Oracle Primavera® P6™
Methodology Management
Reference Manual

Version 7.0
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# Table of Contents

Table of Contents .................................................................3  
Preface....................................................................................7  
Oracle Primavera Products....................................................8  
Using Documentation and Help..............................................11  
Where to Get Support ............................................................12  

Part 1: Overview and Configuration

Quick Tour.............................................................................17  
Overview of Methodologies..................................................18  
Getting Started ......................................................................19  
Selecting a Language ............................................................20  
The Workspace .......................................................................21  
Layouts....................................................................................23  
Customizing Displays ...........................................................24  
Using Wizards .......................................................................25  
Setting User Preferences......................................................31  
Formatting Time Units ............................................................32  
Formatting Dates ....................................................................33  
Setting Resource Calculations .............................................34  
Displaying Currency and Symbols .......................................36  
Implementing Wizards ...........................................................37  
Setting Startup Options .......................................................38  
Changing Your Password .....................................................39  

Part 2: Structuring Methodologies

Creating and Linking Methodologies.................................43  
Working with Methodologies ...............................................44  
Defining Methodology Properties.........................................48  
Linking Methodologies .........................................................51  
Defining Estimation Factors ...............................................52  
Using Bottom-Up Estimation Data ......................................55  
Using Project Architect .......................................................56  
Defining Methodology Codes ..............................................57
Establishing a Work Breakdown Structure.................................59
  WBS Overview ................................................................................ 60
  Viewing and Editing a WBS ............................................................. 61
  Applying Estimation Weights to WBS Elements ............................ 63
  Adding WBS Elements and Assigning Properties ......................... 64
  Using WBS Milestones .................................................................. 65

Setting Up the Organizational Breakdown Structure ....................67
  OBS Overview ................................................................................ 68
  Viewing an OBS ............................................................................. 69
  Setting Up and Assigning an OBS ................................................. 71
  Editing OBS Elements ................................................................... 74

Defining Resources and Roles......................................................75
  Resources and Roles Overview ..................................................... 76
  Viewing and Adding Resources .................................................... 77
  Defining and Assigning Resource Codes and Values .................... 83
  Setting Up Roles ........................................................................... 85
  Assigning Roles to Resources ...................................................... 87

Working With User-Defined Fields .............................................89
  Creating User-Defined Fields ....................................................... 90
  Working with User-Defined Fields .............................................. 92

Part 3: Implementing Methodologies

Working with Activities.................................................................95
  Activities Overview ........................................................................ 96
  Adding Activities ........................................................................... 97
  Defining General Activity Information .......................................... 99
  Establishing Relationships ............................................................ 102
  Displaying Activity Details for Assignments ................................. 105
  Assigning Resources and Roles ................................................... 106
  Assigning Notebook Topics .......................................................... 109
  Adding Steps ................................................................................ 110
  Creating and Assigning Activity Step Templates .......................... 112
  Creating and Assigning Activity Codes and Attributes ................ 115
  Viewing Core Reuse ..................................................................... 118
  Adding Expenses ........................................................................... 119
  Assigning Work Products and Documents ................................... 119

Working with Methodology Expenses.........................................121
  Adding Expenses ........................................................................... 122
  Defining Expense Details .............................................................. 123

Managing Risk ................................................................................125
  Adding Risks ................................................................................ 126
  Calculating Exposure Values ....................................................... 127
<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Customizing Risk Layouts</td>
<td>127</td>
</tr>
<tr>
<td><strong>Creating and Maintaining a Document Library</strong></td>
<td>129</td>
</tr>
<tr>
<td>View a Document Library and Adding/Deleting Documents</td>
<td>130</td>
</tr>
<tr>
<td>Specifying Work Product and Document Location References</td>
<td>133</td>
</tr>
<tr>
<td>Assigning Work Products and Documents</td>
<td>134</td>
</tr>
<tr>
<td><strong>Checking Methodologies In and Out of the Module</strong></td>
<td>135</td>
</tr>
<tr>
<td>Managing Remote Methodologies</td>
<td>136</td>
</tr>
<tr>
<td>Checking Out Methodologies</td>
<td>136</td>
</tr>
<tr>
<td>Checking In Methodologies</td>
<td>137</td>
</tr>
<tr>
<td><strong>Transferring Methodology Data</strong></td>
<td>139</td>
</tr>
<tr>
<td>Exporting Methodologies</td>
<td>140</td>
</tr>
<tr>
<td>Exporting Roles or Resources</td>
<td>141</td>
</tr>
<tr>
<td>Importing Methodologies</td>
<td>142</td>
</tr>
<tr>
<td>Importing Projects as Methodologies</td>
<td>145</td>
</tr>
<tr>
<td>Importing Roles or Resources</td>
<td>149</td>
</tr>
<tr>
<td><strong>Part 4: Customizing Methodologies</strong></td>
<td></td>
</tr>
<tr>
<td>Working with Layouts</td>
<td>153</td>
</tr>
<tr>
<td>Layout Examples</td>
<td>154</td>
</tr>
<tr>
<td>Creating, Opening, and Saving Layouts</td>
<td>157</td>
</tr>
<tr>
<td>Exporting and Importing Layouts</td>
<td>159</td>
</tr>
<tr>
<td>Grouping, Sorting, and Filtering</td>
<td>161</td>
</tr>
<tr>
<td>Grouping Data</td>
<td>162</td>
</tr>
<tr>
<td>Sorting Data</td>
<td>165</td>
</tr>
<tr>
<td>Filtering Data</td>
<td>166</td>
</tr>
<tr>
<td>Customizing Layouts</td>
<td>169</td>
</tr>
<tr>
<td>Modifying Columns</td>
<td>170</td>
</tr>
<tr>
<td>Formatting Activity Network Layouts</td>
<td>172</td>
</tr>
<tr>
<td>Customizing Reports</td>
<td>175</td>
</tr>
<tr>
<td>Reports Overview</td>
<td>176</td>
</tr>
<tr>
<td>Opening Reports</td>
<td>176</td>
</tr>
<tr>
<td>Creating and Modifying Reports</td>
<td>177</td>
</tr>
<tr>
<td>Using Report Groups</td>
<td>179</td>
</tr>
<tr>
<td>Printing Layouts and Reports</td>
<td>181</td>
</tr>
<tr>
<td>Defining Page Settings</td>
<td>182</td>
</tr>
<tr>
<td>Previewing Layouts and Reports</td>
<td>185</td>
</tr>
<tr>
<td>Printing Layouts and Reports</td>
<td>186</td>
</tr>
<tr>
<td>Publishing Layouts and Reports in HTML Format</td>
<td>187</td>
</tr>
</tbody>
</table>

Index
Preface

In this preface:

Oracle Primavera Products
Using Documentation and Help
Where to Get Support

The P6 Methodology Management (MM) module enables organizations to improve project management processes by learning from their experiences and applying the resulting insight to new projects. Use the module to establish methodologies as the basis for project plans and help your organization continually refine the project planning and management process throughout the entire project life cycle.

