

HP Project and Portfolio Management Center

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HP Project Management User's Guide

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- Document release date, which changes each time the document is updated
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1 Getting Started with Project Management

In This Chapter:

- *Introduction to Project Management*
 - *Related Documents*
-

Introduction to Project Management

HP Project Management enables organizations to streamline and standardize the management of project activities using a template-based, collaborative approach.

Project Management defines the step-by-step processes required to complete specific tasks and deliverables, guiding users through a dynamic, self-documenting process to support activities such as the execution of standardized checklists or the collection of deliverables using document attachments. For more information on setting up project processes and related items, see [Chapter 2, *General Setup Considerations*, on page 21](#).

Using project types, the business rules that govern a project or set of projects can be formalized. Policies can be set governing various aspects of a project, including schedule health, task auditing, and project security. At least one project type must be created before you can create and manage projects. For more information on setting up project types, see [Chapter 3, *Configuring Project Types*, on page 35](#).

When creating a project, you may be able to adjust policies handed down by the project type, as well as decide whether to include a work plan, budget, or staffing profile. Project security can also be defined. See [Chapter 4, *Creating a Project*, on page 57](#), for more details on creating a project.

Work plans can be defined as hierarchical structures of summary tasks that logically group and organize tasks or activities. See [Chapter 5, *Creating a Work Plan*, on page 65](#), for details on creating a work plan. Once the work plan structure is in place, task details can be configured in batches or one at a time, depending on the nature of the changes. See [Chapter 6, *Configuring Tasks*, on page 91](#), for more details on task-to-task navigation.

Work plan templates can also be used to create pre-set work plan structures that are ready to use. See [Chapter 9, *Using Work Plan Templates*, on page 173](#), for more details on the use of work plan templates, including converting existing work plans into templates.


As the project executes, managers can make use of the Project Overview page to view important project metrics such as health indicators, milestones, and issues. See [Chapter 7, *Managing a Project*, on page 111](#), for details on the use of the Project Overview page as well as project management activities such as taking baselines and revising the work plan.

Project teams can easily manage work plan activities within and across the technology chain because all team members, whether internal or external, collaborate and interact through an intuitive interface. [Chapter 8, *Updating*](#)

Tasks: Resource Activities, on page 155, explains how resources on a project locate, update, modify, and report on tasks to which they are assigned.

For example, when creating a new and updated version of a business system, a company could classify its efforts into summary tasks for each major functional area.

- Each of these functional summary tasks could be further broken down into tasks directed to areas such as web content, application and database tasks.
- These tasks can be linked to requests and packages from HP Demand Management and HP Deployment Management, giving instant visibility to more detailed activities supporting an overall work plan. Tasks can also have constraints and notifications configured on an individual basis. See [Chapter 6, *Configuring Tasks*, on page 91](#), for more information.
- In conjunction with HP Resource Management, role and skill assignments can be tracked against resource availability. Resource utilization can also be measured, visualized, and optimized.

 To make use of their full range of features, resources and resource-related configurations should be set up in Resource Management prior to using Project Management. For more detailed information, see [Chapter 2, *General Setup Considerations*, on page 21](#), or the *HP Resource Management User's Guide*.

- In conjunction with HP Time Management, time sheets can be used for actuals reporting on project-related work. See [Chapter 11, *Integration with HP Time Management*, on page 209](#), for more details.
- As the project executes, risks, issues, and proposed scope changes can be submitted along preconfigured project control processes and tracked at the Project Overview level.
- As the project executes, different sets of users may be called upon to evaluate and move the project along its pre-defined lifecycle.
- Baselines of the work plan can be taken at any time, providing a basis for work plan performance comparisons.
- Work plan cost data is tracked at the task level, and can be used to analyze trends and patterns via earned value analysis. Costs can be automatically calculated or manually entered, and actual costs can be automatically rolled up into the project budget.
- Project Management also supports standard integration with Microsoft® Project so that functions such as task scheduling and resource management can be utilized at any point during a work plan's execution. See [Chapter 10, *Integrating Project Management with Microsoft Project*, on page 179](#), for more detailed information.

Related Documents

Related documents for this book are:

- *HP Demand Management User's Guide*
- *HP Deployment Management User's Guide*
- *HP Resource Management User's Guide*
- *HP Time Management User's Guide*
- *HP Time Management Configuration Guide*
- *Security Model Guide and Reference*

2 General Setup Considerations

In This Chapter:

- *Overview of General Setup Considerations*
 - *Setting Up Resources*
 - *Setting Up Regions*
 - *Configuring HP Project Management Validations*
 - *Configuring the Project Details Tab*
 - *Configuring the Project Process*
 - *Configuring Project Control Processes*
 - *Setting Up Project Types*
 - *Setting Up Activities*
 - *Setting Up Task User Data*
 - *Setting Up Time Management Integration*
 - *Setting Up Microsoft Project Integration*
-

Overview of General Setup Considerations

There are several configuration steps that should be completed before you start to make use of HP Project Management. Some of these steps are required in order for you to take full advantage of HP Project Management functionality; others are optional depending on how much you want HP Project Management to fit your business processes.

In general, the configuration and setup work is as follows:

1. Set up resources and resource pools.

HP Resource Management allows you to create resource information for each user of HP Project and Portfolio Management Center, including details such as:

- Role
- Skill profile
- Organization unit
- Individual resource calendar

In order to assign a resource to a project's staffing profile or work plan, the resource must belong to a resource pool you manage. Resources that belong to other resource pools can be requested using standard staffing profile functionality.

See [Setting Up Resources on page 25](#) for more details on this step.

2. Set up regions.

Regions are associated with each project and resource. They define attributes such as:

- Calendar
- Holidays
- Normal working days and hours
- Default currency

See [Setting Up Regions on page 26](#) for more details on this step.

3. (Optional) Configure HP Project Management validations.

Lists of values for certain fields can be tailored to suit your business needs through validations, which can be edited in the PPM Workbench.

See *Configuring HP Project Management Validations on page 27* for more details on this step.

4. (Optional) Configure fields displayed in the **Project Details** tab in the Project Overview page.

The fields in the **Project Details** tab are preconfigured content, but they can be modified to suit your business needs. At a minimum, the security settings for these fields should be reviewed.

See *Configuring the Project Details Tab on page 29* for more details on this step.

5. (Optional) Configure the project process in the PPM Workbench.

The project process is modeled in a preconfigured workflow that can be configured in the PPM Workbench to suit your business needs. At a minimum, the security settings for the workflow and its steps should be reviewed.

See *Configuring the Project Process on page 30* for more details on this step.

6. (Optional) Configure project control processes.

Project issues can be submitted against a particular project to raise issues that require attention. Once submitted, project issues follow their own workflow to resolution. Project issue fields and behavior, as well as the underlying workflow, can be configured in the PPM Workbench to suit your business needs. Similar management tools are provided for project risks and scope changes.

See *Configuring Project Control Processes on page 30* for more details on this step.

7. Set up project types.

Every project is created from a project type, which contains project policies that you can preconfigure for ease of use, or even lock down when appropriate. In order to create a project, you must first configure at least one project type. The Enterprise project type comes preconfigured, but should be reviewed to ensure that it suits your business needs.

See *Setting Up Project Types on page 32* for more details on this step.

8. (Optional) Set up activities.

Tasks in the project work plan can be associated with activities, which can be used for Statement of Position (SOP) 98-1 tracking, classifying tasks as capital or operating expenses when they are actualized. If you choose not to activate SOP 98-1 tracking, activities can still be associated with tasks as a categorization tool.

See *Setting Up Activities* on page 32 for more details on this step.

9. (Optional) Set up integration with HP Time Management.

Setup for Time Management integration is mostly done on the project type level, but before using Time Management for reporting on project-related work activities, you should ensure that each resource has the proper permissions and delegations set up in Time Management. See the *HP Time Management User's Guide* and *HP Time Management Configuration Guide* for more information.

10. (Optional) Set up integration with Microsoft Project.

HP Project Management can integrate with Microsoft Project. In order to take advantage of this integration, there are a few server settings that must be configured.

See *Setting Up Microsoft Project Integration* on page 34 for more details on this step.

11. (Optional) Set up task user data.

Task user data are custom fields that can be associated with every task in HP Project Management.

See *Setting Up Task User Data* on page 33 for more details on this step.

Setting Up Resources

Resources in HP Project Management can be tracked to optimize their time and capabilities with HP Resource Management. HP Resource Management allows a project manager to:

- Set a calendar for each resource, determining total availability as well as specifying vacation days
- (Optional) Assign a primary skill and role to a resource
- View resource load by time period, work plan, or individual
- Analyze and search resource availability

Resource pools can be used to track the supply of resources and are also necessary for work plan assignments. Each resource expected to be assigned to a project staffing profile or directly to a work plan must belong to a resource pool managed by the project manager. Either of the following project resource management strategies can be employed:

- If your resources are not being actively managed, you can place all possible project resources into a single resource pool and designate all possible project managers as the resource pool's managers. This allows you to select any resource for your project staffing profile or work plan.
- If your resources are being actively managed in such a way that their time must be requested from their managers, a staffing profile should be used. This allows you to request resources from a resource pool you don't manage using HP Resource Management functionality. The resource's manager will approve or reject the request.

Resources (including calendar information) and resource pools should be set up in HP Resource Management before creating a project in HP Project Management. Roles and skills should also be set up even if you do not intend to associate them with resources.

See the *HP Resource Management User's Guide* for detailed information on how to perform these tasks.

Cost rates for individual resources are set using cost rate rules, which are controlled through HP Financial Management. See the *HP Financial Management User's Guide* for detailed information on cost rate rules and their setup.

The following useful tasks can also be performed using HP Resource Management:

- Mapping of resources into an organization model and tying organization units to security groups
- Projecting the allocation of resources over time using staffing profiles

See the *HP Resource Management User's Guide* for additional details.

Setting Up Regions

Regions are set up in HP Resource Management and contain their own calendars. These regional calendars specify the following:

- Number of hours in a working day
- Working days for each week
- Holidays

A project can then be associated with a region for accurate project and resource scheduling.

See the *HP Resource Management User's Guide* for detailed information on setting up regions and regional calendars.

Configuring HP Project Management Validations

Values for certain fields in PPM Center are controlled by validations that are configurable or extensible. To change the list of possible values in a field, you must open its validation in the PPM Workbench and edit it from there.



Configurable or extensible validations only exist for fields associated with the **Project Details** tab of the Project Overview page and the project control processes. Values for work plan fields cannot be changed.

The Business Unit field on the **Project Details** tab of the Project Overview page is an example of a static list validation, which provides a static list of options to the user. A static list validation can be a drop-down or an auto-complete list component.

To add values to the validation list:

1. Log on to PPM Center and open the PPM Workbench.
2. From the shortcut bar, click **Configuration > Validations**.
3. On the **Query** tab of the Validation Workbench window, click **List**.

The **Results** tab opens, displaying the results of the search.

4. Select **PFM - Business Units** and click **Open**.

The Validation window opens with the Business Unit field's validation loaded.

5. Click **New**.

The Add Validation Value window opens.

6. Provide information for the validation value as described in the following table.

Field	Definition
Code	The underlying code for the validation value. The code is the value stored in the database or passed to any internal functions, and is rarely displayed.
Meaning	The displayed meaning for the validation value in the drop-down list or auto-complete.

Field	Definition
Desc	A description for the validation value.
Enable?	Determines whether the validation value is enabled. This should be checked if you want the value to appear in the field.
Default	Determines whether the value is the default value for the list. This value is initially displayed in drop-down lists (this is not used for auto-complete lists). There can be only one default value per list.

- (Optional) Set the validation value as the default by selecting the **Default** field.

The default option is only available for drop-down lists.

- Click **OK** to close the window and add the value to the validation. Click **Add** to add the value and keep the Add Validation Value window open.

Validation values can be re-ordered using the up and down arrow icons. The sequence of the validation values determines the order that the values are displayed in the list.

- When you are done adding values to the validation, click **Save** or **OK** in the Validation window to save the new values.



You can copy existing values defined in other validations using the **Copy From** button. Click **Copy From** and query an existing list-validated validation and choose any of the validation values. Click **Add** or **OK** in the Copy From window and the selected value or values are added to the list.



Be careful when creating validations (drop-down lists and auto-complete lists) that are validated by lists. Each time the set of values changes, you will be forced to update the validation. Consider, instead, validating using a SQL query or PL/SQL function to obtain the values from a database table.

For more information on editing and creating validations of various types, see the “Working with Validations” chapter in the *Commands, Tokens, and Validations Guide and Reference*.

Configuring the Project Details Tab

The **Project Details** tab of the Project Overview page contains fields delivered as preconfigured content for projects.

Figure 2-1. Project Overview page: Project Details tab

Project: ERP Service Pack - Sept 2006 ■ Yellow

Project Status: Business Readiness Sign-Off ■ Project Phase: Project
 Project Manager: Joseph Banks ■ Project Plan Period: August 2006 to September 2006 ■ Project Region: MercuryUS

Project Settings | **Configure Participants**

Project Summary | **Project Details** | Project Exceptions | References

Description:
 Request Status: Business Readiness Sign-Off ([View Full Status Below](#))

Available Actions

[Expand All](#) | [Collapse All](#) After making changes to this project's details, you must click the "Save" button before navigating away from this tab. [Save](#)

Header
Summary

Project No.: 30091 Created By: Admin User
 Driving Process: FFM - Project
 Business Unit: Status: Business Readiness Sign-Off
 Description:
 Project Dependencies:

Details
Project Details

Project Name: Project Class:
 Project Health: Yellow Asset Class:
 Business Objective: Project Sponsor:
 Project Manager: Actual Start Date:
 Actual Start Date: Actual Complete Date:
 Planned Start Period: Planned Finish Period:

Business Case Details
 Value Ratings
 Risk Ratings
 Request Type Fields

Notes No Notes Exist

Status

Seq	Workflow Step Name	Step Status	Completed By	Date
1	Assign Project Manager	Completed	Admin User	August 1, 2006 08:58:14 PM PDT
2	Detailed Project Definition	Approved	Admin User	August 1, 2006 08:58:25 PM PDT
3	Business Readiness Sign-Off	Business Readiness Sign-Off (View Available Actions)		August 1, 2006 08:58:25 PM PDT
5	Requirements			
7	Design			
8	Construct			
9	Test			
10	Deploy			
11	Create Asset			
13	Project Cancelled			
15	Project Completed			

[Expand Steps](#) | [Collapse Steps](#) [Graphical View](#) | [Approval Details](#) | [Transaction Details](#) [Cancel Request](#)

After making changes to this project's details, you must click the "Save" button before navigating away from this tab. [Save](#)

These fields do not need to be set up or altered in any way before you start using HP Project Management, but if you want to change them, they can be customized to suit your business needs in the following ways:

- Individual field names and values can be changed.
- Fields themselves can be configured to be hidden, visible, or read-only depending on what stage has been reached in the project process, which is driven by the workflow discussed in *Configuring the Project Process*.

These fields and their workflow interactions are contained and defined by a request type that can be altered in the PPM Workbench.

For detailed discussion of this request type and workflow configuration, see the *HP Project Management Configuration Guide*.

Configuring the Project Process

The project process is determined by a workflow in PPM Center. This workflow is delivered as best-practice content ready for you to use in HP Project Management, but if you want to change it, it can be customized to match your organization's project execution process. Steps in the workflow can also be configured to integrate with fields on the **Project Details** tab in the Project Overview page, determining whether they are visible or editable.

For detailed discussion of this request type and workflow configuration, see the *HP Project Management Configuration Guide*.

Configuring Project Control Processes

HP Project Management includes specialized project control items that can be submitted and managed during project execution as HP Demand Management requests:

- Issues can be filed against a particular project to raise issues that require attention.
- Risks can be brought up to highlight risks that may endanger project execution.
- Scope changes can be requested to adjust the scope of the project.

Figure 2-2. Project scope change

Create New Project Scope Change Request

Expand All Collapse All Submit

Header

Summary

Scope Change Status: Not Submitted

Created By: Admin User Assigned To:

*Project:

Priority: *CR Level: Business Impact Severity:

*Description:

Details

Scope Change Details

Assigned Release: Target Implementation Date:

Detailed Description:

Benefit of Proposed Change:

Alternatives:

List of Impacted Deliverables:

Impact Summary:

Financial Impact: \$ Schedule Impact (in days):

Notes

Notes to be added on save:

References

Submit Cancel

Once submitted, these requests follow their own workflows to resolution. Each request type and its workflow are delivered as best-practice content ready for you to use, but if you want to change them, they can be customized to match your project control processes. The following project control request aspects can be changed to suit your business needs:

- Individual fields and possible values can be changed.
- Fields themselves can be configured to be hidden, visible, or read-only depending on what stage has been reached in the workflow.
- The workflows can be changed.

For detailed discussion of these project control request types and workflow configuration, see the *HP Project Management Configuration Guide*.

Setting Up Project Types

All projects are created from project types. A project type is used to default or impose the business rules that will be used to manage a new project. Project types include policies for different aspects of managing the project, including:

- What types of actuals are collected
- Whether built-in project costing or HP Time Management are used for the project
- Whether the project will include a work plan

Project types and their policies must be set up before you can begin creating projects. For detailed discussion of configuring project types, see [Chapter 3, *Configuring Project Types*](#), on page 35.

Setting Up Activities

Activities are simple configuration entities that can be associated with tasks in the project work plan. Activities marked as capitalized are used in this capacity for Statement of Position (SOP) 98-1 tracking, and will categorize the costs of associated tasks as capital if the project supports capitalization. If you choose not to activate SOP 98-1 tracking, activities can still be associated with tasks as a categorization tool, and any associated costs will be considered operating expenses.

You do not need to configure activities nor associate them with tasks if you are not interested in SOP 98-1 tracking, or if you do not wish to track task categories to this level of granularity. HP Project Management comes with a pre-defined set of activities reflecting common SOP 98-1 categories that can be configured for use with tasks.

For detailed discussion of configuring activities and activity behavior, see the *HP Financial Management User's Guide*.

Setting Up Task User Data

Task user data are custom fields that can be associated with every task on a work plan. If you have no need of custom fields for tasks on your work plans, then you do not need to configure task user data.

For detailed discussion of task user data setup, see the *HP Project Management Configuration Guide*.

Setting Up Time Management Integration

HP Time Management can be used in conjunction with HP Project Management for detailed entry of time and effort actuals using time sheets. Time sheets have their own sets of approvers and approval processes, and can be used for more granular cost reporting.

Setup for Time Management integration is mostly done on the project type level, but before using Time Management for reporting on project-related work activities, you should ensure that each resource has the proper permissions and delegations set up in Time Management. See the *HP Time Management User's Guide* and *HP Time Management Configuration Guide* for more information.

A few configuration tasks must be completed before using HP Time Management with HP Project Management. They are as follows:

- Ensure that users who will be updating project actuals through Time Management have the proper licenses and access grants
- Ensure that project managers have the proper access grants to approve time sheets submitted by users
- For each project, ensure that the proper project settings have been configured for Time Management integration

For detailed discussion of HP Time Management integration, see [Chapter 11, Integration with HP Time Management](#), on page 209.

Setting Up Microsoft Project Integration

HP Project Management integrates with Microsoft Project, allowing you to create a work plan in either application and synchronize scheduling and actuals information between the two. For example, if you are more comfortable creating work plans in Microsoft Project, but want to take advantage of HP Project Management's project participant functionality (such as the My Tasks portlet), you can create a work plan in Microsoft Project and send it to HP Project Management.

There are a few tasks that must be completed before using HP Project Management with Microsoft Project. See the *HP Project Management Configuration Guide* for more details.

For more detailed discussion of Microsoft Project integration, see [Chapter 3, Configuring Project Types](#), on page 35.

3 Configuring Project Types

In This Chapter:

- *Overview of Configuring Project Types*
 - *Project Types*
 - *Project Policies*
 - *Working with Project Types*
 - *Setting Project Policies*
 - *Project Fields*
 - *Work Plan*
 - *Request Types*
 - *Scheduling*
 - *Schedule Health*
 - *Cost and Effort*
 - *Cost and Earned Value Health*
 - *Microsoft Project Integration*
 - *Staffing Profile Assignments*
 - *Project Health*
 - *Issue Health*
 - *Task Auditing*
 - *Project Security*
-

Overview of Configuring Project Types

This chapter discusses project types and project policies, and gives instructions on how to create and modify them.

Project Types

Each project is associated with a project type on creation. A project type is used to default or impose the business rules, or *Project Policies*, that will be used to manage a new project. At least one project type must be created in order for you to be able to create projects in Project Management, though an Enterprise project type is included with Project Management upon installation.

You can define ownership of each project type, allowing you to control which users can make changes to that project type. This can be useful when multiple organizations within a business maintain their own project types. You can also define limits on who can use a given project type to create projects. Project types can be copied. Project types can also be disabled, but any project currently using that project type will be unaffected.

Project Policies

A project type includes policies for a project concerning:

- Which health metrics will be tracked for the project, as well as threshold levels for each health color
- Security and audit controls for the project
- The request type that will define the fields on the **Project Details** tab and drive the project process
- Costing exception rules that will be used to calculate indicators showing costing and earned value violations
- Whether the project will include a work plan
- What types of actuals are collected
- Rules that govern work plan scheduling
- Scheduling exception rules that will be used to calculate indicators showing a scheduling problem
- Whether built-in project costing or HP Time Management are used for the project
- Settings for Microsoft Project integration

- Settings dictating the items that count as workload for resources for the project

The project type and its policies determine a project's settings.

Enforcing Project Policies

For each policy, the project type determines whether projects using the project type will be allowed to modify the associated settings. When you create a project using a project type with overridable policies, you can change the corresponding settings on that project as needed.

For example: A project type called “Alpha Project” is created for Company A. “Alpha Project” has an overridable **Cost and Effort** policy. A manager creates a project using the “Alpha Project” type, and changes the **Cost and Effort** settings to suit the needs of the project at hand. The manager cannot change any other settings, as they are non-overridable.

For projects that are already in progress, changing a project type policy or its override status has the following effects:

- Changing an overridable policy to non-overridable will change that policy for projects in progress, switching their settings to match the new policy if settings were altered previously.
- Changing a non-overridable policy to an overridable policy has no effect on projects in progress.
- Making a change to a non-overridable policy changes the settings on projects in progress to match the new policy.
- Making a change to an overridable policy has no effect on projects in progress.

In cases where changes to a project type will cause recalculation of data, such as changes to exception thresholds, these calculations are deferred for processing.

Making Changes to Policies that Do Not Propagate

Certain policies do not propagate changes to existing projects, even if they are set to be non-overridable. These policies are:

- Cost and Effort
- Microsoft Project Integration
- Work Plan Template (changes do propagate, but do not alter existing work plans)

If you want to make changes to a project type policy that does not propagate, following the general procedure outlined below:

1. Identify a time when system activity is low.
2. On the project type, unlock the project policy.
3. Open existing projects and change the settings on each where allowed.
4. On the project type, lock the project policy.

Working with Project Types

To create a project type:

1. Log on to PPM Center.
2. From the menu bar, select **Administration > Project Types & Templates > Create a Project Type**.

The Create Project Type page opens.

3. Type a **Project Type Name** and, optionally, a **Description**.
4. Set the desired project policies as described in *Setting Project Policies*.
5. Click **Create**.

Setting Project Policies

Project policies are grouped into related areas. These policies become the settings for a project created from the project type they belong to.

To set project policies, click the button corresponding to the policy you want to edit and make the necessary changes before clicking **Save**.

Project Fields

The **Project Fields** policy controls the fields tracked by a work plan. Selecting the checkbox or option next to a field activates it. Some fields contained in the **Project Fields** policy are required in order for you to take full advantage of HP Project Management functionality, and should be left active.

Figure 3-1. Project Fields policy

Project Fields

Some fields must be used by Project Management and are always enabled.

Schedule Fields

Fields enabled here will be available for entry and viewing in the work plan. The Scheduled Effort field is enabled or disabled by the Cost and Effort policy.

- Scheduled Start
- Scheduled Finish
- Scheduled Duration
- Scheduled Effort (controlled by the Cost and Effort policy)

Actuals Fields

Actuals fields track the progress of the work plan execution. Fields enabled here will be available for entry and viewing in the work plan. Effort fields are enabled or disabled by the Cost and Effort policy.

- % Complete
- Actual Start
- Actual Finish
- Actual Duration (always system-calculated)
- Actual Effort (controlled by the Cost and Effort policy)
- Estimated Remaining Effort (controlled by the Cost and Effort policy)
- Estimated Finish Date

Additional Fields

- Activity (used to categorize tasks, recommended for Capitalization)
- Role (used to categorize resources, recommended for Work Load and Project Staffing)

Milestone Display

You can control which milestones are visible in the Milestones tile on the Project Overview page. Milestones are identified as Major Milestones in the Edit Task page.

- Display Major Milestones only

Table 3-1 describes the fields controlled by the **Project Fields** policy.

Table 3-1. Project Fields policy (page 1 of 2)

Field Name	Description
Schedule Fields section	
Scheduled Start	The scheduled start for a task.
Scheduled Finish	The scheduled finish for a task.
Scheduled Duration	The scheduled duration for a task.
Scheduled Effort	Allows you to specify scheduled effort per task. This field is controlled by the Cost and Effort policy.
Actuals Fields section	
% Complete	The amount of the task that has been completed.
Actual Start	The date at which work on the task actually begins.
Actual Finish	The date at which work on the task actually ends.
Actual Duration	The actual duration of the task, calculated from the Actual Start and Finish.

Table 3-1. Project Fields policy (page 2 of 2)

Field Name	Description
Actual Effort	Allows you to enter actual effort values for each task. This field is controlled by the Cost and Effort policy.
Estimated Remaining Effort	Allows you to specify an estimated remaining effort value for each task. This field is controlled by the Cost and Effort policy.
Estimated Finish Date	Allows you to specify an estimated finish date for each task.
Additional Fields section	
Activity	Allows you to assign an activity to a task; used primarily for SOP 98-1 tracking.
Role	Allows you to specify a role for each task.
Milestone Display section	
Major Milestones	Allows you to identify tasks as “major milestones” that appear on the Project Overview page.

Work Plan

The **Work Plan** policy allows you to specify whether a project will have a work plan, as well as suggest or enforce a specific work plan template to be used with the project type. This policy’s override behavior is as follows:

- If you specify a work plan template in the **Work Plan Template** field and set the policy to non-overridable, a project created from this project type can only create a work plan based on this work plan template. Moreover, the default work plan template cannot be changed.
- If you specify a work plan template in the **Work Plan Template** field and set the policy to overridable, the manager for a project created from this project type can choose to create the work plan from the default template, another template, or manually.
- If you do not specify a work plan template, the policy is set to overridable by default. This should be done for project types that do not require a specific work plan template.

For more detailed information on work plan templates, see [Chapter 9, Using Work Plan Templates](#), on page 173.

Figure 3-2. Work Plan policy

The screenshot shows a configuration window titled "Work Plan". At the top, there is a checked checkbox labeled "This project will include a work plan". Below this is a section titled "Work Plan Template" with a descriptive paragraph: "Select a default work plan template to use when creating new work plans. The work plan template selected here will provide the user with guidance when creating a work plan for the project. If this policy is enforced, then new project work plans can only be created from this template. Changes to this setting, even if enforced, do not impact existing project work plans." At the bottom, there is a label "Work Plan Template:" followed by a text input field and a small icon.

Request Types

The **Request Types** policy specifies the following items:

- The request type that controls the fields which appear in the **Project Details** tab of the Project Overview page. This request type is also associated with the workflow that drives the overall project process. This item is required.

If you have installed HP Portfolio Management, this request type will also represent the project in your portfolio. See the *HP Portfolio Management Configuration Guide* for more details.

- The request type (and, implicitly, the associated workflow) used to report and resolve project issues.
- The request type (and, implicitly, the associated workflow) used to report and resolve project risks.
- The request type (and, implicitly, the associated workflow) used to report and resolve project scope changes.

Figure 3-3. Request Types policy

The screenshot shows a configuration window titled "Request Types". It contains a descriptive paragraph: "This policy identifies the request types associated with this project. The Project Process Request Type identifies the request type (and workflow) that models the project's overall process as well as project-level data fields. When a project is created, a request using this request type is also created. This request will be used by Portfolio Management to identify the project, if Portfolio Management is in use. The project process request type associated with a project cannot be changed after the project is created." Below this is a label "Project Process Request Type:" followed by a text input field containing "PFM - Project" and a small icon. A horizontal line separates this from the next section, which has the instruction: "Identify the request types to be used for your project control processes. Request types specified here will be used when creating issues, risks, and scope changes from the project overview page." Below this are three labels: "Issue Request Type:", "Risk Request Type:", and "Scope Change Request Type:", each followed by an empty text input field and a small icon.

Scheduling

The **Scheduling** policy specifies options that govern how the work plan is scheduled, including:

- Default start date to schedule the work plan from
- Resource dependency
- Critical path threshold
- Scheduling warning rules


Figure 3-4. Scheduling policy

Scheduling

Scheduling settings control how the scheduler interprets existing data in order to schedule the work plan.

When the work plan scheduler runs, it schedules the project forward from a start date, respecting the constraints and dependencies defined in the work plan. You can provide a default date from which to schedule.

Optionally, you can have the scheduler take into consideration any actual start and finish dates when scheduling the project, re-adjusting project work based on these dates.

Default Start Date: 

Use actual start and actual finish dates when available.

Include days in schedule when:

All resources are available

At least 1 resource is available

Include all working days from calendar (ignore resource availability).

Critical Path Threshold: Day(s)

Schedule Warning Rules

Schedule warnings identify structural problems or inconsistencies in the work plan. These warnings appear in the work plan after the work plan has been scheduled and also when changes to work plan schedule information are saved. Enable the display of warnings via the Configure Display option in the work plan.

Project Date Conflicts
This warning occurs when the work plan dates extend beyond the project's Planned Start Period or Planned Finish Period. It also occurs when the constraint defined on the task is outside the project's Planned Start Period or Planned Finish Period.

Dependency Conflicts
These warnings occur when a predecessor dependency defined for the task could not be honored because other constraints or task information prevents it.

Constraint Inheritance Conflicts
These warnings occur when there is a direct conflict between the constraints defined for a task and its parents, such that only one can be satisfied. Both related tasks are marked.

Resources Could Not Be Scheduled
The scheduler could not identify sufficient available working days for the assigned resources to schedule the task. This warning is evaluated only when the scheduler runs.

Task Constraint Could Not Be Met
This warning occurs when the constraint defined on the task could not be honored because other conflicting information takes precedence.

Default Start Date

This part of the **Scheduling** policy controls the default start date from which tasks are scheduled. This is set on each project, regardless of whether the policy is set to non-overrideable. This is used to set a consistent date from which to schedule the work plan, no matter what occurs during the planning process.

The policy also determines whether the scheduler considers existing actual start and finish dates for tasks when rescheduling. By default actual dates are considered.

For example, once a work plan becomes Active, its tasks can be marked In Progress. When tasks are marked In Progress, actual start dates are specified for that task. If the project is set to use actual start/finish dates in scheduling, the **In Progress** tasks will move to start on their actual start dates.

Resource Dependency

Every business initiative has some minimum resource requirements, usually in the form of available personnel. HP Project Management checks to ensure that resources are assigned on their working days. The **Include days in schedule when** options can be set to consider resource requirements when creating the work plan schedule. For instance, it is possible for the **Scheduling** policy to set the project to ignore resource availability and schedule accordingly.

The default configuration is set to require all resources to be available on any given day. When creating the work plan schedule, HP Project Management will only consider days when all resources are present.

Critical Path Threshold

A work plan's critical path is the series of tasks that determines the duration of the project. The **Critical Path Threshold** is the amount of slack (the amount of time that a task may be delayed from its start without delaying the project) specified as the threshold for identifying a task as part of the critical path. Tasks with slack less than or equal to this value are on the critical path. Use of a threshold allows the project manager to control the degree of risk tolerated in management of the work plan.

Schedule Warning Rules

You can select which **Schedule Warning Rules** are used to alert the project manager about potential structural problems when scheduling a work plan. Schedule warnings are calculated whenever task data is saved, so they can be used even without using the scheduler.





HP Project Management will only issue warnings based on the schedule warning rules you have selected.

Schedule Health

The **Schedule Health** policy controls the project's schedule health indicator, as well as determining the active exception rules for a project.

