit the staffing profile information as you do on the Staffing Profile page. This helps you configure the project information and its staffing profile information centrally on the Project Overview page.

For more information, see *HP Project Management User's Guide* and *HP Resource Management User's Guide*.

- **Cost** tab. By consolidating different views of project costs and financials, the **Cost** tab on the Project Overview page is introduced to provide project managers a comprehensive and centralized view on the project budget, costs, and financials from resource, schedule, earned value, and billing perspectives.

The visibility into accurate finance information from the project level allows project managers to monitor project cost status along with other aspects of a project in order to deliver the project on time and within budget.

The **Cost** tab contains four views as described in the table below:

View name	Description
<b>Financial Summary</b>	<p>Gives project managers an overview of progress information on forecast cost, projected cost, budget as well as actual cost.</p> <p>The Financial Summary chart has no data if no financial summary is created for the project.</p>
<b>Resource Forecast Cost</b>	<p>Displays staffing profile related resource forecast cost data for the project.</p> <p>The Resource Forecast Cost chart is only available when a staffing profile is created for the project.</p>
<b>Work Plan Cost</b>	<p>Displays work plan related cost data for the project.</p> <p>The Work Plan Cost chart is only available when the project is integrated with Time Management.</p>
<b>Earned Value Analysis</b>	<p>This view allows project managers to perform earned value analysis based on the work plan related cost data.</p> <p>The Earned Value Analysis chart is only available when the project is integrated with Time Management.</p> <p>Project managers can also leverage the optimization tool available on this view to model the impact on budget and schedule by adjusting project scope and even comparing different scenarios.</p>

For more information, see *HP Project Management User's Guide*.

## Enhancements

Version 9.30 implemented the following enhancements:

Module	Enhancements
Admin Tools	<ul style="list-style-type: none"><li>• <b>Mail notification for specified server logs</b>  As an administrator, you can decide the server logs information to be notified by email through specifying regular expression or the combination of log levels and regular expression.</li><li>• <b>Automatically generate a database objects comparison report after the upgrade is completed</b>  This helps you identify missing objects (triggers, indexes, and constraints) that could cause performance issue.</li></ul>
Dashboard	<ul style="list-style-type: none"><li>• <b>New checkbox on the define preference step of the Create Portlet Definition page</b>  For bar charts, stacked bar charts, clustered bar charts, and pie charts, a new checkbox <b>Show Total</b> is added on the Define Preference Step of the Create Portlet Definition page. With this checkbox available, you can decide whether or not the <b>Total</b> data should be displayed.</li><li>• <b>Enhanced Export to Excel functionality</b>  Starting from version 9.30, clicking <b>Export to Excel</b> on some entities exports the data to .xlsx files (Microsoft Excel files) instead of HTML pages. This enhancement enables you to process data by using more Excel features, such as format and calculation.  Applicable entities include the following:<ul style="list-style-type: none"><li>■ PPM Center portlets</li><li>■ Search Projects page</li><li>■ Project work plans</li></ul></li></ul>

Module	Enhancements
<b>Demand Management</b>	<ul style="list-style-type: none"> <li>• <b>Set focus in the first editable field</b></li> </ul> <p>When you launch the following pages in the HP Demand Management module:</p> <ul style="list-style-type: none"> <li>■ The Request Details page</li> <li>■ The Request Look-ahead page</li> <li>■ The Create Request page</li> </ul> <p>The system sets focus to the first editable text field on the pages automatically. This allows you to work in the editable field directly.</p>
<b>Deployment Management</b>	<ul style="list-style-type: none"> <li>• <b>Connecting to the server not using the default port</b></li> </ul> <p>Starting from version 9.30, you can specify a port number other than the default port number of 22 when using one of the following connection protocols to connect to the server.</p> <ul style="list-style-type: none"> <li>■ SSH</li> <li>■ SSH2 (Legacy)</li> <li>■ SSH2</li> </ul> <p>For more information, see the <i>HP Deployment Management Configuration Guide</i>.</p>
<b>Platform</b>	<ul style="list-style-type: none"> <li>• <b>Providing meaningful log information by implementing logging enhancement</b></li> </ul> <p>The format of PPM Center log messages is refined so that PPM Center administrators or HP Support can identify the reasons for error messages in a more convenient and effective way.</p>
<b>HP Project Management</b>	<ul style="list-style-type: none"> <li>• <b>New option for external predecessors available on the Microsoft Project Integration project policy page</b></li> </ul> <div data-bbox="483 1545 1377 1619"> <p>External Predecessors</p> <p><input type="checkbox"/> Preserve existing external predecessors in this project when the work plan is synchronized from Microsoft Project.</p> </div>