The Methodology Management module seamlessly integrates with the Project Management (PM) module to author, manage, and deliver uniform project practices to the entire organization.
Oracle Primavera Products

Primavera provides an integrated project management solution consisting of role-specific tools to satisfy each team member’s needs, responsibilities, and skills. This solution uses standard Windows interfaces, client/server architecture, Web-enabled technology, and stand-alone (SQL Server Express) or network-based (Oracle and Microsoft SQL Server) databases. The product suite consists of the following components:

Project Management  The Project Management (PM) module enables users to track and analyze performance. It is a multiuser, multiproject system with scheduling and resource control capabilities supporting multitiered project hierarchies, resource scheduling with a focus on roles and skills, recording of actual data, customizable views, and user-definable data.

The PM module is ideal for organizations that need to simultaneously manage multiple projects and support multiuser access across a department or the entire organization. It supports an enterprise project structure (EPS) with an unlimited number of projects, activities, baselines, resources, work breakdown structures (WBS), organizational breakdown structures (OBS), user-defined codes, and critical-path-method (CPM) scheduling and resource leveling. Large-scale implementations of the Project Management module for organization-wide project management use it with Oracle or SQL Server as the project database. For smaller implementations, you can use SQL Server Express.

The module also provides centralized resource management, including resource timesheet approval and the ability to communicate with project resources who use Primavera Progress Reporter. In addition, the PM module provides integrated risk management, issue tracking, and management by threshold. The tracking feature enables users to perform dynamic cross-project rollups of cost, schedule, and earned value. Project work products and documents can be assigned to activities and managed centrally. The Report Wizard creates customized reports that extract specific data from its database.
Methodology Management  The Methodology Management module is a system for authoring and storing methodologies, or project plan templates, in a central location. Project managers can select, combine, and tailor methodologies to create custom project plans. These customized methodologies can be imported into the Project Management module using Project Architect and used as templates for new projects. In this way, your organization can continually improve and refine methodology activities, estimates, and other information with each new project.

Progress Reporter  Primavera Progress Reporter is a Web-based interproject communication and timekeeping system. As a team-level tool for project participants, it helps team members focus on the work at hand with a simple cross-project to-do list of their upcoming assignments. It also provides views of project changes and timecards for manager approval. Because team members use this module to enter up-to-the-minute information about their assignments and record time against their workloads, project leaders can make crucial project decisions with the confidence that they have the most current information possible.

P6 Web Access  P6 Web Access provides browser-based access to project, portfolio, and resource data across the organization. Every Web user can create customized dashboards that provide an individualized and focused view of the specific projects and categories of project data that are most relevant to their roles in managing projects and resources. Project Workspaces and Workgroups extend the model of customizable, focused data views by enabling designated project team members to create a uniform team view of data that relates to one specific project or to a subset of activities within a project. P6 Web Access provides access to a wide range of data views and features that enable Web users to manage their projects from initial concept review and approval through to completion.

Primavera Web Services  Web Services: Provides access to Primavera Web Services, which use open standards, including XML, SOAP, and WSDL, to seamlessly integrate Primavera’s project management functionality into other applications. Using Primavera Web Services, organizations can share Primavera project management data between applications independent of operating system or programming language. For detailed information, see the Primavera P6 Web Services Administrator’s Guide.
Primavera Integration API  The Primavera Integration API (Application Programming Interface) is a Java-based API and server that enables developers to create client code that can directly and seamlessly access Primavera’s project management database. For detailed information, see the Primavera P6 Integration API Administrator’s Guide.

Software Development Kit  The Primavera Software Development Kit (SDK) enables users to integrate the data in the Project Management module database with external databases and applications. It provides access to the schema and to stored procedures that encapsulate business logic. The SDK supports the Open Database Connectivity (ODBC) standard and ODBC-compliant interfaces, such as OLE-DB and JDBC, for connecting to the project management database. The SDK must be installed on any computer that needs to integrate with the database. For detailed information, see the Primavera SDK Help.

ProjectLink  Primavera ProjectLink is a plug-in that enables Microsoft Project (MSP) users to work in the MSP environment while being connected to Primavera's enterprise features. The functionality enables MSP users to open and save projects from or to the Project Management module database from within the MSP application. Moreover, MSP users have the ability to invoke Primavera's resource management within the MSP environment. ProjectLink benefits organizations that have a substantial amount of project data stored in MSP but require some users to have the additional functionality and optimized data organization available within Primavera applications.
Using Documentation and Help

This book guides you through the process of establishing methodologies, or project templates, using the Methodology Management module. Read the first chapter to become familiar with methodologies and how they are used in the process of project management with the Project Management module, then follow the steps in each successive chapter to build and manage your methodologies. This manual is organized as follows:

**Part 1: Overview and Configuration** Provides an overview of project methodologies using the Methodology Management module, simple steps for getting started quickly, and information about the standard layouts you can use to view project data. This part also provides a quick tour of the module, including information on using wizards to perform many of the MM processes, and instructions for configuring user workstation preferences.

**Part 2: Structuring Methodologies** Includes the basics for creating new methodologies, opening existing methodologies, and defining methodology properties. This chapter also introduces Project Architect, which enables you to import cost and time estimation values (methodologies) from the Methodology Management module to the Project Management module. In addition, Part 2 describes how to:

- Establish and use a work breakdown structure (WBS) as the basis for itemizing the work within the methodologies
- Use an organizational breakdown structure (OBS) in conjunction with methodologies to ensure that each project is effectively managed
- Establish the personnel and equipment required to perform the work, define unlimited hierarchical resource codes for grouping and rollups, and create a standard set of roles based on skill requirements that you can assign to resources and activities in all methodologies

**Part 3: Implementing Methodologies** Describes how to define a set of codes you can use to categorize methodology activities for organizing, grouping, selecting, and summarizing. Part 3 also explains how to:

- Establish the activities that compose methodologies and apply durations, dates, resource information, activity types, activity relationships, and other activity details
Set up the expenses, or nonresource costs, associated with a methodology, and create global expense categories to track activity costs.

Calculate the effect that a project risk — a concern or uncertainty about a project or one of its components — will have on a methodology’s schedule, costs, and durations.

Catalog and track all methodology-related documents and deliverables.

Check projects in and out of the module to maintain the most up-to-date methodology data possible.

**Part 4: Customizing Methodologies** Describes how to customize layouts for analysis and easier data entry, and to display specific information about methodologies in the module. Part 4 also explains how to produce reports that detail or summarize information stored in the Methodology Management module database.

**Methodology Management Help** Provides an extensive online help system to supplement the printed documentation. Use the Help to access general information about Methodology Management options, detailed descriptions of windows and dialog boxes, and step-by-step instructions for specific tasks. The Help also includes Hint Help for column values in various windows. Access Hint Help by clicking the Layout or Display Options bar, choosing Hint Help, and then clicking a value in a column.

**Where to Get Support**

If you have a question about using Oracle Primavera products that you or your network administrator cannot resolve with information in the documentation or Help, go to:

http://www.oracle.com/primavera/support.html

This page provides the latest information for contacting Oracle Global Customer Support and the support renewals process.
Overview and Configuration

In this part

Quick Tour

Setting User Preferences
Read this part to learn more about methodologies and how they are used to build project plan templates that incorporate “best practices” in an enterprise. This part also describes how to define global and methodology parameters and user-specified preferences to customize your use of the module.

“Quick Tour” provides an overview of methodology types and describes how to perform basic tasks, such as opening a new methodology and using wizards.