Figure 3-5. Schedule Health policy

Schedule Health	
Allow project managers to override these settings? <input checked="" type="radio"/> Yes <input type="radio"/> No	
Below are the configurations for the scheduling exception rules.	
Health	
Percent of tasks that must have Exceptions to turn the Project Health Red 	60
Percent of tasks that must have Exceptions to turn the Project Health Yellow 	30
Exception Rules	
<input checked="" type="checkbox"/> Unassigned tasks	<input checked="" type="checkbox"/> Include in Health
No resource is assigned and the scheduled start date occurs in 3 Day(s)	
<input checked="" type="checkbox"/> Unassigned Effort	<input checked="" type="checkbox"/> Include in Health
Some effort is unassigned and the scheduled start date occurs in 3 Day(s)	
<input checked="" type="checkbox"/> Tasks or milestones finishing late	<input type="checkbox"/> Include in Health
Task or milestone is not yet "Complete", and you have passed the scheduled finish date by 3 Day(s)	
<input checked="" type="checkbox"/> Tasks or milestones starting late	<input checked="" type="checkbox"/> Include in Health
Task or milestone is not yet "In Progress", and you have passed the scheduled start date by 3 Day(s)	
<input type="checkbox"/> Late estimated finish	<input type="checkbox"/> Include in Health
Estimated finish date is past the scheduled finish date by 3 Day(s)	
<input checked="" type="checkbox"/> Predecessor has an exception	<input type="checkbox"/> Include in Health
This milestone depends on tasks that have exceptions	
<input checked="" type="checkbox"/> Critical path running late	<input type="checkbox"/> Include in Health
A task on the critical path to this milestone is running late	
<input checked="" type="checkbox"/> External predecessor has an exception	<input type="checkbox"/> Include in Health
An external predecessor to this task has an exception.	

Schedule Health Indicator

The project's schedule health indicator is a simple color-coded indicator of the health of a work plan. A project only has a schedule health indicator when the work plan is **Active**; it disappears when the work plan is completed or put **On Hold**. A project's schedule health indicator color begins green and changes to yellow or red depending on the percentage of tasks identified as contributing to work plan health that have triggered exceptions (completed tasks are ignored). This percentage is configured by this policy. A project's schedule health indicator will not be calculated until the project is saved.

For example: A project is created from a project type whose **Scheduling Exception Rules** policy sets the threshold value for yellow to 30%. Four tasks trigger an exception in a work plan consisting of ten tasks total. The schedule health indicator turns yellow, and will remain yellow until at least two tasks are reworked until they no longer trigger exceptions (this could be accomplished by changing a start date, or modifying resources, or starting the tasks). Once this occurs, the schedule health indicator turns green.

Scheduling Exception Rules

Projects come with a set of predefined exception rules. The **Schedule Health** policy can specify which exception rule(s) are to be enabled, as well as the criteria needed to trigger them. As discussed above, the policy can also set the schedule health indicator, which is a simple color-coded indicator of the schedule health of a project. The schedule health indicator watches for schedule exceptions that have been triggered, and changes color according to the policy.

This can be a good way to keep track of high-risk projects. For example, for a project type with a very low margin for error, the policy can set the percentage of triggered exceptions needed to change the schedule health indicator red to 20, giving clear early warning of problems.

The **Schedule Health** policy controls the exception rules relating to project scheduling and execution.

The following parameters for almost all exception rules are configurable:

- **Enabled.** Project managers can decide whether or not the particular exception rule is enabled.
- **Rule (number of days).** Specifies the number of days the particular exception rule waits for or monitors.
- **Include in Health.** Decides whether or not the violations of the particular exception rule are included in the schedule health indicator (see [Schedule Health Indicator](#)).

Each exception rule within the policy can be configured independently.

Cost and Effort

The **Cost and Effort** policy dictates how the costs, effort, and workload for the project will be managed, including how this information flows between project entities such as the work plan, staffing profile, budget, and time sheets, if any. The policy determines whether financial information will be tracked for projects, how actuals are captured, and how costs are calculated. If you have installed HP Time Management to capture actuals, this policy controls the Time Management settings for a project type. If you do not have HP Time Management or choose not to use it, you can select and configure HP Financial Management options.

Figure 3-6. Cost and Effort policy

Cost and Effort

Resource Load Settings

Work Load Category: Strategic Projects

Staffing Profile represents the work load imposed by the project
 It is recommended that you use the staffing profile as the planned work load for your project. This allows the project manager to plan and schedule the project in phases without concern that the resources will appear unutilized.
 In this option, the staffing profile represents both planned and actual resource load. Planned load is always entered directly on the staffing profile. Actual load can be entered directly on the staffing profile or on the work plan or time sheets.

Enter actuals directly on the staffing profile
 Use actual information from the work plan and Time Management when viewing actuals in the staffing profile
Actual Effort must be tracked on the work plan in order to use this option.

Work plan task assignments represent the work load imposed by the project
 This option is only recommended for short projects when the work plan is fully defined and scheduled. Scheduled Effort and Actual Effort must be tracked on the work plan in order to use the work plan as work load.

Scheduled Effort in the Work Plan

Use Scheduled Effort during planning
 Tracking Scheduled Effort in the work plan is required when automatically calculating planned costs or when the work plan represents resource work load.

Automatically calculate Scheduled Effort
 Manually enter Scheduled Effort per task assignment

Allow override of effort calculation made in the work plan

Actual Effort in the Work Plan

Track Actual Effort per resource assignment
 Tracking Actual Effort in the work plan is required when automatically calculating actual costs, when using Time Management to track actuals against the work plan, or when the work plan represents resource work load.

Track Estimated Remaining Effort per resource assignment
 Tracking Estimated Remaining Effort is not allowed when using Time Management to track actuals against the work plan at a summary task or project level. Once actuals have been entered, this option cannot be deselected.

Time Management

Use Time Management to track actuals against this project.
 You can integrate with Time Management if your organization uses time sheets, allowing resources to enter their actuals data in a single location.

Track time at the:

Task level
 Summary tasks at hierarchy level: 2
Not available when tracking Estimated Remaining Effort

Project level
Not available when tracking Estimated Remaining Effort

Allow the following to report time on this project:

Project resources
Resources assigned to tasks, resources on the staffing profile, and summary task owners.

Assigned resources
Resources can log time against tasks to which they are assigned, or (if tracking time at a summary task or project level) to summary tasks above them in the project hierarchy.

All resources
All resources who can see the project can log time against it.

After a task is complete, allow time to be logged:

0 Day(s) more
 0 Time period(s) more (for time period in which the task is complete, enter 0)
 Any time
 Do not allow. Resources cannot add tasks that are complete to their timesheets.

Time logged against this project must be approved by a project representative from the following group:

Participant Group: Project Managers
 Security Group

Financial Management

Allow capitalized costs on this project

Enable Financial Management for Work Plan

Planned costs will be:

Automatically calculated based on scheduled effort and rates
 Manually entered on tasks and rolled up to summary tasks

Actual labor cost on the workplan will be:

Automatically calculated based on actual effort and rates
 Manually entered on tasks and rolled up to summary tasks

Roll up actual costs from the work plan into the project budget

Automatically. Both the labor and non-labor costs are rolled up from the project information.
 Partially. The labor costs are rolled up from the project information. The non-labor costs are manually entered.
 Manually. Actual costs will be entered manually in the project budget.

Resource Load Settings

HP Resource Management automatically keeps track of resource workload and availability. These settings determine how to track workload for a project type.

HP Resource Management allows you to attach a staffing profile to a project to track resource demand and usage. You can choose between the following options:

- **Staffing Profile represents the work load imposed by the project.** You can then choose whether to enter actuals on the staffing profile manually, or roll actuals from the work plan or HP Time Management up to the staffing profile. In order for rollup to work, you must enable the tracking of actual effort in this policy, described in *Actual Effort in the Work Plan*. For more information on staffing profiles, see the *HP Resource Management User's Guide*.
- **Work plan task assignments represent the load imposed by the project.** In order for this option to be selected, you must enable the tracking of scheduled and actual effort in the work plan, described below.

Scheduled Effort in the Work Plan

You can decide whether to track the scheduled effort needed to accomplish each task in the work plan. This is required if you are setting the project to automatically calculate the planned cost of tasks (set in the **Cost and Effort** policy under *Financial Management*), or if the work plan task assignments are set to represent resource load (set in the **Cost and Effort** policy under *Resource Load Settings*).

If you decide to **Use Scheduled Effort during planning**, you can then choose to have the system automatically calculate it, or enter it manually. Additionally, you can choose to allow the calculation method to be changed in the work plan on a task-by-task basis.

Actual Effort in the Work Plan

You can decide whether to track actual effort per resource assignment during the execution of a project. This is required when automatically calculating actual costs, when using HP Time Management to track actuals for the work plan, or when work plan task assignments represent resource work load.

If you decide to **Capture Actual Effort per resource assignment**, you can also choose whether to **Capture Estimated Effort per resource assignment**. This setting cannot be used in conjunction with HP Time Management if you are tracking time at anything other than the task level, nor can it be changed once actuals have been captured.

Time Management

If you choose to enable HP Time Management for this policy, there are a range of options to configure, described in *Table 3-2*.

Table 3-2. Cost and Effort policy: Time Management settings

Field Name	Description
Use Time Management to ...	Enables tracking of actuals using HP Time Management time sheets.
Track time at the ...	Specify whether to track time at the task, summary task, or project level. You can specify the summary task hierarchy level to track down to. If you are using HP Time Management to track actuals and are also capturing estimated effort, you can only track time at the task level.
Allow the following ...	Specify whether you want Project resources, All resources , or only Assigned resources to track time. <ul style="list-style-type: none"> ■ Project Resources indicates that resources assigned to tasks on the work plan or who appear on the staffing profile can log time on any task. ■ Assigned Resources indicates that only resources who are assigned to a task can report time on those tasks. ■ All resources indicates that any resource who can see the project (including stakeholders) can log time for any task.
Allow time to be logged after ...	Specify whether time can be logged after a task completes, and if so, for how long.
Time logged against this project ...	Specify whether time logged against the project needs to be approved by a project representative.
Project Time Approver	Specify who can approve time logged against the project, either by participant group or specific security group.

Financial Management

HP Financial Management can calculate certain costs automatically depending on the fields that are enabled:

- In order to automatically calculate planned costs for the work plan, you must first enable the Scheduled Effort field as described in *Scheduled Effort in the Work Plan*.
- In order to automatically calculate actual costs for the work plan, you must first enable the Actual Effort field as described in *Actual Effort in the Work Plan*.

If you choose to enable HP Financial Management for this policy, there are a range of options to configure, described in *Table 3-3*.

Table 3-3. Cost and Effort policy: Financial Management settings

Field Name	Description
Allow capitalized costs ...	Specify whether the project will track capitalization for costs, identifying all costs as either capital or operating expenses according to the activity assigned to each task. Changes to this setting will affect the capitalization tracking for the budget associated with the project, if one exists. Capitalization information will only be tracked if capitalization tracking has been enabled on the PPM Server. See the <i>HP Financial Management User's Guide</i> for more detailed information.
Enable Financial Management for Work Plan	Enables tracking of work plan costs using HP Financial Management.
Planned costs will be:	Specify whether planned costs will be automatically calculated based on scheduled effort and rates, or manually entered.
Actual labor cost will be:	Specify whether actual labor cost will be automatically calculated based on actual effort and rates, or manually entered.
Roll up actual costs ...	Specify whether actual cost values will roll up to the budget associated with the project, if any. You can choose to roll up labor and non-labor costs, actual costs only, or no cost data at all.

Cost and Earned Value Health

The **Cost and Earned Value Health** policy controls whether to track the cost health for a project, and if so, which metrics will be evaluated to determine health. It is used to indicate the health of a project in terms of its cost. Project cost health is calculated in the following areas:

- **If CPI is less than.** CPI, the Cost Performance Index, is the cost efficiency ratio of the project's Earned Value (Baseline Costs * % Complete) to Actual Costs. CPI is calculated as Earned Value / Actual Cost. For a healthy project, CPI should be near 1.
- **If SPI is less than.** SPI, the Schedule Performance Index, is the difference in value between the scheduled completion of a task/project and its actual completion. SPI is calculated as Earned Value / Planned Value. For a healthy project, SPI should be near 1.
- **If actual costs exceed the prorated budget by.** This is a comparison of project costs to date with the portion of the budget planned to have been spent to date.

Any one of these factors can be enabled or disabled when calculating work plan cost health, but if more than one factor is enabled, the indicator represents the factor in the worst condition. If one factor out of three turns red, the cost health turns red.

Figure 3-7. Cost and Earned Value Health policy

Table 3-4 details the default color change values for each relevant cost health factor.

Table 3-4. Default color change values for cost health indicator

Color changes to	CPI less than	SPI less than	Prorated budget exceeded by
Yellow	.95	.95	5
Red	.8	.8	20

Microsoft Project Integration

HP Project Management and Microsoft Project can be integrated, allowing you to perform tasks such as:

- Opening a Microsoft Project file in HP Project Management
- Sending a HP Project Management work plan to Microsoft Project
- Using Microsoft Project to maintain the work plan while collecting actuals through HP Project Management

The **Integration with Microsoft Project** policy controls the level of integration between the two applications. For more detailed discussion of these settings, see *Project-Level Settings for Integration* on page 196.

Figure 3-8. Microsoft Project Integration policy

Microsoft Project Integration

Below are the settings for integration with Microsoft Project. Projects using this project type will inherit these default settings.

Integration Mode

Integration mode for the project work

PPM controls all shared work plan information

Microsoft controls all shared work plan information

Control is shared

- Work breakdown information is controlled by Microsoft
- Actuals tracking information is controlled by PPM

Transferring PPM Information to Microsoft

During integrations where PPM controls all shared work plan information or tracks actuals, resources will be automatically created in Microsoft.

Resource mapping is done based on:

PPM username

PPM full name: first name, a space, and last name.

PPM full name: last name, a space, first name.

If you are using PPM to track actuals you may want to transfer that information to Microsoft.

Transfer actuals information:

Percent Complete

Percent Complete and Actual Dates

Actual Efforts

Microsoft Storage Location for PPM System Information

During integration PPM needs to store information in Microsoft custom fields to track system information. We recommend using the default locations unless you have existing custom extensions in Microsoft. We also strongly recommend that you do not alter this configuration after a work plan has been integrated.

PPM task information requires 1 Microsoft task custom field:

Number20 ▾

PPM resource information requires 1 Microsoft resource custom field:

Number20 ▾

PPM assignment information requires 1 Microsoft assignment custom field:

Number20 ▾

During integrations where control is shared and changed actuals are retrieved from PPM, PPM uses additional Microsoft custom fields.

Two date fields hold a snapshot of the Start/Finish dates:

Start10/Finish10 ▾

Flag field one indicates tasks with changed actuals:

Flag20 ▾

Highlight color for tasks with changed actuals:

Red ▾

Flag field two indicates tasks with dates impacted by the changed actuals:

Flag19 ▾

Highlight color for tasks with dates impacted by changed actuals:

Blue ▾

Staffing Profile Assignments

HP Resource Management allows you to attach a staffing profile to a project to track resource demand and usage. The **Staffing Profile Assignments** policy allows you to specify a default resource pool to which all resource requests for the staffing profile will be routed. For more information on staffing profiles, see the *HP Resource Management User's Guide*.

Figure 3-9. Staffing Profile Assignments policy

The screenshot shows a configuration window titled "Staffing Profile Assignments". It includes a section "Allow project managers to override these settings?" with radio buttons for "Yes" (selected) and "No". Below this is a descriptive paragraph: "Each position in the project's staffing profile identifies a resource pool from which to request a resource assignment. You can default the resource pool used by the staffing profile when new positions are created." At the bottom, there is a label "By default route resource requests for staffing profile positions to the resource pool:" followed by an empty text input field and a help icon.

Project Health

The project summary condition indicator that appears on the Project Overview page next to the project name is an indicator of the project's overall health as a weighted average of the health indicators for *Scheduling*, *Cost and Earned Value Health*, and *Issue Health*.

Figure 3-10. Project health indicators

Schedule	Issues	Cost

The **Project Health** policy controls the relative weights of these indicators. By default, each indicator is counted equally. To change the weighting for the summary condition calculations, enter a weight value in the appropriate field next to the desired indicator.

The **Project Health** policy also controls whether project managers can override the project's calculated health.

Figure 3-11. Project Health policy

The screenshot shows a configuration window titled "Project Health". It includes a section "Allow project managers to override these settings?" with radio buttons for "Yes" (selected) and "No". Below this is a section titled "Health Weights" with a descriptive paragraph: "A project's overall health is a weighted average of the schedule, cost, and issue health. Below you can specify the weights that will be used in the weighted average calculation." There are three input fields: "Schedule Weight:" with value "1", "Cost Weight:" with value "1", and "Issue Weight:" with value "1". Below this is a section titled "Overriding The Health" with a descriptive paragraph: "The Health can be overridden for a period of time by project participants. Doing so suppresses the computed health above in favor of a manually specified condition color." At the bottom, there is a checked checkbox labeled "Allow Project Participants to override the project's calculated health".

Issue Health

While a project is in progress, any number of issues may come up that need to be submitted and resolved using the project issue request. The real-time status of a project in terms of the issues submitted against it is represented by the issue health indicator, a colored icon similar to the indicators for *Scheduling* and *Cost and Earned Value Health*.

Figure 3-12. Project health indicators

Schedule	Issues	Cost
□	□	□

The **Issue Health** policy determines whether issue health is tracked for a project, and also controls the following factors in issue health indicator calculation:

- The weight of each issue priority.

The issue priorities that appear in this policy are determined by the validation for the Priority field, which is extensible.

- The total weight needed to change issue health indicator color.

As the weight and indicator color change values are pure numerical totals and not relative percentages, you may want to plan accordingly for project types that are expected to generate large numbers of issues.

Figure 3-13. Issue Health policy

Issue Health

Allow project managers to override these settings? Yes No

Track issue health for this project

The Issue Health of the project is determined by adding up the weights of all of the project's issues. Below you can specify the weight for the issue, based on its Priority.

Priority	Weight
Low	<input type="text" value="0"/>
Normal	<input type="text" value="1"/>
High	<input type="text" value="3"/>
Critical	<input type="text" value="5"/>

Health

The project's issue health is ■ when the weights of all open issues total at least:

The project's issue health is ■ when the weights of all open issues total at least:

Task Auditing

HP Project Management can maintain an audit trail of changes to task fields in addition to a history for task status, which is always recorded. The **Task Auditing** policy controls which of these fields will be recorded. You must enable a field through the *Project Fields* policy in order to maintain a transaction history for it.

Figure 3-14. Task Auditing policy

Task Auditing	
Allow project managers to override these settings? <input checked="" type="radio"/> Yes <input type="radio"/> No	
Below are task attributes that can be audited. Changes in the task status will always be included in the audit trail.	
Field	Track Transaction History
% Complete:	<input type="checkbox"/>
Activity:	<input checked="" type="checkbox"/>
Actual Duration:	<input type="checkbox"/>
Actual Effort:	<input type="checkbox"/>
Actual Finish Date:	<input type="checkbox"/>
Actual Start Date:	<input type="checkbox"/>
Description:	<input type="checkbox"/>
Estimated Finish Date:	<input type="checkbox"/>
Estimated Remaining Effort:	<input type="checkbox"/>
Major Milestone:	<input type="checkbox"/>
Predecessors:	<input type="checkbox"/>
Priority:	<input type="checkbox"/>
Project Manager/Resource:	<input type="checkbox"/>
Role:	<input checked="" type="checkbox"/>
Scheduled Duration:	<input type="checkbox"/>
Scheduled Effort:	<input checked="" type="checkbox"/>
Scheduled Finish Date:	<input type="checkbox"/>
Scheduled Start Date:	<input type="checkbox"/>

Project Security

The **Project Security** policy determines the users who are able to view the project and its cost data.

For viewing the project itself, choose between:

- **All Users**
- **Only participants (Project Managers, Summary Task Owners, Assigned Resources, Assigned Resource Groups, Stakeholders, and Process Participants)**

For viewing project cost data (budget, financial benefit, cost information), choose between:

- **All Users that can view the project and its tasks**

- **Project Managers and Stakeholders**
- **Project Managers, Stakeholders, Summary Task Owners and Process Participants**

Figure 3-15. Project Security policy

Project Security

Allow project managers to override these settings? Yes No

Projects using this Project Type will be visible to users as described below.

Users who can view this project and its tasks:

All Users

Only participants (Project Managers, Summary Task Owners, Assigned Resources, Assigned Resource Groups, Stakeholders, and Process Participants)

Budget, Benefit, and Cost information on the Project and Tasks can be viewed by:

All Users that can view the project and its tasks

Project Managers and Stakeholders

Project Managers, Stakeholders, Summary Task Owners and Process Participants

Process participants for a project are the users who are included in security groups associated with steps in the workflow that governs the project process. These security groups, as well as the workflow itself, can be configured to suit your business needs. See the *HP Project Management Configuration Guide* for more information.

4 Creating a Project

In This Chapter:

- *Overview of Creating a Project*
 - *Creating a Project*
 - *Using the Project Overview Page*
 - *Adjusting Project Settings*
 - *Defining Project Participants*
 - *Entering Project Details*
 - *Creating a Staffing Profile*
 - *Creating a Budget*
 - *Creating a Work Plan*
-

Overview of Creating a Project

This chapter describes the process of creating a project. Projects allow organizations to define business initiatives with tools including:

- A configurable list of project participants
- A staffing profile that defines and tracks resource usage for a project
- A budget that defines and provides a basis of comparison for the amount of money devoted to a project
- A work plan that provides a hierarchical structure of tasks that logically groups and organizes activities and deliverables

Using projects, users can define, browse, edit, and manage key aspects of complex business initiatives.

The general process of creating a project for project managers is as follows:

1. Log on to PPM Center.
2. Create a project.

When creating a project, you must select a project type. See [Creating a Project on page 59](#) for more details.

If you are using HP Portfolio Management, the project may be created for you automatically from an existing proposal.

3. Once the project is created, you can perform a number of activities from the Project Overview page.

See [Using the Project Overview Page on page 60](#) for more details.

4. Adjust the project's settings.

Some project settings may be locked down by project policies, which are dictated by the project type. See [Adjusting Project Settings on page 61](#) for more details.

5. Configure the project's participants.

You can add to the project's list of managers and stakeholders. The project's resources and summary task owners are determined by the resources assigned in the work plan and the staffing profile attached to the project. See [Defining Project Participants on page 62](#) for more details.

6. Create a staffing profile for the project.

Staffing profiles are a HP Resource Management tool that can be used in conjunction with projects to track and manage resource demand. See [Creating a Staffing Profile on page 63](#) for more details.

7. Create a budget for the project.

Budgets are a HP Financial Management tool that can be used in conjunction with projects to track the cost and available funds for the project. See [Creating a Budget on page 64](#) for more details.

8. Create a work plan for the project.

The work plan is the project's hierarchical structure of tasks that specifies task details such as:

- Task start and finish dates
- Task predecessors, if any
- Assigned resources or resource groups

See [Creating a Work Plan on page 64](#) for more details.

9. Once initial planning is complete, set the project and work plan status to Active to begin project execution.

Creating a Project

To create a project:

1. Log on to PPM Center.
2. From the menu bar, select **Project Management > Projects & Tasks > Create a Project**.
3. The Create New Project page opens.
4. Fill in all required fields and any optional fields, including **Project Type**.

The project type contains project policies, which determine project settings. Some of these policies may be configured to be non-overridable, which lock down their corresponding project settings (see [Chapter 3, Configuring Project Types, on page 35](#), for more details on project policies). Make sure you are using the desired project type before creating

the project. You can only choose from project types to which you have been granted access.

5. Click **Create**.

The project is created and the Project Overview page opens.

Using the Project Overview Page

The Project Overview page displays a wide range of information about a particular project, including

- Status
- Project manager
- Any exceptions the project might have triggered
- Any issues the project has incurred
- Milestones

All of this data and more is presented and arranged through specific sections of the Project Overview page.

When a project is first created, the Project Overview page mostly serves as a convenient central point from which to create and configure project items such as:

- Project settings
- Project participants
- Project details
- Staffing profile
- Budget
- Work plan

Figure 4-1. Project Overview page: Summary tab

Project: IT: Developer Tools Improvements ■ Yellow

Project Status: Design **Phase:** Project
Project Manager: Joseph Banks
Project Plan Period: July 2006 to September 2006 **Project Region:** MercuryUS

Project Settings **Configure Participants**

Project Summary | Project Details | Project Exceptions | References

Status: Feb 23, 2007
■ Yellow

Override Health

Work Plan **Edit Work Plan** **View Baselines** 5 ▾

Name	July 2006	August 2006
IT: Develop...	10 16 23 30	6 13 20
Requirement...	◆	
Development...	◆	
Internal QA...	◆	

Milestones

Milestone	Sched Finish	Actual Finish	Owners
✓ Requirements Validated	Jul 20, 2006	Jul 20, 2006	
! Development Complete	Aug 8, 2006		William Klein , Traci Shimizu
! Internal QA complete	Aug 11, 2006		
! Acceptance testing	Aug 16, 2006		
! Developer Training	Aug 21, 2006		

Schedule **Issues** **Cost**

■ 27	□	
---------------------------------------	--------------------------------------	--

Issues

Req#Description	Priority	Status
30242:No verification that upgrade requirements are in place. Need at least one resource for 5 working days to complete.	High	New

Risks

Req#Description	Status	Probability	Impact Level
30220:Data migration may be difficult across several app upgrades	New	High [26-100%]	Level 1
30240:Upgrade schedule is at risk as a result of budget cutbacks.	New	High [26-100%]	Level 2
30241:Problems encountered with beta version of application merits reassessment of purchase.	New	Medium [11-25%]	Level 1

Project Staffing

Staffing Profile	Status
Developer Tools Improvements	Active

Project Cost

Approve Project Time

Resource	Time Period - Time Sheet #	Manager	Status	Hours to Approve	Total Hours	Approvable Line Costs
There are no outstanding time sheets to approve for this project.						

Adjusting Project Settings

Every project contains a number of settings that can be configured by the project manager to suit that particular project's objectives. These settings are inherited from the project policies, dictated by the chosen project type.

See *Setting Project Policies* on page 38 for detailed discussion of each project policy.

To view or edit project settings, click **Project Settings** in the Project Overview page.



Project policies can be set to non-overrideable, effectively locking down their corresponding project settings and preventing you from editing them.

Defining Project Participants

In general, HP Project Management defines participants in a project according to the following groups:

- **Project managers.** Project managers take part in project planning and management, overseeing project execution, issue resolution, and budgetary concerns.
- **Stakeholders.** Stakeholders are users who do not perform any work on a project, but are interested in the project's status and need to view project progress.
- **Resources.** Resources are users who work on tasks as part of a project team, but do not have the administrative responsibilities of a project manager. Resources view and update their tasks in HP Project Management.
- **Summary Task Owners.** Summary task owners are the people named on summary tasks who have oversight over that section of the work plan.

The list of resources for a project is automatically defined by the following sources:

- Resources assigned to tasks in the work plan
- Resources specified in the staffing profile for the project

Project managers can specify additional project managers and stakeholders for a project.

Figure 4-2. Configure Project Participants page

Configure Project Participants - ERP Upgrade Save Done Cancel

Below are all of the groups that have a relationship to this project.

Project Managers	
Name	Type
<input checked="" type="checkbox"/> Teju Krishna	User
<input checked="" type="checkbox"/> Joseph Banks	User
Add Project Manager	
Stakeholders	
Name	Type
<input checked="" type="checkbox"/> Ron Steel	User
<input checked="" type="checkbox"/> ITG Program Manager	Security Group
<input checked="" type="checkbox"/> Barbara Getty	User
<input checked="" type="checkbox"/> PFM - Finance Review Board	Security Group
Add Stakeholder...	

Resources
Holly Haywood
Tony Beach
Dennis Morrison
Leslie Franklin
Brandi Greer
Marjole Olive
Jason Swain
Larry X. Veach
Richard Gomez
Raymond Ackley
Traci Shimizu
Pamela Stewart
Nancy Giddings
Summary Task Owners
Holly Haywood
Teju Krishna
Barbara Getty
Raymond Ackley
Joseph Banks

Save Done Cancel

Stakeholders can be added individually or by security groups.

To add additional project managers or stakeholders to a project:

1. Create or open a project.
2. On the Project Overview page, click **Configure Participants**.

The Configure Project Participants page opens.

3. Add additional project managers or stakeholders.
 - Click **Add Project Manager** to add a new project manager.
 - Click **Add Stakeholder** and select **Add User** or **Add Security Group** to add new stakeholders.
4. Click **Done**.

The new project managers or stakeholders have been added.

Entering Project Details

The **Project Details** tab of the Project Overview page contains fields that hold important project information, such as the business unit responsible for the project, or the business objectives the project is designed to fulfill. These fields drive the overall project process, and can be configured by users with the proper level of access, such as a program management office. For more information on configuring the **Project Details** tab fields, as well as the project process itself, see the *HP Project Management Configuration Guide*.

Creating a Staffing Profile

Staffing profiles enable a project manager to track the demand of resources for a project, arranged by role or skill. A staffing profile can be created for a project to tie it to business functions and facilitate meaningful comparison visualizations.

To create a staffing profile for a project, click **Create a Staffing Profile** in the Project Overview page.

For detailed instructions on creating staffing profiles and making use of staffing profile functionality, see the *HP Resource Management User's Guide*.

Creating a Budget

Budgets can be used to track financial information for a project, with varying levels of data dependency. Once a project budget has been created and the project is in progress, actual project costs can be rolled up to the budget for comparison purposes. Project cost performance as compared to the budget can also be taken into account when calculating project cost health. See *Cost and Earned Value Health* on page 50 for details.

To create a budget for a project, click **Create a Budget** in the Project Overview page. This button will not appear if you do not have the proper access grants or level of access to the project or its cost data. For more information on cost data security for projects, see *Project Security* on page 55.

For detailed instructions on creating budgets and making use of budget functionality, see the *HP Financial Management User's Guide*.

Creating a Work Plan

The work plan is the actual deliverable-oriented grouping of project elements that defines and organizes the total work scope of the project. The work plan describes both the tasks and milestones, and the scheduled dates for completing these items.

You can create a project work plan in any of the following ways:

- Create a work plan from scratch. See *Chapter 5, Creating a Work Plan*, on page 65 for more details on creating a work plan.
- Create a work plan from a work plan template. See *Chapter 9, Using Work Plan Templates*, on page 173 for more details on this method.

The **Work Plan** policy in the project settings, which can be inherited from project policy, determine which of these options are available. See *Work Plan* on page 40 for more detailed discussion.

5 Creating a Work Plan

In This Chapter:

- *Overview of Creating a Work Plan*
 - *Adding Tasks and Creating Work Plan Hierarchy*
 - *Adding Tasks to the Work Plan*
 - *Creating Work Plan Hierarchy*
 - *Useful Keyboard Shortcuts in the Schedule View*
 - *Creating Milestones*
 - *Scheduling the Work Plan*
 - *Generating the Schedule*
 - *Scheduling Errors*
 - *Scheduling Warnings*
 - *Displaying Work Plan Information*
 - *Level Expand/Collapse*
 - *Work Plan Views*
 - *Filters*
 - *Viewing and Editing Task Details*
 - *Viewing Large Work Plans*
 - *Resource Usage*
 - *Viewing the Work Plan Critical Path*
 - *Configuring Tasks*
-

Overview of Creating a Work Plan

Once you have created a project, you can create its work plan. Project work plans allow you to define a business initiative as a hierarchical structure of tasks and summary tasks that logically groups, organizes, and schedules activities and deliverables.

There are any number of different ways in which you might go about creating a work plan from scratch, but one general procedure for creating a new work plan in HP Project Management is as follows:

1. On the Project Overview page, click the **Create blank work plan** link.
2. Add tasks to the blank work plan, filling in the following task aspects first:
 - Name
 - Duration
 - Start or finish date

You can also add predecessors and structure the work plan hierarchy when initially adding tasks to the work plan. See *Adding Tasks and Creating Work Plan Hierarchy on page 67* for more details.

3. Create any desired milestones.

Major milestones can also be added if the project's settings have been configured properly. See *Creating Milestones on page 75* for more details.

4. Schedule the project.

See *Scheduling the Work Plan on page 76* for more details.

5. Filter the work plan view in different ways to evaluate related information.

You can use different work plan views and filters to evaluate the work plan and make subsequent changes to tasks. See *Displaying Work Plan Information on page 79* for more details.

6. Begin configuring individual tasks, if necessary.

See *Configuring Tasks on page 89* for more details.

7. View the work plan's critical path.

See *Viewing the Work Plan Critical Path on page 88* for more details.