Module	Enhancements
<b>Documentation</b>	<ul style="list-style-type: none"> <li>• <b>Added Help menu and provided PPM Center documentation as an Online Help system</b> <ul style="list-style-type: none"> <li>■ The <b>Help</b> menu is added to the standard PPM Center user interface</li> <li>■ PPM Center documentation is now provided as an online help system</li> </ul> <p>To access PPM Center online help system, from the <b>Help</b> menu, click <b>Help Center</b>.</p> <p>To navigate the online help system, expand a folder of your interest in the navigation pane and click the topic of your interest.</p> <li>■ The PDF version of the majority of PPM Center documentation are also included with the product</li> </li></ul>
<b>Integrations</b>	<ul style="list-style-type: none"> <li>• <b>Enhancements to the integration with HP Agile Manager</b> <ul style="list-style-type: none"> <li>■ Two additional charts, the Theme Status and Feature Status charts, are available in the <b>Hybrid Project</b> tab of the Task Details page after the mapping relationship is established.</li> <li>■ You can view actual agile release information such actual effort and related resources in the project work plan after synchronization is completed.</li> </ul> </li> </ul>
<b>MLU Support</b>	<ul style="list-style-type: none"> <li>• <b>Arabic and Swedish language packs are available</b></li> </ul>
<b>HP Financial Management</b>	<ul style="list-style-type: none"> <li>• <b>Ensuring cost data accuracy and providing visibility into cost calculation by:</b> <ul style="list-style-type: none"> <li>■ Revamping the Cost Rollup Service</li> <li>■ Restricting editable fields for cost rates</li> </ul> </li> <li>• <b>Providing visibility into cost changes by introducing audit trails for the following:</b> <ul style="list-style-type: none"> <li>■ Cost Factor changes</li> <li>■ Cost Rule changes</li> <li>■ Changes to cost-related attributes of resources (including resource category, org unit, department, region, and role)</li> </ul> </li> </ul>

Module	Enhancements
<b>HP Resource Management</b>	<p>The following enhancements to the Resource Management module are available in version 9.30:</p> <ul style="list-style-type: none"> <li>• Import the positions you selected to the current staffing profile.</li> <li>• New options are added for on the Configure Notifications for Resource Pool page and the Configure Default Resource Request Notifications page to notify the resource manager when a position is deleted or its forecast demand is changed.</li> <li>• Enhanced staffing profile audit trail</li> <li>• Confirmation dialog box pops up when deleting a position.</li> <li>• A pie chart that shows the classification of staffing profile positions by position status (fulfilled and not fulfilled) is added to the Staffing portlet on the Project Summary tab of the Project Overview page.</li> </ul>
<b>Security</b>	<ul style="list-style-type: none"> <li>• <b>Allowing outgoing SMTP authentication</b></li> </ul> <p>An enhancement is implemented to allow outgoing SMTP authentication. As a result, the default value of the SMTP_PORT parameter is modified, and the following server configuration parameters are introduced:</p> <ul style="list-style-type: none"> <li>■ SMTP_AUTH_USERNAME</li> <li>■ SMTP_AUTH_PASSWORD</li> <li>■ SMTP_USE_SSL</li> <li>■ SMTP_USE_STARTTLS</li> </ul> <p>To configure the email server to allow outgoing SMTP authentication, modify the default value of the SMTP_PORT parameter and add the new parameters manually under the SMTP_SERVER section in the <code>server.conf</code> file. For details about these parameters, see the <i>Installation and Administration Guide</i>.</p>

Module	Enhancements
Performance Enhancements	<ul style="list-style-type: none"> <li> <b>PPM Center performance improvements</b> <p>Version 9.30 implemented pagination enhancements to help improve PPM Center system performance. The total number of records for the following pages or portlets are not displayed by default for better system performance.</p> <ul style="list-style-type: none"> <li>The Request Search Results page</li> <li>The Java and builder portlets of the Requests category</li> </ul> <p>When there are entries on the next page, the page navigation buttons are enabled.</p> <p>For more information, see the <i>HP Demand Management User's Guide</i> and the <i>Installation and Administration Guide</i>.</p> </li> <li> <b>System performance log improvement</b> <p>PPM Center version 9.30 introduced a new parameter <code>ENABLE_ALL_PERFORMANCE_MONITOR</code> to generally control PPM Center monitors. If you set this parameter to <code>true</code>, you enable the UI monitor, the portlet monitor, and the Background Services monitor, regardless of whether these three monitors are enabled or not. If you set this parameter to <code>false</code>, the UI monitor, the portlet monitor, and the Background Services monitor are enabled or disabled according to their own parameters. When the parameter is set to <code>true</code>:</p> <ul style="list-style-type: none"> <li>If the latency of serving a URL request exceeds the threshold value specified in the <code>UI_MONITOR_THRESHOLD</code> parameter, the SQLs that have been executed when serving the URL request are recorded in the table <code>PPM_PERFORMANCE_LOG</code>.</li> <li>If a background services activity exceeds the threshold value specified in the <code>BACKGROUND_SERVICE_MONITOR_THRESHOLD</code> parameter, the SQLs that have been executed when running the activity are recorded in the table <code>PPM_PERFORMANCE_LOG</code>.</li> </ul> <p>For more information, see the <i>Installation and Administration Guide</i>.</p> </li> </ul>

## Certifications

The following certifications are included in PPM Center version 9.30:

- Support for IPv6

For details about enabling IPv6 support, see the *Installation and Administration Guide*.