The “Setting User Preferences” chapter explains how to customize the module to fit your special needs.
The Methodology Management module is a system for authoring and storing methodologies, or project plan templates. By using the module, your organization can gather its “best practices” and store them in a central location. These best practices, or methodologies, can then be used to create custom project plans, rather than creating project plans from scratch for each new project.

This chapter provides an overview of methodologies and then introduces you to the workspace. It discusses the layout approach to viewing data and includes information about customizing displays to help you start creating your own layouts. You will also learn the basic steps for starting the module, opening a methodology, and using wizards to speed up your work.
Overview of Methodologies

A methodology is a set of activities and associated information that serves as a template for a project plan or part of a project plan. Methodologies can have one or more activities; the module does not limit the number of activities you can include in a methodology. In addition to activities, a methodology can also include a work breakdown structure (WBS), organizational breakdown structure (OBS), activity relationships, activity role and resource assignments, expenses, work products and documents, activity codes, and estimation data.

To help you organize your methodologies, the module supports three types of methodologies: base methodologies, plug-in methodologies, and activity libraries.

**Base methodologies** provide the basic infrastructure of activities performed during a project. Base methodologies can include a WBS, OBS, and work product and document assignments. A project plan uses one base methodology.

**Plug-in methodologies** solve specific development needs and can be “plugged in” or linked to base methodologies as needed. Plug-in methodologies are specialized topics that may or may not be required by a project. Examples of plug-in methodologies are quality assurance, independent auditing, and extra security. A project plan can combine zero, one, or more plug-in methodologies with a base methodology.

**Activity libraries** provide a convenient way to store and edit commonly used activities and their related information. An activity library is a set of reusable tasks or activities that can be defined once and reused in any number of methodologies as needed. Project plan development does not directly use activity libraries.

Once you build a library of methodologies and estimation factors, you can import them to the Project Management module as a basis for new projects. The import process enables you to specify the data and factors to be added to the Project Management module via Project Architect, which interprets the cost and time estimation values from the Methodology Management module to establish more realistic projects.
Getting Started

The installation process guides you through setting up the module on your computer. Refer to the Administrator’s Guide for detailed instructions.

**Start the Methodology Management module** Click Start, then choose Programs, Primavera, Methodology Management.

**Log in** Before using the module, you must enter a valid login name and password. If you do not know your login name or password, see your system administrator.

Login names and passwords are case-sensitive. Depending on the password settings your system administrator has set for you, your password either is required to be a minimum of 8 characters in length, including one alpha and one numeric character, or it can be up to 20 characters in length.

1. Type your login name.
2. Type your password.
3. Accept the database shown, or select another database.
4. Click to open the Welcome dialog box.

Use the Welcome dialog box to:

- create a methodology
- open an existing methodology or the last open methodology
- open global data only
Mark the Do Not Show This Window Again checkbox if you do not want the Welcome dialog box to appear each time you open the module. The module automatically opens the last methodology you used at startup. To turn this option back on, choose Edit, User Preferences, then click the Application tab and mark the Show the Welcome Dialog at Startup checkbox.

Selecting a Language

Use the Set Language dialog box to select the language in which to display the information in menus, dialog boxes, and messages.

This option does not affect the data you enter; this information appears exactly as typed.

Select a language  Choose Tools, Set Language.

Restart the Methodology Management module for the language change to work properly.
The Workspace

When you first open a methodology, the Home workspace displays the main functions available in the module. For example, click Activities to focus on activity data and customize layouts. The workspace for each main window consists of a menu bar, navigation bar, directory, toolbar, and command bar.

Use shortcut menus Instead of using standard menus and buttons, you can also use the right mouse button to access frequently used commands. To use shortcut menus, right-click an element or the white space in any window, then choose the appropriate command.

Select multiple items To select a group of items that are next to each other in the display, hold down the Shift key, click the first item in the group, then click the last item in the group. To select multiple items that are not next to each other in the display, hold down the Ctrl key, then click each item you want to select.
Display the directory bar  Use the directory to display windows quickly. Choose View, Toolbars, Directory, to display or hide the directory bar. To display or hide directory bar button text, choose View, Toolbars, Directory Button Text.

- **WPs & Docs**: Displays the Work Products and Documents window. Use to create, edit, assign, or delete work products and documents for the open methodology.
- **Resources**: Displays the Resources window. Use to maintain the resource hierarchy and individual resources in your organization, and assign resources to activities in any methodology.
- **Roles...**: Displays the Roles dialog box. Use to create, edit, or delete roles for assignment to activities in any methodology.
- **Activities**: Displays the Activities window. Use to create, edit, or delete activities in the open methodology.
- **Expenses**: Displays the Methodology Expenses window. Use to add, edit, or delete expense items for the open methodology.
- **Risks**: Displays the Risks window. Use to add, delete, or calculate risks for the open methodology.
- **Meth. Links**: Displays the Methodology Links window. Use to create, view, and remove links between a base methodology’s work breakdown structure (WBS) and a plug-in methodology’s activities or WBS.

Display the navigation bar  Use the navigation bar to move between open windows. You can also use the navigation bar to display and hide the directory, and to open help for the current window or dialog box. The navigation bar is displayed or hidden when you choose View, Toolbars, Navigation Bar. To display or hide navigation bar button text, choose View, Toolbars, Navigation Bar Button Text.

- **Back**: Displays the last window you opened.
- **Forward**: Displays the next window in a series of windows you opened. The Forward button is available only after you use the Back button to redisplay a previous window.
- **Home**: Displays the Home workspace.
- **Dir.**: Displays or hides the directory.
- **Help**: Opens Methodology Management Help.
Layouts

A layout is a customizable view of a methodology’s activities and activity information. To customize a layout to meet specific needs, you can choose from a wide range of methodology information, columns, colors, fonts, and activity groupings, and you can display these data in the top and/or bottom layouts. For example, show an Activity Table in the top layout and Trace Logic in the bottom layout. Each time you change the way data are presented in the top and bottom layouts, you create a unique layout. The module automatically prompts you to save a layout when you close it, allowing you to define a unique name for it so you can use the layout again with the current methodology or a different methodology.

Activity Table displays activity information in spreadsheet format. Use this type of layout to quickly update a methodology. You can use filters and group data to see only those activities with a specific activity type. You can customize Activity Table columns. You can also sort, filter, and group activities in the Activity Table, as well as change the font of the activity information and the color of the table background. The Activity Table can be displayed in the top and bottom layouts.

Activity Network provides a graphical display of activities, including logical relationships. You can specify which information you want to display, and you can change Activity Network colors and fonts. You can also group and filter activities in the Activity Network. The Activity Network can be displayed in the top layout only.

Trace Logic provides a graphical display of dependency relationships for an activity you select in either the Activity Table or the Activity Network. Trace Logic can be displayed in the bottom layout only.

Activity Details display detailed information for an activity you select in either the Activity Table or the Activity Network. You can also use Activity Details to enter and edit an activity’s information, such as codes, resource assignments, and predecessor and successor relationships. Activity Details can be displayed in the bottom layout only.

You can display any of these layout types in the Activities window. Additional layouts are available in other windows, such as Work Breakdown Structure and Resources.
In this sample layout, the top part shows activity data in an Activity Table, and the lower part displays Activity Details.

Customizing Displays

For main windows, you can also choose View, Display Options, to access a menu of available commands.