You can also create a work plan from a work plan template. See *Chapter 9, Using Work Plan Templates, on page 173* for more details on this method.

Adding Tasks and Creating Work Plan Hierarchy

Work plans are created in the Work Plan page.

- For a new project, the Work Plan page is reached by clicking the **Create blank work plan** link.
- For an existing project, the Work Plan page is reached by clicking **Edit Work Plan**.

The Work Plan page opens to the **Schedule** view.



The Work Plan page opens to the last view you were using when viewing the work plan. If the work plan is new, or you have never opened the Work Plan page for this project before, the **Schedule** view opens by default.

Figure 5-1. Work Plan page: Schedule view

Seq	Name	Status	Role	Resources	Sch... Dur...	Scheduled Start	Scheduled Finish	Sch... Effort (hrs)	Una... Effort (hrs)	Predeces...
25	Acceptance, Training, Rollout	Active			4.00	7/10/07	7/13/07	112...		24
26	Acceptance Test	Pending Pr...	Network Admi...		3.00	7/10/07	7/12/07	24.00	24.00	
27	Rework	Pending Pr...	Developer - Ja...	John Groo...	3.00	7/10/07	7/12/07	48.00	0.00	
28	Design Training	Pending Pr...		Barbara G...	1.00	7/10/07	7/10/07	8.00	0.00	
29	Training	Pending Pr...		Barbara G...	2.00	7/10/07	7/11/07	16.00	0.00	
30	Deploy to Production	Pending Pr...		Raymond ...	2.00	7/12/07	7/13/07	16.00	0.00	29

The top-level task is automatically created with the project name.

Adding Tasks to the Work Plan

You can add a new task above any existing task in the work plan by selecting the task and clicking the **Add Task** icon, which opens the Add Tasks page. To add a task to the work plan:

1. Within the **Schedule** view, select the empty row at the bottom of the work plan and click the **Add Task** icon.

The Add Tasks page opens, with a new task above the current selection.

2. Click the **Add Task Below** icon to add a new task below the current selection.
 - You can also add a new task above the current selection by selecting the last item in the Add Tasks page and pressing **Insert** on your keyboard.
 - You can also add a new task below the current section by selecting the last item in the Add Tasks page and pressing **Enter** on your keyboard.
3. Edit the new task's information.

You should fill in each task's **Name**, but in order for HP Project Management to schedule the project, you must also provide scheduling information. This information can be supplied in the Add Tasks page. Click **Change** at the top of the page to select the combination of scheduling information you want to use.

Tasks can also be edited through the Task Details page, which displays more detailed information on a task. The Task Details page is accessible from the Work Plan page.

- a. Select the new task and click the **Task Details** icon. The Task Details page opens.
 - b. Modify the information under each tab in the Task Details page as necessary (for details, see [Chapter 6, Configuring Tasks](#), on page 91).
4. Configure the task hierarchy, if desired.

You can structure the newly-added tasks into a hierarchy of summary tasks and subordinates using the **Indent** and **Outdent** icons at the top of the Add Tasks page. See [Useful Keyboard Shortcuts in the Schedule View on page 74](#) for keyboard shortcuts that can help you save time.

5. Add the new tasks to the work plan.

To add the tasks to the work plan, click **Done**.

Creating Work Plan Hierarchy

HP Project Management allows users to add and structure tasks in any order, from either the Add Tasks page or the Work Plan page. Once tasks have been added, you may find that you need to rearrange them later. The Work Plan page also allows you to arrange and group tasks in a hierarchy.

- ▶ Changes made to the work plan in the Work Plan page are immediately saved.

Figure 5-2. Work Plan page

Seq	Name	Status	Role	Resources	Sch... Dur...	Scheduled Start	Scheduled Finish	Sch... Effort (hrs)	Una... Effort (hrs)	Predeces...
25	Acceptance, Training, Rollout	Active			4.00	7/10/07	7/13/07	112...		24
26	Acceptance Test	Pending Pr...	Network Admi...		3.00	7/10/07	7/12/07	24.00	24.00	
27	Rework	Pending Pr...	Developer - Ja...	John Groo...	3.00	7/10/07	7/12/07	48.00	0.00	
28	Design Training	Pending Pr...		Barbara G...	1.00	7/10/07	7/10/07	8.00	0.00	
29	Training	Pending Pr...		Barbara G...	2.00	7/10/07	7/11/07	16.00	0.00	
30	Deploy to Production	Pending Pr...		Raymond ...	2.00	7/12/07	7/13/07	16.00	0.00	29

To move an item up or down in the hierarchy:

1. Select the task or collapsed summary task.
2. Click the **Cut** icon.

You can also simply copy a task using the **Copy** icon. Copied tasks can be pasted several times.

3. Select the task below your target area in the work plan hierarchy.
4. Click **Paste** icon.

The cut item is placed in the work plan above the selected task.

Large work plans may split up work plan information into pages. You can cut tasks from one page of the work plan and paste them into another. See [Viewing Large Work Plans on page 86](#) for more information.

To indent an item:

1. Select the task or collapsed summary task.
2. Click the **Indent** icon.

The selected task or summary task moves one level deeper in the hierarchy.

- If the item immediately above the selected item is a task, that task is converted to a summary task.
- Acting on a summary task acts on its children. Indenting a summary task brings its children one level down in the hierarchy as well.



If the selected item is the first child of a summary task, you will not be able to indent it.

To outdent an item:

1. Select the task or collapsed summary task.
2. Click the **Outdent** icon.

The selected task or summary task moves out one level in the hierarchy.

- Acting on a summary task acts on its children. Outdenting a summary task brings its children one level up in the hierarchy as well.
- If the selected item was a child of a summary task, it becomes either a task or summary task on the same level as its former parent.
- If the selected item was a summary task's only child, that summary task is converted into a task.
- If the selected item was a task with other tasks of the same level beneath it, those tasks are converted to children of the selected item, which is now a summary task.



Tasks with actuals data cannot become summary tasks. This includes tasks that contain actuals from HP Time Management, or tasks that are referenced by time sheets.

You can act on multiple tasks simultaneously:

- Use **shift** + click to highlight a set of contiguous rows and act on all of them.
- Use **ctrl** + click to make multiple non-contiguous selections and act on all of them.

Setting Up Predecessors

HP Project Management allows you to create relationships between a task and other tasks in the current work plan, tasks in other work plans, or requests in HP Demand Management. These predecessor relationships are used by the scheduler to determine when the task will be scheduled.

For example: Manager Bob has a Training work plan for a new software module being installed on his group's computers. In order for his training activities to get started, the Software Upgrade project headed by Manager Steve must be finished first. Bob can create a finish-start predecessor relationship between the most relevant task in the Software Upgrade project and his own Training tasks.

These predecessor relationships are controlled from the **Schedule** tab of the Task Details page.

Figure 5-3. Task Details page: Schedule tab

The screenshot displays the 'Task Details' page for '26 - Acceptance Test'. The 'Schedule' tab is active, showing a table with columns for Duration (days), Effort (hours), Start Date, and Finish Date. The 'Scheduled' row shows 3.00 day(s), 24.00 hr(s), 7/10/07, and 7/12/07. The 'Actual' row shows 0.00 day(s) and 0.00 hr(s). Below the table, there are sections for Constraints (Scheduling Constraint: As Soon As Possible), Predecessors (with an 'Add a predecessor...' button), and Critical Path Metrics (This task is part of the critical path. Early Start Date: Jul 10, 2007, Early Finish Date: Jul 12, 2007, Late Start Date: Jul 11, 2007, Late Finish Date: Jul 13, 2007, Slack: 1).

The types of predecessor relationships available are described in [Table 5-1](#).

Table 5-1. Possible predecessor relationships to a project or task

Predecessor Type	Description	Possible Relationships
Summary Task or Task	A task in the current work plan	<ul style="list-style-type: none"> ■ Finish-Start. The successor can start once its predecessor has completed. ■ Start-Finish. The successor cannot finish until the predecessor starts. Cannot be set for summary tasks. ■ Finish-Finish. The task can start anytime, but the successor will not be marked as complete until its predecessor finishes. Cannot be set for summary tasks. ■ Start-Start. The successor cannot start until the predecessor has started. <p>You can also define lag or lead time for predecessor relationships by entering a positive or negative number in the Lag (Days) field, if desired.</p> <p>When adding a summary task as a predecessor, only relationships of the Finish-Start or Finish-Finish type are allowed.</p> <p>When adding a predecessor to a summary task, only relationships of the Finish-Start or Start-Start type are allowed.</p>
External Task	A task from a separate project	Same as internal task.
Request	A request in HP Demand Management	<p>Request relationships are managed from the References tab of the Task Details page.</p> <ul style="list-style-type: none"> ■ Related. Informational relationship only: No actual predecessor relationship exists. This is the only relationship allowed for summary tasks. ■ Successor (Blocked). No action is allowed on the request until the task is completed. ■ Predecessor (Blocking). No action is allowed on the task until the request is completed. ■ FF Predecessor (Finish Finish Predecessor). The task can start anytime, but cannot be marked as finished until the request is completed.

Setting Internal Predecessors

To set an internal predecessor task for a task:

1. Open the Task Details page of the task.
2. Click the **Schedule** tab.
3. Click **Add a predecessor** and select **Add task by name**.

An auto-complete window opens listing all tasks in alphabetical order. You can filter the list using the **Task starts with** filter field.

You can also add a predecessor directly by sequence number, if you know the predecessor's sequence number in the work plan.

4. Select a task.

The predecessor task is now listed in the **Schedule** tab of the Task Details page.

5. Select a relationship from the **Relationship** field.
6. Type a value in the **Lag (Days)** field, if desired.

This field allows you to specify a number of days to delay starting on a given task based on its predecessor's finish. Negative numbers can be used, which work as lead time.

7. Click **Save**.

Setting an External Predecessor Task

To set an external predecessor task for a task:

1. Open the Task Details page of the task.
2. Click the **Schedule** tab.
3. Click **Add a predecessor** and select **Add External Task**.

An auto-complete window opens, allowing you to search for external tasks to add. You can filter the list using the **Task starts with** filter field.

4. Select a task.

The predecessor task is now listed in the **Schedule** tab of the Task Details page.

5. Select a relationship from the **Relationship** field.

6. Type a value in the **Lag (Days)** field, if desired.

This field allows you to specify a number of days to delay starting on a given task based on its predecessor's finish.

7. Click **Save**.

Setting a Request as a Predecessor

You can add an existing request as a predecessor for a task through the **References** tab in the Task Details page. See [Attaching Existing Requests on page 105](#) for more detailed information. You can also add a new request as a predecessor for a task. See [Attaching New Requests on page 106](#) for more detailed information.

Useful Keyboard Shortcuts in the Schedule View

Tasks and summary tasks within the **Schedule** view can be manipulated from the keyboard as well as the icons in the **Schedule** view. [Table 5-2](#) lists all available keyboard shortcuts.

Table 5-2. Keyboard shortcuts for defining work plans

Keystroke	Action
Insert	Inserts a task into the hierarchy above the current row in the Add Task page.
Shift + Alt + Left Arrow	Outdents a task in the hierarchy.
Shift + Alt + Right Arrow	Indents a task in the hierarchy.
Enter	Opens the Task Details page.
Ctrl + C	Copies the selected task.
Ctrl + V	Pastes a task or tasks (must be on the work plan's last line).

Creating Milestones

Milestones are used to mark significant events in the execution of a project, often the completion of a deliverable or arrival of a deadline.

As markers of other progress, milestones generally do not have duration or effort, although they can be configured to have both. Project managers can indicate that the milestone should automatically complete once its predecessors are complete, providing a means of reporting project progress without project manager intervention. In some cases, however, project managers may want control over whether the milestone has completed, regardless of whether the work leading up to it indicates it should be.

A work plan may contain many milestones that help the project manager gauge execution progress. Often, however, there is a smaller set of standard milestones that are used and reported on all projects within an organization, such as phase-completion milestones. If the project has been configured to allow them, the project manager can identify such milestones as major milestones which will be displayed on the Project Overview page, allowing for uniform high-level visibility while still allowing the project manager to define as many milestones as required to manage the detailed plan. See [Project Fields on page 38](#) for information about enabling major milestones.

To create a milestone:

1. Select a task.
2. Click the **Task Details** icon.

The Task Details page opens.

3. Select the **Mark task as milestone** checkbox.

If you want the milestone to mark itself as complete automatically when all predecessors are complete, select the **Milestone automatically completes** checkbox. This is only available for milestones whose duration is 0.

4. Modify any other information under each tab in the Task Details page as desired (for details, see [Editing Task Information on page 95](#)).
5. Click **Save**.

A task will be automatically converted to a milestone if its duration is 0.



Once a milestone has been created, its duration is automatically set to 0, but you can alter its duration if necessary.

Scheduling the Work Plan

HP Project Management generates schedules for work plans, based on the configurations set in the project's **Scheduling** policy and the options provided in the Schedule Work Plan dialog box.

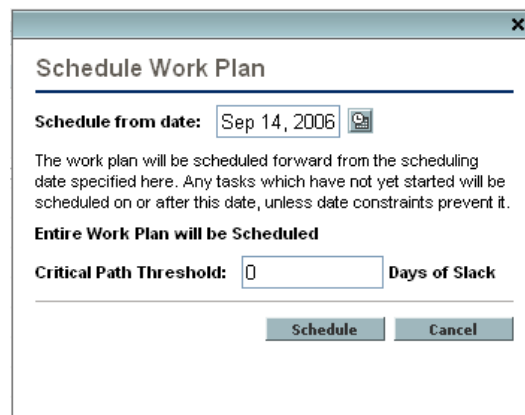
Generating the Schedule

When the work plan is scheduled, the entire work plan is considered, and changes are immediately saved. If you want to reschedule discrete sections of the work plan, you can place constraints on the relevant summary tasks to accomplish the move.

To generate the schedule for a work plan:

1. Click the **Schedule Project** icon.

The Schedule Work Plan dialog box opens.



Schedule Work Plan

Schedule from date: Sep 14, 2006

The work plan will be scheduled forward from the scheduling date specified here. Any tasks which have not yet started will be scheduled on or after this date, unless date constraints prevent it.

Entire Work Plan will be Scheduled

Critical Path Threshold: 0 Days of Slack

Schedule Cancel

2. In **Schedule from date**, specify a date from which to schedule the work plan.

This is usually set in the **Scheduling** policy individually for each project and generally does not change unless the entire project needs to shift dates. If you are collecting actuals in your work plan, changing the **Schedule from date** field and rescheduling the work plan can push remaining work into the future.

3. If desired, type a **Critical Path Threshold**.

For more details on the purpose of the critical path threshold, see [Critical Path Threshold](#) on page 43.

4. Click **Schedule**.

If scheduling errors occur, no schedule will be generated and a list of errors will appear. Take note of each error and its cause, and make the necessary adjustments within the work plan. See [Scheduling Errors](#) for more details.



If scheduling warnings occur, a schedule will be generated and a list of warnings will appear. Take note of each warning, as they can be important to the initiative's success. See [Scheduling Warnings](#) for more details.

Scheduling Errors

It is possible for certain combinations of input to cause a schedule to be unworkable. If any of these errors are encountered, the schedule will not be created. [Table 5-3](#) describes scheduling errors, their causes, and possible solutions.

Table 5-3. Scheduling errors, causes, and possible solutions

Scheduling Error	Cause	Possible Solution
Circular dependency	The predecessors of a set of projects or tasks contains a cycle. This cannot be scheduled. HP Project Management detects circular dependencies while creating or editing the work plan.	Break the cycle by removing or changing a predecessor.
No tasks to be scheduled	The work plan is complete or cancelled, so there are no tasks to be scheduled.	If tasks are missing, add them and then schedule.

Scheduling Warnings

It is possible that because of the specifics of the work plan, the scheduler cannot produce a consistent schedule. A schedule will be produced, but schedule warnings are generated that highlight the structural inconsistencies in the work plan. The [Schedule Warning Rules](#) enabled in the **Schedule** policy in the project's settings identify these problems. Warnings appear when the scheduler runs, and are evaluated when the work plan is saved. Warnings are also saved in the **Warnings** tab of each affected task's Task Details page, for later perusal. [Table 5-4](#) describes scheduling warnings, their causes, and possible solutions.

Table 5-4. Scheduling warnings, causes, and possible solutions

Scheduling Warning	Cause	Possible Solution
Project Date Conflicts	This warning occurs when the work plan dates extend beyond the project's Planned Start Period or Planned Finish Period. It also occurs when the constraint defined on the task is outside the project's Planned Start Period or Planned Finish Period.	Bring the plan within the project's dates by adjusting dependencies, duration, resources, or any combination thereof, and rescheduling. In some cases, resolution may involve expanding project-level dates, which should be coordinated with the project budget and staffing profile.
Dependency Conflicts	These warnings occur when a predecessor dependency defined for the task could not be honored because other constraints or task information prevents it. For example, a task may be expected to start on October 10th based on its predecessor relationships, but might have a Start No Later Than constraint defined for October 1st. The task cannot meet both requirements.	Rework the plan to remove the conflicts.
Constraint Inheritance Conflicts	These warnings occur when there is a direct conflict between the constraints defined for a task and its parents, such that only one can be satisfied. Both related tasks are marked.	Rework the plan to remove the conflicts. If both constraints are valid, you may need to file a project issue. See Logging Issues on page 140 for more information.
Resources Could Not Be Scheduled	The scheduler could not identify sufficient available working days for the assigned resources to schedule the task. This warning is evaluated only when the scheduler runs.	This usually occurs when the scheduler attempts to schedule a resource after the resource's end date or before the resource's start date. Check resource information, and if necessary, change the task resource or change task dependencies so that it can occur during the right dates.
Task Constraint Could Not Be Met	This warning occurs when the constraint defined on the task could not be honored because other conflicting information takes precedence.	This usually occurs when using actuals during scheduling and the task's actual start date conflicts with a constraint defined for the task. This may not require explicit resolution.

Displaying Work Plan Information

HP Project Management includes several different ways to view work plan data, allowing you to focus on the specific task at hand.

- *Level Expand/Collapse* allows you to immediately expand or collapse the work plan view to a specific hierarchy level, so you can quickly assess the plan without being overloaded with plan details.
- *Work Plan Views* provide you with different ways of looking at the work plan based on the tasks you need to perform or the information you need from the plan.
- *Filters* allow you to filter data within a particular work plan view for a subset of information, enabling you to efficiently focus on the tasks that need your attention.
- The *Gantt View* allows you to visualize tasks and their dependencies in a graphical format enhanced with color-coding and configurable labeling.

In general, HP Project Management keeps track of column width and position in each work plan view for you, so when you log out and return to a project later, your column layout is the same as when you left it.

Level Expand/Collapse

Click **Expand to: Level** to expand or collapse your view of the work plan and its summary tasks to a specific hierarchy level from 2 to 7.

- Level 2 displays only tasks and summary tasks directly below the root level of the work plan, collapsing everything below.
- Level 7 displays tasks and summary tasks down to the seventh hierarchy level of the work plan, collapsing everything below.

Work Plan Views

HP Project Management includes several work plan views that give visibility into different categories of work plan information. These views are accessible from the **Change View** button menu at the top of the Work Plan page.

Schedule View

The **Schedule** view is the default view on the Work Plan page. Use this view to adjust task hierarchy in the work plan view schedule-related information.



All values for fields that track duration are in days, while all values for fields that track effort are in hours.

The **Schedule** view displays the following task fields as columns:

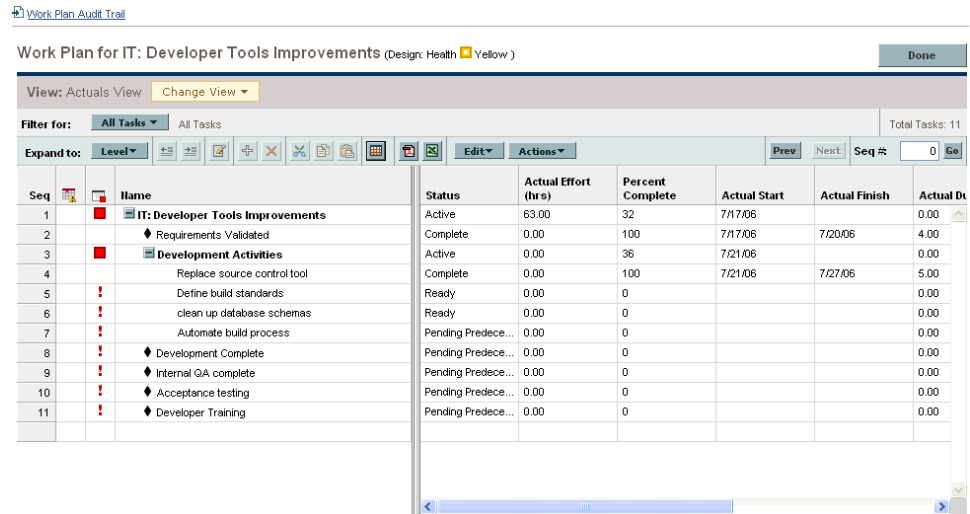
- Task Status
- Scheduled Duration
- Scheduled Start
- Scheduled Finish
- Scheduled Effort
- Predecessors
- Resources
- Role
- Activity
- Unassigned Effort

Actuals View

The **Actuals** view focuses on information collected about the progress of the work plan, and displays the following task fields as columns (some columns only appear if selected in the *Project Fields* or *Cost and Effort* policy):

- Task Status
- Actual Effort
- Percent Complete
- Estimated Remaining Effort
- Actual Start
- Actual Finish
- Actual Duration
- Estimated Finish
- Resources
- Predecessors
- Actuals As Of (date actuals were last updated)

Figure 5-4. Work Plan page: Actuals view



Costing View

The **Costing** view displays the costing data for a project, if HP Financial Management has been enabled in the *Cost and Effort* policy. *Table 5-5* describes the task fields displayed in the **Costing** view as columns. This view is only available to users who have viewing access to project cost data.

Table 5-5. Available columns in the Costing work plan view (page 1 of 2)

Column Name	Description
Cost Health	The cost health of the task.
Planned Labor	The planned labor cost for the task. Calculated as: Scheduled effort * applicable cost rate Applicable cost rates include: <ul style="list-style-type: none"> Resource (if resource has no cost rate, resource region, role, and skill are considered next) Task role Task skill set
Planned Non-Labor	The planned non-labor cost for the task. Manually entered.
Planned Cost	The sum of planned labor and non-labor costs.
Actual Labor	The actual labor cost for the task. Calculations are the same as for planned labor, except with actual effort substituted for scheduled effort.
Actual Non-Labor	The actual non-labor cost for the task. Manually entered.

Table 5-5. Available columns in the Costing work plan view (page 2 of 2)

Column Name	Description
Actual Cost	The sum of actual labor and non-labor costs.
Planned Capital Expense	The planned cost for a task associated with an activity marked as capitalized.
Planned Operating Expense	The planned cost for a task associated with an activity marked as operating.
Actual Capital Expense	The actual cost for a task associated with an activity marked as capitalized.
Actual Operating Expense	The actual cost for a task associated with an activity marked as operating.
Activity	The activity associated with a task.

Figure 5-5. Work Plan page: Costing view

Seq	Name	Planned Labor	Planned Non Labor	Planned Cost	Actual Labor	Actual Non Labor	Actual Cost
1	ERP Service Pack - Sept 2006	\$25,400.00	\$0.00	\$25,400.00	\$3,420.00	\$0.00	\$3,420.00
2	Requirements	\$8,840.00	\$0.00	\$8,840.00	\$1,640.00	\$0.00	\$1,640.00
3	Conduct Requirements Interviews	\$4,000.00	\$0.00	\$4,000.00	\$400.00	\$0.00	\$400.00
4	Consolidate Findings	\$2,400.00	\$0.00	\$2,400.00	\$800.00	\$0.00	\$800.00
5	Sizing Estimates	\$800.00	\$0.00	\$800.00	\$0.00	\$0.00	\$0.00
6	Requirements Review	\$840.00	\$0.00	\$840.00	\$640.00	\$0.00	\$640.00
7	Standards audit	\$800.00	\$0.00	\$800.00	\$0.00	\$0.00	\$0.00
8	Scope Determined	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9	Prototyping	\$10,480.00	\$0.00	\$10,480.00	\$1,300.00	\$0.00	\$1,300.00
10	Transaction management	\$4,000.00	\$0.00	\$4,000.00	\$0.00	\$0.00	\$0.00
11	New UI widgets	\$1,600.00	\$0.00	\$1,600.00	\$0.00	\$0.00	\$0.00
12	installer options	\$480.00	\$0.00	\$480.00	\$0.00	\$0.00	\$0.00
13	navigation paths	\$800.00	\$0.00	\$800.00	\$0.00	\$0.00	\$0.00
14	Common components	\$1,600.00	\$0.00	\$1,600.00	\$0.00	\$0.00	\$0.00

You can control the display of certain columns by adjusting the appropriate settings in the project's **Cost and Effort** policy. See [Adjusting Project Settings](#) on page 61 for details.

Earned Value View

The **Earned Value** view displays earned value (EV) analysis data for the project by displaying the following task fields as columns:

- Planned Value
- Earned Value
- Cost Variance

- Schedule Variance
- CPI
- SPI
- Actual Cost

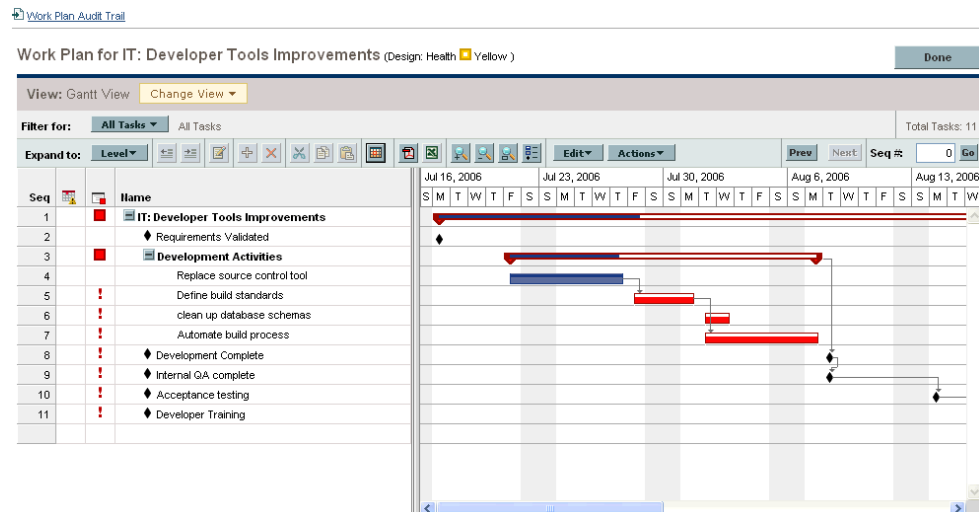
This view is only available to users who have viewing access to project cost data, and is only useful if you have taken at least one baseline of the project. For more details on project baselines, see *Working with Baselines* on page 146.

Gantt View

The **Gantt** view includes a Gantt chart, a convenient graphic display of schedule-related information, including task length and timing. Summary tasks can be color-coded to indicate health. Colors and patterns serve to provide information on completion status. Optional task labels can provide additional details (see *Changing Gantt View Display*)

You can also change the time scale for the chart, as well as fit the entire project into the current Gantt view. *Figure 5-6* shows a typical project Gantt chart.

Figure 5-6. Work Plan page: Gantt view



Changing Gantt View Display

You can make adjustments to the Gantt chart display by clicking **Actions > Configure Display** on the Work Plan page. The Display Options dialog box contains settings for the Gantt chart's indicators and text labels.

Printing View

The **Printing** view provides the user with a view in which all of the fields in all the views are combined. The columns are arranged by view in the following order:

- Schedule
- Actuals
- Cost
- Earned Value

Use this view to configure the order and sizing of columns for generating PDF printouts that include columns that cross the different views. For more information on exporting the work plan to a PDF file, see [Exporting to PDF Files on page 148](#). For optimal system performance, use the other work plan views for targeted tasks.

Filters

HP Project Management includes filters for each work plan view that allow you to filter the work plan for a certain set of tasks, enabling you to quickly focus on the data most relevant to your activity. Summary tasks that own the tasks selected by the filter are always displayed to provide context. [Table 5-6](#) lists the filters for each work plan view.

Table 5-6. Work plan view filters (page 1 of 2)

Filter Name	Description
Schedule and Tracking views	
Tasks in progress	Only shows tasks in the work plan that are in progress.
Tasks complete	Only shows tasks in the work plan that are complete.
Tasks overdue	Only shows tasks in the work plan that have passed their scheduled finish date but are not yet complete.
Tasks that are unassigned	Only shows tasks in the work plan that have no resource assigned to them.
Tasks that are milestones	Only shows tasks in the work plan that are milestones.

Table 5-6. Work plan view filters (page 2 of 2)

Filter Name	Description
Tasks on the critical path	Only shows tasks in the work plan that are on the critical path.
Tasks with external predecessors	Only shows tasks in the work plan that have external predecessors.
Tasks with contributions	Only shows tasks in the work plan that have ad time logged against them in HP Time Management by non-assigned resources. This can help you identify unexpected time logged against your project.
Tasks with constraints	Only shows tasks in the work plan that have constraints.
Tasks by resource	Only shows tasks in the work plan that are assigned to a specified resource(s).
Tasks by role	Only shows tasks in the work plan that are assigned to a specified role.
Tasks starting in	Only shows tasks in the work plan scheduled to start within a specified date range.
Tasks completing in	Only shows tasks in the work plan scheduled to complete within a specified date range.
Tasks occurring in	Only shows tasks in the work plan scheduled to occur within a specified date range.
Tasks with actuals since	Only shows tasks that have had actuals updated after a specified date. For example, this is useful for finding tasks updated during the current week.

Viewing and Editing Task Details

Task fields are not editable from the Work Plan page. Instead, individual tasks are edited from the Task Details page, making small, discrete changes possible instead of mass change on a wider scale. For more details on editing tasks, including navigating between tasks, see [Editing Task Information on page 95](#).

Viewing Large Work Plans

HP Project Management allows you to control the number of tasks in your work plan that can be displayed at one time, allowing you to efficiently manage your work plan regardless of whether you are working on a fast local LAN or a distributed network. The set of tasks displayed at a time is referred to as a “page.” You can navigate between pages in a large work plan in the following ways:

- Click **Prev** and **Next** to navigate between adjacent pages.
- Type the sequence number of a specific task in **Seq #** and click **Go** to navigate to that task. The task will display at the top of the page. This allows you to reorient the page to display the data in which you are interested.
- HP Project Management shows you pages of displayed tasks. The collapsed children of summary tasks are not counted.

Adjusting Personal Page Size Preferences

You can adjust the number of rows per work plan page in the Project Work Plan Preferences section of the Edit My Profile page, accessed by selecting **Administration > Edit My Profile** from the menu bar.

Figure 5-7. Edit My Profile page

The screenshot displays the 'Edit My Profile' page with several sections:

- Change Password:** Includes input fields for 'Old Password:', 'New Password:', and 'Repeat New Password:'.
- Dismissible Message Dialogs:** Contains the text 'Warning Messages that you chose not to show again can be turned back on here.' and a checkbox labeled 'Bring back all warning messages'.
- Overview Page Section Preferences:** Features a label 'Results in Maximized Overview Sections:' followed by an input field containing the number '50'.
- Project Work Plan Preferences:** Includes the text 'The number of tasks displayed per page in the project work plan can be configured here.' and three radio button options: '20 tasks per page.' (selected), '100 tasks per page.', and '50 Tasks per page (max allowed = 500)'. The '50' is entered in a small text box next to the radio button.
- Cost Display:** Features the text 'I prefer to see Costs displayed in the:' and two radio button options: 'Base Currency: United States Dollar (USD)' (selected) and 'Local Currency'.

A 'Done' button is located at the bottom right of the page.

Select an option or type your own value for the number of tasks per page you wish to see and click **Done**. You can change this setting at any time, based on the connection speed at your location.

- ▶ The pre-set and maximum page size values are determined by your PPM Center administrator. See the *HP Project Management Configuration Guide* or consult your system administrator for more details on work plan page size controls and their adjustment.

Resource Usage

The Resource Usage page displays assignment-level load data grouped by resource. Open the Resource Usage page by clicking **Actions > Resource Usage** on the Work Plan page. Fields in this page are not directly editable, though tasks can be opened and modified from this page or the Work Plan page. The Resource Usage page is optimized for use with the staffing profile for the project, which determines work plan capacity.