- Support for Microsoft® Windows® Server 2012 R2 (Standard and Enterprise Edition, 64-bit) as PPM Server platform
- Support for Red Hat Enterprise Linux 6.4 (both 32- and 64-bit) as PPM Server platform
- Support for Java SE Development Kit (JDK) 7u45 (1.7.0 Update 45) or later update (available from Oracle)
- Support for VMware ESXi Server version 5.5 partition as PPM Server platform
- Support for Java 1.7.0 Update 51 or later update (32-bit and 64-bit) for all supported browsers
- Support for Microsoft® Windows® 8.1 Enterprise Edition (both 32-bit and 64-bit) as PPM Center client platform
- Support for Apache HTTP 2.4 as external Web server
- Support for Microsoft IIS 8.5 as external Web server on Microsoft® Windows® Server 2012 R2 platform
- Support for Oracle 11.2.0.4 (Standard and Enterprise Edition, RAC and Non-RAC) on all PPM Server platforms
- Support for the following browsers:
  - Internet Explorer 11 on Microsoft® Windows® 7 and 8.1 Enterprise Edition (both 32-bit and 64-bit)
  - Mozilla Firefox ESR 24.0
  - Google Chrome 36 or later

For more details, see the *System Requirements and Compatibility Matrix* for PPM Center version 9.30 (also available on [HP Manuals Site](#)).

## Upgrade Considerations

When you upgrade from version 9.1x to version 9.30, 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 ["Upgrade Impact" on page 22](#).

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 ["System Requirements and Configuration Updates" on page 35](#).

# Changed and New Document Titles

The table below lists the title changes made to documentation for PPM Center version 9.30.

PPM Center Version 9.20 and Earlier	PPM Center Version 9.30
N/A	Security Guide (added in 9.30)

## Related Information

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

- *Installation and Administration Guide*
- *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

## Chapter 2: Upgrade Impact

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" below](#)
- ["Customized Solutions" on page 30](#)
- ["Data Model Changes" on page 30](#)
- ["Entity Changes" on page 33](#)

### Upgrade Path

To upgrade to PPM Center version 9.30, you must have PPM Center version 9.20 (with or without service packs) installed. If an earlier version is installed, you must first upgrade to version 9.20, and then upgrade to PPM Center version 9.30. For information about how to upgrade to version 9.20, see the *Upgrade Guide* for version 9.20.

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 provide an overview of the Oracle database versions supported for the PPM Server in PPM Center versions 9.1x, 9.2x, and 9.30. 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 9.30 of PPM Center are shown in the lightly shaded areas in the following tables. Combinations shown in unshaded areas are supported for version 9.30 of PPM Center and may coincide with earlier supported environments.

**Note:** 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" below
- "Oracle" on the next page
- "HP-UX" on the next page
- "IBM AIX" on page 25
- "Red Hat Linux" on page 25
- "SUSE Linux" on page 26

## Microsoft Windows

**Table 1. Oracle database and Microsoft Windows platform support for PPM Center versions 9.1x, 9.2x, and 9.30**

<b>Oracle Version</b>	<b>Windows Server 2003, Windows Server 2003 SP2</b> Standard & Enterprise Edition (both 32-bit and 64-bit)	<b>Windows Server 2003 SP1</b> Standard & Enterprise Edition (32-bit)	<b>Windows Server 2003 R2, Windows Server 2003 R2 SP2</b> Standard & Enterprise Edition (both 32-bit and 64-bit)	<b>Windows Server 2008</b> Standard & Enterprise & Datacenter Editions (64-bit)	<b>Windows Server 2008 R2</b> Standard & Enterprise Editions (64-bit)	<b>Windows Server 2012 R2</b> 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	not supported
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	not supported
11.2.0.2 11.2.0.2 RAC	9.12~9.14, 9.2x	9.12~9.14, 9.2x	9.12~9.14, 9.2x	9.12~9.14, 9.2x, 9.30	9.12~9.14, 9.2x, 9.30	9.30
11.2.0.3 11.2.0.3 RAC	9.14, 9.2x	9.14, 9.2x	9.14, 9.2x	9.14, 9.2x, 9.30	9.14, 9.2x, 9.30	9.30
11.2.0.4 11.2.0.4 RAC	not supported	not supported	not supported	9.30	9.30	9.30

## Oracle

**Table 2. Oracle database and Oracle platform support for PPM Center versions 9.1x, 9.2x, and 9.30**

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, 9.2x, 9.30	9.12~9.14, 9.2x, 9.30	9.14, 9.2x, 9.30	9.2x, 9.30
11.2.0.3 11.2.0.3 RAC	9.14, 9.2x, 9.30	9.14, 9.2x, 9.30	9.14, 9.2x, 9.30	9.2x, 9.30
11.2.0.4 11.2.0.4 RAC	9.30	9.30	9.30	9.30
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 3. Oracle database and HP-UX platform support for PPM Center versions 9.1x, 9.2x, and 9.30**

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, 9.2x, 9.30	9.12~9.14, 9.2x, 9.30
11.2.0.3 11.2.0.3 RAC	9.14, 9.2x, 9.30	9.14, 9.2x, 9.30
11.2.0.4 11.2.0.4 RAC	9.30	9.30
a. Includes both PA-RISC and Itanium support for version 9.1x, and only Itanium support for version 9.20.		