Most windows and dialog boxes include a Display or Layout Options bar at the top of the screen that contains commands that enable you to customize the current display. Click this bar to display a menu of the commands available for that window or dialog box. You can also access many of these commands from the View menu.
For details about customizing and printing layouts, see "Customizing Layouts" on page 169.

The module also enables you to switch your display from a hierarchical view to a list view when displaying information that is arranged in different levels, such as resources and the work breakdown structure. To switch a display from hierarchy to list view, click the leftmost column label that appears in the display. After you change a display to list view, you can also sort the information by clicking any column label.

Using Wizards

Wizards are a great way to speed up your work. They quickly guide you through repetitive steps, doing most of the work for you. The MM module contains wizards for creating new methodologies, adding activities, creating resources, and building reports.

If you prefer to work without wizards, mark this checkbox on the first dialog box of each wizard, or choose Edit, User Preferences, Assistance, and set your choices in the Wizards section.
You can specify whether you want wizards to help you add activities and resources. Other wizards are also available to export and import methodology data, and define administrative preferences. Wizards are discussed in more detail in the appropriate chapters of this manual or in the online help.

**Set wizard options** Choose Edit, User Preferences. Click the Assistance tab.

**Navigate wizards** To move between different wizard windows, click Prev or Next. To save your changes and close the wizard at any time, click Finish. To close the wizard without saving changes, click Cancel.
Setting User Preferences

In this chapter:

- Formatting Time Units
- Formatting Dates
- Setting Resource Calculations
- Displaying Currency and Symbols
- Implementing Wizards
- Setting Startup Options
- Changing Your Password

In the Methodology Management module, you can tailor certain options to fit your specific needs. For example, indicate the format for displaying time units and dates, specify the currency to use for viewing costs, and set startup display preferences.

This chapter describes how to set these options in the User Preferences dialog box.
Formatting Time Units

Time unit settings affect how the module displays time unit values in layouts, activity durations, resource prices, availability, and work efforts. Choose Edit, User Preferences, then click the Time Units tab.

Set time unit options In the Units Format section, select the time unit used to display work efforts, and resource prices and availability. In the Durations Format section, select the time unit used to display activity duration values.

Mark the Sub-Unit checkbox to include the next smallest time interval for the Unit of Time selected; the field name changes accordingly. For example, if you select Day in the Units field, the Sub-Units field displays Hours. You can also select the number of decimal places you want to include in time unit displays throughout the module.

In the Units/Time Format section, choose to show resource units per time as percentages or as units per duration. Your choice determines how rates are displayed. For example, 4h/d is the same as 50 percent of an eight-hour day.
Formatting Dates

Choose Edit, User Preferences, then click the Dates tab to specify how the module displays dates.

**Specify date format**  Choose the date order format you want to use in the Order area, then mark the applicable checkboxes in the Options area to indicate how the selected date format should appear. In the Separator field, select the character the module uses to separate days, months, and years.
Setting Resource Calculations

Choose Edit, User Preferences, then click the Calculations tab to specify how cost and units are allocated when you add or delete multiple resource assignments. You can also choose the default behavior when replacing a resource/role on an existing activity assignment with a different resource/role.

<table>
<thead>
<tr>
<th>Resource Assignments</th>
</tr>
</thead>
<tbody>
<tr>
<td>When adding or removing multiple resource assignments on activities:</td>
</tr>
<tr>
<td>- Preserve the Units, Duration, and Units/Time for existing assignments</td>
</tr>
<tr>
<td>- Recalculate the Units, Duration, and Units/Time for existing assignments based on the activity's duration type</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Assignment Staffing</th>
</tr>
</thead>
<tbody>
<tr>
<td>When assigning a resource to an existing activity assignment:</td>
</tr>
<tr>
<td>- Always use the new resource's Units per Time</td>
</tr>
<tr>
<td>- Always use current assignment's Units per Time</td>
</tr>
<tr>
<td>- Ask me to select each time I assign</td>
</tr>
</tbody>
</table>

**Choose resource assignment defaults** You can specify how to calculate remaining values when new resource assignments are added to or removed from activities. Remaining duration, remaining units, and remaining units/time will not change for existing assignments, regardless of the duration type.

*When the first assignment is added, units/costs are calculated based on the activity's duration type.*
Setting User Preferences

- **Preserve the units, duration, and units/time for existing assignments**

  When adding or removing multiple resource assignments on activities, choose this option for units, durations, and units/time to remain constant when additional resources are assigned to any activity. Regardless of the duration type of an activity, this equation is always true:

  \[ \text{Remaining Units} = \text{Remaining Duration} \times \text{Remaining Units/Time} \]

- **Recalculate the units, duration, and units/time for existing assignments based on the activity duration type**

  When adding or removing multiple resource assignments on activities, choose this option to calculate a resource assignment’s remaining values based on the activity’s duration type, specified in the Activity Details General tab.

**Choose assignment staffing defaults**  In the Assignment Staffing section, you can choose the module’s default behavior when you replace a resource on an existing activity assignment with a different resource.

When assigning a resource to an existing activity assignment, you can choose to always use the units/time of the new resource or of the current assignment (i.e., the resource you are replacing) on the existing assignment; or, you can choose to be prompted to select which units/time you want to use each time you replace a resource on an existing activity assignment.
Displaying Currency and Symbols

Choose Edit, User Preferences, then click the Currency tab to specify the currency used to view cost data, and whether to show or hide the currency symbol and/or decimal values in cost and price fields.

You must enter all cost data in the currency selected in User Preferences.

The currencies available for viewing monetary units are defined by your Methodology Management module administrator in the Currencies dialog box.
Implementing Wizards

Choose Edit, User Preferences, then click the Assistance tab to enable the use of wizards when adding resources and activities.

<table>
<thead>
<tr>
<th>Wizards</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Would you like to use wizards when adding new activities and resources?</td>
<td>Yes</td>
</tr>
<tr>
<td>Use New Activity Wizard</td>
<td>Yes</td>
</tr>
<tr>
<td>Use New Resource Wizard</td>
<td>Yes</td>
</tr>
</tbody>
</table>

If you clear one or both checkboxes and add a new resource or activity, you will need to use the current layout to add the information.

Set assistance options  Wizards guide you through the steps necessary to complete a function. Once you feel comfortable adding resources and activities, you may not need to use them. Mark the checkboxes in the Wizards section to instruct the module to automatically display the New Resource Wizard when you add a new resource, and the New Activity Wizard when you add a new activity.
Setting Startup Options

Choose Edit, User Preferences, then click the Application tab to establish the default window or dialog box displayed when you start the module and to record the actions you perform in the module to a log file. You can also set options for grouping and sorting.

**Set startup and log file options** Select the window to display each time you start the module. Select Home if your work varies each day; the Home workspace enables you to select the applicable window or layout for each session.

You can also indicate whether to display the Welcome dialog box, from which you can create a new project, open an existing project, open the last project viewed in your previous session, or display global data only.

*It is recommended that you use the log file only with the assistance of Oracle Customer Support staff.*

**Display a label on grouping bands** You can show or hide the ID/Code or Name/Description fields as labels in the group-by bands when grouping by hierarchies that include both an ID/code and a name description. This user preference setting affects windows/dialog boxes where you cannot access a Group and Sort dialog box.
Changing Your Password

Choose Edit, User Preferences, then click the Password tab to open the Change Password dialog box, in which you can enter a new password.