Table 5-7. Available columns in the Resource Usage work plan view

Column Name	Description
(Indicator column)	Indicates whether the resource has been over-allocated on any of the days displayed.
Name	The name of the resource.
Role	Indicates the role intended to be utilized. <ul style="list-style-type: none"> ■ The role appearing next to the resource name is specified in the project staffing profile, if one exists. ■ The role appearing next to the task name is specified in the work plan.
Effort (Load)	The total amount of effort assigned to the resource. This column is broken down into sub-columns that track scheduled effort, actual effort, and the allocation for the resource.
Start	The start date for the assigned task.
Finish	The end date for the assigned task.
Status	The status of the assigned task.

Other features of the Resource Usage page include the following:

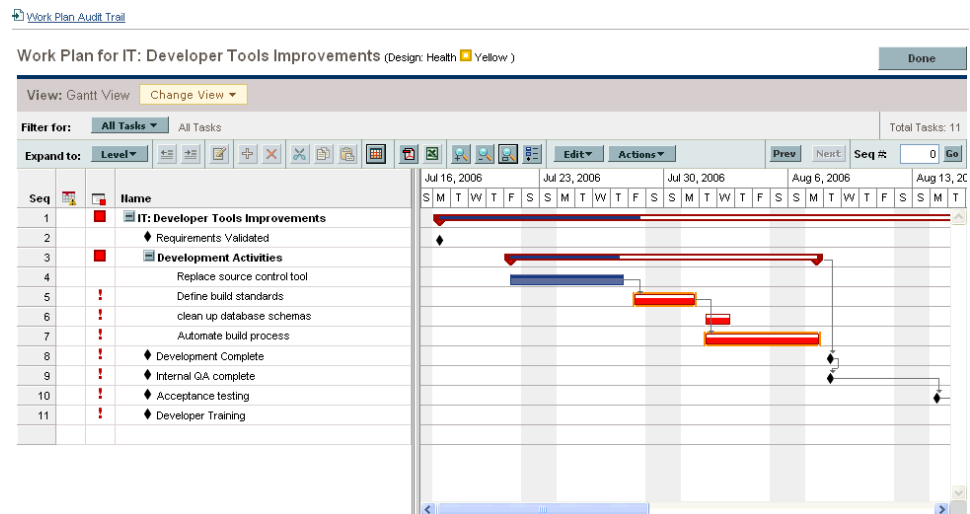
- If an over-allocation has taken place, an indicator appears to the left of the resource name.

- The Resource Usage page displays the amount of resource load coming from external sources. Clicking the **External Load** link below a resource name opens their resource load breakdown.
- The Resource Usage page includes a table displaying the resource load details for the project, which highlights over-assignments in red. The table can be set to view a specific range of dates and broken down by different period types. To change the date range and time breakdown of the table, enter the desired values in the **View data from** and **grouped by** fields and click **Apply**.

Viewing the Work Plan Critical Path

A work plan's critical path is composed of all of the tasks in a work plan that determine its duration. In HP Project Management, the critical path of a work plan can be highlighted in the **Schedule** view's Gantt chart. Tasks that are part of the critical path are outlined in orange. You can also view the work plan's critical path using one of the *Filters*.

Figure 5-8. Work Plan page: Gantt view displaying critical path



To see a work plan's critical path:

1. On the Work Plan page, click **Actions > Configure Display**.
The Display Options dialog box opens.
2. Select the **Mark Tasks on Critical Path** checkbox.
3. Click **Done**.
4. The Gantt chart displays the work plan's critical path in orange.

Configuring Tasks

Once the initial work plan is created, you can configure individual tasks as required to refine your plan. Activities involved in refining your plan might include:

- Finding and assigning resources to tasks
- Adjusting task effort estimates or duration as additional information becomes available
- Configuring email notifications to ensure that tasks needing attention are made known to the right people
- Adjusting task dependencies as more becomes known about task details
- Rescheduling the plan
- Reviewing resource load to ensure resources are utilized within the bounds of their staffing profile assignments
- Exporting work plan view for off-line discussion, printing, or publication

For detailed discussion of these task configuration items, see [Chapter 6, *Configuring Tasks*](#), on page 91, and [Chapter 7, *Managing a Project*](#), on page 111.

6 Configuring Tasks

In This Chapter:

- *Task Elements*
 - *Notifications*
 - *References*
 - *Activities*
 - *Task Statuses*
 - *Adding Tasks to Work Plans*
 - *Creating a Milestone*
 - *Editing Task Information*
 - *Assigning Resources*
 - *Assigning Resources in the Add Tasks Page*
 - *Assigning Resources in the Task Details Page*
 - *Managing Scheduled Effort*
 - *Assigning Skills or Roles*
 - *Configuring Task Predecessors*
 - *Setting Scheduling Constraints*
 - *Adding Notes*
 - *Setting Up Notifications*
 - *Entering Cost Data*
 - *Attaching References to Tasks*
 - *Attaching Existing Requests*
 - *Attaching New Requests*
 - *Attaching Existing Packages*
 - *Attaching New Packages*
 - *Attaching Tasks*
 - *Attaching Releases*
 - *Attaching Documents*
 - *Attaching URLs*
 - *Changing the Task Status*
-

Task Elements

Work plans are repositories of information consisting of tasks, summary tasks, notes, and references. These elements model the work required to achieve specific business initiatives within an organization. Work plans are not static entities. They gather additional information and are modified as their tasks move through to completion.

Tasks are the components of a work plan that must be completed in order for the work plan to complete successfully. Project managers gather information from tasks and make appropriate changes to the project during the project process. This means that tasks must be configured to deliver the kinds of specific information that project managers need. For example, project managers may need to be notified when tasks are completed or their statuses change.

Tasks also need to be modified during the project execution, such as extending task schedules or assigning additional resources to a task to make a deadline. Team members must update their individual statuses as they complete assigned tasks.

Notifications

Project managers can set up notifications for tasks within a work plan. Email messages can be sent to appropriate team members whenever a specific event occurs on a task. This would include such events as:

- The completion of a milestone.
- The triggering of an exception rule by a task.
- The approach of a task's start date.

References

Tasks can include additional references to other entities or points of information, allowing easy access and visibility to data related to the current task. Summary information for references is viewed as part of the task.

There are several reference types defined for tasks: requests, packages, projects, releases, attachments, and URLs.

Activities

Tasks can be characterized by the type of activity involved in accomplishing the task. For example, certain tasks could be categorized as design activity, while other tasks could be characterized as testing activity. Though they can be used for simple categorization, activities are usually used to identify capitalizable costs for SOP 98-1 compliance. For more information on activities and their use, see the *HP Financial Management User's Guide*.

Task Statuses

On the Work Plan page, the task status is displayed in the **Status** column of the **Schedule** view. The available statuses for a task are defined in [Table 6-1](#). [Table 6-2](#) describes statuses for summary tasks.

Table 6-1. Task status definitions

Task Status	Definition
Pending Predecessor	A task that is holding for one or more predecessors to be completed.
Ready	A task that is ready to be worked on by its resource.
In Progress	A task that is moving through the actions necessary for its completion.
Completed	A task that has been finished.
Cancelled	A task that is not complete and will not be worked on, as it is no longer required for the completion of the project.
Complete (Pending Predecessor)	A task that has been finished but requires its predecessor to be complete before being truly done.

Table 6-2. Summary task status definitions (page 1 of 2)

Task Status	Definition
In Planning	This section of the work plan is still being developed and is not ready to execute.
Active	This section of the plan is available to execute. Resources cannot report actuals against a work plan until it becomes Active .

Table 6-2. Summary task status definitions (page 2 of 2)

Task Status	Definition
On Hold	This section of the plan has been put on hold. This may be because re-planning was needed, a future phase is still being planned, or work has been temporarily suspended.
Completed	This section of the plan has completed execution. All of the tasks in this section are either completed or cancelled.
Cancelled	This section of the plan has been cancelled and will never complete. All of the tasks in this section are cancelled.

Depending on their defined level of responsibility in a project, users can only be able to change tasks between certain statuses.



For example, project managers can change a task from **Ready** to **In Progress** to **Cancelled**, or from **Cancelled** back to **Ready**. Project participants cannot change the task status directly. The task status is derived based on the actuals reported by resources.

Available task statuses can also depend on the status of the work plan.

Adding Tasks to Work Plans

Tasks can be added to a work plan individually or in a pre-sequenced group, as defined in a work plan template.

Tasks can also be quickly and easily organized in a hierarchical fashion. See *Adding Tasks and Creating Work Plan Hierarchy* on page 67 for more information.

Creating a Milestone

Tasks can be converted into milestones.

To create a milestone from a task:

1. Double-click the task to be edited.

The Task Details page opens.

2. Select the **Mark task as milestone** checkbox.

This automatically changes the task's duration to 0, which you can edit manually if you want its duration to be greater.

If you want the milestone to mark itself as complete automatically when all predecessors are complete, select the **Milestone automatically completes** checkbox. This option is unavailable for milestones with duration other than 0.

3. Modify any other information under each tab in the Task Details page as desired (for details, see *Editing Task Information*).
4. Click **Save**.



A task will be automatically converted to a milestone if its duration is 0.

Editing Task Information

Task information is edited in the Task Details page, which can be reached from the Work Plan page or the Resource Usage page. HP Project Management allows you to navigate from task to task without needing to return to the Work Plan page.

Figure 6-1. Task Details page

The screenshot shows the 'Task Details' page for 'Acceptance Test'. At the top, there are navigation links for 'View Task Audit Trail', 'All Tasks', 'Prev', and 'Next'. The task name is 'Acceptance Test' and the project path is 'Execution Phase - Exposing Mainframe Account Data > Acceptance, Training, Rollout > Acceptance Test'. The status is 'Pending Predecessor' and the sequence number is 26. The description field is empty. The task is 0% complete. There are checkboxes for 'Mark task as milestone', 'This is a major milestone', and 'Milestone automatically completes'. Below this is a 'Delete Task' button and tabs for 'Schedule', 'Resources', 'Notifications', 'Notes', and 'References'. The 'Schedule' tab is active, showing a table with columns for Duration (days), Effort (hours), Start Date, and Finish Date. The 'Scheduled' row shows 3.00 days, 24.00 hours, 7/10/07, and 7/12/07. The 'Actual' row shows 0.00 days and 0.00 hours. Below the table are 'Constraints' and 'Predecessors' sections. The 'Scheduling Constraint' is 'As Soon As Possible'. The 'Predecessors' section has a table with columns for Type, Name, Relationship, and Lag (Days), and an 'Add a predecessor...' button. At the bottom, there are 'Critical Path Metrics' showing that the task is part of the critical path, with early start and finish dates of Jul 10, 2007 and Jul 12, 2007, and late start and finish dates of Jul 11, 2007 and Jul 13, 2007. The slack is 1.

Click **Prev** and **Next** on the Task Details page to navigate from task to task, as they are displayed on the Work Plan page.

- Task-to-task navigation takes into account the expand/collapse state of the Work Plan page. If a summary task is collapsed on the Work Plan page, clicking **Next** will not navigate through the summary task's children.
- Task-to-task navigation also takes into account any *Filters* that have been applied to the Work Plan page. If a filter has been applied to the Work Plan page, clicking **Next** navigates to the next task in the filtered set.

Summary tasks may be shown on the Work Plan page in grey italics to provide context to a filtered set. These grey tasks are skipped when navigating from task to task using the **Prev** and **Next** buttons in the Task Details page.

To edit task information in the Task Details page:

1. Open the Work Plan page for the project you are editing.
2. Double-click the task to be edited.

The Task Details page opens.

3. Make whatever changes are necessary in the Task Details page.
4. Click **Save**.

Assigning Resources

Project managers can assign resources to new tasks being added in the Add Tasks page. Resources can be assigned to existing tasks using the Task Details page. All resources must satisfy one of the following conditions in order to be assigned to a task:

- The resource is named on the staffing profile attached to the project
- The resource belongs to a resource pool managed by the project manager

Other resources should be requested from other resource pools using standard staffing profile functionality. See the *HP Resource Management User's Guide* for more detailed information on staffing profiles and their interaction with resource pools.

Assigning Resources in the Add Tasks Page

Resources can be assigned for new tasks in the Add Tasks page directly by clicking the **Resource** icon.

To assign resources to a new task:

1. Create a new task in the Add Tasks page.
2. Click the **Resource** icon to assign a resource.
3. Click **Done**.

Assigning Resources in the Task Details Page

Resources can be assigned to existing tasks using the Task Details page.

To assign resources to existing tasks:

1. Locate the task to be assigned and double-click it.

The Task Details page opens.

2. Click the **Resources** tab.
3. Click **Add Resource** to assign a resource, or the **Resource Finder** icon to search for and assign an appropriate resource.

See the *HP Resource Management User's Guide* for more detailed information on using the Resource Finder.

4. Click **Save**.

Multiple resources can be assigned to tasks. Once multiple resources have been assigned, their individual effort hours or booked skill can be adjusted at any time.

Managing Scheduled Effort

Scheduled effort for a task can be calculated automatically by Project Management or entered manually. By default, the method of scheduled effort calculation is set at the project level by the **Cost and Effort** policy, but depending on those settings, it can be changed on a task-by-task basis.

- If you choose to **Automatically calculate Scheduled Effort**, the system assumes that each resource will work full-time on the task. The scheduled effort is calculated by multiplying the resource's number of work hours per day by the task's duration. Changing the task's duration changes the resource's scheduled effort automatically.

- If you choose to **Manually enter Scheduled Effort per task assignment**, you can manually enter a scheduled effort value for each resource assigned to the task. This could be useful for cases where resources are not expected to work full-time on tasks, and especially for projects where detailed effort estimates are required in the planning stages. Changing the task's duration does not change effort information. Effort for new tasks is set at 0.

Any remaining unassigned effort for each task is collected by an **Unassigned Effort** field. This allows the remaining effort on a task to be assigned to resources incrementally as they are identified.

Assigning Skills or Roles

When creating a work plan, you can assign a skill set or role to any task without specifying a resource. This allows you to create a work plan that identifies the roles or skills needed to complete its tasks without necessarily pinpointing the specific resources that will ultimately do the work. Additionally, capturing roles or skills required to complete tasks provides a more detailed estimate of the project cost; this helps make sure the budget is correct and the right resources are allocated.

To assign a role to an existing task:

1. Locate the task to be assigned and double-click it.
The Task Details page opens.
2. Click the **Resources** tab.
3. Select an **Assigned Role** for the task.
4. Click **Save**.



If you assign a resource to a task, the Assigned Role field will automatically populate with the resource's primary role, if one has been defined.

To assign a skill to an existing task:

1. Locate the task to be assigned and double-click it.
The Task Details page opens.
2. Click the **Resources** tab.
3. Click **Add Skill** to select a skill.
4. When the skill is added, select a proficiency from the **Ideally** column.
5. Click **Save**.

Configuring Task Predecessors

Task predecessors are configured from the Task Details page. A predecessor is a task that has a defined relationship between its start or finish date, and the start or finish dates of the task that is dependent on it.

- See *Setting Up Predecessors* on page 71 for more detailed information on setting task predecessors.
- Although tasks can only have predecessor relationships to other tasks, a task may have references defined that identify relationships to other entities (for example, an informational reference to a package used to roll out code developed as part of a task's completion). See *Attaching References to Tasks* on page 105 for more information on how to assign relationships between tasks and references.

Setting Scheduling Constraints

In addition to its relationship with other tasks in the work plan, a task may have other date-related constraints. For example, a project manager may want to specify that a task must start on a particular date, or finish no later than a particular date. These constraints provide valuable information about tasks, and are also used by Project Management to generate the work plan schedule.

Scheduling constraints are set in the **Schedule** tab of the Task Details page. Constraints can be defined for summary tasks or their children. If a constraint is defined for a summary task, it also applies to all of its child tasks. *Table 6-3* describes the constraints available for tasks and summary tasks.

Table 6-3. Scheduling constraints for tasks and summary tasks

Constraint	Description	Summary Task Availability
As Soon As Possible	The task will be scheduled as early as the work plan structure and dependencies allow. This is inferred if no constraint is defined.	Y
As Late As Possible	The task will be scheduled as late as the work plan structure and dependencies allow.	N
Start No Earlier Than	The task cannot start before the date specified.	Y
Start No Later Than	The task should start on or before the date specified.	N
Finish No Later Than	The task must finish by the date specified.	Y
Must Start On	The task must start on the date specified.	N
Finish No Earlier Than	The task should not finish before the date specified.	N
Must Finish On	The task must finish on the date specified.	N

Figure 6-2. Task Details page: Schedule tab

View Task Audit Trail All Tasks **Prev** **Next**

Task Details: 26 - Acceptance Test **Save** **Done** **Cancel**

Name: Acceptance Test

Project Path: Execution Phase - Exposing Mainframe Account Data > Acceptance, Training, Rollout > Acceptance Test

Status: Pending Predecessor **Sequence #:** 26

Description:

% Complete: 0 **Activity:** **Priority:** 0

Mark task as milestone
 This is a major milestone
 Milestone automatically completes

Delete Task

Schedule | Resources | Notifications | Notes | References

	Duration (days)	Effort (hours)	Start Date	Finish Date
Scheduled:	3.00 day(s)	24.00 hr(s)	7/10/07 <input type="text"/>	7/12/07 <input type="text"/>
Actual:	0.00 day(s)	0.00 hr(s)		

Constraints

Scheduling Constraint: As Soon As Possible **Constraint date:**

Predecessors

Type	Name	Relationship	Lag (Days)
Add a predecessor...			

Critical Path Metrics

This task is part of the critical path.

Early Start Date: Jul 10, 2007 **Early Finish Date:** Jul 12, 2007
Late Start Date: Jul 11, 2007 **Late Finish Date:** Jul 13, 2007
Slack: 1

To set a task's scheduling constraints:

1. Locate the task to be assigned and double-click it.
The Task Details page opens.
2. Click the **Schedule** tab in the Task Details page.
3. Under **Scheduling Constraints**, select the type of constraint you want to use from the **Constraint Type** field.
4. Type a date in the **Constraint Date** field.
5. Click **Save**.

Adding Notes

Users can enter free-form text in the **Notes** tab of the Task Details page. Saved entries are marked with a timestamp.

Figure 6-3. Task Details page: Notes tab

The screenshot shows the 'Task Details' page for '26 - Acceptance Test'. At the top, there are navigation links for 'View Task Audit Trail', 'All Tasks', 'Prev', and 'Next'. Below this, the task name 'Acceptance Test' is displayed in a text box. The 'Project Path' is 'Execution Phase - Exposing Mainframe Account Data > Acceptance, Training, Rollout > Acceptance Test'. The 'Status' is 'Pending Predecessor' and the 'Sequence #' is '26'. The 'Description' field is empty. Below this, there are fields for '% Complete' (0), 'Activity' (a dropdown menu), and 'Priority' (0). There are three checkboxes: 'Mark task as milestone', 'This is a major milestone', and 'Milestone automatically completes'. A 'Delete Task' button is located below the checkboxes. At the bottom, there are tabs for 'Schedule', 'Resources', 'Notifications', 'Notes', and 'References'. The 'Notes' tab is selected, and a large text area for entering notes is visible. Below the text area, there is a section for 'Existing Notes'.

To add notes to a task:

1. Locate the task to be assigned and double-click it.
The Task Details page opens.
2. Click the **Notes** tab.
3. Type any notes into the **Notes** field.
4. Click **Save**.



The **Notes** tab can contain up to 32K of information per work plan.

Setting Up Notifications

You can set up email notifications in the Task Details page to be sent to users when certain events occur during project execution. Notifications that are defined for a summary task apply automatically to all of the summary task's children, though notifications that have been defined directly for a child task override any notifications set by the parent. *Table 6-4* describes the possible notifications.

Figure 6-4. Task Details page: Notifications tab

The screenshot shows the 'Task Details' page for a task named 'Acceptance Test'. The interface includes a breadcrumb trail, navigation buttons (Save, Done, Cancel), and a 'Send Notifications' section with several notification rules. Each rule has a checkbox, a description, and associated configuration fields like 'Days in advance', 'Frequency', and recipient lists (Project Participants, Resources, Security Group(s)).

Notification Rule	Configuration
<input type="checkbox"/> Notify resources before their task(s) begin	Days in advance: 0
<input type="checkbox"/> Notify resources if their task(s) are running late	Frequency: Once
<input type="checkbox"/> Notify if task(s) are running late	Notify if late by: 0 Day(s) Frequency: Once
<input type="checkbox"/> Notify when a milestone is reached	Project Participants:
	Resources:
	Security Group(s):
<input type="checkbox"/> Notify when an exception occurs	Project Participants:
	Resources:
	Security Group(s):

Table 6-4. Possible email notifications for tasks

Notification	Description
Notify resources before their task(s) begin	Notifies a resource before their tasks begin. You can set the number of days in advance of the start date from which to send the notification.
Notify resources if their task(s) are running late	Notifies a resource that their tasks are running late. You can specify the frequency with which this notification is sent.
Notify if task(s) are running late	Notifies a wider range of users of tasks in the work plan that are running late. You can specify: <ul style="list-style-type: none"> ■ The number of late days required to trigger the notification ■ The frequency with which the notification is sent ■ Sets of users to send the notification to
Notify when a milestone is reached	Notifies a set of users when the task has been reached, if it is a milestone. You can specify sets of users to send the notification to.
Notify when an exception occurs	Notifies a set of users when the task has triggered an exception. You can specify sets of users to send the notification to.

To set up a notification for a task:

1. Locate the task to be assigned and double-click it.
The Task Details page opens.
2. Click the **Notifications** tab.
3. Select the checkboxes next to the appropriate notifications.
4. Click **Save**.

Entering Cost Data

If Project Management's Financial Management capability has been enabled for this project, you can track and enter actual cost data in the **Cost** tab of the Task Details page. See the *HP Financial Management User's Guide* for more detailed information.

Attaching References to Tasks

HP Project Management features a number of methods for capturing additional information, or references, related to your projects. References are attached from the **References** tab of the Task Details page.

Figure 6-5. Task Details page: References tab

The screenshot displays the 'Task Details' page for a task named 'Acceptance Test'. At the top, there are navigation links for 'View Task Audit Trail', 'All Tasks', 'Prev', and 'Next'. Below this, the task name 'Task Details: 26 - Acceptance Test' is shown with 'Save', 'Done', and 'Cancel' buttons. The 'Name' field contains 'Acceptance Test'. The 'Project Path' is 'Execution Phase - Exposing Mainframe Account Data > Acceptance, Training, Rollout > Acceptance Test'. The 'Status' is 'Pending Predecessor' and the 'Sequence #' is '26'. The 'Description' field is empty. Below this, there are fields for '% Complete: 0', 'Activity:' (a dropdown menu), and 'Priority: 0'. There are three checkboxes: 'Mark task as milestone', 'This is a major milestone', and 'Milestone automatically completes'. A 'Delete Task' button is located below the checkboxes. A tabbed interface shows 'Schedule', 'Resources', 'Notifications', 'Notes', and 'References' (which is the active tab). Below the tabs is a 'Reference Additions' section with a 'New Reference:' dropdown set to 'Attachment' and an 'Add' button. At the bottom, there is a 'References to be added on Save:' section with an empty text area and 'Open' and 'Remove' buttons.

To attach references to a task:

1. Locate the task and double-click it.

The Task Details page opens.

2. Click the **References** tab.
3. Attach the reference.

Attaching Existing Requests

To attach an existing request to a task:

1. Locate the task to be assigned and double-click it.

The Task Details page opens.

2. Click the **References** tab.
3. Select **Request (Existing)** from the **New Reference** field.

4. Click **Add**.

The Add Reference: Request window opens.

5. Search for the request you want to add to the task.
6. Select the checkbox next to the desired request, the desired relationship to the request, and click **Add**.

See *Setting Up Predecessors on page 71* for more detailed information on predecessor relationships between requests and tasks.

You return to the **References** tab in the Task Details page. The new attached request displays as a reference.

7. Click **Save**.

Attaching New Requests

A new request can be created from the **References** tab and immediately attached to a task. This saves time from having to create a new request in HP Demand Management, searching for it, and attaching it to the task.

To attach a new request to a task:

1. Locate the task to be assigned and double-click it.

The Task Details page opens.

2. Click the **References** tab.
3. Select **Request (New)** from the **New Reference** field.
4. Click **Add**.

The Create New Request window opens.

5. Select the desired relationship to the new request.

See *Setting Up Predecessors on page 71* for more detailed information on predecessor relationships between requests and tasks.

6. Select a request type from the **Request Type** field.
7. Click **Create**.

The standard interface opens with the request type loaded.

8. Provide any necessary information in the request's fields.

9. Click **Submit**.

The request is submitted. You return to the **References** tab in the Task Details page. The new attached request displays as a reference.

10. Click **Save**.

Attaching Existing Packages

To attach a package to a task:

1. Locate the task to be assigned and double-click it.

The Task Details page opens.

2. Click the **References** tab.
3. Select **Package** from the **New Reference** field.
4. Click **Add**.

The Add Reference: Package window opens.

5. Search for the package you want to add to the task.
6. Select the checkbox next to the desired package and click **Add**.

You return to the **References** tab in the Task Details page. The new attached package displays as a reference.

7. Click **Save**.

Attaching New Packages

A new package can be created from the **References** tab and immediately attached to a task. This saves time from having to create a new package in Deployment Management, searching for it, and attaching it to the task.

To attach a new package to a task:

1. Open the Task Details page.
2. Click the **References** tab.
3. Select **Package (New)** from the **New Reference** field.
4. Click **Add**.

The Create New Package window opens.

5. Click **Create**.

The Package window opens.

6. Provide any necessary information in the package's fields.

7. Click **Save**.

The package is submitted. You return to the **References** tab in the Task Details page. The new attached package displays as a reference.

8. Click **Save**.

Attaching Tasks

To attach a task to a task:

1. Locate the task to be assigned and double-click it.

The Task Details page opens.

2. Click the **References** tab.
3. Select **Task** from the **New Reference** field.
4. Click **Add**.

The Search Tasks window opens.

5. Search for the task you want to add to the task.
6. Select the checkbox next to the desired task and click **Add**.

You return to the **References** tab in the Task Details page. The new attached task displays as a reference.

7. Click **Save**.

Attaching Releases

To attach a release to a task:

1. Locate the task to be assigned and double-click it.

The Task Details page opens.

2. Click the **References** tab.
3. Select **Release** from the **New Reference** field.

4. Click **Add**.

The Add Reference: Release window opens.

5. Select a release to add.

6. Click **Add**.

You return to the **References** tab in the Task Details page. The new attached release displays as a reference.

7. Click **Save**.

Attaching Documents

To attach a document to a task:

1. Locate the task to be assigned and double-click it.

The Task Details page opens.

2. Click the **References** tab.

3. Select **Attachment** from the **New Reference** field.

4. Click **Add**.

The Add Document window opens.

5. To select a document for an attachment, click the **File Chooser** icon.

Open the drive and directory where the file you want to attach is located and select it. The name of the document displays in the **Attachment** field.

6. Type a description in the **Description** field.

7. Click **Add**.

You return to the **References** tab in the Task Details page. The new attached document displays as a reference.

8. Click **Save**.

Attaching URLs

To attach a URL to a task:

1. Locate the task to be assigned and double-click it.

The Task Details page opens.

2. Click the **References** tab.
3. Select **URL** from the **New Reference** field.
4. Click **Add**.

The Create New Reference URL window opens.

5. Type the name of the URL in the **URL** field.
6. Type a description in the **Description** field.
7. Click **Add**.

You return to the **References** tab in the Task Details page. The new attached URL displays as a reference.

8. Click **Save**.

Changing the Task Status

A task's status can be changed from the Task Details page. See [Task Statuses on page 93](#) for detailed discussion of task statuses.

To change a task's status from its Task Details page

1. Locate the task to be assigned and double-click it.

The Task Details page opens.

2. Select the new task status from the **Status** field at the top of the page.
3. Click **Save**.

7 Managing a Project

In This Chapter:

- *Overview of Managing a Project*
- *Setting Up a Project*
 - *Project Statuses*
- *Adding Tasks to a Work Plan*
- *Taking a Baseline*
- *Revising the Work Plan*
 - *Viewing and Modifying Work Plan Hierarchy*
 - *Work Plan Statuses*
 - *Configuring and Updating Multiple Tasks Simultaneously*
 - *Updating Scheduling and Dependencies*
 - *Concurrent Work Plan Editing*
 - *Viewing the Project Critical Path*
- *Using the Project Overview*
 - *Searching for Projects*
 - *Viewing the Work Plan*
 - *Viewing the Project Health*
 - *Viewing Milestones*
 - *Viewing Project Earned Value (EV) Analysis*
 - *Viewing Project Control Items*
 - *Viewing Project Staffing*
 - *Viewing Program Associations*
 - *Viewing Project Cost Data*
 - *Approving Project Time*
 - *Viewing Exceptions*
 - *Printing the Project Overview*
 - *Using the PPM Dashboard to View Progress*
- *Submitting Project Control Items*
 - *Logging Issues*
 - *Logging Risks*
 - *Logging Scope Changes*
- *Viewing Project Settings and Participants*
- *Controlling Project Dates*
- *Working with Baselines*
 - *Taking a Baseline*
 - *Managing Baselines*
 - *Comparing Baselines*
- *Tracking and Analyzing Project Costs*

- *Exporting and Printing a Work Plan*
 - *Exporting to PDF Files*
 - *Exporting to Microsoft Excel Files*
 - *Tracking Work Plan Audit History*
 - *Completing, Cancelling, and Deleting Projects*
 - *Completing Work Plans*
 - *Canceling Work Plans*
 - *Deleting a Project*
-

Overview of Managing a Project

This chapter describes how to oversee a project from inception to completion using HP Project Management.

Business initiatives can be divided into a set of goals that must be met through the completion of measurable tasks by assigned resources. The tasks must be monitored to determine if they are on schedule. In order to provide organization and structure for these activities, a project manager is responsible for managing the project and its work plan.

Some common responsibilities for project managers include:

- Creating and managing the work plan through ongoing adjustments, scope changes, and detailed phase planning.
- Tracking progress to ensure that the project is performing well in terms of its deliverables and costs.
- Communicating project status to participants and stakeholders, including the creation and appropriate escalation of project-related issues.

Project managers can integrate and streamline these responsibilities using the features of Project Management. The following sections provide instructions for performing common Project Management tasks, such as setting up a project and tracking its status.



In Project Management, project managers are those users who have specific Project Management-related access grants. See the *Security Model Guide and Reference* for details.

This chapter discusses:

- *Setting Up a Project*

Every project contains a set of options to configure that are specific to the project, such as what information is tracked and displayed, the rules for the display of indicators and exceptions, scheduling, and who can view the work plan. These settings are defaulted by the project type.

- *Adding Tasks to a Work Plan*

After the global options have been configured for a project, tasks and summary tasks can be arranged and ordered into a meaningful hierarchy.

- *Taking a Baseline*

Project managers can take a baseline of their work plans, which can be used to monitor a work plan's changes as it moves through its life cycle.

- *Revising the Work Plan*

A project manager may also want to make revisions to the work plan. After making revisions, a project manager might find it necessary to then reschedule the work plan. This includes recalculating start and finish dates.

- *Using the Project Overview*

Managers can search for projects, as well as track a particular project's progress using its project health. Any exceptions that have been triggered can also be displayed.

- *Tracking and Analyzing Project Costs*

Project cost data can be collected and analyzed by the project manager to track budgets, compare project sizes, or spot potential trouble.

- *Tracking Work Plan Audit History*

The project itself, including fields in the work plan, can have their status changes recorded and viewed for projects and tasks.

- *Exporting and Printing a Work Plan*

Project managers can print a work plan and Gantt chart, with a wide range of filtering options. The Gantt chart can also be exported to an image file and used in presentations.

When a user creates or edits a work plan or summary task, that user is the only one able to save changes.



In the case of two users wanting to edit two different summary tasks under one project, opening and editing only the desired summary tasks will enable each user to save changes without interfering with each other.

See [Concurrent Work Plan Editing on page 127](#) for more detailed information.



When you import a large Microsoft Project (or a large number of projects) into HP Project Management, tables in the PPM Center database are updated to handle this new configuration. Because of the scope of database changes, you should re-run the database statistics on your PPM Center database. Contact your application administrator for help with this procedure.