## IBM AIX

**Table 4. Oracle database and IBM AIX platform support for PPM Center versions 9.1x, 9.2x, and 9.30**

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, 9.2x, 9.30	9.2x, 9.30
11.2.0.3 11.2.0.3 RAC	9.12~9.14	9.14, 9.2x, 9.30	9.2x, 9.30
11.2.0.4 11.2.0.4 RAC	not supported	9.30	9.30

## Red Hat Linux

**Table 5. Oracle database and Red Hat Linux platform support for PPM Center versions 9.1x, 9.2x, and 9.30**

Oracle Version	Red Hat Enterprise Linux AS 4.0 <sup>ac</sup>	Red Hat Enterprise Linux AS 5.0 <sup>bc</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, 9.2x, 9.30	9.2x, 9.30
11.2.0.3 11.2.0.3 RAC	9.12~9.14	9.14, 9.2x, 9.30	9.2x, 9.30
11.2.0.4 11.2.0.4 RAC	not supported	9.30	9.30

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

## SUSE Linux

**Table 6. Oracle database and IBM AIX platform support for PPM Center versions 9.1x, 9.2x, and 9.30**

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, 9.2x, 9.30	9.2x, 9.30
11.2.0.3 11.2.0.3 RAC	9.12~9.14	9.12~9.14, 9.2x, 9.30	9.2x, 9.30
11.2.0.4 11.2.0.4 RAC	not supported	9.30	9.30
<p>a. PPM Center version 9.1x support includes initial Enterprise 9 release and SP1 through SP4.</p> <p>b. PPM Center version 9.1x support includes initial Enterprise 10 release and SP1 through SP3.</p> <p>c. Both 32- and 64-bit platforms are supported.</p>			

## Extensions and Migrators Compatibility

- ["HP Deployment Management Extension for Oracle E-Business Suite" on the next page](#)
- ["HP Object Migrator and Mercury GL Migrator" on page 28](#)
- ["HP Deployment Management Extension for Oracle Technology" on page 30](#)

## 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 9.30 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**

Oracle E-Business Suite Version	HP Deployment Management Extension for Oracle E-Business Suite Version 9.30
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, 9.2x, 9.30
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, 9.2x, 9.30
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, 9.2x, 9.30
11.5.10 <sup>a, b</sup> Application Object Library: FND.H Applications DBA: AD.I Common Modules: AK.G Financials Suite: Family Pack F	9.10~9.14, 9.2x, 9.30

<b>Oracle E-Business Suite Version</b>	<b>HP Deployment Management Extension for Oracle E-Business Suite Version 9.30</b>
<b>11.5.10.2 (CU2) <sup>b</sup></b> Application Object Library: FND.H Applications DBA: AD.I.6 Common Modules: AK.G Financials Suite: Family Pack F	9.10~9.14, 9.2x, 9.30
<b>12.0.0–12.1.2</b> Applications Technology: R12.ATG_PF.A–R12.ATG_PF.B.DELTA.2 Applications DBA: R12.A–R12.AD.B.DELTA.1	9.10~9.14, 9.2x, 9.30
<b>12.1.3</b> Applications Technology: R12.ATG_PF.A–R12.ATG_PF.B.DELTA.3 Applications DBA: R12.A–R12.AD.B.DELTA.3	9.12~9.14, 9.2x, 9.30
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 9.30 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, 9.2x, and 9.30**

<b>Oracle E-Business Suite Version</b>	<b>Kintana Object*Mi-grator Version 5.1</b>	<b>Mercury Object Migrator Version 6.0</b>	<b>HP Object Migrator Version 7.5</b>	<b>Kintana GL*Migrator Version 2.0</b>	<b>Mercury GL Migrator Version 6.0</b>
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

<b>Oracle E-Business Suite Version</b>	<b>Kintana Object*Mi-grator Version 5.1</b>	<b>Mercury Object Migrator Version 6.0</b>	<b>HP Object Migrator Version 7.5</b>	<b>Kintana GL*Migrator Version 2.0</b>	<b>Mercury GL Migrator Version 6.0</b>
<b>11.5.7</b>  Application Object Library: FND.E  Applications DBA: AD.F  Common Modules: AK.D  Financials Suite: Family Pack A	9.10~9.14, 9.2x, 9.30	9.10~9.14, 9.2x, 9.30	9.10~9.14, 9.2x, 9.30	not supported	9.10~9.14, 9.2x, 9.30
<b>11.5.8</b>  Application Object Library: FND.F  Applications DBA: AD.G  Common Modules: AK.E  Financials Suite: Family Pack C	9.10~9.14, 9.2x, 9.30	9.10~9.14, 9.2x, 9.30	9.10~9.14, 9.2x, 9.30	not supported	9.10~9.14, 9.2x, 9.30
<b>11.5.9<sup>a</sup></b>  Application Object Library: FND.G  Applications DBA: AD.H  Common Modules: AK.F  Financials Suite: Family Pack D	9.10~9.14, 9.2x, 9.30	9.10~9.14, 9.2x, 9.30	9.10~9.14, 9.2x, 9.30	not supported	9.10~9.14, 9.2x, 9.30
<b>11.5.10 with FND.H Mini Pack<sup>a, b, d</sup></b>  Application Object Library: FND.H  Applications DBA:AD.I  Common Modules: AK.G  Financials Suite: Family Pack F	not supported	9.10~9.14,9.2x, 9.30	9.10~9.14, 9.2x, 9.30	not supported	9.10~9.14, 9.2x, 9.30
<b>11.5.10.2 (CU2)<sup>c, d</sup></b>  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, 9.2x, 9.30	9.10~9.14, 9.2x, 9.30	not supported	9.10~9.14, 9.2x, 9.30

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
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> , 9.2x, 9.30	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> , 9.2x, 9.30 <sup>e</sup>	not supported	not supported
<p>a. 11.5.8 with the FND.G Mini Pack is functionally equivalent to 11.5.9.</p> <p>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).</p> <p>c. See the HP Object Migrator Oracle Apps Version 11.5.10.2 Compatibility Patch (#174141) Readme for details.</p> <p>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.</p> <p>e. Apply the patch to Object Migrator 7.5 that makes it compatible with R12.1.2.</p>					

## 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.

## 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 9.20.

## Tables

Table 2-9 details the changes to tables in PPM Center version 9.30 as compared to PPM Center version 9.2x. Some new tables have been introduced, and some existing tables have been modified.