Minimum password requirements are determined by the status of the password policy, which is enabled or disabled by an administrator on the General tab of Admin Preferences. The password requirements for your installation are displayed in the Change Password dialog box.

Additional Considerations:

- If the MM module is running in LDAP authentication mode, password management is handled through the directory server. You cannot change your password through the MM GUI (the Password tab will not appear in the User Preferences dialog box).
- Passwords are case-sensitive.
- Passwords that were set before the new password policy was enabled are valid and usable.
Part 2

Structuring Methodologies

In this part
- Creating and Linking Methodologies
- Establishing a Work Breakdown Structure
- Setting Up the Organizational Breakdown Structure
- Defining Resources and Roles
- Working With User-Defined Fields
This part describes how to start creating methodologies. “Creating and Linking Methodologies” explains how to add methodologies and link them to other methodologies; for example, link a base methodology to a plug-in methodology.

“Establishing a Work Breakdown Structure” describes how to use the work breakdown structure (WBS) to plan and manage methodology information, while “Setting Up the Organizational Breakdown Structure” shows you how to establish the managers directly responsible for maintaining methodologies.

“Defining Resources and Roles” explains how to set up resources and roles. The last chapter in this part, “Working With User-Defined Fields”, describes how to configure user-defined fields.
Methodologies consist of activities but can also include work breakdown structure (WBS) and organizational breakdown structure (OBS) definitions, activity relationships, role and resource assignments, expenses, work products and documents, codes, and estimation data. You can create and assign attributes to methodologies, and define size and complexity factors for users of the Project Management module. Once you establish two or more methodologies, you can create relationships between base and plug-in methodologies.

This chapter describes how to create methodologies and their attributes, link methodologies, add size and complexity factors, define values for calculating bottom-up estimation data, and use Project Architect to import methodologies to the Project Management module as prebuilt project plans from the Methodology Management module.
Working with Methodologies

The Create a New Methodology Wizard helps you quickly create a new methodology by defining general information and default settings such as the methodology type, default activity cost, and auto-number values.

**Create a methodology** Choose File, New.

Enter the price that will be used for activities that have units but no assigned resources. Next specify the activity ID prefix, suffix, and increment that is automatically assigned to new activities as they are added to the methodology. Click Finish to create the new methodology.

To save your changes and close the Create a New Methodology Wizard at any time, click Finish. The module creates the methodology according to the information you provided.

To define additional methodology information, display Methodology Properties (choose Methodology, Methodology Properties), then refer to “Defining Methodology Properties” on page 48.

Use projects to create methodologies You can use a successful project from the Project Management module as a template for future projects that are similar in scope. The Import Wizard prompts you to specify the information to be imported and to identify the type of methodology in which it should reside.
Use Status to Categorize Methodologies

You can identify methodologies as available or unavailable to the Project Management module. Change the default status of Available to Unavailable when the methodology is not complete, is undergoing changes, or is simply not applicable for use in establishing current projects. Choose Methodology, Methodology Properties, click the General tab, then select Unavailable in the Methodology Status field. Methodologies with a status of Unavailable cannot be imported in the PM module and are not listed in Project Architect.

Open methodologies Choose File, Open. Select the methodology you want to open.

Choose how you want to open the methodology. Depending on your security profile, some of these options may not be available. Only one user at a time can have Exclusive access to a methodology.

After you open a methodology, open a window containing organization-wide global data for all methodologies...

...or, open a window containing data that pertain only to that methodology.

You can select the window to display each time you start the module. Choose Edit, User Preferences, and click the Application tab; select from the available windows listed in the Application Startup Window field.
Part 2: Structuring Methodologies

Check methodology integrity  To identify and/or correct errors and inconsistent information in the open methodology, choose Tools, Check Methodology Integrity.

Copy methodologies  You can copy an existing methodology to use as a template for a new one. Open the methodology you want to copy. Choose File, Copy.

Reuse activities  To copy activities and activity information from the methodology, and maintain a connection or link between the copied activities and the original activities, choose Reuse All Activities from Current Methodology. If you change a reused activity, the module updates all instances of the reused activity in all methodologies.

Copy activities  To copy activities and activity information without maintaining a connection or link between the copied activities and the original activities, choose Copy All Activities from Current Methodology. When you copy an activity, any changes you make to one instance of the activity do not affect other instances of the same activity.
Reusing Activity Cores

The module enables you to copy and link, or reuse, core information from activities within a single methodology and across multiple methodologies. Core information includes the activity’s name, duration type, percent complete type, attributes, activity type, steps, and notebook topics. The module does not include, or reuse, more specific information, such as assigned resources, work breakdown structure assignments, relationships, work products and documents, estimates, and activity codes.

If an activity’s core information changes, you can simply edit the activity’s master core copy, and the module applies your changes to all instances in which you reused the information.

The module also contains a standard copy feature that allows you to copy an activity without maintaining a link or connection between the original activity and the activity copy. If you copy an activity, any changes you make to one instance of the activity do not affect other instances of the same activity.

You can only delete a methodology that is opened in Exclusive mode.

Delete a methodology  Open the methodology, then choose File, Delete. Confirm that you want to delete the methodology by clicking Yes.
Defining Methodology Properties

Use the Methodology Properties dialog box to define methodology details and defaults used throughout a methodology and to view and edit the open methodology’s properties. Choose Methodology, Methodology Properties. Click each tab to view and edit that type of information for the open methodology.

**General information** Use the General tab to view and edit general information about the selected methodology. This information includes the methodology’s name, type, and estimation factor category value.

**Methodology codes** Use the Codes tab to assign methodology code values to the open methodology. In the Assign Methodology Codes dialog box, click the value for the applicable code, then click the Assign button. You must first add methodology codes and values (choose Define, Methodology Codes).

For more information about adding methodology codes and values, see “Defining Methodology Codes” on page 57.
**Notebook topics**  Use the Notebook tab to assign notebook topics and details to the open methodology. These topics are defined in the Notebook Topics tab of the Admin Categories dialog box.

*Click in this area to type a description of the selected topic.*

*Click to add a topic; then select a topic in the Assign Notebook Topic dialog box and click the Assign button.*

In description fields, you can use HTML editing features, which include formatting text, inserting pictures, copying and pasting information from other document files (while retaining formatting), and adding hyperlinks.

**Activity IDs**  Use the IDs tab to specify a prefix and a suffix for the open methodology’s activity IDs. You can also specify the increment by which you want the module to create activity IDs for new activities.

**Auto-Numbering Activity IDs**

When you create a new activity, the activity ID is automatically generated using auto-numbering. The prefix and suffix are linked with the increment in a chain that produces a unique ID. For example, “A” (prefix), “1000” (suffix), “10” (increment) yields activity IDs of “A1010,” “A1020,” “A1030,” and so on. If you change the activity ID prefix, suffix, or increment, the module applies the change only to new activities, not existing activities.
Costs Use the Costs tab to view the open methodology’s total labor, nonlabor, material, and expense cost estimations, and specify a default price for activities without resources. You can establish low and high estimates for labor, nonlabor, and material costs in the Resources tab of Activity Details, and for expenses in the General tab of Methodology Expense Details. These low and high cost estimates enable users of the Project Management module to perform bottom-up estimations in Project Architect.