Setting Up a Project

A project in HP Project Management is made up of the following components:

- Project settings
- Project details
- Work plan
 - Tasks
 - Summary tasks
 - Activities
 - Notes
 - References

These components are used to define and process a specific business initiative. The project also contains a number of global settings that can be configured to suit a particular project's objectives. These settings are defined by project policies, which are defined by the project type. Depending on the configuration of project policies, some of these settings may not be editable. See the following sections for more information on project policies:

- [Project Fields on page 38](#)
- [Work Plan on page 40](#)
- [Request Types on page 41](#)
- [Scheduling on page 42](#)

- *Schedule Health* on page 44
- *Cost and Effort* on page 45
- *Cost and Earned Value Health* on page 50
- *Microsoft Project Integration* on page 51
- *Project Health* on page 53
- *Issue Health* on page 54
- *Task Auditing* on page 55
- *Project Security* on page 55

Project Statuses

The **Project Details** tab of the Project Overview page displays the status of the project in its process. These statuses can vary depending on whether the process has been altered (see the *HP Project Management Configuration Guide* for details). The default set of project statuses is as follows:

- **In planning**
- **On Hold**
- **Active**
- **Complete**
- **Cancelled**

Adding Tasks to a Work Plan

Once the project has been configured, the project manager can add tasks to the work plan and specify task details, including assigning resources or resource groups. Tasks can be added individually, or the work plan can be created based on a pre-defined work plan template. Tasks can also be organized in a hierarchical fashion quickly and easily.

See the following chapters and sections for more details on including tasks in a work plan:

- *Adding Tasks to the Work Plan* on page 68
- *Configuring Tasks* on page 91
- *Using Work Plan Templates* on page 173

Taking a Baseline

A baseline is the original approved work plan for a project. As scope changes happen, the baseline is updated to reflect those changes as part of the approved plan. A project manager uses baselines to continuously monitor the health of their work plan in terms of schedule and cost by comparing the current work plan to the baseline.

See [Working with Baselines on page 146](#) for more detailed information about taking and using work plan baselines.

Revising the Work Plan

Work plans rarely remain unchanged during a project's life. Revisions are commonly made to accommodate project updates, reorganizations and reassignments. HP Project Management enables project managers to revise their plan quickly.



When a user creates or edits a work plan or summary task, that user is the only one able to save changes. See [Concurrent Work Plan Editing on page 127](#) for more detailed information.

Viewing and Modifying Work Plan Hierarchy

The ordering and grouping of tasks and summary tasks is graphically displayed in the Work Plan page.

Figure 7-1. Work Plan page: Schedule view

Seq	Name	Status	Role	Resources	Sch... Dur...	Scheduled Start	Scheduled Finish	Sch... Effort (hrs)	Un... Effort (hrs)	Predeces...
25	Acceptance, Training, Rollout	Active			4.00	7/10/07	7/13/07	112...		24
26	Acceptance Test	Pending Pr...	Network Admi...		3.00	7/10/07	7/12/07	24.00	24.00	
27	Rework	Pending Pr...	Developer - Ja...	John Groo...	3.00	7/10/07	7/12/07	48.00	0.00	
28	Design Training	Pending Pr...		Barbara G...	1.00	7/10/07	7/10/07	8.00	0.00	
29	Training	Pending Pr...		Barbara G...	2.00	7/10/07	7/11/07	16.00	0.00	
30	Deploy to Production	Pending Pr...		Raymond ...	2.00	7/12/07	7/13/07	16.00	0.00	29

Tasks can be grouped and ordered into summary tasks, using the indent icon to indent. Summary tasks can have their tasks removed and made into separate tasks using the outdent icon to outdent. Top-to-bottom reordering can be performed on summary tasks and tasks as well, using the **Cut** and **Paste** icons. For step-by-step instructions, see [Creating Work Plan Hierarchy on page 69](#).

Work Plan Statuses

To display the different stages in a work plan's life from planning to completion, a work plan can have various statuses associated with it. These statuses are **In Planning**, **On Hold**, **Active**, **Completed** and **Cancelled**. Project managers can move work plans into different statuses to facilitate the work associated with that stage of the project. [Table 7-1](#) describes the various work plan statuses, their behaviors, and applications.

Table 7-1. Work plan statuses and descriptions (page 1 of 2)

Work Plan Status	Behavior	Application
In Planning	<p>Work plans and their tasks are not shown in the My Tasks portlet or the PPM Dashboard.</p> <p>Notifications are not sent and exceptions are not triggered.</p> <p>All work plans start in this status.</p>	<p>This status allows a project manager to develop and manipulate the work plan without having to notify participants or stakeholders.</p>
Active	<p>Work plans and their tasks can be seen in My Tasks and in the PPM Dashboard.</p> <p>Notifications are sent and exceptions are triggered.</p> <p>Work plan structure can change.</p>	<p>This is the status of a work plan that is ready to be executed and is being actively managed.</p>

Table 7-1. Work plan statuses and descriptions (page 2 of 2)

Work Plan Status	Behavior	Application
On Hold	Notifications are not sent and exceptions are not triggered. Hierarchy can be modified.	This status is used when a portion of an active plan needs to be withheld from execution, perhaps because it needs replanning or because work is being temporarily suspended while a review takes place. It is possible to put an entire work plan in this status.
Completed	Work plans and their tasks can be seen in the PPM Dashboard but not in My Tasks. Notifications are not sent and exceptions are not triggered.	This is the status of a work plan that has been worked to completion. Tasks cannot be added to a section that is Completed.
Cancelled	Work plans and their tasks can be seen in the PPM Dashboard but not in the My Tasks portlet. Notifications are not sent and exceptions are not triggered.	This status is used to indicate that the deliverables in this section of a work plan will not be completed, and are no longer required to be completed in order for the project to finish.

HP Project Management also features a set of task statuses. For a list of task statuses, see [Task Statuses on page 93](#).

Modifying Statuses

Project managers can change statuses for the entire work plan, summary tasks, or tasks at any time.



A work plan in the status Completed or Cancelled cannot be edited. The project must be re-opened in order for the work plan to be edited.

To change the status of the project:

1. Open the project to edit.

For more details on searching for and opening projects, see [Searching for Projects](#) on page 131.

2. On the Project Overview page, click **Edit Work Plan**.

The Work Plan page opens.

3. In the **Schedule** view, double-click the row at the top of the hierarchy.

The Task Details page opens.

4. Select a new **Status** at the top of the page.

5. Click **Save**.

To change the status of a task or summary task:

1. Open the project to edit.

For more details on searching for and opening projects, see [Searching for Projects](#) on page 131.

2. On the Project Overview page, click **Edit Work Plan**.

The Work Plan page opens.

3. In the **Schedule** view, double-click the task or summary task whose status you want to change.

The Task Details page opens.

4. Select a new **Status** at the top of the page.

5. Click **Save**.

Configuring and Updating Multiple Tasks Simultaneously

You can select multiple tasks in the Work Plan page and perform simultaneous updates on them in the following ways:

- Editing certain fields common to all selected tasks
- Updating actuals for selected tasks
- Changing resource assignments for selected tasks
- Changing assigned roles for selected tasks
- Shifting scheduled dates for selected tasks forward or backward
- Linking selected tasks sequentially as predecessors
- Setting status for selected tasks

Use either of the following methods to select multiple tasks simultaneously:

- Use **shift** + click to highlight a set of contiguous rows.
- Use **ctrl** + click to make multiple non-contiguous selections.

Editing Fields on Multiple Tasks Simultaneously

Certain fields common to all tasks can be edited and saved simultaneously for any set of tasks, including but not limited to:

- Name
- Scheduled duration
- Resource
- Activity

To edit common fields for a set of tasks simultaneously in the Quick Edit page:

1. Open the project to edit.

For more details on searching for and opening projects, see *Searching for Projects* on page 131.

2. On the Project Overview page, click **Edit Work Plan**.

The Work Plan page opens.

3. Select multiple tasks using **shift** + click or **ctrl** + click.

You must select an uninterrupted range of tasks in order to open them in the Quick Edit page. Collapsed summary tasks can be included.

4. Click **Edit** and select **Quick Edit**.

The Quick Edit page opens.


5. Make the desired changes to the set of tasks.

6. Click **Save**.

The changes are saved.

Updating Actuals for Multiple Tasks Simultaneously

Actuals data can be edited simultaneously for any set of tasks.

 If HP Time Management has been enabled for a project, you may not be able to enter **Actual Effort** values for resources whose actuals are expected to be entered through HP Time Management time sheets. These tasks are marked with an icon resembling a clock.

To update actuals for a set of tasks simultaneously:

1. Open the project to edit.

For more details on searching for and opening projects, see [Searching for Projects](#) on page 131.

2. On the Project Overview page, click **Edit Work Plan**.

The Work Plan page opens.

3. Select multiple tasks using **shift** + click or **ctrl** + click.

4. Click **Edit** and select **Actuals**.

The Enter Actuals page opens.

5. Make the desired updates to the set of tasks.

6. Click **Save**.

The changes are saved.

When actuals are entered into HP Project Management, certain calculations are deferred. See [Calculating Actuals](#) on page 127 for more details.

Changing Resource Assignments for Multiple Tasks Simultaneously

Resource assignments can be edited simultaneously for any set of tasks in the following ways:

- A particular resource or set of resources can be assigned to all selected tasks.
- A particular resource or set of resources can be removed from all selected tasks.

Resources whose assignments have actuals cannot be removed from a task.

- A particular resource on all selected tasks can be swapped with another resource.

Assignments that have already started are not swapped. If task scheduled effort is being managed manually, the new resource inherits the old resource's scheduled effort.

- Resource assignments on all selected tasks can be removed without affecting tasks that have already started.

Tasks with actuals are not changed.

- All resource assignments on all selected tasks can be replaced with another resource or set of resources.

Tasks with actuals are not changed. If task scheduled effort is being managed manually, the new resource's scheduled effort is set to zero.

To change resource assignments for a set of tasks simultaneously:

1. Open the project to edit.

For more details on searching for and opening projects, see [Searching for Projects on page 131](#).

2. On the Project Overview page, click **Edit Work Plan**.

The Work Plan page opens.

3. Select multiple tasks using **shift** + click or **ctrl** + click.

4. Click **Edit** and select **Assignments**.

The Resource Assignments dialog opens.

5. Make the desired changes to the resource assignments for the selected tasks.

6. Click **OK**.

The changes are saved immediately.

Changing Assigned Roles for Multiple Tasks Simultaneously

The assigned role can be edited simultaneously for any set of tasks. The new role takes the place of any previous role assignments for all the tasks in the set.

To change resource assignments for a set of tasks simultaneously:

1. Open the project to edit.

For more details on searching for and opening projects, see [Searching for Projects on page 131](#).

2. On the Project Overview page, click **Edit Work Plan**.

The Work Plan page opens.

3. Select multiple tasks using **shift** + click or **ctrl** + click.

4. Click **Edit** and select **Set Role**.

The Set Role dialog opens.

5. Select the desired role for the selected tasks.

6. Click **OK**.

The changes are saved immediately.

Shifting Scheduled Dates for Multiple Tasks Simultaneously

You can shift the scheduled dates for any set of tasks forward or backward by any number of days. All of the selected tasks will shift the same number of days in the same direction.



This feature should only be used if you are not using the HP Project Management scheduler (accessed by clicking the **Schedule Project** icon) as described in [Scheduling the Work Plan on page 76](#). If you have been using the scheduler, continuing to do so is the recommended method for scheduling your work plan.

To shift the scheduled dates for a set of tasks simultaneously:

1. Open the project to edit.

For more details on searching for and opening projects, see [Searching for Projects on page 131](#).

2. On the Project Overview page, click **Edit Work Plan**.

The Work Plan page opens.

3. Select multiple tasks using **shift** + click or **ctrl** + click.

4. Click **Edit** and select **Shift Schedule**.

The Shift Task Schedule dialog opens.

5. Enter the number of days by which to shift the schedule and select **Forward** or **Backward**.

6. Click **OK**.

The changes are saved immediately.

Quickly Linking Multiple Tasks as Predecessors

You can select a set of tasks and quickly link them sequentially as predecessors. The tasks will be assigned predecessor relationships based on their sequential order as defined by the work plan.

To change resource assignments for a set of tasks simultaneously:

1. Open the project to edit.

For more details on searching for and opening projects, see [Searching for Projects on page 131](#).

2. On the Project Overview page, click **Edit Work Plan**.

The Work Plan page opens.

3. Select multiple tasks using **shift** + click or **ctrl** + click.

4. Click **Edit** and select **Link Tasks**.

The Link Tasks dialog opens.

5. Click **Link Tasks**.

The changes are saved immediately.

Setting Status for Multiple Tasks Simultaneously

Task status can be edited simultaneously for any set of tasks.

To change resource assignments for a set of tasks simultaneously:

1. Open the project to edit.

For more details on searching for and opening projects, see *Searching for Projects* on page 131.

2. On the Project Overview page, click **Edit Work Plan**.

The Work Plan page opens.

3. Select multiple tasks using **shift** + click or **ctrl** + click.

4. Click **Edit** and select **Set Status**.

The Set Status dialog opens.

5. Select the desired status for the selected tasks.

6. Click **Change Status**.

The changes are saved immediately.

Updating Scheduling and Dependencies

Project managers are able to update aspects of a project at any time to reflect the changing status of a business initiative. Many of these aspects are task details that can be edited in batches as described in *Configuring and Updating Multiple Tasks Simultaneously* on page 120.

Changing Scheduled Duration, Start, and Finish

Many different task factors influence the work plan schedule, including their duration, start dates, constraints, and predecessor relationships. The **Scheduled Duration**, **Scheduled Start**, and **Scheduled Finish** fields can be changed in the Task Details page.

To change **Scheduled Duration**, **Start**, or **Finish** for a task:

1. Open the project to edit.

For more details on searching for and opening projects, see *Searching for Projects* on page 131.

2. On the Project Overview page, click **Edit Work Plan**.

The Work Plan page opens.

3. In the **Schedule** view, double-click the task to update.

The Task Details page opens.



If you want to update a summary task's Scheduled Duration, Start, or Finish, you must update its individual tasks' values.

4. Update fields in the **Schedule** tab.

To update **Scheduled Start** and **Finish** dates, type the desired date in the appropriate date field. To make sure these dates are set explicitly and will not change after the **Schedule Project** icon is clicked, select a **Constraint Type** (such as **Start No Earlier Than**) from the **Constraint Type** field.

To update **Scheduled Duration**, type the new information into the appropriate text field.

5. Click **Save**.

Changing Predecessors

You can specify different predecessor relationships between tasks in the work plan; for example, that some tasks must be completed before beginning other tasks. Predecessors can be changed from the Task Details page.

External tasks and requests can also be set as predecessors for tasks. For more information on setting these types of predecessors, see *Setting Up Predecessors* on page 71.

Revising the Schedule

If you have modified any of your work plan's hierarchy, predecessor dependencies, resources or dates, you might want to revise the schedule. Scheduling warnings can help you identify places where tasks are not meeting their dependencies.

When you reschedule the work plan, HP Project Management generates a new schedule for the entire work plan based on the updated dates, working from the default date specified by the project type in the *Scheduling* policy. Depending on the project type, you may be able to change the default date in the Project Settings page.



Only one user at a time can reschedule the work plan.

For more detailed information on updating a schedule, see *Generating the Schedule* on page 76.

Once you are satisfied with the new schedule, you may want to take a new baseline for the work plan. See *Taking a Baseline* on page 116 for more detailed information.

Concurrent Work Plan Editing

While only project managers should be editing a work plan, a single project may have many project managers who are editing different parts of the work plan. HP Project Management allows you to edit and update separate parts of work plans simultaneously, allowing for more efficient representation of changes to a project.

Avoiding Conflicts

In general, two users cannot make edits to the same task simultaneously.

- If two users are editing a task simultaneously, the only changes saved will be the first set. The second user will not be able to save any changes. This includes instances where a resource logs actuals for a task.

For example: Yukio is the manager for a project to which Bob is assigned.

- a. Yukio opens a task and begins to make changes.
 - b. Bob updates the actuals for that task using the My Tasks portlet and clicks **Save**.
 - c. Yukio is unable to save her changes to the task.
- An error message results if a user attempts to schedule the work plan while the work plan is being scheduled by another user.

It is recommended that project managers avoid making changes to the work plan during times when many resources will be entering actuals.

Calculating Actuals

When resources enter actuals through the My Tasks portlet or time sheets, the associated task information is saved, but the following calculations are deferred in order to allow resources to efficiently enter and save actuals:

- Rollup of cost data to parent summary tasks
- Calculation of exception
- Calculation of health

The schedule health and Work Plan page of a project display messages indicating that outstanding calculations are pending. The interval at which these calculations are made is determined by a parameter in the `server.conf` file on the PPM Server, which can be configured by a system administrator. A different parameter in the `server.conf` file makes it possible to configure HP Project Management to perform rollup calculations upon save. See the *HP Project Management Configuration Guide* for more detailed information on these server parameters.

Viewing the Project Critical Path

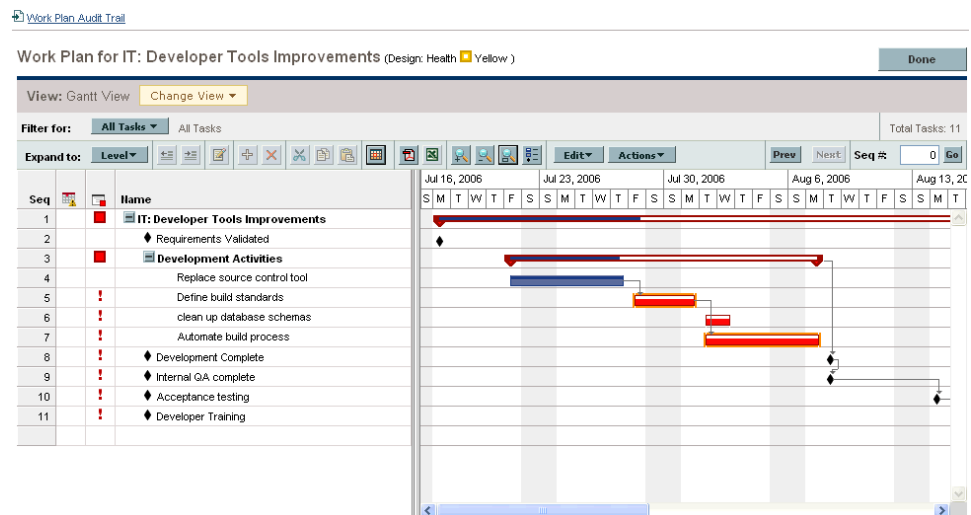
A work plan's critical path is composed of all of the tasks in a work plan that determine its duration. The Display Options dialog box offers two ways to make the critical path visible:

- The **Highlight Critical Path** checkbox allows you to display the critical path in the project Gantt chart. Tasks that are part of the critical path are outlined in orange.
- The **Mark Tasks on Critical Path** checkbox allows you to mark tasks on the critical path with an orange flag present in all work plan views.



The critical path is calculated after scheduling the work plan. If you have made changes to the work plan, you should reschedule it in order to obtain an accurate critical path.

Figure 7-2. Work Plan page: Gantt view displaying critical path



To see a work plan's critical path on the Gantt chart:

1. Open the project to edit.

For more details on searching for and opening projects, see *Searching for Projects* on page 131.

2. On the Project Overview page, click **Edit Work Plan**.

The Work Plan page opens.

3. Click **Actions** and select **Configure Display**.

The Display Options dialog box opens.

4. Select the **Highlight Critical Path** checkbox.

5. Click **Done**.

The Gantt chart displays the project's critical path.

Using the Project Overview

The Project Overview page provides a centralized, consolidated view of the project's statuses in many areas. It also serves as a central navigation point to the entities associated with the project, such as its budget and staffing profile, forming a consolidated hub of communication between the project manager and others interested in the project. The sections of the Project Overview page are self-configuring, appearing when they are relevant for the project, and only to users who have the proper level of access, such as cost-related sections. Using the Project Overview page and its sections, project managers can keep track of the items described in *Table 7-2*:

Table 7-2. Project Overview page tabs and sections

Tab	Possible Sections and Uses
Project Summary	<ul style="list-style-type: none">■ The progress of work plan phases and major milestones■ Exceptions that have been triggered■ Project issues■ Project risks■ Project scope changes■ Project staffing■ Project cost data including budgets and earned value (EV) analysis■ HP Time Management integration■ Programs the project is linked to
Project Details	<ul style="list-style-type: none">■ Project summary■ Business case details■ Risk and value ratings
Project Exceptions	Exceptions triggered by work plan tasks
References	References attached to the project

Searching for Projects

The Search Projects page is used to locate and open projects.

To locate and open a project:

1. Log on to PPM Center.
2. From the menu bar, select **Project Management > Projects & Tasks > Search Projects**.

The Search Projects page opens.

The screenshot shows the 'Search Projects' page with the following fields and options:

- Project Name contains:** [Text Input]
- Project Manager:** [Text Input]
- Project Type:** [List Selection]
- Planned Start Date From:** [Date Picker] **To:** [Date Picker]
- Planned Finish Date From:** [Date Picker] **To:** [Date Picker]
- Include Finished Projects:** Yes No
- Health:** [Red] [Yellow] [Green] None
- Associated Programs:** [List Selection]
- Region:** [List Selection]
- Sort By:** Project Name (dropdown), Ascending, Descending
- Results Displayed Per Page:** 50
- Search** button

3. Provide search criteria in the appropriate fields.

4. Click **Search**.

The Project Search page reloads, displaying the results of your search.

The screenshot shows the 'Search Projects' page with search results displayed in a table. The table has the following columns: Project Name, Status, Project Manager, Project Ilo, Region, Project Type, Project Start (period), and Project Finish (period). There are three rows of results, each with a checkbox in the first column.

Project Name	Status	Project Manager	Project Ilo	Region	Project Type	Project Start (period)	Project Finish (period)
<input type="checkbox"/> Internal Web Site Rollout - finance	Business Readiness Sign-Off	Joseph Banks	30015	MercuryUS	Web Site Rollout	June 2006	August 2006
<input type="checkbox"/> Internal Web Site Rollout - IT	Deploy	Joseph Banks	30016	MercuryUS	Web Site Rollout	January 2006	March 2006
<input type="checkbox"/> Internal Web Site Rollout - sales	Assign Project Manager	Joseph Banks	30014	MercuryUS	Web Site Rollout	June 2006	August 2006

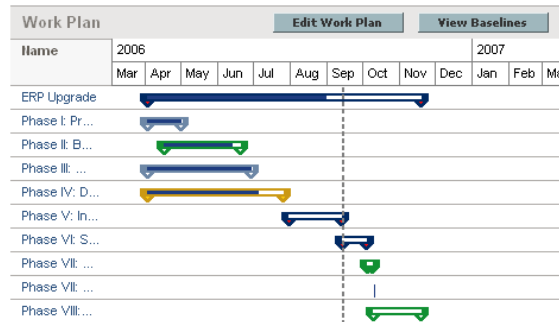
Below the table, the search criteria fields are visible, identical to the previous screenshot, with the 'Search' button at the bottom right.

5. Click the name of a project to open its Project Overview page.

Viewing the Work Plan

The Work Plan section of the **Project Summary** tab in the Project Overview page displays the top level tasks in the project work plan.

Figure 7-3. Project Summary tab: Work Plan section



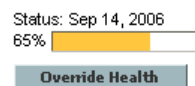
You can take the following actions from the **Work Plan** section:

- Click **Edit Work Plan** to open the **Schedule** view and edit the work plan. See [Revising the Work Plan on page 116](#) for more details on editing the work plan.
- Click **View Baselines** to open the View Baselines page and manipulate project baselines. See [Working with Baselines on page 146](#) for more details on working with baselines.

Viewing the Project Health

The project summary condition is a graphical indicator of the health and percent complete of a project, located on the **Project Summary** tab in the Project Overview page beneath the project name.

Figure 7-4. Project summary condition indicator



The color of the summary condition is a weighted average of the health indicators for *Scheduling*, *Issue Health*, and *Cost and Earned Value Health*. These indicators appear on the Project Overview page as well.

Figure 7-5. Project health indicators



For more detailed information on how the project summary condition is calculated and configured, see [Project Health on page 53](#).

The project summary condition also appears in its own column next to the names of all projects in the Project Search page.

Overriding Project Health

You may wish to override the health color for any number of reasons, including:

- Project resources have fallen behind in reporting their actuals information, causing HP Project Management to reflect an out-of-date situation.
- An input error by a manager on a summary task has resulted in inaccurate project health calculations.

To override the project summary condition indicator's health color:

1. On the **Project Summary** tab in the Project Overview page, click **Override Health**.

The Override Health dialog box opens.

2. Select the desired indicator color or choose to use the calculated color.
3. Type the date until which the override will last.
4. If desired, provide a reason for the override in the **Override Description** text box.
5. Click **Done**.

Viewing Milestones

The **Project Summary** tab in the Project Overview page contains two sections that display milestones:

- The **Milestones** section lists the milestones in a work plan.

If the project's **Project Fields** policy has been set to track major milestones, the **Milestones** section will only list major milestones. If major milestones have not been specified, all milestones are displayed.

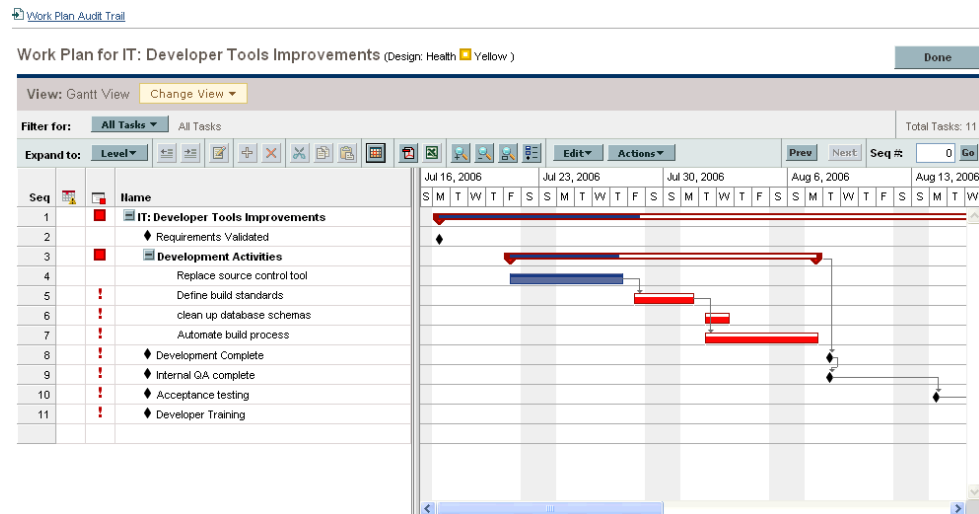
Figure 7-6. Project Summary tab: Milestones section

Major Milestones		Show: 5	Total: 6
Milestone	Sched Finish	Actual Finish	Owners
✓ Phase I: IT Project Startup Complete	Apr 17, 2006	Apr 17, 2006	
✓ Phase II: Business Operations Analysis Complete	May 12, 2006	May 12, 2006	
✓ Phase III: Prototype, GAP Analysis, High Level Design	Apr 14, 2006	Apr 14, 2006	
✓ Phase IV: Development and System Tests Complete	Jun 12, 2006	Jun 12, 2006	
! Phase V: IT Integration and Performance Testing Complete	Aug 14, 2006		

- The **Work Plan** section shows part of the work plan's Gantt chart, including top-level tasks and milestones.

Milestones are visible in the Work Plan page **Gantt** view as black diamonds in the Gantt chart.

Figure 7-7. Work Plan page: Gantt view



Viewing Project Earned Value (EV) Analysis

The **EV Analysis Summary** section of the **Project Summary** tab in the Project Overview page provides an earned value (EV) analysis for the project based on the latest data.

Click **Analyze** to open the Analyze Cumulative Cost Metrics page for the project.

For detailed information on analyzing cumulative cost metrics for a project, see the *HP Financial Management User's Guide*.

Viewing Project Control Items

The **Project Summary** tab in the Project Overview page can display sections devoted to listing and logging project control items such as issues, risks, or scope changes.

For example, the **Issues** section of the **Project Summary** tab in the Project Overview page summarizes the issues logged for a project. Issues associated with the project appear in the following order:

1. Escalated open issues (ordered by priority)
2. Other open issues (ordered by priority)
3. Closed issues (ordered by priority)

Figure 7-8. Project Summary tab: Issues section

Issues			
Req#	Description	Priority	Status
30242	No verification that upgrade requirements are in place. Need at least one resource for 5 working days to complete.	High	New

[Log Issue](#) [Show Full List](#)

You can take the following actions from the **Issues** section:

- Click **Log Issue** to log another issue. See [Logging Issues on page 140](#) for more detailed information on logging project issues.
- Click **Show Full List** to show the full list of issues logged for the project.

For more detailed information on these sections, see [Submitting Project Control Items on page 140](#).

Viewing Project Staffing

The Project Staffing section of the **Project Summary** tab in the Project Overview page lists the staffing profiles associated with the project and their status.

Figure 7-9. Project Summary tab: Project Staffing section

Project Staffing	
Staffing Profile	Status
ERP Upgrade	Active
ERP Upgrade 081606	Baseline

[Baseline](#)

You can create a new staffing profile from the **Project Staffing** section by clicking **Create a Staffing Profile**.

For more detailed information on staffing profiles and their creation and use, see the *HP Resource Management User's Guide*.

Viewing Program Associations

The Program Associations section of the **Project Summary** tab in the Project Overview page lists the programs project is associated with.

▶ The Program Associations section only appears if you have purchased and installed HP Program Management.

Figure 7-10. Project Summary tab: Program Associations section

Program Associations	
Program Name	Program Manager
Major Infrastructure Activities	Carolyn Sayer
Enterprise Business Apps	Carolyn Sayer

HP Program Management provides a way for managers to link multiple projects together as programs, and to submit and track requests against them.

Organizations implement a Program Management Office in order to:

- Ensure alignment of IT projects with business objectives
- Eliminate duplicate and non-priority efforts
- Improve operational efficiency
- Leverage resources
- Ensure on-time and on-budget delivery

Programs can be tracked and analyzed with the same kind of familiar cost metrics as projects.

For more detailed information on HP Program Management, see the *HP Program Management User's Guide*.

Viewing Project Cost Data

The Project Cost section of the **Project Summary** tab in the Project Overview page displays cost data for the project.

Figure 7-11. Project Summary tab: Project Cost section

Project Cost			
Budget			
Total Budget:	\$110,800.00		
Budget to Date:	\$110,800.00	Actual To Date:	\$0.00

[Cost Details](#) [View Current Budget](#)

You can take the following actions from the **Project Cost** section:

- Click **Cost Details** to open the Cost Details page for the project, which shows more detailed project cost information alongside project budget information, if one exists.
- Click **Create a Budget** to create a new budget for the project. See the *HP Financial Management User's Guide* for more detailed information on budgets and their creation and use.

Approving Project Time

HP Time Management can be used in conjunction with HP Project Management for detailed entry of time and effort actuals using time sheets. Time sheets have their own sets of approvers and approval processes, and can be used for more granular cost reporting. The **Approve Project Time** section of the **Project Summary** tab in the Project Overview page displays data for time sheets with lines pertaining to the project, and allows you to approve or reject them directly.

To approve or reject the time sheets listed in the **Approve Project Time** section, select the checkboxes next to the desired time sheets and click **Approve** or **Reject**.

Viewing Exceptions

Exceptions indicate that a rule that has been defined in the project has been violated for a particular task. For example, resources have not been assigned to a task that is due to begin soon, or a task is being completed a certain number of days late. Exception rules are configurable; for more detailed information, see *Schedule Health* on page 44.

Tasks that have triggered exceptions can be viewed from the **Project Exceptions** tab in the Project Overview page or the **Schedule** view in the Work Plan page.

Figure 7-12. Project Overview page: Project Exceptions tab

Project: IT: Developer Tools Improvements ■ Yellow

Project Status: Design **Phase:** Project
Project Manager: Joseph Banks
Project Plan Period: July 2006 to September 2006 **Project Region:** MercuryUS

Project Settings **Configure Participants**

Project Summary | Project Details | **Project Exceptions** | References

27 Schedule Exceptions

Tasks	Exception Type
1	Milestone has late critical path
3	Predecessor has Exception(s)
7	Running Late
6	Starting Late
5	No resources assigned
5	Unassigned Effort

Viewing Exceptions from the Project Overview Page

The **Project Exceptions** tab lists all the tasks in a particular project that have triggered exceptions.

To get to the **Project Exceptions** tab for a project:

1. Open the project to edit.

For more details on searching for and opening projects, see *Searching for Projects* on page 131.

2. On the Project Overview page, click the **Project Exceptions** tab.

The **Project Exceptions** tab opens.