**Table 2-9. Table changes in 9.30**

Table	Impact
RPT_FCT_FM_BENEFIT_ CELLS	Added in Content Pack 2.0
RPT_FCT_REQUEST_ TRANSACTIONS	Added in Content Pack 2.0
RPT_DIM_REQUESTS	Modified in Content Pack 2.0
RPT_FCT_FM_FCST_ ACTUAL_CELL	Modified in Content Pack 2.0
RPT_FCT_FM_APPROVED_ BUDGETS	Modified in Content Pack 2.0
ITG_AUDIT_EVENTS	Modified in 9.30
TM_USERS_BILLING_APPROVERS	Modified in 9.30
TM_USERS_TIME_ APPROVERS	Modified in 9.30
RSC_SIMPLE_ASK_ALLOCATIONS	Modified in 9.30
RSC_RESOURCE_ASSIGNMENTS	Modified in 9.30
RSC_POSITIONS	Modified in 9.30
TM_ACTUALS_EFFORT	Modified in 9.30
FM_COST_RATE_RULE_UPDATES	Modified in 9.30
FM_CRR_QUEUE_ ENTRIES	Modified in 9.30
RSC_RP_ NOTIFICATION_ SETUPS	Modified in 9.30
RSC_STAFFING_PROFILES	Modified in 9.30
PM_PROJECT_TYPES	Modified in 9.30
KNTA_LOGON_ATTEMPTS	Modified in 9.30
KNTA_WEBSESSION_KEYS	Modified in 9.30
PPM_SERVICE_JOB_STATUS	Modified in 9.30

Table	Impact
ITG_PENDING_ ROLLUPS	Modified in 9.30
RSC_SIMPLE_ASK_EFFORTS	Added in 9.30
KNTA_LICENSE_DATASOURCE	Added in 9.30
PPM_FM_COST_SNAP_SHOT	Added in 9.30
PPM_FM_COST_AUDIT	Added in 9.30
PPM_FM_COST_AUDIT_RATE	Added in 9.30
PPM_FM_PLAN_VALUE	Added in 9.30
PPMIC_WORKPLAN_MAPPING	Added in 9.30
TM_PENDING_APPROVERS_EVALS_TMP	Added in 9.30
FM_COST_FACTOR_VALS_HISTORY	Added in 9.30
FM_COST_RATES_HISTORY	Added in 9.30
FM_COST_RULES_HISTORY	Added in 9.30
PPM_PURGE_HISTORY	Added in 9.30
KINS_PED	Added in 9.30
KINS_PED_OVERRIDE_DTL	Added in 9.30
RSC_RESOURCE_DELEGATIONS_HIST	Added in 9.30

## Views

Table 2-10 lists the views that have been changed or added since PPM Center version 9.30.

**Table 2-10. View changes in 9.30**

View	Impact
RPT_REQ_<Request_Type>	Added in Content Pack 2.0
RPT_TC_<Table_Component>	Added in Content Pack 2.0
RPT_DIM_PORTFOLIO_MANAGERS_MV	Added in Content Pack 2.0
RPT_DIM_WORKFLOW_STEPS	Added in Content Pack 2.0

View	Impact
RPT_DIM_PORTFOLIOS	Added in Content Pack 2.0
RPT_DIM_FM_BENEFIT_MV	Added in Content Pack 2.0
RPT_DIM_FM_BENEFIT_LINE_MV	Added in Content Pack 2.0
RPT_DIM_PROJECTS_MV	Modified in Content Pack 2.0
RPT_DIM_PROGRAMS_MV	Modified in Content Pack 2.0
RPT_FCT_FM_FA_APPROVED_MV	Modified in Content Pack 2.0
KCRT_IS_DELEGATED_USER_V	Added in 9.30
KNTA_USERS_LOOKUPS_V	Added in 9.30
KPMO_PROGRAM_RISKS_V	Added in 9.30
KPMO_PROGRAM_SCOPE_CHANGES_V	Added in 9.30
KPMO_PROG_RESOURCE_REQUESTS_V	Added in 9.30
KTMG_RESOURCE_SETTINGS_V	Added in 9.30
KCRT_PARTICIPANT_CHECK_V2	Added in 9.30
KCRT_PARTICIPANT_CHK_NO_DLG_V	Added in 9.30
KTMG_TIME_SHEET_LINES_SIMPLE_V	Added in 9.30
KNTA_RESTRICT_RT_SG_MIGD_V	Deleted in 9.30

For details about data table changes, see the *Data Model Guide* for PPM Center version 9.30.

## 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 9.20. Some changes were introduced in service packs or minor releases, as noted.