Links Use the Links tab to view a list of methodologies linked to the open methodology. To establish links between base and plug-in methodologies, choose Methodology, Methodology Links.
Linking Methodologies

To view a list of all methodologies linked to the open methodology, choose Methodology, Methodology Properties, then click the Links tab.

The module enables you to create relationships, or links, between base and plug-in methodologies. Base methodologies contain the critical infrastructure of activities performed during a development process, while plug-ins solve specific development needs. You can link WBS elements and activities in plug-in methodologies to WBS elements in base methodologies.

When you use Project Architect to create a project plan from a base methodology in the Project Management module, you can choose to include linked, plug-in methodologies in the base methodology.

Create methodology links  Choose Methodology, Methodology Links.

If the open methodology is a base methodology, click the Browse button in the Select Plug-In Methodology field, then select the plug-in methodology you want to link. If the open methodology is a plug-in methodology, click the Browse button in the Select Base Methodology field, then select the base methodology you want to link.
Defining Estimation Factors

The Methodology Management module enables you to define the estimation factors used by project managers to determine project size/complexity when performing bottom-up estimations of work efforts and cost in the Project Management module. Each estimation factor consists of a factor name and description and one or more values; you can specify one value as the default for the factor. You can also assign an estimation factor category to each factor; you can use these categories to organize and apply multiple factors at once when size/complexity is calculated.

Project managers perform bottom-up estimations in the Project Management module using the Size and Complexity Wizard in Project Architect, by selecting values that match the defined set of estimation factors established in the Methodology Management module. The user’s selection for each factor determines a project’s size/complexity value.
To calculate the size and complexity percentage, Project Architect adds all factors you select, divides that sum by the sum of the maximum factor values for each factor, and produces a value between 0 and 1. This value is multiplied by 100.

You can specify an unlimited number of estimation factors per factor category, with a maximum of six values for each factor.

**Add estimation factors** Choose Define, Estimation Factors. Click Add, click the General tab, type the factor’s name, then type a brief description of the factor. Optionally, select a factor category for the new factor.

Factor categories help to organize related factors for a methodology.

For more information about setting up estimation factor categories, see Primavera’s Administrator’s Guide.

Factor categories enable you to organize factors for a methodology according to phase or some other characteristic. To use the Size and Complexity Wizard in Project Architect, you must have assigned estimation factors to a factor category, and also assigned the factor category you want to use for the methodology in the General tab of Methodology Properties (choose Methodology, Methodology Properties).

Click the Values tab.
For more information on using the Size and Complexity Wizard, see the Project Management Reference Manual.

For more information on reporting capabilities in the module, see “Customizing Reports” on page 175.

To add a factor value, click Add, type the numeric value, then type a description of the value. To set a default factor value, choose the value in the Default column. Type a description for each factor value. These descriptions, which should indicate the complexity of the value, are displayed when the value is selected in the Size and Complexity Wizard.

Produce report listing factors You can produce a standard report that lists the available estimation factors, organized by estimation factor category. You can use the report as a quick reference when selecting size and complexity factors in Project Architect. Choose Tools, Reports, then select Estimation Factor Categories in the Admin Categories report group.
Using Bottom-Up Estimation Data

In the Methodology Management module, you can define each activity’s low and high estimation values for labor and nonlabor resource units, and expense costs. These values enable users of the Project Management module to perform bottom-up estimations in Project Architect.

Calculating bottom-up estimations In the Project Management module, project managers perform bottom-up estimations by first calculating the size and complexity of a project. The Project Management module uses this project size/complexity value to calculate a value between the low and high estimation values defined for the labor and nonlabor units and expense costs defined for each activity in the project.

A project’s size/complexity value can be between 0 and 100. If the size/complexity value equals 0, the Project Management module uses the low estimate for each activity. If the size/complexity value equals 100, the PM module uses the high estimate for each activity. For size/complexity values between 0 and 100, the Project Management module calculates an intermediate value between the low and high estimates for each activity. The value calculated using the size/complexity factor is then copied into the budgeted or planned labor/nonlabor units and expense costs for each activity.

You can supply the size/complexity value, or have Project Architect calculate it for you based on estimation factor values you specify in the Methodology Management module.
Using Project Architect

Users of the Project Management module can select, customize, and import methodologies as prebuilt project plans from the Methodology Management module. Project Architect is a wizard that walks you through each step of this process. You can use Project Architect to create a new project plan or to add activities and associated information to an existing project. Also, as you customize methodologies, Project Architect allows you to enter rationales for your tailoring decisions. Because Project Architect copies methodologies from the Methodology Management module database, the information you change does not affect source methodologies.

In addition to providing access to methodologies, Project Architect also contains a bottom-up estimation feature that allows you to estimate resource units and costs for your methodology selections. Project Architect bases this estimate on project size and complexity factors that you specify during the architect process. This allows you to estimate work effort and cost before creating or adding a project.

After you select and customize the methodology you want to import, Project Architect displays detailed summaries of the project plan you developed, including a list of information you removed. This allows you to return to a previous window and make additional changes before importing the project.

For more information on Project Architect, see the Project Management Reference Manual.

Project Architect is available from the File menu in the Project Management module.
Defining Methodology Codes

Use methodology codes to group methodologies in categories in reports and when using Project Architect in the Project Management module. For example, create a code to group methodologies concerned with a specific product or outcome, such as software.

Methodology codes are set up in the Methodology Codes Dictionary, which is available to all methodologies. You can create values for the predefined codes provided in the Methodology Management module, or you can create new methodology codes and values for use with your methodologies.

Define methodology codes and values  Choose Define, Methodology Codes. Click Modify in the Methodology Codes dialog box, then define as many methodology code definitions as you need.
To add values to a methodology code, in the Methodology Codes dialog box select the methodology code for which you want to establish values, then click Add. Type the values and descriptions.

To change a code value’s position in the methodology codes hierarchy, select the code, then click the appropriate arrow button. For example, if you create a code called Funding Source, you may then want to specify code values for the different sectors from which the funding is received, such as Public, Private, and Government Agency. Within these sectors you can create values for the specific funding sources. To indent a source beneath a sector, first select the source, then click the up or down arrow buttons until the source is directly below the sector. Click the right arrow button to indent the source.

To see a graphical display of the methodology codes hierarchy, click the Display Options bar in the Methodology Codes dialog box and choose Chart View. You can also modify the appearance of the table or chart using the other menu commands available from the Display Options bar.
Establishing a Work Breakdown Structure

A work breakdown structure (WBS) is a hierarchical arrangement of the products and services produced during and by a project. Each element of a WBS may contain more detailed WBS elements, activities, or both. When a user of the Project Management module creates a project from a methodology, the methodology’s WBS becomes the project’s WBS.

When creating a methodology, you typically develop the WBS first, assign work products and documents to each WBS element, and then define activities for performing the element’s work, along with an organizational breakdown structure (OBS) element responsible for all work included in the WBS element.

Read this chapter to learn how to set up and implement a WBS.
WBS Overview

Each methodology in your database is arranged in a work breakdown structure (WBS) hierarchy. The WBS can be subdivided into as many levels as needed to represent work in the methodology. The root, or highest level of the WBS, represents the methodology, with the first-level elements representing distinct milestones or phases, and the second and subsequent levels representing the tasks necessary to complete those milestones and phases. A well-constructed WBS in the MM module provides the foundation for projects in the PM module.