3. Drill down to any tasks that merit attention.

Viewing Exceptions in the Schedule View

Exceptions that have been triggered display as a red exclamation mark in the first column on the left in the **Schedule** view on the Work Plan page.

To view a particular triggered exception for a task:

1. Open the project to edit.

For more details on searching for and opening projects, see *Searching for Projects* on page 131.

2. On the Project Overview page, click **Edit Work Plan**.

The Work Plan page opens.

3. Double-click a task in the **Schedule** view.

The Task Details page opens.

Depending on whether you have the proper access grant to edit the task, you may not be able to edit the task's fields. Users who can only view a task include project participants who have not been assigned to that particular task, as well as project managers who are not managing the project within which that particular task is contained.

4. Click the **Exceptions/Warnings** tab.

View Task Audit Trail All Tasks **Prev** **Next**

Task Details: 7 - Automate build process **Save** **Done** **Cancel**

Name: Automate build process

Project Path: IT > Developer Tools Improvements > Development Activities > Automate build process

Status: Pending Predecessor Sequence #: 7

Description:

% Complete: 0 Activity: Priority: 0

Mark task as milestone
 This is a major milestone
 Milestone automatically completes

Delete Task

Schedule Resources Exceptions / Warnings Notifications Notes References

Exception	Description
Starting Late	This task was scheduled to start on Aug 1, 2006, which was 143 day(s) ago .
Running Late	This task was scheduled to complete on Aug 7, 2006, which was 139 day(s) ago . This task is estimated to complete on Aug 7, 2006.
No resources assigned	This task has no resources assigned to it.
Unassigned Effort	This task has 40 hours of effort scheduled that is not assigned to a resource.

The **Exceptions/Warnings** tab lists the exception and schedule warning rules for the project that the task is violating.

Printing the Project Overview

You can create a simple, unified version of the Project Overview page suitable for printing or exporting to a PDF file.

To create a printable or exportable view of the Project Overview page:

1. Open the project to edit.

For more details on searching for and opening projects, see [Searching for Projects](#) on page 131.

2. On the Project Overview page, click the **Printable View** link.

The Print Options window opens.

3. Select the project overview data you want to display.

You can select the **Remember these settings** checkbox if you want HP Project Management to use these as default settings in the future.

4. Click **OK**.

The printable Project Overview page opens.

5. Print or export the Project Overview page.
 - Click **Print** to print the page.
 - Click **PDF Options** to open the PDF Settings window, which allows you to configure settings for exporting the page to a PDF file.

▶ If the **PDF Options** link is not visible, it has been disabled by a system administrator.

Using the PPM Dashboard to View Progress

Project managers can also view projects using the PPM Dashboard. This interface comes with a configurable set of application windows, known as portlets, through which common HP Project Management queries and actions can be performed.

Submitting Project Control Items

HP Project Management allows you to log issues, risks, and scope changes against a particular project. These items can be tracked and logged from their own sections of the **Project Summary** tab in the Project Overview page.

▶ If the **Request Types** policy in the project type does not specify a request type for a project control item, the **Log <Project Control Item>** button in the corresponding section on the Project Overview page does not appear.

Logging Issues

Project issues can be submitted against a particular project to raise issues that require attention. Once submitted, project issues follow their own workflow to resolution.

You can log an issue for a project from the following locations:

- The **Log Issue** button in the Issues section of the **Project Summary** tab in the Project Overview page.
- The menu bar option **Project Management > Project Controls > Submit a Project Issue**.

To log an issue for a project:

1. Open a project and click **Log Issue** or select **Project Management > Project Controls > Submit a Project Issue** at any time.

The Create New Project Issue page opens.

Create New Project Issue

Expand All Collapse All Submit

Header
Summary

Issue Status: Not Submitted

Created By: Admin User Assigned To:

*Project:

*Priority: Escalation Level: Project

*Description:

Details
Issue Details

*Date Identified: Due Date:

Issue Type:

Detailed Description:

Proposed Solution:

Business Function:

Notes
Notes to be added on save:

References

Submit Cancel

2. Fill in all required fields and any desired optional fields.
3. Click **Submit**.

The issue is submitted and begins processing along its workflow.

Logging Risks

Risks can be submitted against a particular project to raise serious issues that require attention. Once submitted, risks follow their own workflow to resolution.

You can log a risk for a project from the following locations:

- The **Log Risk** button in the Risks section of the **Project Summary** tab in the Project Overview page.
- The menu bar option **Project Management > Project Controls > Submit a Risk**.

To log a risk for a project:

1. Open a project and click **Log Risk** or select **Project Management > Project Controls > Submit a Risk** from the menu bar at any time.

The Create New Project Risk page opens.

Create New Project Risk

Expand All Collapse All Submit

Header
Summary

Risk Status: Not Submitted

Created By: Admin User Assigned To:

*Project:

Priority: Risk Impact Level: *Probability:

*Description:

Details
Risk Details

Risk Type: *Date Identified:

Detailed Description:

Closure Criteria:

Action Plan:

Notes

Notes to be added on save:

References

Submit Cancel

2. Fill in all required fields and any desired optional fields.
3. Click **Submit**.

The risk is submitted and begins processing along its workflow.

Logging Scope Changes

Scope changes can be submitted against a particular project to raise possible changes in project scope that require attention. Once submitted, scope changes follow their own workflow to resolution.

You can log a risk for a project from the following locations:

- The **Log Scope Change** button in the Scope Changes section of the **Project Summary** tab in the Project Overview page.
- The menu bar option **Project Management > Project Controls > Submit a Scope Change**.

To log a scope change for a project:

1. Open a project and click **Log Scope Change** or select **Project Management > Project Controls > Submit a Scope Change** from the menu bar at any time.

The Create New Project Scope Change Request page opens.

Create New Project Scope Change Request

Expand All Collapse All Submit

Header

Summary

Scope Change Status: Not Submitted

Created By: Admin User Assigned To:

*Project:

Priority: *CR Level: *Business Impact Severity:

*Description:

Details

Scope Change Details

Assigned Release: Target Implementation Date:

Detailed Description:

Benefit of Proposed Change:

Alternatives:

List of Impacted Deliverables:

Impact Summary:

Financial Impact: \$ Schedule Impact (in days):

Notes

Notes to be added on save:

References

Submit Cancel

2. Fill in all required fields and any desired optional fields.

3. Click **Submit**.

The scope change is submitted and begins processing along its workflow.

Viewing Project Settings and Participants

Project settings and participants can be viewed or adjusted at any time during a project's execution.

- For more detailed information on project settings and their interaction with project policies, see *Setting Project Policies* on page 38.
- For more detailed information on project participants and configuring the list thereof, see *Defining Project Participants* on page 62.

Controlling Project Dates

The following entities relevant to projects have effective start and end dates associated with them:

- **Projects.** The **Project Details** tab in the Project Overview page contains the project's **Planned Start** and **Finish Period**.
- **Work plans.** The work plan for a project represents the scheduled start and end dates of major deliverables for the project.
- **Staffing profiles.** The staffing profile for a project has a **Start** and **End Period**.
- **Budgets.** The budget for a project has a **Start** and **End Period**.
- **Financial benefits.** The financial benefit for a project has a **Start** and **End Period**.

The **Planned Start** and **Finish Period** for a project take precedence over the other dates.

- If the work plan's **Scheduled Start** or **Finish Date** falls outside the project's existing date range, a scheduling warning is triggered when the work plan is scheduled.
- **Start Period** values for staffing profiles and budgets associated with a project are automatically synchronized with the values specified in the **Project Details** tab. The **Start Period** for the project's financial benefit are also synchronized with the project, but is offset from the actual **Start Period**.

Working with Baselines

A baseline is a snapshot of the approved work plan. As scope changes happen, the baseline is updated to reflect those changes as part of the approved plan. A project manager uses baselines to continuously monitor the health of their project in terms of schedule and cost by comparing the current work plan to the baseline plan. Only users with the appropriate access grants can view and manipulate baselines.

Taking a Baseline

To take a baseline:

1. Open the project to edit.

For more details on searching for and opening projects, see [Searching for Projects](#) on page 131.

2. On the Project Overview page, click **View Baselines**.

The View Baselines page opens.

Baselines for Internal Web Site Rollout - IT

Showing all Baselines for Internal Web Site Rollout - IT				
Active	Name	Description	Baselined By	Baselined On
<input type="checkbox"/>	Baselined On 9/14/06(1)		Admin User	Sep 14, 2006

3. Click **Create Baseline**.

The Create Baseline dialog box opens.

Create Baseline

This will become the active baseline.

Name:

Description:

4. Type a **Name** and optional **Description** for the baseline.

A default name for the baseline is suggested, though you can change it.

5. Click **Create**.

The baseline has been taken.

Managing Baselines

Multiple baselines can be taken for a single work plan. You can update the names and descriptions of baselines, specify which is the active project baseline, or delete baselines at any time.



To take a baseline for a project, you must have a license for HP Project Management, be a manager for the project, and have the Manage Work Plan Baselines access grant. Users with the Manage All Work Plan Baselines access grant can take baselines for any project.

To manage project baselines:

1. Open the project you have taken baselines of.
2. On the Project Overview page, click **View Baselines**.

The View Baselines page opens.

Baselines for Internal Web Site Rollout - IT

Showing all Baselines for Internal Web Site Rollout - IT				
Active	Name	Description	Baselined By	Baselined On
<input checked="" type="radio"/>	Baselined On 9/14/06(1)		Admin User	Sep 14, 2006

Create Baseline Compare Baselines Save Done Cancel

3. Select the option next to the baseline you want to be active for the project.
4. (Optional) Click the **Delete** icon next to a baseline you wish to delete.
 - a. A dialog box will open asking if you are sure you want to delete the baseline.
 - b. Click **Delete** to delete the baseline.
5. Click **Done**.

Comparing Baselines

You can compare baselines to each other, or a baseline to the current work plan. On the View Baselines page, click **Compare Baselines** to open and run the report that allows you to compare a baseline to another baseline, or to the current work plan.

Tracking and Analyzing Project Costs

HP Financial Management allows you to track and analyze project costs in ways including the following:

- Capturing and comparing financial data in budgets including rollups from work plans
- Using HP Time Management to track task costs
- Performing analyses of project cost data in graph and portlet form, including earned value analysis
- Enabling SOP 98-1 compliance at the work plan level with activities
- Enabling the use of different currencies depending on project participants' locations

See the *HP Financial Management User's Guide* for more detailed information on cost data, budgets, currencies, exchange rates, and SOP 98-1 compliance.

Exporting and Printing a Work Plan

A work plan can be exported as a PDF file or a Microsoft Excel file for use in presentations.

Exporting to PDF Files

To export a work plan to a PDF file:

1. Open the project to export.

For more details on searching for and opening projects, see [Searching for Projects](#) on page 131.

2. On the Project Overview page, click **Edit Work Plan**.

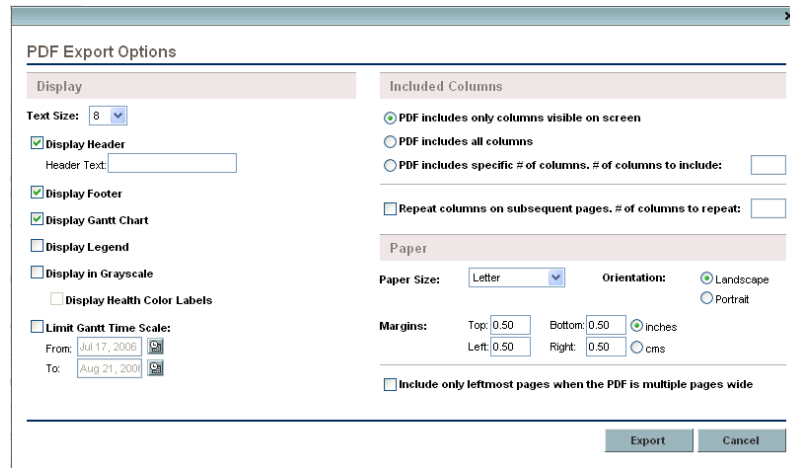
The Work Plan page opens.

3. Adjust the work plan display.

You can adjust the set of displayed tasks by reordering or resizing columns, expanding or collapsing summary tasks, or filtering the work plan in order to display the tasks you want.

4. Click the **PDF** icon.

The PDF Export Options dialog box opens.



5. Select the desired options for the display of the project Gantt chart, the included columns, and paper size.
6. Click **Export**.

The project PDF file opens in a new window, where it can be viewed and saved.

Exporting to Microsoft Excel Files

To export a work plan to a Microsoft Excel file:

1. Open the project to export.

For more details on searching for and opening projects, see [Searching for Projects](#) on page 131.

2. On the Project Overview page, click **Edit Work Plan**.

The Work Plan page opens.

3. Click the **Microsoft Excel** icon.

A new window opens, refreshing at a set interval until the system completes the export.

4. Save the exported Excel file.

Tracking Work Plan Audit History

HP Project Management maintains an audit trail for projects, work plans, and tasks.

To view the audit trail for a particular project:

1. Open the project to edit.

For more details on searching for and opening projects, see [Searching for Projects on page 131](#).

2. On the Project Overview page, click **Project Audit Trail**.

The Project Audit Trail dialog box opens.

Click **Prev** or **Next** to navigate between pages of information. You can also click the **Export to Excel** link to export the dialog box's contents to a Microsoft Excel file.

3. Click the **X** icon in the upper-right corner to close the dialog box.

To view the audit trail for a particular work plan:

1. Open the project to edit.

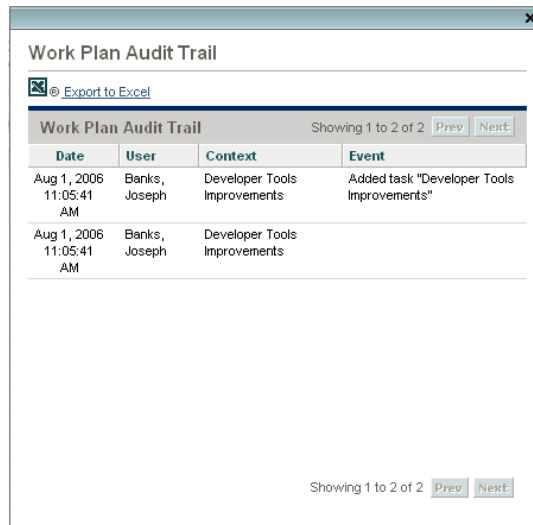
For more details on searching for and opening projects, see [Searching for Projects on page 131](#).

2. On the Project Overview page, click **Edit Work Plan**.

The Work Plan page opens.

3. Click the **View Audit Trail** link on the Work Plan page.

The Work Plan Audit Trail dialog box opens.



Click **Prev** or **Next** to navigate between pages of information. You can also click the **Export to Excel** link to export the dialog box's contents to a Microsoft Excel file.

4. Click the **X** icon in the upper-right corner to close the dialog box.

To view the audit trail for a task:

1. Open the project to edit.

For more details on searching for and opening projects, see *Searching for Projects* on page 131.

2. On the Project Overview page, click **Edit Work Plan**.

The Work Plan page opens.

3. In the **Schedule** view, double-click the task to update.

The Task Details page opens.

4. Click View Task Audit Trail.

The Task Audit Trail dialog box opens.

Click **Prev** or **Next** to navigate between pages of information. You can also click the **Export to Excel** link to export the dialog box's contents to a Microsoft Excel file.

5. Click the **X** icon in the upper-right corner to close the dialog box.

Completing, Cancelling, and Deleting Projects

All projects must reach an endpoint. The project can either be brought to completion, or reach a point where no more work can be done. Work plan statuses provide distinct ways of differentiating between work plans that have been Completed or Cancelled. For more detailed information on work plan statuses, see *Work Plan Statuses on page 117*. Projects can also be deleted by users with the proper level of access.

Completing Work Plans

Project managers can set the work plan status to **Completed**. For more information, see *Modifying Statuses on page 119*.

If a work plan is manually set to **Completed**:

- Any incomplete tasks are set to **Completed**.
- Any incomplete summary tasks are set to **Completed**.

Canceling Work Plans

Occasionally, all work on a particular business initiative can be stopped. The endeavor might have been found to be unprofitable, it might not be feasible given current resource limitations or there might be another business reason. Tasks can have their statuses changed to **Cancelled** to reflect this circumstance.

- If a work plan is manually set to **Cancelled**, any incomplete tasks under it are set to **Cancelled**.
- From **Cancelled**, a work plan can be moved back to **On Hold**.
- Once the work plan is moved into an **Active** summary task status:
 - Task statuses will be recalculated.
 - Tasks previously **In Progress** will not regain the task status of **In Progress**.

Deleting a Project

Sometimes projects are created in error. Project managers can delete projects from the Project Overview page. On the **Project Summary** tab of the Project Overview page, click **Delete** to delete a project.



Once deleted, a project cannot be recovered. Use caution when considering projects for deletion.

Table 7-3 describes the conditions that must be met in order for you to be able to delete a project or projects.

Table 7-3. Access requirements for project deletion

Item to Delete	Access Requirements
A single project	<ul style="list-style-type: none">■ Project manager for the project■ Access grant: Delete Projects■ Access grant: Edit Projects
A single project with actuals	<ul style="list-style-type: none">■ Project manager for the project■ Access grant: Delete Projects■ Access grant: Delete Projects with Actuals■ Access grant: Edit Projects

8 Updating Tasks: Resource Activities

In This Chapter:

- *Locating Tasks*
 - *Finding Tasks Using the My Tasks Portlet*
 - *Searching for Tasks and Projects*
 - *Finding Tasks Using Notifications*
 - *Viewing Project Information*
 - *Viewing Project Overview*
 - *Viewing Exceptions*
 - *Viewing Project References*
 - *Viewing the Project Gantt Chart*
 - *Viewing the Critical Path*
 - *Viewing Project Milestones*
 - *Viewing Resource Information*
 - *Exporting Your Task Schedule*
 - *Updating Tasks*
 - *Using the My Tasks Portlet*
 - *Using the Task Page*
 - *Viewing and Modifying References*
 - *Adding References to Tasks*
 - *Viewing and Editing References*
 - *Deleting References*
-

Locating Tasks

HP Project Management defines resources as users who work on tasks as part of a project team, but do not have the administrative responsibilities of a project manager.

Resources update their task status in HP Project Management. There are several different ways for participants to locate their tasks:

- *Finding Tasks Using the My Tasks Portlet*

The My Tasks portlet makes users aware of the tasks they should be working on. It allows users to update actuals for multiple tasks at once, as well as providing links to individual task pages.

- *Searching for Tasks and Projects*

Resources can update notes or references for tasks by searching for the tasks directly, or by searching for projects in order to get to the tasks they want through the work plans that contain them.

- *Finding Tasks Using Notifications*

Tasks can be reached from a notification simply by clicking on the link provided in the body of the email, or by copying and pasting it into any Web browser.

Finding Tasks Using the My Tasks Portlet

The My Tasks portlet is available to all users with a HP Project Management or HP Time Management license and the View Projects, Update Tasks, or Edit Projects access grant. This portlet is included on your PPM Dashboard by default. It shows a configurable list of the tasks currently assigned to the user.

Participants can update task actuals and fill in information that the project manager would like to collect for all tasks displayed. Task information that can be updated may differ from project to project, depending on the project type and whether the project is integrated with HP Time Management. In this way, the My Tasks portlet can save valuable time by providing a single point for multiple tasks to be updated at once. See [Using the My Tasks Portlet on page 167](#) for detailed information on using the My Tasks portlet to update task information.

The participant can also click on the name of a task in the task list to view the Task page. See [Using the Task Page on page 168](#) for more information.

Searching for Tasks and Projects

Participants can search for tasks and projects that match certain criteria using the Task Search and Project Search pages.

Locating Tasks Using the Task Search Page

Project participants with a Project Management license and the View or Edit Projects access grant can search for tasks using the Task Search page. Task notes and references can be updated in this manner.

To locate tasks in HP Project Management:

1. Log on to PPM Center.
2. From the menu bar, select **Project Management > Projects & Tasks > Search Tasks**.

The Task Search page opens.

Search Tasks

Search for Tasks to View

Task Name starts with: Resource:

Include finished Tasks? Yes No Task Status:

Scheduled Start Date From: To:

Scheduled Finish Date From: To:

Show only tasks with exceptions? Yes No

Show only milestones? Yes No

Search in projects that meet the following criteria

Project Name: Project Manager:

Sort By: Ascending Descending Results Displayed Per Page:

Search

3. Provide the search criteria for the desired task.

You can search for an existing task based on any of the fields located on the Task Search page. Limiting the maximum number of results in the **Results Displayed Per Page** field can yield quicker results.

4. Click **Search**.

The Task Search page reloads, displaying the results matching your search criteria.

Search Tasks

[Export to Excel](#)

Select Task to View Showing 1 to 10 of 133 [Prev](#) [Next](#)

Task Name	Project	Project Path	Scheduled Start	Scheduled Finish	Task Status	Resources	Exception Indicator	% Complete
Conversions Track	ERP Upgrade		Apr 17, 2006	May 19, 2006	active		0	93% <div style="width: 93%;"></div>
Interfaces Track	ERP Upgrade		Apr 17, 2006	May 19, 2006	active		0	87% <div style="width: 87%;"></div>
Acceptance Testing	Finance Specialized Web Site Development		Dec 12, 2006	Dec 21, 2006	active		0	0% <div style="width: 0%;"></div>
Acceptance Testing	Ops: BackOffice Acceleration		Aug 30, 2006	Sep 11, 2006	active		0	0% <div style="width: 0%;"></div>
Acceptance, Training, Rollout	Execution Phase - Exposing Mainframe Account Data		Jul 10, 2007	Jul 13, 2007	active		0	0% <div style="width: 0%;"></div>
Analysis	Finance Specialized Web Site Development		Oct 23, 2006	Oct 31, 2006	active		0	0% <div style="width: 0%;"></div>
Analysis	Ops: BackOffice Acceleration		Jul 11, 2006	Jul 19, 2006	active		0	0% <div style="width: 0%;"></div>
BOM Conversion	ERP Upgrade		Jun 7, 2006	Jul 14, 2006	active		0	44% <div style="width: 44%;"></div>
BOM Conversion	ERP Upgrade		Aug 8, 2006	Aug 9, 2006	active		0	0% <div style="width: 0%;"></div>
Build Integration Test A Env	ERP Upgrade		Jul 31, 2006	Aug 7, 2006	active		0	0% <div style="width: 0%;"></div>

Showing 1 to 10 of 133 [Prev](#) [Next](#)

Search for Tasks to View

Task Name starts with: Resource:

Include finished Tasks? Yes No Task Status:

Scheduled Start Date From: To:

Scheduled Finish Date From: To:

Show only tasks with exceptions? Yes No

Show only milestones? Yes No

Search in projects that meet the following criteria

Project Name: Project Manager:

Sort By: Ascending Descending Results Displayed Per Page:

[Search](#)

5. Click on the name of any task in the list to view its Task page.

See *Using the Task Page* on page 168 for more information.

Locating Projects Using the Project Search Page

While resources can locate and view projects, only participants with the Edit Projects access grant can edit tasks in the work plan. Participants can locate projects using the Project Search page.

To search for projects in HP Project Management:

To locate and open a project:

1. Log on to PPM Center.

- From the menu bar, select **Project Management > Projects & Tasks > Search Projects**.

The Search Projects page opens.

Search Projects

Search for Projects to View

Project Name contains: Project Manager:

Project Type: [Detailed Search](#)

Planned Start Date From: To:

Planned Finish Date From: To:

Include Finished Projects: Yes No

Health: None

Associated Programs:

Region:

Sort By: Ascending Descending **Results Displayed Per Page:**

[Search](#)

- Provide search criteria for the appropriate fields.

- Click **Search**.

The Project Search page reloads, displaying the results of your search.

Search Projects

[Export to Excel](#)

Select Project to View Showing 1 to 3 of 3 [Prev](#) [Next](#)

<input type="checkbox"/>	Project Name	Status	Project Manager	Project Ilo	Region	Project Type	Project Start (period)	Project Finish (period)
<input type="checkbox"/>	Internal Web Site Rollout - finance	Business Readiness Sign-Off	Joseph Banks	30015	MercuryUS	Web Site Rollout	June 2006	August 2006
<input type="checkbox"/>	Internal Web Site Rollout - IT	Deploy	Joseph Banks	30016	MercuryUS	Web Site Rollout	January 2006	March 2006
<input type="checkbox"/>	Internal Web Site Rollout - sales	Assign Project Manager	Joseph Banks	30014	MercuryUS	Web Site Rollout	June 2006	August 2006

Showing 1 to 3 of 3 [Prev](#) [Next](#)

Search for Projects to View

Project Name contains: Project Manager:

Project Type: [Detailed Search](#)

Planned Start Date From: To:

Planned Finish Date From: To:

Include Finished Projects: Yes No

Health: None

Associated Programs:

Region:

Sort By: Ascending Descending **Results Displayed Per Page:**

[Search](#)

- Click on the name of a project to view its Project Overview page.

See [Viewing Project Overview on page 160](#) for more information.

Finding Tasks Using Notifications

Email notifications can be configured by project managers to include hyperlinks to tasks in HP Project Management. If you have received an email containing a link to a task, click on it, and it will open to that task's Details page in your Web browser. If your email client doesn't handle HTML links directly, copy and paste it into your Web browser.

Viewing Project Information

Resources might want to view the projects they are part of in the standard interface, as a way of setting context for their own tasks, checking on other dependent tasks, or keeping track of deadlines.

Viewing Project Overview

The Project Overview page displays a wide range of information about a particular project, including the project's name, status, percent complete, manager, and plan period. All of this data and more is presented and arranged through the following sections of the Project Overview page:

- **Work Plan Section.** This section of the **Project Summary** tab on the Project Overview page displays the top-level tasks of the project work plan Gantt chart. See *Viewing the Project Gantt Chart on page 163*.
- **Milestones Section.** This section of the **Project Summary** tab on the Project Overview page lists the milestones in a work plan. See *Viewing Project Milestones on page 164*.
- **Project Control Item Sections.** These sections of the **Project Summary** tab on the Project Overview page display summaries of issues, risks, or scope changes that have been submitted for the project. See *Viewing Project Control Items on page 135* for more details.
- **Project Staffing Section.** This section of the **Project Summary** tab on the Project Overview page displays links to a project's staffing profiles. See *Viewing Project Staffing on page 135* for more details.
- **Project Exceptions Tab.** Shows the number and kinds of exceptions triggered and links to the Exception Details portlet. See *Viewing Exceptions on page 161*.
- **References Tab.** Provides a list of all references linked to the project (requests, packages, tasks, other projects, releases, attachments, URLs) and

where in the project they are referenced from. See *Viewing Project References* on page 162.

Figure 8-1. Project Overview page: Summary tab

Project: IT: Developer Tools Improvements ■ Yellow

Project Status: Design **Phase:** Project
Project Manager: Joseph Banks **Project Plan Period:** July 2006 to September 2006 **Project Region:** MercuryUS

[Project Settings](#) [Configure Participants](#)

Project Summary | Project Details | Project Exceptions | References

Status: Feb 23, 2007
■ Yellow
[Override Health](#)

Schedule	Issues	Cost
■ 27	□	

Work Plan [Edit Work Plan](#) [View Baselines](#) 5 ▾

Item	July 2006	August 2006
IT: Develop...	10 16 23 30	6 13 20
Requirement...	◆	
Development...	◆	
Development...	◆	
Internal QA...	◆	

Milestones

Milestone	Sched Finish	Actual Finish	Owners
✓ Requirements Validated	Jul 20, 2006	Jul 20, 2006	
! Development Complete	Aug 8, 2006		William Klein , Traci Shimizu
! Internal QA complete	Aug 11, 2006		
! Acceptance testing	Aug 16, 2006		
! Developer Training	Aug 21, 2006		

Issues

Req#Description	Priority	Status
30242: No verification that upgrade requirements are in place. Need at least one resource for 5 working days to complete.	High	New

[Log Issue](#) [Show Full List](#)

Risks

Req#Description	Status	Probability	Impact Level
30220: Data migration may be difficult across several app upgrades	New	High [26-100%]	Level 1
30240: Upgrade schedule is at risk as a result of budget cutbacks.	New	High [26-100%]	Level 2
30241: Problems encountered with beta version of application merits reassessment of purchase.	New	Medium [11-25%]	Level 1

[Log Risk](#) [Show Full List](#)

Project Staffing

Staffing Profile	Status
Developer Tools Improvements	Active

[Baseline](#)

Project Cost [Create a Budget](#)

Approve Project Time

Resource	Time Period - Time Sheet #	Manager	Status	Hours to Approve	Total Hours	Approvable Line Costs
There are no outstanding time sheets to approve for this project.						

[Delete](#)

Users can access the Project Overview page through the Project Search page, as well as the Project List portlet, which is available for display on the resource's PPM Dashboard.

Viewing Exceptions

The Project Overview page's **Project Exceptions** tab displays the exceptions that have been triggered for the project being viewed, breaking each triggering task down according to:

- Exception type and number of days violated
- Task status, resource, scheduled start and finish
- Work plan path

Figure 8-2. Project Overview page: Project Exceptions tab

Project: IT: Developer Tools Improvements ■ Yellow

Project Status: Design **Phase:** Project
Project Manager: Joseph Banks
Project Plan Period: July 2006 to September 2006 **Project Region:** MercuryUS

Project Settings **Configure Participants**

Project Summary | Project Details | **Project Exceptions** | References

27 Schedule Exceptions

Tasks	Exception Type
1	Milestone has late critical path
3	Predecessor has Exception(s)
7	Running Late
6	Starting Late
5	No resources assigned
5	Unassigned Effort

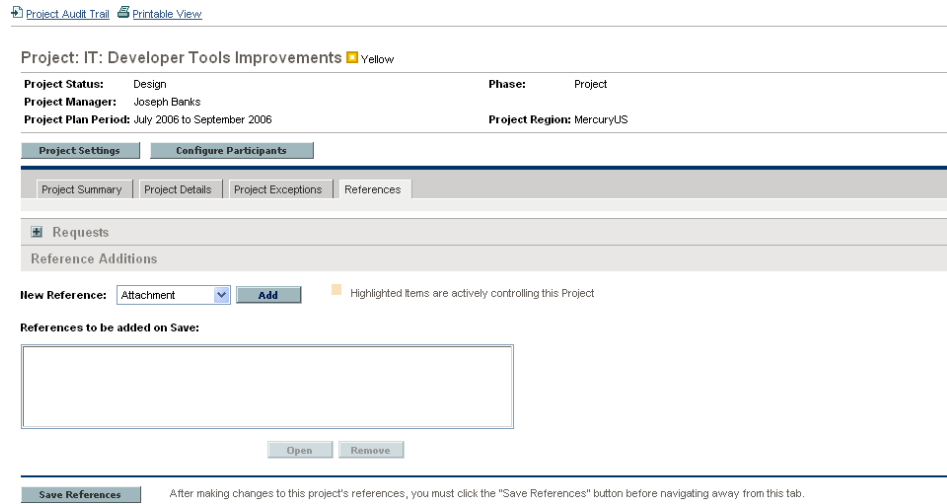
This is useful for resources in that it provides specific context for every exception in a project, telling them what task has gone wrong (or what might go wrong, depending on the exception rules enabled), when it went wrong, and where the problem task is located. Additionally, for tasks that have a “No resources assigned” exception, the **Project Exceptions** tab allows you to open the work plan directly by clicking **Assign**.

Viewing Project References

The Project Overview page’s **References** tab displays all entities linked to the project as references. References (requests, packages, tasks, other projects, releases, attachments, and URLs) are listed with details including:

- Reference Type
- Description
- Referenced By

Figure 8-3. Project Overview page: References tab



The **References** tab provides a convenient single point of access for all entities referenced by a project.

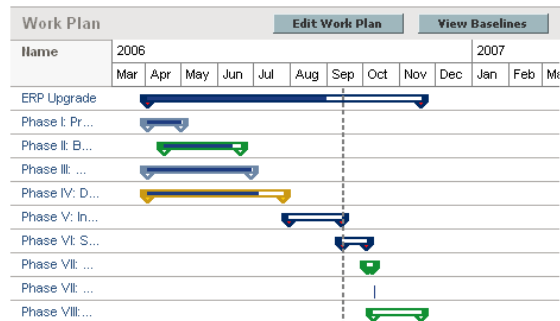
Viewing the Project Gantt Chart

The **Work Plan** section of the Project Overview page shows the project work plan Gantt chart's top-level tasks. Click **Edit Work Plan** to view the work plan.



If you do not have the access required to edit the work plan, the button will be labeled **View Work Plan**.