- ["Background Services Changes" on the next page](#)
- ["Report Types Changes" on the next page](#)
- ["Special Commands Changes" on the next page](#)

## Background Services Changes

Entity Name	Impact
Integration SDK Sync Service (renamed from Agile Solution Sync Service)	Modified in 9.30

## Report Types Changes

Entity Name	Impact
ETL Job History	Added in 9.30
Demand Vs Capacity Report	Added in 9.30
Financial Summary Report	Added in 9.30
Project Status List Report	Added in 9.30
Time Sheet Compliance Report	Added in 9.30

## Special Commands Changes

Entity Name	Impact
ksc_create_baseline_staffing_profile	Added in 9.22

# Chapter 3: System Requirements and Configuration Updates

This chapter highlights the system software and configuration changes for PPM Center version 9.30 (unless otherwise indicated).

**Note:** 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 9.30.

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**

Parameter Name	Change History	Description
TABLE_COMP_USE_LEGACY	Removed in 9.30	Determines whether the original layout of a table component is used. If set to <code>true</code> , the original layout is applied.

**Table 3-1. New or modified server configuration parameters, continued**

Parameter Name	Change History	Description
ENABLE_UNNAMED_RESOURCE_ALLOCATION	Removed in 9.30	<p>If set to <code>true</code>, enables allocation of unnamed resources.</p> <p>Only when both of the following conditions are met, a user is able to make promise assignments:</p> <ul style="list-style-type: none"> <li>• The parameter is set to <code>true</code>, and</li> <li>• The user has the Resource Mgmt: Promise Unspecified Resources access grant.</li> </ul> <p>If the parameter is <code>true</code>, but the user does not have the access grant, then the user cannot make promise assignments; If the parameter is <code>false</code>, the user cannot make promise assignments irrespective of the access grant.</p> <p><b>Note:</b> This parameter is not used since PPM Center version 8.00. The <code>ENABLE_PROMISE_RESOURCE_ALLOCATION</code> is used instead.</p>
MAX_RESULT_OF_AUDIT_EVENT_QUERY	Added in both 9.14 and 9.30	Specifies the maximum number of audit event query results. The default value is 1000.
SEARCH_ALL_REQUEST_TYPE	Added in both 9.14.0010 and 9.30	Setting this parameter to <code>true</code> , you can find all request types listed in the Request Type auto-complete list on the Search Request page. However, you are still not able to see the requests that you have no access to.
APP_SERVER_MULTICAST_PORT	Removed in 9.30	Port used by JBoss's HAPartition service to coordinate cluster nodes. All nodes in the cluster must use the same value. Specify a value that is different than the value set for <code>MULTICAST_PORT</code> or the value for the cache multicast port in <code>cache.conf</code> (which is hardcoded to 46545).
APP_SERVER_NAMING_SERVICE_RMI_PORT	Removed in 9.30	JBoss Naming Service RMI port. You must set a value for this parameter if the PPM Server is part of a server cluster.

**Table 3-1. New or modified server configuration parameters, continued**

Parameter Name	Change History	Description
APP_SERVER_NAMING_SERVICE_BINDING_PORT	Removed in 9.30	JBoss Naming Service binding port. You must set a value for this parameter if the PPM Server is part of a server cluster.
APP_SERVER_WEBSERVICE_PORT	Removed in 9.30	JBoss WebService port. You must set a value for this parameter if the PPM Server is part of a server cluster.
APP_SERVER_JRMP_INVOKER_RMI_PORT	Removed in 9.30	JBoss JRMP Invoker RMI port, which must be defined if the PPM Server is part of a server cluster.
APP_SERVER_POOLED_INVOKER_BINDING_PORT	Removed in 9.30	JBoss Pooled Invoker Binding port. You must set a value for this parameter if the PPM Server is part of a server cluster.
APP_SERVER_HAJNDI_RMI_PORT	Removed in 9.30	JBoss HA-JNDI RMI port. Set a value for this parameter if the PPM Server is part of a server cluster.
APP_SERVER_HAJNDI_BINDING_PORT	Removed in 9.30	Port to which the HA-JNDI server binds as it waits for JNP clients. Define this port if the PPM Server is configured as a node in a server cluster.
APP_SERVER_POOLEDHA_BINDING_PORT	Removed in 9.30	JBoss PooledHA Binding port. You must set a value for this parameter if the PPM Server is part of a server cluster.
APP_SERVER_JMX_RMI_PORT	Removed in 9.30	JBoss JMX RMI port. Set a value for this parameter if the PPM Server is part of a server cluster.
JNDI_LOOKUP_PORT	Removed in 9.30	Port to which the HA-JNDI server binds as it waits for JNP clients. Its value is taken from the APP_SERVER_HAJNDI_BINDING_PORT parameter.