Top-down estimates  You can use the WBS in each methodology for top-down estimations of data when projects are created from the methodologies in the Project Management module. When the methodology WBS is transferred to the project WBS, the estimates established in the Methodology Management module are used as the basis for labor, nonlabor, and material unit and cost distributions for the activities associated with the WBS elements.

Weighted milestones  In the Methodology Management module, you can add an unlimited number of WBS milestones, which can be used to calculate earned value in the Project Management module. Milestones are assigned at the WBS level, and each milestone is given a weight that indicates its importance to the project schedule. When you mark a WBS milestone as complete, the Project Management module uses its weight to calculate the performance percent complete of all activities included in the WBS level.
Viewing and Editing a WBS

You can view a WBS as a chart or as a table. Open the Work Breakdown Structure window by choosing Methodology, WBS; you can also click WBS from the Home workspace if you have not yet selected a window for the open methodology.

**View the Work Breakdown Structure chart** Click the Display Options bar, then choose Chart View. To change the displayed information, click the Display Options bar and choose Chart Box Template, then an information type.

**View the Work Breakdown Structure table** Click the Display Options bar, then choose Table View. To list and sort WBS elements, click the WBS Code column label. To change the information displayed in the table, click the Display Options bar, then choose any of the following:

- To view detailed information about a specific WBS element, choose WBS Details (the checkmark should be displayed next to the command), then select the WBS element whose information you want to view. To hide WBS Details, choose the command again (the checkmark should not be displayed).
- To change the columns in the WBS display, choose Columns, then one of the predefined displays, or customize the columns.
You can also directly edit some WBS information in the Work Breakdown Structure table. Double-click the information you want to change, then type or select the new value.

**Edit a WBS element**  Select the WBS element you want to edit. To change the element’s position in the WBS, click the appropriate arrow buttons at the bottom of the command bar on the right side of the Work Breakdown Structure window. Display Work Breakdown Structure Details by clicking the Display Options bar and choosing WBS Details, then enter new information in the tabs as described in this and subsequent sections in this chapter.

**Delete a WBS element**  Select the WBS element you want to delete, then click Del./Merge. If the WBS element has activity assignments, you are prompted to delete the WBS element and all of its activity assignments, or delete the WBS element and reassign, or merge, all of its activity assignments to the element’s higher-level WBS element. Click OK, then click Yes.

*If you delete a higher-level WBS element, the module also deletes all elements contained in that element.*
Applying Estimation Weights to WBS Elements

Top-down estimation data consist of estimation weights for work breakdown structure (WBS) elements and activities in a methodology. The Project Management module imports these weights when project managers import methodologies to develop project plans. When performing a top-down estimation in the Project Management module, the user first specifies the labor, nonlabor, or material units to apply to the project. Then, according to the estimation weights defined in the Methodology Management module, the Project Management module distributes the units in a top-down manner, via the WBS, to the project’s activities.

**Apply estimation weights to WBS elements** Choose Methodology, WBS. Click the Display Options bar, then choose Columns, Size. In the Est Weight column, enter the applicable weights for each element listed for the open methodology.

You can also right-click to select the columns to display for entering data.

Type directly in the column/field for the WBS element to enter its estimated weight.
Adding WBS Elements and Assigning Properties

When you create methodologies, the module automatically creates a WBS top-level element with the same name as the methodology. Use the Work Breakdown Structure window to create, view, and edit the open methodology’s WBS. Choose Methodology, WBS.

Add a WBS element  Select the WBS element immediately above and at the same hierarchy as the element you want to add. Click Add.

Display Work Breakdown Structure Details by clicking the Display Options bar and choosing WBS Details.

General information  Use the General tab to view and edit the selected WBS element’s general information. This includes the code, name, custom WBS category (Project Phase, in the example), and responsible manager (OBS element). For more information about assigning OBS elements to WBS elements, see “Setting Up the Organizational Breakdown Structure” on page 67.

Notebooks  Use the Notebook tab to assign notebook topics and details to the selected WBS element. These topics are defined in the Notebook Topics tab of the Admin Categories dialog box.
You can use HTML editing features in description fields, which include formatting text, inserting pictures, copying and pasting information from other document files (while retaining formatting), and adding hyperlinks.

**Work products and documents**  Use the WPs & Docs tab to assign documents to specific WBS elements to track work for adherence to recognized standards. These documents are pre-established in the Work Products and Documents window, and are categorized for organizational purposes in the Admin Categories dialog box.

**Using WBS Milestones**

In the Methodology Management module, you can add an unlimited number of WBS milestones, which can also be used to calculate earned value in the Project Management module. Milestones are assigned at the WBS level, and each milestone is given a weight that indicates its importance to the methodology. When the methodologies are imported to the Project Management module, and you mark a WBS milestone as complete in the project schedule, the milestone’s weight is used to calculate the performance percent complete of all activities included in the WBS level; that is, the performance percent complete is applied to all activities under that WBS level and then rolled back up to the WBS.
You may want to use WBS milestones when higher-level task increments comprise a body of activities and you want to control the activities at the WBS level. For example, to control the testing work in final code preparation, you might assign WBS milestones to the major steps required to complete the testing—such as test plan review, test plan modification, performance testing, regression testing, and so on. Each of these milestones would contain the detailed activities required to complete it.

Choose Methodology, WBS, then display WBS Details.

**Add WBS milestones** Use the WBS Milestones tab to add an unlimited number of WBS milestones to a WBS element. Click Add, then type a name for the milestone and assign a weight for calculating performance percent complete for all activities in the WBS element when the methodology is imported in the Project Management module.

The following example shows how the methodology WBS milestones are used in the Project Management module.
Setting Up the Organizational Breakdown Structure

In this chapter:

- OBS Overview
- Viewing an OBS
- Setting Up and Assigning an OBS
- Editing OBS Elements

An organizational breakdown structure (OBS) is a hierarchical arrangement of a project’s management structure. The OBS feature in the Methodology Management module supports larger projects, which involve more than one project manager, to accommodate the enterprise project structure (EPS) environment in the Project Management module.

An OBS is not the same as a resource pool. While resources are assigned to activities, OBS elements are assigned to work breakdown structure (WBS) elements. The OBS element assigned to a WBS element is typically the project manager responsible for that WBS element.

Read this chapter to learn how to set up an OBS and associate its elements with the WBS.
OBS Overview

The organizational breakdown structure (OBS) is a global hierarchy representing the managers responsible for the methodologies in the MM module (and projects in the PM module). The OBS usually reflects the management structure of your organization, from top-level personnel down through the various levels. You can associate responsible managers with their areas of the WBS. When you associate a manager with a WBS element, any elements you add to that branch of the WBS are assigned that manager OBS element by default. In the PM module, the OBS hierarchy is also used to grant users specific access privileges to projects and the WBS levels within projects.

For more information on reports, see “Customizing Reports” on page 175.

You can also produce reports based on your OBS; several standard OBS reports are included with the sample methodologies supplied with P6.
Viewing an OBS

The module provides two ways to view an OBS: as a chart or as a table. Choose Define, OBS, to open the Organizational Breakdown Structure dialog box.