Figure 8-4. Project Summary tab: Work Plan section



Viewing the Critical Path

The critical path of a work plan is made up of the tasks that define its duration. A work plan's critical path can be displayed in the **Schedule** view for a project. See *Viewing the Project Critical Path* on page 128 for more details.

Viewing Project Milestones

Milestones are used to mark significant events in a work plan, often the completion of a deliverable or arrival of a deadline. In the work plan Gantt chart, milestones appear as black diamonds.

Milestones are also listed in the **Milestones** section of the Project Overview page.

Figure 8-5. Project Summary tab: Milestones section

Major Milestones		Show: 5	Total: 6
Milestone	Sched Finish	Actual Finish	Owners
✓ Phase I: IT Project Startup Complete	Apr 17, 2006	Apr 17, 2006	
✓ Phase II: Business Operations Analysis Complete	May 12, 2006	May 12, 2006	
✓ Phase III: Prototype, GAP Analysis, High Level Design	Apr 14, 2006	Apr 14, 2006	
✓ Phase IV: Development and System Tests Complete	Jun 12, 2006	Jun 12, 2006	
! Phase V: IT Integration and Performance Testing Complete	Aug 14, 2006		

Viewing Resource Information

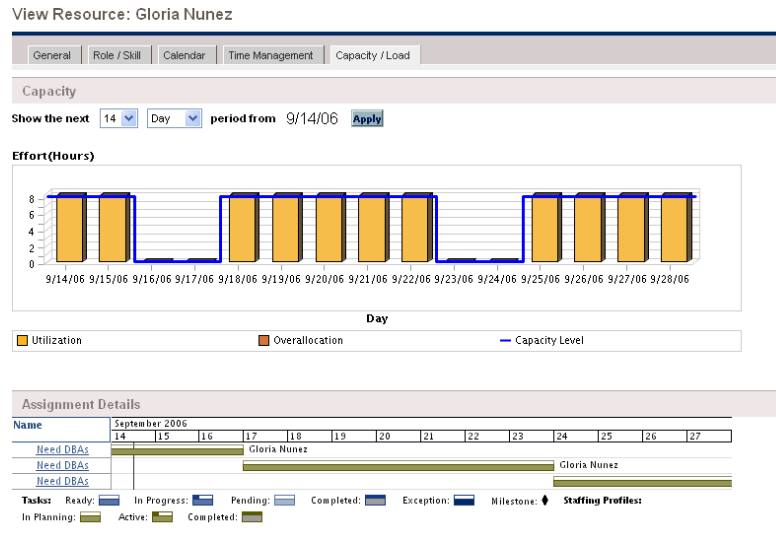
Resources can view information on their current assignments using the View Resource page. The View Resource page includes the **Capacity/Load** tab, which displays a chart of resource capacity and a customized Gantt chart illustrating their assignments for the next two weeks, or a time period of their choosing.

To access your own View Resource page, select **Administration > View My Resource Information** from the menu bar.

Project managers with the proper level of access can also view information on resources including their workload capacity.

Figure 8-6 illustrates the **Capacity/Load** tab of the View Resource page.

Figure 8-6. View Resource page: Capacity/Load tab



To open the View Resource page, select **Resource Management > Resources > Search Resources** from the menu bar. Provide any search criteria in the Search Resources page and click **Search**.

Exporting Your Task Schedule

HP Project Management allows you to view and filter the project work plan to display only the tasks assigned to you, which you can then export to a PDF file for your own use. In order to view and filter the work plan, you must have a HP Project Management license, meet the project's participant restrictions as defined in the *Project Security* policy, and have the View Projects access grant at a minimum. Project managers may want to perform this action for resources that lack the proper level of access.

To obtain a PDF file of project tasks assigned to you:

1. Log on to PPM Center.
2. Open the project to edit.

For more details on searching for and opening projects, see *Searching for Projects* on page 131.

3. On the Project Overview page, click **Edit Work Plan**.

The Work Plan page opens.

4. Click the **All Tasks** button next to **Filter for** and select **Tasks by resource**.

The Filter Options dialog box opens.

5. Select your own name from the resource field and click **OK**.

The Work Plan page reloads, displaying only tasks assigned to you.

6. Click the **PDF** icon.

The PDF Export Options dialog box opens.

7. Select the desired options for the display of the project Gantt chart, the included columns, and paper size.

8. Click **Export**.

The filtered project PDF file opens in a new window, where it can be viewed and saved.

Updating Tasks

HP Project Management makes it easy for resources to report on different aspects of tasks in multiple levels of detail:

- *Using the My Tasks Portlet*

Actuals for multiple tasks can be updated simultaneously, with information deemed essential by the project manager available to update immediately.

- *Using the Task Page*

Resources can view their tasks in detail, updating and saving task notes and references.

Updating task actuals can trigger events in the project that move it along its path to completion.



If HP Time Management has been enabled for a project, you may not be able to enter **Actual Effort** values for tasks whose actuals are expected to be entered through HP Time Management time sheets. These tasks are marked with an icon resembling a clock.

Using the My Tasks Portlet

Sometimes it might be necessary for a resource to only update a specific task detail, such as the % **Complete**. The My Tasks portlet is perfectly suited to this need, and has the added advantage of being able to show multiple tasks at once.

The fields collected by the portlet are determined by the fields tracked by the project, which are controlled through different policies in the project settings. See [Chapter 3, *Configuring Project Types*, on page 35](#) for details.

The My Tasks portlet displays information for multiple tasks. The maximum number of tasks displayed can be specified by the user, as well as the portlet title. Most fields in the My Tasks portlet are updateable by resources.

The My Tasks portlet integrates with HP Time Management to allow you to update task actuals using time sheets. See [Chapter 11, *Integration with HP Time Management*, on page 209](#), for more detailed information on Time Management integration.

To update fields in the My Tasks portlet:

1. Make the update in the desired field.
2. Click **Save**.



In order for updates to take effect, the participant must click **Save**. Only then will HP Project Management take into account the updates that have been made.

To clear all changes and reset all fields to their previous values, click **Reset**.

Getting to the My Tasks Portlet

The My Tasks portlet is defaulted to display on a resource's home page. The home page can be reached at any time by selecting **Dashboard > Front Page** from the menu bar at left.

Integration with HP Time Management

HP Time Management allows you to enter actual effort values on a more granular level using the My Tasks portlet, which interfaces with time sheets. General considerations when using the Time Management integration include:

- The My Tasks portlet creates time sheets or time sheet lines for you as needed.

- Ensure that you have selected the correct period for which to enter time in the **Use Time Sheet** field before entering time.
- Clicking the **Actual Effort** value opens the Effort Breakdown dialog box, which allows you to edit entries for the associated time sheet lines.
- Once you have created a time sheet entry for a task, the time sheet data controls the task's actual start and finish dates.
- Time can be tracked for summary tasks, which are visible in the My Tasks portlet when the project tracks time at this level. Individual tasks are also visible, but without actual effort, allowing you to indicate progress toward specific deliverables, independent of effort.

For more information on this integration, see [Chapter 11, *Integration with HP Time Management*, on page 209](#).

Using the Task Page

The Task page contains detailed information on multiple aspects of a single task. Notes and references for a task are updateable through the Task page by the following sets of users:

- Users with the Edit Projects access grant
- Users with the Update Tasks access grant who have been assigned to the task

To update notes or references in the Task page:

1. Open the task using one of the methods described below:
 - [Searching for Tasks and Projects on page 157](#)
 - [Finding Tasks Using the My Tasks Portlet on page 156](#)
 - [Finding Tasks Using Notifications on page 160](#)

The Task page opens.

2. Make the desired update to the task's **Notes** or **References**.

For details on adding references to a task, see [Viewing and Modifying References on page 169](#).

3. Click **Save**.

Viewing and Modifying References

HP Project Management features a number of methods for capturing additional information, or references, related to your projects. Tasks can include references to other entities or points of information, allowing easy access and visibility to data related to the current project. The following references can be attached to a task:

- URLs
- Attachments (anything that can be placed on a server: PDF files, JPEG images, Java™ .class files, and so forth)
- Requests
- Packages
- Tasks
- Other projects
- Releases

Task references are attached from the Task page. Project managers can add references at the project level through the **References** tab of the Project Overview page.

Adding References to Tasks

You can reference a Web accessible file or attach a file from your local machine to the current task.

Attaching Files

To add a file as a reference:

1. Navigate to the Task page and scroll down to the **References** section.
2. Select **Attachment** from the **New Reference** field.
3. Click **Add**.

The Add Document page opens.

4. Select the desired file from your machine and type a description if desired.
5. Click **Add** to add the selected attachment as a reference.

The referenced attachment appears in the **References to be added on Save** list on the Task page. *The reference has not been added yet.*

6. Click **Save** to add the attachment to the task.

Attaching URLs

To add a URL as a reference:

1. Navigate to the Task page and scroll down to the **References** section.
2. Select **URL** from the **New Reference** field.
3. Click **Add**.

The Reference URL page opens.

4. Type the URL into the **URL** field and type a description if desired.
5. Click **Add** to add the specified URL as a reference.

The referenced URL appears in the **References to be added on Save** list on the Task page. *The reference has not been added yet.*

6. Click **Save** to add the reference to the task.

Viewing and Editing References

You can view the references that have been linked to a task. The references are listed in the **References** section of the Task page.

To view the references currently linked to the task:

1. Navigate to the Task page and scroll down to the **References** section.
2. Click on the name of the reference you want to view.
 - If the reference is a URL, it opens inside your Web browser.
 - If the reference is a file of any other kind, it is handled by your Web browser in the usual fashion, either opening directly or asking to be saved to your local machine.
 - If the reference is a project, its Project Overview page opens, displaying summary information related to that particular project.
 - If the reference is another PPM Center entity (request, package, or task) it will open the entity's Details page.

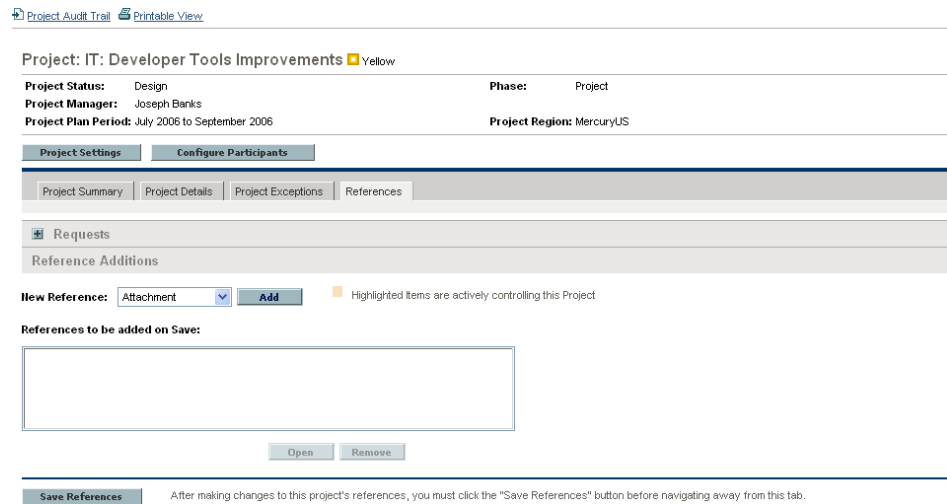


If you have licenses for HP Demand Management and HP Deployment Management, you can click the request or package to access their detail pages. You can then update those entities according to normal PPM Center operation.

If you have permission to edit the task, you can modify the task's references. In addition to adding new references, you can delete and change the relationships of existing references.

You can also view references related to your tasks and projects using the **References** tab on the Project Overview page.

Figure 8-7. Project Overview page: References tab



Project: IT: Developer Tools Improvements ■ Yellow

Project Status: Design **Phase:** Project
Project Manager: Joseph Banks
Project Plan Period: July 2006 to September 2006 **Project Region:** MercuryUS

Project Settings **Configure Participants**

Project Summary | Project Details | Project Exceptions | **References**

Requests

Reference Additions

New Reference: Attachment ■ Highlighted items are actively controlling this Project

References to be added on Save:

Save References After making changes to this project's references, you must click the "Save References" button before navigating away from this tab.

Deleting References

If you have permission to edit the task, you can delete the task's references.

To delete a task reference:

1. Navigate to the Task page and scroll down to the **References** section.
2. Click the **Delete** icon to the left of the reference.

A message will appear asking you to confirm the deletion.

3. Click **Yes**.

The reference is removed from the task.

9 Using Work Plan Templates

In This Chapter:

- *Setting up a Work Plan Template*
 - *Creating and Managing Work Plan Templates*
 - *Adding Tasks to a Work Plan Template*
 - *Configuring Tasks in a Work Plan Template*
 - *Configuring Access to a Work Plan Template*
 - *Creating a Work Plan Template from an Existing Work Plan*
 - *Work Plan to Work Plan Template Conversion Details*
 - *Creating a Work Plan from a Work Plan Template*
-

Setting up a Work Plan Template

Work plan templates are used in HP Project Management to create repeatable processes to be used as a model and basis for numerous projects.

Work plan templates speed up the process of setting up your work plans. A repeated set of tasks are bundled into a template and used to create a work plan while preserving its notifications, any resource assignments, and predecessors.

For example, a company with several different software products might use the same process for all development efforts. A work plan template could be used to create the work plan for each one, as opposed to creating them all individually every time a project is planned. Information for each individual project can then be modified by a particular project manager as needed.

A work plan template consists of an ordered hierarchy of tasks. The sequence of tasks can be edited in a manner nearly identical to the way work plans are manipulated in the **Schedule** view.

Figure 9-1. Defining a work plan template

The screenshot shows a software interface for defining a work plan template. The title is 'Work Plan Template: ERP App Dev Template'. The interface includes a toolbar with various icons and a table of tasks. The table has columns for 'Seq', 'Name', 'Scheduled Duration', 'Scheduled Effort (hrs)', 'Predecessors', 'Resources', and 'Role'. The tasks are organized into a hierarchy with expandable/collapsible icons.

Seq	Name	Scheduled Duration	Scheduled Effort (hrs)	Predecessors	Resources	Role
1	ERP App Dev Template	1.00	0.00			
2	Phase I: Project Startup	1.00	0.00			
3	Complete detailed plan	10.00	0.00			
4	Finalize team logistics	2.00	0.00	3		
5	Finalize Infrastructure plan	1.00	0.00	3		
6	Project Startup Deliverables	15.00	0.00			
7	Phase I: Project Startup Complete	0.00	0.00	4, 5, 6		
8	Phase II: Business Operations Analysis	1.00	0.00			
9	Functional Area 1	1.00	0.00			
10	As-Is Analysis	3.00	0.00			
11	As-Is Documentation	2.00	0.00	10		
12	Requirements Interviews	5.00	0.00	11		
13	Requirements Documentation	2.00	0.00	12		
14	Prioritization and Scope Agreement	2.00	0.00	13	Barbara Getty	
15	Functional Area 1 Requirements Complete	0.00	0.00	14		
16	Phase II: Business Ops Analysis Complete	0.00	0.00	9	Barbara Getty	

Creating and Managing Work Plan Templates

Work plan templates are created and managed from the **Administration > Project Types & Templates** menu group in the menu bar.

- To create a work plan template, click **Administration > Project Types & Templates > Create Work Plan Template**. The Create Work Plan Template page opens, allowing you to create a work plan template.
- To manage work plan templates, click **Administration > Project Types & Templates > Manage Work Plan Template**. The Manage Work Plan

Template page opens, listing all the work plan templates in the system. Click on a work plan template name to open the Template Details page.

Adding Tasks to a Work Plan Template

After you create a work plan template, the Work Plan Template page opens. The process of adding tasks to a work plan template is identical to adding tasks in the **Schedule** view. See *Adding Tasks to the Work Plan on page 68* for details.

➤ Some fields in work plan template tasks do not exist or cannot be updated.

Configuring Tasks in a Work Plan Template

Tasks and notifications in a work plan template can be configured the same way as they are in the **Schedule** view. See *Editing Task Information on page 95* for details.

➤ Some fields in work plan template tasks do not exist or cannot be updated.

You can mark a task in a work plan template as required. A required task cannot be renamed or removed from a work plan created using the template. To mark a task as required, select the **Require this task on work plans created from this template** checkbox in the Task Details page.

Configuring Access to a Work Plan Template

You can control who has the ability to use or edit a work plan template through the Configure Access page. Click **Configure Access** in the Template Details page to configure access for a work plan template.

Creating a Work Plan Template from an Existing Work Plan

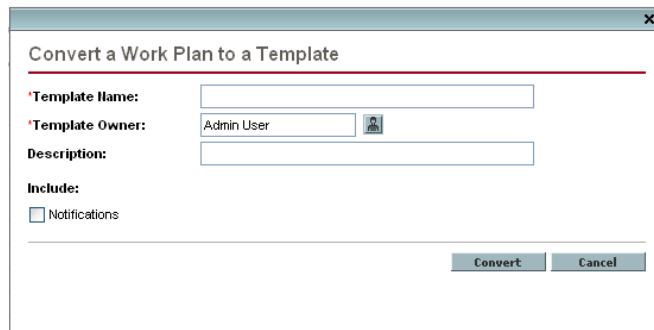
Project managers can create a new work plan template from an existing work plan. Project managers who want to convert their Microsoft Projects into HP Project Management work plan templates can first import their Microsoft Project into a HP Project Management project and then convert it into a template. See [Integrating Project Management with Microsoft Project on page 179](#) for detailed instructions on converting a Microsoft Project file into a PPM Center project.

- Only users with the Edit Work Plan Templates access grant can convert an existing work plan into a work plan template.

To create a work plan template from an existing work plan:

1. Open the project.
2. In the **Schedule** view, click **Actions** and select **Convert Work Plan to Template**.

The Convert a Work Plan to a Template dialog box opens.



- In order to successfully convert a work plan to a template, you must be the only user editing the work plan. If other users are editing the work plan, a message will appear stating that the “Project is being edited by another user” and the conversion stops.

3. Provide a new **Template Name**, **Template Owner** and **Description** for the new work plan template.
4. Select whether to include **Notifications** by selecting the associated checkbox.

See [Work Plan to Work Plan Template Conversion Details](#) for a list of items copied from the work plan to the template.

5. Click **Convert**.

When the conversion is complete, a dialog box opens.

6. Click **Edit Template** to edit the new work plan template.



In the work plan to template conversion, not all work plan details are copied to the new template. The work plan's actuals information is discarded during the conversion, such as the actual duration, efforts, start date and end date of the work plan and tasks.

Work Plan to Work Plan Template Conversion Details

When creating a work plan template from a work plan, the following items are copied or dropped:

- Data that work plan templates do not carry is dropped. This includes:
 - External predecessors
 - Schedule dates
 - Constraints
 - Effort and cost actuals
 - Task status
 - Resource assignments and summary task owners
 - References
 - Notes
 - User data
- Scheduled effort is copied as follows:
 - For automatically-calculated tasks, scheduled effort is recalculated.
 - For manually-input tasks, total task effort is retained in the **Unassigned Effort** field.
- Everything else is copied into the work plan template.

Creating a Work Plan from a Work Plan Template

If a company has a business process that is used repeatedly, it will be easier to create and manage if it has its own template containing preconfigured settings.

To create a new work plan from a work plan template:

1. Create a new project.
2. On the Project Overview page, click the **Create work plan from a template** link.

The Create Work Plan from Template dialog box opens.

3. Select the desired template from the **Work Plan Template** field.
4. Click **Create**.

A new work plan is created as defined by the work plan template.



The project type may enforce a particular work plan template for a project. See [Work Plan on page 40](#) for more details.

10 Integrating Project Management with Microsoft Project

In This Chapter:

- *Overview of Integrating Project Management with Microsoft Project*
 - *Synchronization Modes*
 - *Project Management Strategies*
 - *Installing the Plug-in for PPM*
 - *Requirements for the Plug-in for PPM*
 - *Installation Instructions*
 - *Sending a Microsoft Project Work Plan to Project Management*
 - *Opening a Project Management Work Plan in Microsoft Project*
 - *Setting a Synchronization Mode for Project Management and Microsoft Project*
 - *Sending Work Plan Information from Microsoft Project to Project Management*
 - *Retrieving Actuals from Project Management*
 - *Enabling Detailed Synchronization Logs*
 - *Mapping Resources Between Applications*
 - *Errors and Warnings*
 - *Removing Microsoft Project and Project Management Associations*
 - *Project-Level Settings for Integration*
 - *Integration Mode*
 - *Transferring PPM Center Information to Microsoft*
 - *Microsoft Storage Location for PPM Center System Information*
 - *Disabling Save Prompting*
 - *Impact of Microsoft Project Rules on Fields*
 - *Solutions for Project Managers*
 - *Conditional Editing Allowed In Project Management*
 - *Editing Project Management Controlled Projects*
 - *Editing Microsoft Project Controlled Projects*
 - *Editing in Shared Control Mode*
 - *Conditional Editing Summary Table*
 - *Working with Projects Using a Microsoft Project Server*
 - *Troubleshooting*
 - *Deleting Required Tasks or Tasks with Actuals*
 - *Cost Rollup and Health Calculations*
 - *Resource Calendars*
 - *Units*
 - *Microsoft Project's Manual Scheduling Mode*
-

Overview of Integrating Project Management with Microsoft Project

HP Project Management integrates with Microsoft Project using the Plug-in for PPM. The integration between Microsoft Project and Project Management allows the organization to have visibility into projects even when their schedules are planned in Microsoft Project. The integration allows project managers to import project information from Microsoft Project to a new HP Project Management project. Project information can also be exported from Project Management to Microsoft Project, creating a new project in Microsoft Project. Projects that have been imported or exported can be synchronized. Any information that is shared between projects in both applications is updated during synchronization.

Depending on your project management strategy, you can use each application to accomplish different vital tasks; a general outline of the most common way to use the integration follows below.

1. Before you can use the integration, your system administrator needs to verify or adjust some key settings to conform to your organization's business needs. You should not use the Microsoft Project integration until this has been completed.

For more detailed information, see the *HP Project Management Configuration Guide*.

2. In order to use the integration, you must download and install the Plug-in for PPM from HP Project Management, accessible at any time from the menu bar.

▶ The Plug-in for PPM is only compatible with Microsoft Project 2000 (SP1), 2002, and 2003. It is not compatible with earlier versions of Microsoft Project such as Project Central.

Once the plug-in is installed, Microsoft Project can be used to work with Project Management work plans in any of the ways described below. For detailed instructions on the Plug-in for PPM, see [Installing the Plug-in for PPM on page 185](#).

▶ If the plug-in has not been installed on your system and you cannot see the download option in the menu bar, contact your PPM Center administrator for access.

3. Decide how you will manage your plan.

See [Synchronization Modes on page 181](#) for details on the different synchronization modes offered by the integration.

The relevant settings for the project should be configured based on your preferences. See *Project-Level Settings for Integration* on page 196 for more detailed information.

4. Decide how you want to create the work plan.

See *Project Management Strategies* on page 183 for details on different ways to create and maintain a work plan.

5. Create and manage the work plan.

- If your work plan is Project Management-controlled, you will create the work plan in Project Management and occasionally open it in Microsoft Project. See *Opening a Project Management Work Plan in Microsoft Project* on page 189 for more detailed information.
- If your work plan is Microsoft Project-controlled, you will create the work plan in Microsoft Project and occasionally open it in Project Management. Mapping of resource information between applications occurs automatically when sending a Microsoft Profile file to Project Management, but you can make manual adjustments during the process. See *Sending a Microsoft Project Work Plan to Project Management* on page 188 for more detailed information.
- If control is shared, you will manage the work plan in Microsoft Project and collect actuals using Project Management. See *Setting a Synchronization Mode for Project Management and Microsoft Project* on page 190 for more detailed information.

Synchronization Modes

By synchronizing information between Project Management and Microsoft Project, you have the advantage of using the “best of both possible worlds.” Depending on your project management strategy, you can use one application to perform all planning and tracking activities, and then use the other for publishing project information to managers, participants and stakeholders, or use both to share control of different aspects of the project. See *Project Management Strategies* on page 183 for more information about different project management strategies.

The project manager can select from three synchronization modes for updating information between Project Management and Microsoft Project. Each mode offers a different strategy for communication between the two applications and has its own set of advantages.

Project Management Controlled

The project manager initially creates a work plan in Project Management to perform planning and tracking activities. These activities include defining the project, scheduling tasks and tracking actuals. The first time the project is synchronized, Project Management creates a new project file on the project manager's desktop computer. For each subsequent synchronization, all of the information in the Microsoft Project file is replaced with the current information in Project Management.

Even if you want to manage your work plan using Project Management, you can create it initially in Microsoft Project.

After synchronization, the project manager can distribute the Microsoft Project file or use it to run reports for managers and other people in the organization.

Microsoft Project Controlled

The project manager creates a project in Microsoft Project to perform project planning and tracking activities and then publishes it to Project Management, where the synchronized project appears on the PPM Dashboard. Information unique to PPM Center can be added within Project Management, such as notifications, task notes, or references to related entities within PPM Center. These references can provide information back to the project manager.

For all subsequent synchronizations, information in Project Management is updated with current information from Microsoft Project. Information added in Project Management, such as notification configurations or activity or role associations, is retained.

Shared Control

The project manager plans and schedules the project in Microsoft Project while using Project Management to track actuals. Participants in the project directly report actuals data using the My Tasks portlet or a time sheet. Each subsequent synchronization updates the Microsoft Project file with actuals data from Project Management. The Project Management work plan is updated with changes to its structure or schedule in Microsoft Project.

See *Setting a Synchronization Mode for Project Management and Microsoft Project* on page 190 for more information about synchronization.

Project Management Strategies

The following scenarios demonstrate how project managers can use different project management strategies offered by the integration.

Publishing a Project Management Work Plan through Microsoft Project

A project manager who uses Project Management to manage projects can use the integration to publish the projects. Publishing can simply mean distributing the Microsoft Project file to external audiences (such as a Program Management Office group). Publishing could also mean synchronizing the Microsoft Project file with Project Management, and then running Microsoft Project reports for distribution. The projects can be published on a regular basis (weekly or quarterly) or at defined milestones (such as design completion).

To publish a Project Management work plan through Microsoft Project:

1. Open a blank file in Microsoft Project.
2. Open the Project Management work plan in Microsoft Project. (See *Opening a Project Management Work Plan in Microsoft Project* on page 189 for detailed instructions.)
3. Save the project and run reports as usual.

After the first export, you may choose to synchronize the Project Management work plan with the Microsoft Project file in *Project Management Controlled* mode. This will effectively regenerate the Microsoft Project file.

This can also be used to recover a lost Microsoft Project file from a previously-synchronized Project Management work plan.

Publishing a Microsoft Project File through Project Management

A project manager who uses Microsoft Project to manage projects can publish those projects using Project Management. You can create a work plan in Project Management from a work plan template and subsequently open it in Microsoft Project for further editing. This allows you to take advantage of any standards enforced by a PMO. Publishing means loading the project data into the Project Management repository, which has the following benefits:

- The project status appears in the PPM Dashboard. Project Management calculates exceptions and health status (red/yellow/green) based on the project's policy settings.
- Project participants and external audiences can see the project in various interfaces such as the My Tasks portlet and search pages. Although these

participants cannot use Project Management to update project status, this is an effective way to increase visibility of project information.

- Project Management users can create references from other PPM Center entities (such as requests and packages) to tasks in the synchronized project. These references could be used to monitor the state of a particular task.

To publish a Microsoft Project file through Project Management:

1. Create a project in Project Management without a work plan.
2. Ensure that the project's integration mode is set to Microsoft Project control.
3. Send the Microsoft Project file to Project Management. (See *Sending a Microsoft Project Work Plan to Project Management* on page 188 for detailed instructions.)

The project manager is likely to publish the project to Project Management on a regular basis. This can be done by selecting **PPM > Update Associated Work Plan** in Microsoft Project. Information in Project Management is updated based on the information in the Microsoft Project file, and information unique to Project Management is retained.

Using Both Applications to Track Different Project Data

A project manager who uses Microsoft Project to plan and manage projects can use Project Management to collect actuals from participants. In addition to the benefits described previously in *Publishing a Microsoft Project File through Project Management*, this integration shifts some of the effort of collecting and entering actuals information from the project manager to the participants. The project manager will need to synchronize the projects periodically, either to publish a re-planned work plan to Project Management or to collect new actuals updates into Microsoft Project.

To use Project Management to track actuals from Microsoft Project:

1. Create the work plan.
 - You can create the work plan initially in Microsoft Project and subsequently send it to Project Management in order to establish the work plan integration. All work plan editing should still be done in Microsoft Project.
 - You can also create the work plan initially in Project Management using a work plan template and subsequently edit it in Microsoft Project. This allows standards to be enforced even when using Microsoft Project for work plan management.

2. From the **PPM** menu in Microsoft Project, select **Update associated work plan**.

The Update Associated Work Plans dialog box opens.

3. Select **Send work plan information from MSP to PPM** or **Retrieve actuals from PPM to MSP** and click **OK**.

See *Setting a Synchronization Mode for Project Management and Microsoft Project* on page 190 for more detailed information.

Installing the Plug-in for PPM

To integrate Microsoft Project and Project Management, you must download and install the Plug-in for PPM from the menu bar. This is a one-time action that does not need to be repeated every time you use Microsoft Project or Project Management.

Before installing the plug-in, open Microsoft Project. If you see a **PPM** menu at the top of the window, then the plug-in has already been downloaded and installed for you.



If the plug-in has not been installed on your system and you cannot see the download option in the menu bar, contact your PPM Center administrator for access.

Requirements for the Plug-in for PPM

The following are the Project Management and Microsoft Project requirements that should be met before installing the plug-in.

Microsoft Project Requirements

The Microsoft Project requirements for the plug-in are:

- You must have access to your local PC that allows you to install software.
- You must be using Microsoft Project 2000 (SP1), 2002, or 2003.
- Microsoft Project must be installed on the workstation.
- The saved project file must either be on the workstation, or on a mapped network drive.

Access Grants

In order to install and use the plug-in, you need a HP Project Management license and the Synchronize Work Plans access grant. This access grant is included in the PPM Project Manager security group included with HP Project Management.

Installation Instructions

To integrate PPM Center with Microsoft Project, the Plug-in for PPM must be installed. If you have the proper level of access to your workstation, you can install the plug-in yourself. Alternatively, your system administrator may install the plug-in at the server level, and then use a technology such as Microsoft SMS to push it to client machines. Program managers can also install the plug-in on client machines.

This section provides the steps you perform to install the plug-in.

To install the plug-in:

1. If Microsoft Project is open, exit Microsoft Project.
2. After you install and configure PPM Center, log on to PPM Center.
3. From the menu bar, select **Administration > Download Microsoft Project Plugin**.

The File Download dialog box opens and prompts you to indicate whether you want to open or save the `setup.exe` file.

4. Click **Open**.

The Plug-in for PPM Install Shield wizard starts up.

5. On the Welcome page, click **Next**.

The Destination Folder page displays the default directory for the plug-in installation.

6. To accept the default directory, click **Next**. Otherwise, change the install directory, as follows:

- a. Click **Change**.

The Change Current Destination Folder page opens.

- b. Browse to, and then select a destination installation folder.
- c. Click **OK**.

7. Click **Next**.

The Server URL Default page opens.

8. In the **Project Portfolio Management Server URL** field, type the first part of the URL for the PPM Server.

Allowed formats include:

- `<server:port>`
- `http://<server:port>`
- `https://<server:port>`

For example, if your URL is:

`http://myserver:41000/itg/dashboard/app/portal/PageView.jsp`

Then you can enter:

- `http://myserver:41000`

or

- `myserver:41000`



If you do not know the default URL, you can provide this information later, after you install the plug-in.

9. Click **Next**.

10. Click **Install**.

11. After installation is completed, on the InstallShield Wizard Completed page, click **Finish**.

The next time you start Microsoft Project, the menu bar includes the **PPM** menu.

You can uninstall the plug-in using your workstation's standard Add/Remove Programs utility. Microsoft Project should be closed during this operation.

Changing the PPM Server URL Setting

If, after installing the Plug-in for PPM, you must change the server URL, you can make the change in the `ITGovernance.ini` file found in the plug-in's install directory using a text editor. This file will retain the last server URL you used. You can also clear the server URL setting using the **PPM** menu in Microsoft Project.

To change the server URL setting

1. From the Microsoft Project menu bar, select **PPM > Clear Server Default**.
2. The next time you attempt to connect to PPM Center, you will be prompted to provide a new server URL.