**Table 3-1. New or modified server configuration parameters, continued**

Parameter Name	Change History	Description
SERVER_LOCALE_COUNTRY_CODE	Added in 9.22	<p>Country code for the default regional settings.</p> <p>Add this parameter to the <code>server.conf</code> file manually and set a country code value to specify the default regional settings. The default value is <code>null</code>. Valid values are any two-letter abbreviation of a country in uppercase. For example, if you want to set the default regional settings to United States, set this parameter value to <code>US</code>.</p> <p>This parameter works together with <a href="#">SERVER_LOCALE_LANGUAGE_CODE</a> to ensure that PPM Center groups all PPM Center users and non-PPM Center users together when sending notifications.</p>
SERVER_LOCALE_LANGUAGE_CODE	Added in 9.22	<p>Language code for the default display language.</p> <p>Add this parameter to the <code>server.conf</code> file manually and set a language code value to specify the default display language. The default value is <code>null</code>. Valid values are any two-letter abbreviation of a language in lowercase. For example, if you want to set the default display language to English, set this parameter value to <code>en</code>.</p> <p>This parameter works together with <a href="#">SERVER_LOCALE_COUNTRY_CODE</a> to ensure that PPM Center groups all PPM Center users and non-PPM Center users together when sending notifications.</p>

**Table 3-1. New or modified server configuration parameters, continued**

Parameter Name	Change History	Description
USE_SERVER_LOCALE_FOR_NOTIFICATIONS	Added in 9.30	Flags whether or not to check notification recipient regional settings. Setting the value to <code>true</code> ignores users' regional settings when sending email notifications, and uses the values of server configuration parameters <a href="#">SERVER_LOCALE_COUNTRY_CODE</a> and <a href="#">SERVER_LOCALE_LANGUAGE_CODE</a> instead. This ensures that recipients are not split into different groups according to their regional settings.
REQUEST_SEARCH_RESULTS_SHOW_TOTAL_NUMBER_OF_RECORDS	Added in both 9.22.0002 and 9.30	Flags whether or not to show total number of records for the request search results pages. The default value is <code>false</code> for better system performance.
SSH2_JSCH_DISABLE_STRICT_HOST_KEY_CHECKING	Added in both 9.22.0001 and 9.30	If set to <code>true</code> , the SSH2 client will connect to the remote host even when its key is not in the list of the trusted hosts ( <code>known_hosts</code> file).
SSH2_JSCH_KNOWN_HOSTS_FILE_PATH	Added in both 9.22.0001 and 9.30	When a value is defined in this parameter (valid file path), PPM Center will use it as <code>known_hosts</code> file to validate keys of the trusted hosts it connects to.
ENABLE_TM_WORK_ITEM_EXTERNAL_DATA	Added in 9.22	If set to <code>true</code> , the <b>External Data</b> option is available in the following PPM Workbench windows: <ul style="list-style-type: none"> <li>On the Work Items and Activities tabs of the Tim Sheet Policy window</li> <li>In the Work Item Type drop-down list (under the Dependencies section) of the Override Rule window</li> </ul>
MAX_CONCURRENT_AGM_REST_CALL_FOR_TIMESHEET	Added in 9.22	Specifies the maximum number of concurrent users to import time information from HP Agile Manager. The default value is 10 and the recommended value range is 1-50.

**Table 3-1. New or modified server configuration parameters, continued**

Parameter Name	Change History	Description
REQUEST_LINK_ALM_ENTITY_STATUS	Added in 9.22	Setting the parameter value to false disables the PPM Center defect workflow driven synchronization between PPM Center request status and ALM entity status. The default value is true.
SMTP_PORT	Modified in 9.30	Port used to connect to the SMTP server when sending notifications.
SMTP_AUTH_USERNAME	Added in 9.30	Username of SMTP authentication.
SMTP_AUTH_PASSWORD	Added in 9.30	Encrypted password of SMTP authentication.
SMTP_USE_SSL	Added in 9.30	Specifies whether or not to connect to SMTP server using SSL.
SMTP_USE_STARTTLS	Added in 9.30	Specifies whether or not to connect to SMTP server using STARTTLS.
RMO_OPTIMIZE_CONCURRENT_THRESHOLD	Added in 9.30	Specifies the maximum number of concurrent threads for the feature Resource Management Optimization supported by the system.
RMO_OPTIMIZE_AMOUNT_THRESHOLD	Added in 9.30	Specifies the maximum amount of data to be handled by the feature Resource Management Optimization.
RMO_OPT_CONCURRENT_TIMEOUT	Added in 9.30	Specifies the timeout (in milliseconds) of the feature Resource Management Optimization.
ENABLE_CONC_FILES_RETRIEVAL	Added in 9.30	<p>Flags whether PPM server retrieves log/output files from Oracle E-Business Suite server or not.</p> <p>With the Oracle Apps (the extension for Oracle E-Business Suite) and the extension for Oracle Technology deployed on PPM Server, you may encounter performance issue with PPM server retrieving log/output files from Oracle EBS server. For better performance, you can add this parameter into the <code>server.conf</code> file manually and set the parameter value to <code>false</code> to switch off the log/output files retrieval. The default value is <code>true</code>.</p>