Sending a Microsoft Project Work Plan to Project Management

A project manager who uses Microsoft Project to manage projects can publish those projects using Project Management. Use the **Send work plan to PPM** option in the **PPM** menu in Microsoft Project to create a new work plan in Project Management based on the current `.mpp` file in Microsoft Project. This option can be used regardless of how the plan will be managed after its creation. Projects using Microsoft Project Server behave somewhat differently; see *Working with Projects Using a Microsoft Project Server* on page 205.



You need to create a project without a work plan in Project Management before importing the file from Microsoft Project.

To send a Microsoft Project work plan to Project Management:

1. From the Microsoft Project menu bar, select **PPM > Send work plan to PPM**.
2. Type your Project Management username and password.
3. Select a project to send the Microsoft Project work plan to.

You can only select from projects that do not have work plans, and only for projects for which you are the project manager. If no such project exists, you must create one first in Project Management.

4. Click **Send**.

5. Specify mapping for unmapped resources, if any.

The integration automatically performs resource mapping between applications, but you can make changes manually as described in [Mapping Resources Between Applications](#) on page 194.

6. Click **Done**.

You can also click **Show Info** to view the information dialog box to view any informational messages, errors, or warnings that occurred while sending the work plan to Project Management.

Whenever you send a Microsoft Project file to Project Management, a backup copy of the .mpp file is automatically saved to the same directory in which the original file is stored, with the extension .bak.

Opening a Project Management Work Plan in Microsoft Project

A project manager who uses Project Management to manage projects can open a Project Management work plan in Microsoft Project. The manager can then distribute the Microsoft Project file to external audiences (such as a PMO group). The manager could also synchronize the Microsoft Project file with Project Management periodically, and run Microsoft Project reports for distribution.

For more information on synchronizing your Project Management work plan with its Microsoft Project counterpart, see [Setting a Synchronization Mode for Project Management and Microsoft Project](#) on page 190.



You can only open a Project Management work plan in Microsoft Project if you have a new, blank file open in Microsoft Project.

To open a Project Management work plan in Microsoft Project:

1. From the Microsoft Project menu bar, select **PPM > Open a PPM work plan**.
2. Type your Project Management username and password.
3. Select a work plan to open.

You can only select from projects that have active work plans. Additionally, the system will indicate whether the work plan you have chosen has already been integrated with Microsoft Project.

4. Click **Done**.

You can also click **Show Info** to view the information dialog box to view any informational messages, errors, or warnings that occurred while opening the work plan in Microsoft Project.

The task structure and task names for the project in Project Management and the project in Microsoft Project will be identical. There will be a 1-to-1 relationship between tasks, and tasks will appear in the same sequence in both projects. Tasks are marked as fixed duration, which causes resource assignments and efforts to match. Scheduled start and finish dates for tasks without actuals will be identical in Project Management and Microsoft Project.

Duration is calculated by Microsoft Project based both on the start and finish dates and the resource calendars in Microsoft Project. Task durations and rollup durations will sometimes differ slightly between the two applications.

Regional calendar settings applied to the project calendar in Microsoft Project include:

- Number of hours per day
- Working days for each week

Since calendar exceptions are not synchronized, variances in duration may result.

Setting a Synchronization Mode for Project Management and Microsoft Project

Control of projects that have been created in one application and opened in the other can be subsequently shared between Microsoft Project and Project Management using one of three modes defined by Project Management. These control modes are established on the Project Management side, in the **Microsoft Project Integration** policy in the project settings. See [Project-Level Settings for Integration on page 196](#) for details on its settings.

- **Project Management controlled.** Selecting **PPM > Update associated work plan in Microsoft Project** completely refreshes the plan information in Microsoft Project with the work plan from Project Management.
- **Microsoft Project controlled.** Selecting **PPM > Update associated work plan in Microsoft Project** completely refreshes the plan information in Project Management with the work plan from Microsoft Project. Any additional edits made in Project Management are retained (see [Conditional](#)

Editing Allowed In Project Management on page 202 for details). If the Microsoft Project work plan includes resources that cannot be mapped to resources in PPM Center, you will be asked to map these resources. See *Mapping Resources Between Applications on page 194* for more details.

Whenever you send a Microsoft Project file to Project Management, a backup copy of the .mpp file is automatically saved to the same directory in which the original file is stored, with the extension .bak.

If you originally created the work plan in Project Management using a work plan template, tasks marked as required by the template cannot be deleted in Microsoft Project.

- **Shared control.** Selecting **PPM > Update associated work plan in Microsoft Project** allows you to choose between the following options:

- Sending updated schedule information from Microsoft Project to Project Management. If this option is chosen, the integration will refresh the work plan schedule information in the associated work plan in Project Management based on the data in Microsoft Project. Any additional edits made in Project Management are retained (see *Conditional Editing Allowed In Project Management on page 202* for details). For more details on updating work plan information, see *Sending Work Plan Information from Microsoft Project to Project Management*. If the Microsoft Project work plan includes resources that cannot be mapped to resources in PPM Center, you will be asked to map these resources. See *Mapping Resources Between Applications on page 194* for more details.

Whenever you send a Microsoft Project file to Project Management, a backup copy of the .mpp file is automatically saved to the same directory in which the original file is stored, with the extension .bak.

If you originally created the work plan in Project Management using a work plan template, tasks marked as required by the template cannot be deleted in Microsoft Project. Tasks that have actuals logged against them in Project Management cannot be removed from the Microsoft Project file. You must first remove the actuals if you intend to remove the tasks.

- Retrieving actuals information from Project Management based on the settings described in *Project-Level Settings for Integration on page 196*. If this option is chosen, the integration will retrieve actuals data from Project Management for your review and optional application. For more details on obtaining actuals from Project Management, see *Retrieving Actuals from Project Management*.

Sending Work Plan Information from Microsoft Project to Project Management

You can update your Project Management work plan to match the work breakdown structure, schedule, assignments, and actuals in the associated Microsoft Project file. For all subsequent synchronizations, information in Project Management is updated with current information from Microsoft Project.

To send work plan information from Microsoft Project to Project Management:

1. Open the project in Microsoft Project.
2. From the **PPM** menu in Microsoft Project, select **Update associated work plan**.

The Update Associated Work Plans dialog box opens.

3. Select **Send work plan information from MSP to PPM** and click **OK**.

Automatic Backup of Microsoft Project Information

Every time work plan schedule information is successfully sent from Microsoft Project to Project Management, a backup copy of the `.mpp` file is automatically saved to the same directory in which the original file is stored, with the extension `.bak`. The open `.mpp` file is also saved.

When a work plan is being shared between Microsoft Project and Project Management, deleting one of the following types of tasks in Microsoft Project results in an error that will halt the next integration process:

- A task marked as required by the work plan template, if the work plan was originally created in Project Management from a work plan template.
- A task that has actuals.

If you experience an integration error related to the deletion of a task in Microsoft Project that had actuals, you can use the existing backup copy as a starting point from which to reapply your most recent edits.

Projects using Microsoft Project Server behave somewhat differently; see *Working with Projects Using a Microsoft Project Server* on page 205.

Retrieving Actuals from Project Management

You can update the Microsoft Project file with actuals data retrieved from the associated Project Management work plan when Project Management and Microsoft Project share control of the plan. The integration will show you the tasks in the Microsoft Project work plan that will be updated with new actuals, and gives you the option of cancelling the update if the changes are not what you expected.

To update the Microsoft Project work plan with actuals from Project Management for a plan using shared control:

1. Open the project in Microsoft Project.
2. From the **PPM** menu in Microsoft Project, select **Update associated work plan**.

The Update Associated Work Plans dialog box opens.

3. Select **Retrieve actuals from PPM to MSP** and click **OK**.

The integration retrieves the actuals specified in the **Transfer actuals information** setting in the **Microsoft Project Integration** policy.

The Accepting PPM Actuals dialog box opens, displaying the tasks that have changed and the nature of their changes. If the changes are not what you expected, you can click **Cancel** to cancel the update.

4. Click **Continue**.

The Microsoft Project work plan is updated with new actuals from Project Management, and a new table opens in Microsoft Project identifying both tasks whose actuals changed (changed tasks) as well as tasks whose schedule information changed as a result of Microsoft Project's internal field rules (impacted tasks). See *Impact of Microsoft Project Rules on Fields* on page 200 for more detailed information.

By default, changed tasks are displayed in red, while impacted tasks are displayed in blue. These colors can be configured in the **Microsoft Project Integration** policy in the project settings. See *Project-Level Settings for Integration* on page 196 for details on its settings.

You can also use custom filters and data table views provided by the integration for Microsoft Project to view changed actuals. See *Custom Microsoft Project Filters and Tables* on page 201 for more details.

5. To return to the normal Gantt chart view in Microsoft Project, select **View > Table > Entry**.

Enabling Detailed Synchronization Logs

By default, synchronizations between Project Management and Microsoft Project use the minimum amount of information tracing in order to optimize performance. You can choose to enable full information tracing for synchronizations, making detailed synchronization logs available from the **Info** tab of the Errors and Warnings window.

To enable full information tracing for a synchronization:

1. Open the project in Microsoft Project.
2. From the **PPM** menu in Microsoft Project, select **Enable all information-level tracing**.
3. Begin the synchronization.

Mapping Resources Between Applications

In project planning, the concept of “resources” can have multiple definitions. A resource can be a team member, time on a mainframe computer, or construction materials. A resource in Project Management is a Project Management user capable of performing tasks. Resources are chosen from the staffing profile associated with the project or from the resource pools managed by the project manager. Microsoft Project supports tracking and costing of both human and material resources. Project Management supports only human resources.

A project can also contain resources that have not been assigned. In Microsoft Project, unassigned resources appear in some resource-centric project views but have little functional significance. In Project Management, unassigned resources are Project Management users listed in the staffing profile who have no task assignments.

During synchronization, all assigned human resources in Microsoft Project are first mapped automatically to defined users in Project Management. Automatic resource mapping is based on the following factors:

- A match between the Microsoft Project resource name and the concatenation of the Project Management user’s first and last name.
- A match between the Microsoft Project resource name and the concatenation of the Project Management user’s last and first name.
- A match between the Microsoft Project resource name and the Project Management username.

In general, the following should be taken into consideration:

- In Project Management, the mapping does not guarantee that all assigned resources are part of the staffing profile. If the staffing profile needs to be maintained, then this must be done manually.
- Material resources are not passed to Project Management.

Automatic resource mapping is not always 100% successful. The integration in Microsoft Project allows you to manually map resources across applications, or intentionally unmap resources that are irrelevant or have been erroneously mapped. This manual adjustment occurs as part of the synchronization process automatically.

To manually map resources from Microsoft Project to Project Management:

1. Perform synchronization as usual.

The Mapping MSP Resources to PPM Resources window opens at a certain point in the process.

- Click **Map to PPM Resource** to locate a Project Management resource to map to a selected unmapped Microsoft Project resource.
 - Click **Unmap** to unmap a Microsoft Project resource.
2. Click **Finish** to proceed with the synchronization.
 - You can leave some resources unmapped. In this case, the effort associated with those resources will appear as unassigned effort on the task in Project Management.
 - You can map more than one resource in Microsoft Project to a single resource in Project Management. However, these Microsoft Project resources cannot both be assigned to the same task.

Errors and Warnings

During synchronizations, the Errors and Warnings window informs you of errors or warnings, and to include suggestions for resolving issues as they occur.

- Errors are fatal problems that must be resolved for the task to be successful. Errors stop the integration process, allowing you to correct the problem and restart the integration.
- Warnings are for informative purposes. After reviewing a warning, you may choose to respond to the warning or ignore it.

Removing Microsoft Project and Project Management Associations

You can remove the association between a Microsoft Project file and a Project Management work plan at any time.



You should only remove the association if you are sure you no longer need to link the Microsoft Project file to the Project Management project. Removing the link may make it impossible to re-associate the file.

To remove the association:

1. Open the project in Microsoft Project.
2. From the **PPM** menu in Microsoft Project, select **Project Details**.

The HP Project and Portfolio Management Center Integration Details dialog box opens.

3. Click **Remove Association**.

If you have already removed the association, the button will be labeled **Restore Association**, which allows you to restore the association with the same Project Management work plan.

Project-Level Settings for Integration

There are a number of settings for projects in Project Management, which are determined by project policies. Project policies are inherited from the project type used to create a particular project. For more information on project types and policies, see [Chapter 3, *Configuring Project Types*, on page 35](#). The settings that pertain to Microsoft Project integration are set by the **Microsoft Project Integration** policy.

Figure 10-1. Microsoft Project Integration policy

Microsoft Project Integration

Below are the settings for integration with Microsoft Project. Projects using this project type will inherit these default settings.

Integration Mode

Integration mode for the project work

PPM controls all shared work plan information

Microsoft controls all shared work plan information

Control is shared

- Work breakdown information is controlled by Microsoft
- Actuals tracking information is controlled by PPM

Transferring PPM Information to Microsoft

During integrations where PPM controls all shared work plan information or tracks actuals, resources will be automatically created in Microsoft.

Resource mapping is done based on:

PPM username

PPM full name: first name, a space, and last name.

PPM full name: last name, a space, first name.

If you are using PPM to track actuals you may want to transfer that information to Microsoft.

Transfer actuals information:

Percent Complete

Percent Complete and Actual Dates

Actual Efforts

Microsoft Storage Location for PPM System Information

During integration PPM needs to store information in Microsoft custom fields to track system information. We recommend using the default locations unless you have existing custom extensions in Microsoft. We also strongly recommend that you do not alter this configuration after a work plan has been integrated.

PPM task information requires 1 Microsoft task custom field:

Number20

PPM resource information requires 1 Microsoft resource custom field:

Number20

PPM assignment information requires 1 Microsoft assignment custom field:

Number20

During integrations where control is shared and changed actuals are retrieved from PPM, PPM uses additional Microsoft custom fields.

Two date fields hold a snapshot of the Start/Finish dates:

Start10/Finish10

Flag field one indicates tasks with changed actuals:

Flag20

Highlight color for tasks with changed actuals:

Red

Flag field two indicates tasks with dates impacted by the changed actuals:

Flag19

Highlight color for tasks with dates impacted by changed actuals:

Blue

► Changes to the **Microsoft Project Integration** policy at the project type level do not propagate to projects of that type.

To view or modify project settings for a project, do one of the following:

- From Project Management, click **Project Settings** from the Project Overview page.

- From Microsoft Project, select **PPM > PPM links > Settings: MSP Integration**. This menu option is only available for projects that have been integrated.

Integration Mode

This setting determines which application has control over project information when synchronizing between Project Management and Microsoft Project.

- If HP Project Management controls all shared work plan information, then any changes made in Microsoft Project are automatically discarded when project information is synchronized, as described in *Publishing a Project Management Work Plan through Microsoft Project* on page 183.
- If Microsoft Project controls all shared work plan information, then work plan fields in Project Management are not editable, as described in *Publishing a Microsoft Project File through Project Management* on page 183.
- If control is shared, then work plan information is determined by Microsoft Project, while actuals data is gathered by Project Management, as described in *Using Both Applications to Track Different Project Data* on page 184.



While it is possible to switch modes during project execution, it is not recommended unless you are moving to Project Management control.

Transferring PPM Center Information to Microsoft

When transferring information from Project Management to Microsoft Project, you need to specify how resources are identified in Project Management using the **Resource name is done based on** setting, so the Microsoft Project integration can create them correctly in Microsoft Project.

If you wish to track actuals for your project in Microsoft Project, select the **Transfer actuals information** setting to enable the transfer of necessary data. This setting is used in shared control mode, and any time a Project Management work plan is used to create a new file in Microsoft Project.

The options for the **Transfer actuals information** setting function as follows:

- **Percent Complete.** Using this option, the only actuals information passed to Microsoft Project is the task-level percent complete. Microsoft Project will imply the actual efforts and dates for each resource.

- **Percent Complete and Actual Dates.** Using this option, the only actuals information passed to Microsoft Project are described below. All values are passed at the task level, and Microsoft Project applies data to assignments using its internal rules.
 - **Actual start.** Applying the actual start date to the task will move the scheduled start of the task in Microsoft Project and can have cascading impacts on the remainder of the schedule in Microsoft Project.
 - **Actual finish (when available).** Applying the actual finish date to the task will cause Microsoft Project to recalculate the task's scheduled finish and duration, which can also cause recalculation of resource efforts and trigger cascading schedule changes throughout the plan.
 - **Estimated finish (potentially).** If the **Estimated Finish** field is being tracked in Project Management and no **Actual Finish** value exists, it will be passed to Microsoft Project as the scheduled finish for the task, which may have impacts on task duration, efforts, and schedule for the remainder of the plan.
 - **Task-level percent complete.** When the task-level percent complete is applied, Microsoft Project will imply resource level efforts.
- **Actual Efforts.** Using this option, the only actuals information passed to Microsoft Project is the resource-level actual effort and estimated remaining effort. Microsoft Project will then infer the percent complete as well as actual start and scheduled finish dates. Since the effort may indicate the task will take more or less effort than intended, this can have cascading impacts throughout the plan, depending on the task setup in Microsoft Project. You should always track actual effort in Project Management when using this option. You can also optionally track estimated remaining effort.

Microsoft Storage Location for PPM Center System Information

The integration requires a custom Microsoft Project field for both tasks and resources in order to properly transfer information between applications. The first three settings in this category allow you to specify which field to use.

When synchronizing projects in shared control mode, several more custom Microsoft Project fields must be specified in this category. These fields hold the following:

- Snapshots of data that will be automatically changed by Microsoft Project once synchronization is complete

- Flags for fields that are changed by the synchronization, and fields that are changed by Microsoft Project based on those synchronized fields

This project-level setting also allows you to change the highlight colors in the custom Microsoft Project table view for synchronized actuals fields and the fields automatically changed by Microsoft Project based on the synchronization. For information on using this custom table view, see *Custom Microsoft Project Filters and Tables* on page 201.

Disabling Save Prompting

The HP Project and Portfolio Management Center Integration Details dialog box opened by selecting **PPM > Project Details** in Microsoft Project allows you to disable the message prompting you to send a work plan to HP Project Management whenever you save it in Microsoft Project.

Impact of Microsoft Project Rules on Fields

Microsoft Project maintains internal rules that determine the way field values are calculated in planning and actuals fields. These rules affect the synchronization processes between Microsoft Project and Project Management because calculations that work in one application do not necessarily carry over to the other application.

For example, Project Management allows you to retain actuals information that is completely separate from your schedule information. In Microsoft Project, this is not allowed, and making updates to one actuals field may trigger automatic revisions to other planning and actuals fields.

The most common Microsoft Project rules for planning and actuals fields are listed below.

Planning Fields

- $\text{Start} + \text{Duration} = \text{Finish}$
- $\text{Effort} = \text{Duration} * (\text{sum of resources} * \text{units})$

Actuals Fields

- $\text{Start} = \text{Actual Start (if known)}$
- $\text{Finish} = \text{Actual Finish (if known)}$
- $\text{Duration} = \text{Actual Duration} + \text{Remaining Duration}$
- $\% \text{ Complete} = \text{Actual Duration} / \text{Duration}$

- **Remaining Duration** is zero when task is 100% Complete
- **Effort** = Actual Effort + Remaining Effort
- **% Work Complete** = Actual Effort / Effort

When Project Management information is passed to Microsoft Project, Microsoft Project will always apply its standard rules. This will lead to situations where the data in each application does not match exactly.

Solutions for Project Managers

In order to give consistent behavior during synchronization, PPM Center project managers must:

- Pay attention to fields that have changed. The integration provides a custom Microsoft Project table view that shows the user which fields have changed as a result of a synchronization, whether directly through the synchronization process, or indirectly as a result of Microsoft Project's automatic calculations.
- Synchronize these fields that are most important to your plan management by selecting the appropriate actuals integration option as described in *Transferring PPM Center Information to Microsoft* on page 198.

The integration ignores Project Management default values that are not enabled.

Custom Microsoft Project Filters and Tables

After synchronizing project information between applications, you can select from the following custom Microsoft Project items provided by the integration:

- A filter named **PPM: Changed Actuals**
- A filter named **PPM: Dates Impacted by Changed Actuals**
- A data view table named **PPM: Changed Actuals**

These items enable you to quickly view the following:

- Fields that have scheduled date changes as a result of the actual synchronization. These fields appear red by default.
- Fields that have changed as a result of automatic calculations performed by Microsoft Project based on synchronized fields. These fields appear blue by default. This is useful for identifying any cascading impacts of a change in actuals.

Conditional Editing Allowed In Project Management

Depending on the synchronization mode that has been selected for a project, the project structure and task information will be controlled by either Project Management or Microsoft Project. Depending on the synchronization control mode selected for the project, some editing features in Project Management will be disabled. Information controlled by Microsoft Project cannot be edited in Project Management.

Summaries of the conditional editing restrictions for each synchronization mode are listed in *Conditional Editing Summary Table*.

Editing Project Management Controlled Projects

When Project Management controls the project, the user is allowed to edit all information in Project Management. This includes changing the task structure, adding or deleting new subprojects and tasks, and editing task scheduling and actual fields.

Editing Microsoft Project Controlled Projects

When Microsoft Project controls all the project planning and tracking activities, the comparable editing functions in Project Management are disabled. The data that is distinct to Project Management and not shared with Microsoft Project can still be edited. This includes task activity, role, skill values, description, user data, notifications, notes, and task references.

When working with a project type that enforces a particular work plan template, you can create the work plan initially in Project Management from the specified work plan template. You can then open the work plan in Microsoft Project.

Any function that could change the project and task structure is disabled in Project Management. This includes the following components:

- **Add Task** icon
- **Delete** icon
- **Indent/Outdent** icons
- **Move up/Move down** icons

Since scheduling can change dates and durations, the **Schedule Project** icon is disabled. The status of the PPM Center project cannot be changed in this synchronization mode; therefore the Change Status is also disabled. The key shortcuts for these icons are disabled as well.

In the standard Project Management interface, the My Tasks portlet and the Task Detail page will not allow users to enter task actuals. The My Tasks portlets and the Task Search page still return the current incomplete tasks assigned to a user regardless of the control mode. This provides visibility to the project's participants. The actuals collected in Microsoft Project are visible through the Work Plan page.

Rollup calculations are disabled through Project Management, whether triggered by actions in the PPM Workbench, the standard web pages, or any other method. Therefore, the rolled-up values in Project Management will match Microsoft Project even if Project Management's calculations would normally produce a different value.

Editing in Shared Control Mode

The shared control mode is more complex than the other two modes when disabling fields. This mode allows users to change the actual fields while keeping the planning fields unchanged.

Only actual fields are editable, through the **Resources** tab on the Task Details page. The planning fields are disabled. In the **Schedule** view, planning fields in the subproject/task table are also not editable.

Similar to the Microsoft Project control mode, any function that could change the project and task structure is disabled. This includes the following components:

- **Add Task** icon
- **Delete** icon
- **Indent/Outdent** icons
- **Move up/Move down** icons

Some rollup operations are disabled. Rollup of actuals fields still occurs, but schedule fields will not roll up. The imported values from Microsoft Project are retained.

The functionality allowed in the Shared control mode is very similar to the functionality allowed to a user who has been given only the Update Tasks access grant.

Conditional Editing Summary Table

Table 10-1 summarizes the allowed or restricted conditional editing in Project Management for each of the three synchronization modes.

Table 10-1. Conditional editing allowed in Project Management

Fields in Project Management	Project Management controlled	MSP controlled	Shared Control Mode
Work Plan page			
Add/Delete Task icon	Yes	No	No
Indent/Outdent Task icon	Yes	No	No
Move up/Move down Task icon	Yes	No	No
Schedule Project icon	Yes	No	No
Task Details page			
Planning fields	Yes	No	No
Actual fields	Yes	No	Yes
Structure fields	Yes	No	No
Planning fields	Yes	No	No
Actual fields	Yes	No	Yes
Other non-shared fields	Yes	Yes	Yes
Status field	Yes	No	Yes
Rollup			
Schedule fields	Yes	No	No
Actuals fields	Yes	No	Yes
My Tasks portlet			
Actuals fields	Yes	No	Yes

Working with Projects Using a Microsoft Project Server

When working with Microsoft Project Server-based project, HP Project Management functions slightly differently, in the following ways:

- Work plans cannot be directly opened in Microsoft Project from HP Project Management.
- After synchronizing a Microsoft Project Server-based project with a work plan, you will be prompted to check in the project into the Microsoft Project Server.

Troubleshooting

Microsoft Project supports many features that are not duplicated in or synchronized with Project Management. When a Microsoft Project file is imported into Project Management, this information is not represented. Sending a Microsoft Project file to Project Management does not remove this data from Microsoft Project. Opening a Project Management work plan in Microsoft Project does not create or default this data.

Other Microsoft Project features deal with the scheduling and tracking information that is synchronized between the two applications. In these cases, the interface converts the Microsoft Project data into information that Project Management can represent. The interface attempts to maintain the intent of the original work plan as closely as possible.

Deleting Required Tasks or Tasks with Actuals

Every time work plan schedule information is successfully sent from Microsoft Project to Project Management, a backup copy of the `.mpp` file is automatically saved to the same directory in which the original file is stored, with the extension `.bak`. The open `.mpp` file is also saved.

When a work plan is being shared between Microsoft Project and Project Management, deleting one of the following types of tasks in Microsoft Project results in an error that will halt the next integration process:

- A task marked as required by the work plan template, if the work plan was originally created in Project Management from a work plan template.
- A task that has actuals.

If you experience an integration error related to the deletion of a task in Microsoft Project that had actuals, you can use the existing backup copy as a starting point from which to reapply your most recent edits.

Recovering Deleted Tasks Using Microsoft Project Associations

You can also relink the work plan to the Microsoft Project file manually by selecting **PPM > Relink project** in Microsoft Project. After you select the project whose link you want to reestablish, the integration examines the work plan task by task and presents you with a list of work plan tasks whose Microsoft Project counterparts are ambiguous or nonexistent. For each task, you can choose from the following options:

- Select a matching task in the Microsoft Project plan
- Create a new task in the Microsoft Project plan
- Do nothing

Any tasks in the Microsoft Project plan that are not associated with an HP Project Management task are ignored.

Cost Rollup and Health Calculations

When sending information from Microsoft Project to Project Management, rollup of cost and health calculations is deferred in order to keep the synchronization process as efficient as possible.

Resource Calendars

The project regional calendar is exported to Microsoft Project in Project Management controlled mode or any time a Project Management work plan is used to create a new plan in Microsoft Project. Calendar hours-per-day and work days per week are exported, but calendar exceptions are not. Additionally, resource calendars are not synchronized between the two applications. Since both duration and effort are a function of both start/finish dates and resource calendars, the duration values in Project Management and Microsoft Project might not match. Since tasks in Microsoft Project are created as fixed duration in these cases, the total effort will match Project Management data.

Units

Units are also referred to as resource load percentages. In Microsoft Project, each resource can be assigned to a task with a different load percentage (from zero percent to one hundred percent.) For example, the same resource could be assigned to two different tasks and have a resource load percentage of fifty percent for each one.

Since Project Management does not track assignment units, the load percentage of any resource imported into Project Management will not be recognized.

Microsoft Project's Manual Scheduling Mode

If your Microsoft Project file is in manual scheduling mode and you did not select this option, it could be because:

- The previous synchronization with Project Management failed. During synchronization, the scheduling mode is set to manual and then returned to automatic once the synchronization completes. If the synchronization did not complete, the scheduling mode may have been left in manual.
- You opened a project that was in manual mode and then created the new Microsoft Project file. This caused the new project to inherit the manual mode setting as a default.

11 Integration with HP Time Management

In This Chapter:

- *Overview of HP Time Management Integration*
 - *Enabling Time Management for Projects*
 - *Using the My Tasks Portlet*
-

Overview of HP Time Management Integration

This chapter explains how HP Project Management integrates with HP Time Management to offer a more detailed way for resources to report time worked on projects. This chapter is only useful if you have purchased and installed HP Time Management.

In the project settings, you use the **Cost and Effort** policy (primarily its Time Management section) to integrate HP Time Management and HP Project Management for a particular project. There you specify:

- At what level of detail the project's tasks are tracked on time sheets
- Who can log time for the project
- Whether certain project representatives must approve time logged
- Which effort fields are tracked
- Whether time can be logged after a task is complete

In configuring integration, consider the following:

- Any resource who is licensed for HP Time Management must use time sheets or the My Tasks portlet, rather than the project work plan, to enter actuals for integrated projects.
- You can configure which actuals are tracked. For integrated projects, where HP Time Management is used to track project actuals, you must require resources to track Actual Effort.
- You can configure the level of the project (Project, Summary Task level 1 to 6, or Task) against which resources log time. If time is logged at summary task level 2, for example, resources who are assigned to any tasks that are hierarchically under level 2 report time for those tasks only at summary task level 2.
- If Estimated Remaining Effort is to be tracked, time must be logged at the task level.
- After time is logged against an integrated project, you cannot change logging from any summary task level to the task level, nor from project level to the summary task level. However, you can change logging from the task level to the summary task level, or from the summary task level to the project level.
- After time is logged against an integrated project, you cannot disable integration.

- Resources cannot contribute time to the same task from both HP Project Management and HP Time Management. Therefore, if you plan to establish integration for a project having tasks that are partially complete, first ensure that actuals are up to date, then divide each partially completed task into a completed task and a new task.
- Some actuals fields that are updated by Time Management assignments are read-only on the Task Details page. Once effort has been entered by the assigned resource, only the assigned resource can delete it.
- Time logged by assigned resources appear as contributions for tasks and summary tasks.
- Managers of an integrated project do not necessarily need to assign all work plan tasks to Time Management users; actuals for Project Management users and unassigned effort will roll up automatically.

In addition to a Time Management section, the **Cost and Effort** policy also has a Resource Load Settings section and a Financial Management section.

For information about the Resource Load Settings section, see [Resource Load Settings on page 47](#).

In the Financial Management section, you can specify whether to use automatic cost calculation so that, whenever a resource updates and saves a time sheet, HP Time Management automatically passes the effort data to HP Project Management, which calculates and updates the Actual Cost for the project. (Then the Actual Cost cannot be edited directly in HP Project Management.) If you specify manual cost calculation, HP Time Management still passes effort data to HP Project Management, but HP Project Management does not calculate Actual Cost. For more information, see [Financial Management on page 49](#).

The **Project Fields** policy determines whether Estimated Finish Date and certain other fields are tracked.

Enabling Time Management for Projects

The **Cost and Effort** policy determines whether Time Management is active for a given project type. Projects created using a project type with Time Management enabled will be able to use Time Management to collect actuals. For details on configuring the **Cost and Effort** policy to enable the use of Time Management, see [Cost and Effort on page 45](#).

Using the My Tasks Portlet

The My Tasks portlet displays information for multiple tasks. The maximum number of tasks displayed can be specified by the user, as well as the portlet title. Most fields in the My Tasks portlet are updateable by resources.

With Time Management enabled, the My Tasks portlet allows you to enter time using time sheets for projects using Time Management. Summary tasks also appear on the My Tasks portlet for integrated projects.

If you are working on a project that uses Time Management, the My Tasks portlet displays the **Actual Effort** field for each task as a calculated rollup of the effort breakdown, which corresponds to the time sheet indicated in the **Use Time Sheet** field, filtered for only the relevant tasks. Clicking the **Actual Effort** value opens the effort breakdown for direct editing. The effort breakdown displays only the tasks shown in the My Tasks portlet.



Values entered in the effort breakdown are for the time sheet specified in the **Use Time Sheet** field. If you wish to enter values for a different time sheet, select the desired time sheet before editing the effort breakdown for a task or summary task.

To enter actuals information for a project on a time sheet from the My Tasks portlet:

1. Navigate to the My Tasks portlet.
2. Ensure that the correct time sheet appears in the **Use Time Sheet** field.

If the time period being entered has no time sheet, you are offered the option to use a new time sheet, which will be created when **Save** is clicked.

Time sheets in the “In Rework” and “Pending Approval” status cannot be edited from the My Tasks portlet. Time sheets in the “Frozen” and “Closed” states do not appear in the list of available time sheets.

3. Click the **Actual Effort** value for the task you wish to enter actuals information for.

The Effort Breakdown dialog box opens.

4. Provide the information for the desired time sheet lines.

You can provide time on separate lines for tasks with different activities.

5. Click **Done**.

6. Click **Save**.

You can open the time sheet being affected anytime from the My Tasks portlet by clicking **Go To Time Sheet**.

Data for tasks that appear in the My Tasks portlet that have actuals will be automatically saved to the time sheet when **Go To Time Sheet** is clicked.



Any unsaved changes that have been made to the effort breakdown are discarded when **Go To Time Sheet** is clicked.

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