**Table 3-1. New or modified server configuration parameters, continued**

Parameter Name	Change History	Description
EXCEL_EXPORT_POSITIONS_LIMIT	Added in 9.30	Specifies the maximum number of positions that can be exported to Excel on the Forecast Planning page. The default value is 2,000.
EXCEL_EXPORT_RESOURCES_LIMIT	Added in 9.30	Specifies the maximum number of resources that can be exported to Excel on the Search Resources page. The default value is 3,000.
JSP_COMPILE_EXCLUDE_FOLDERS	Added in 9.30	<p>If JSP_RECOMPILE_ENABLED is set to true, changes made to JSP files inside the folders specified by the JSP_COMPILE_EXCLUDE_FOLDERS server configuration parameter are picked up on a running server, thereby quickly making them visible.</p> <p>Default: web/knta/rpt;web/knta/test.</p>
TM_REEVALUATE_COUNT	Added in 9.30	Specifies the amount of the Reevaluate Time Sheet information handled by the Evaluate TM Approvers service.
TM_MAX_TIME_APPROVER_WARNING_COUNT	Added in 9.30	Specifies the maximum number of time approvers of time sheet lines allowed by the system before it throws warning.
TM_MAX_BILLING_APPROVER_WARNING_COUNT	Added in 9.30	Specifies the maximum number of billing approvers of time sheets allowed by the system before it throws warning.
TM_MAX_TIME_APPROVER_ERROR_COUNT	Added in 9.30	Specifies the maximum number of time approvers of time sheet lines allowed by the system before it throws error.
TM_MAX_BILLING_APPROVER_ERROR_COUNT	Added in 9.30	Specifies the maximum number of billing approvers of time sheets allowed by the system before it throws error.

**Table 3-1. New or modified server configuration parameters, continued**

Parameter Name	Change History	Description
ENABLE_ALL_PERFORMANCE_MONITOR	Added in 9.30	If you set this parameter to <code>true</code> , you enable the UI monitor, the portlet monitor, and the Background Services monitor, regardless of whether these three monitors are enabled or not. If you set this parameter to <code>false</code> , the UI monitor, the portlet monitor, and the Background Services monitor are enabled or disabled according to their own parameters.

## logging.conf File Changes

This section describes the changes to the logging parameters (located in the `logging.conf` file) in version 9.30.

The logging parameters listed in [Table 3-2](#) 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 3-2 New or modified logging parameters**

Parameter Name	Change History	Description
ENABLE_SMTP_LOGGING	Added in both 9.22.0003 and 9.30	If set to <code>true</code> , mail notification for critical exceptions is enabled.
SMTP.To	Added in both 9.22.0003 and 9.30	The recipient of the notification.
SMTP.From	Added in both 9.22.0003 and 9.30	The sender of the notification.  If not specified, the email address of the sender is derived from <code>EMAIL_NOTIFICATION_SENDER</code> in the <code>server.conf</code> file.
SMTP.Subject	Added in both 9.22.0003 and 9.30	The subject of the notification mail.
SMTP.Filter.RegexToMatch	Added in both 9.22.0003 and 9.30	The keyword or regular expression to be monitored.

**Table 3-2 New or modified logging parameters, continued**

Parameter Name	Change History	Description
SMTP.Filter.LevelMin	Added in both 9.22.0003 and 9.30	The lowest log level to be monitored.
SMTP.Filter.LevelMax	Added in both 9.22.0003 and 9.30	The highest log level to be monitored.
SMTP.delayBetweenChecksInSeconds	Added in both 9.22.0003 and 9.30	The time interval (in seconds) to check message queues.
SMTP.SMTPDebug	Added in both 9.22.0003 and 9.30	If set to <code>true</code> , enables displaying debug information when mail notification is sent out.
SMTP.BufferSize	Added in both 9.22.0003 and 9.30	The buffer queue length
REPORTING_JDBC_URL	Added in 9.30	Locator for the database that contains the Operational Reporting database schema
REPORTING_DB_USERNAME	Added in 9.30	Username for the Operational Reporting database schema
REPORTING_DB_PASSWORD	Added in 9.30	Password for the Operational Reporting database schema

## license.conf File Changes

The `license.conf` file is deprecated in version 9.30 as a result of the PPM Center licensing mechanism change.

For more information about the new licensing mechanism that PPM Center follows, see the *Installation and Administration Guide*.

## Chapter 4: Server Directory Structure and Server Tools Changes

This section addresses changes made to the server directory structure and server tools.

### <PPM\_Home>/bin

Changes were made to the following scripts contained in the <PPM\_Home>/bin directory:

Script Name	Change History	Description
kBudgetBenefitImport.sh	Removed in 9.30	Obsolete
kStandaloneDeploy.sh	Removed in 9.30	Obsolete
kClusterDeploy.sh	Removed in 9.30	Obsolete
kChangeNameDisplay.sh	Modified in 9.30	The parameter h is changed to full_name_format, this means that you run the script as follows:  sh ./kChangeNameDisplay.sh [-full_name_format] <Full_Name_Format>
kLicenseReader.sh	Removed in 9.30	Obsolete

Script Name	Change History	Description
kLicenseInstall.sh	Added in 9.30	<p>After you have generated an Autopass license (a .dat file or several .dat files that HP sent to you) from the HP Licensing for Software portal (<a href="http://www.hp.com/software/licensing">http://www.hp.com/software/licensing</a>), and that you have successfully installed or upgraded to PPM Center version 9.30, use the kLicenseInstall.sh script to install the Autopass license key file(s). The newly installed Autopass license(s) override the trial or evaluation licenses.</p> <p>To install an Autopass license key file, run the command as follows:</p> <pre>sh ./kLicenseInstall.sh &lt;Autopass_License_File_Path&gt;</pre> <p>where, &lt;Autopass_License_File_Path&gt; is the full path of the Autopass license key file you save on your machine.</p> <p>For example,</p> <pre>sh ./kLicenseInstall.sh C:\AutopassLicense.dat</pre>

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