**View the Organizational Breakdown Structure chart** Click the Display Options bar, then choose Chart View. To change the information that is included in the chart and the way in which it is displayed, click the Display Options bar and choose Chart Box Template, Customize.
View the OBS table  Click the Display Options bar, then choose Table View.
Setting Up and Assigning an OBS

Use the Organizational Breakdown Structure dialog box to create, view, and edit the global OBS used by all methodologies in the module.

Create an OBS A root OBS element is automatically created when you create a new methodology so that an OBS element is available for assignment to each WBS element you add to the methodology. When you use the Work Breakdown Structure window to set up the WBS as the foundation of the methodology, you can use the existing root OBS as the default for each WBS element, or you can set up the OBS before you build the WBS. You can then assign actual responsible managers when you create WBS elements. Once your basic OBS is in place, and you bring the methodology into the Project Management module as a project, you can include additional OBS elements to provide access to specific EPS nodes, projects, and WBS elements, to users not included with the original organization OBS element.
Add an OBS element  Choose Define, OBS. Select the OBS element immediately above and at the same hierarchy level as the element you want to add, then click Add.

An OBS can have only one root element.

Click the OBS Name column to display the OBS hierarchy, as indicated by this symbol.

The module inserts the new OBS element at the same level as the selected element.

Type a meaningful name for the new OBS.

Click in the OBS Description area to type a description of the OBS element. You can use HTML editing features, which include formatting text, inserting pictures, copying and pasting information from other document files (while retaining formatting), and adding hyperlinks.
Assign an OBS element to a WBS element  Choose Methodology, WBS. Select the WBS element to which you want to assign an OBS element. Display Work Breakdown Structure Details by clicking the Display Options bar and choosing WBS Details. Click the General tab, then click the Browse button in the Responsible Manager field. Select the OBS element you want to assign, then click the Select button.
Editing OBS Elements

You can edit an OBS in several ways. You can change an existing OBS element’s position and information, you can add an OBS element (described earlier), and you can delete an OBS element. Choose Define, OBS.

**Edit an OBS element**  Click the OBS Name column label to display the OBS hierarchy. (An outline symbol in the OBS Name column label indicates a hierarchy display.) Select the OBS element you want to edit. To change the element’s information, type a new name and/or description for the element. To change the element’s position in the OBS, click the appropriate arrow buttons.

**Delete an OBS element**  Click the OBS Name column label to display the OBS hierarchy. Select the OBS element you want to delete, then click Del./Merge. If the OBS element you want to delete has work breakdown structure (WBS) assignments, you are prompted to merge the element with its higher-level OBS element. To delete the OBS element and reassign its WBS assignments to the element’s parent OBS element, choose Merge Element(s). To delete the OBS element without reassigning its WBS assignments, choose Delete Element(s). Click OK, then click Yes.

*If you delete a higher-level OBS element, the module deletes all of the elements contained in that element.*
Defining Resources and Roles

In this chapter

- Resources and Roles Overview
- Viewing and Adding Resources
- Defining and Assigning Resource Codes and Values
- Setting Up Roles
- Assigning Roles to Resources

Resources include the personnel and equipment that perform work on activities across all methodologies. In the Methodology Management module, you can create a resource hierarchy that reflects your organization’s resource structure and supports the assignment of resources to activities. The Methodology Management module also enables you to establish unlimited resource codes that can be used in the Project Management module for grouping and rollups, and you can set up roles with specific skill sets and use them as resource assignments until specific resources can be assigned. This enables you to plan costs by role at the project planning stage.

This chapter describes resources, roles, and resource codes.
Resources and Roles Overview

Use the Methodology Management module to develop a methodology resource plan that integrates resources and costs, so you can effectively control the methodologies when they become projects in the Project Management module. Begin by defining a list of all the resources necessary to complete the projects included in your enterprise project structure (EPS). For each resource, set availability limits and unit prices. Group the resources by broad categories so you can easily find a specific resource when assigning resources to activities in a methodology.

To enable grouping and rollups of your resources for a methodology once it becomes a project in the Project Management module, set up resource codes and assign code values. Use this information to produce resource reports and layouts in the Project Management module that help you analyze resource allocation.

Roles If you are in the planning stage of your methodology or want to see how certain resource assignments will affect costs, you can assign roles as temporary placeholders for resource assignments. Roles are project personnel job titles or skills. They represent a type of resource with a certain level of proficiency—rather than a specific individual. Roles can also be assigned to specific resources to further identify that resource’s skills.
Viewing and Adding Resources

Use the Resources window to maintain both your organization’s resource hierarchy and individual resource information. You can assign resources to activities in any methodology, enabling users of the Project Management module to create projects with preassigned resources.

Resources are different from expenses. While resources can be time-based and generally extend across multiple activities and projects, expenses are one-time expenditures for nonreusable items required by activities.

Choose Define, Resources, or click Resources on the Home workspace, to display the Resources window.
To change the resource display from hierarchy to list view, click the Resource ID column label. A triangle symbol (▲) in this column label indicates a list display. You can sort resource information in a list display by clicking a column label.

View resources  Click the Display Options bar, then choose one of the following:

- To view detailed information about a specific resource, choose Details (the checkmark should be displayed next to the command), then select the resource whose information you want to view. To hide Resource Details, choose the command again (the checkmark should not be displayed).

- To view resources as a chart, choose Chart View.

- To select the columns to include in the display, choose Columns, Customize.

- To select the resources to display, choose Filter By, then choose All Resources to view all resources, or Current Methodology to view only those resources that have assignments in the open methodology.

- To organize the resource hierarchy, choose Group and Sort By, and choose one of the predefined groupings or customize your own.

Add a resource  Click the Display Options bar, then choose Group and Sort By, Default, to display the resource hierarchy. Select the resource immediately above and at the same level as the resource you want to add, then click Add. Depending on your user preferences, the New Resource Wizard may start. The wizard prompts you to add the information included in each tab in Resource Details. If you do not use the wizard, this information can also be entered directly in each tab. To display Resource Details, click the Display Options bar, then choose Details.

Refer to this section to establish basic resource information. To specify additional information, refer to the following sections later in this chapter:

- Codes – “Defining and Assigning Resource Codes and Values” on page 83

- Roles – “Setting Up Roles” on page 85 and “Assigning Roles to Resources” on page 87
Use the General tab to enter general information about the selected resource, including the resource’s ID, name, title, employee ID, e-mail address, and office phone number.

General information

Use Resource Details to add, view, and edit detailed information about a new or selected resource.

Click the left/right arrows to indent or outdent a selected resource to denote its position in the hierarchy; click the up/down arrows to move a selected resource up or down in the hierarchy.

The employee identifier corresponding to the resource
Details Use the Details tab to specify a resource’s labor classification (labor [personnel], nonlabor [equipment], or material [supplies]), indicate whether a resource can log overtime hours, and define the resource’s standard rate and availability.

The available time units are minutes, hours, days, weeks, months, and years. Your system administrator sets the abbreviation for each time unit in the Admin Preferences dialog box.

The number of units available during each workperiod (hour, day, week, or month) of the specified timeframe; you can enter a percentage, or a numeric value followed by a forward slash (/) and the appropriate time duration, depending on your user preference setting for time units.

The minimum amount of time a resource is available to work on an activity.

Mark to enable the resource to record overtime hours for activities in Primavera Progress Reporter.

Mark to indicate that any new assignments for the resource will have its costs recalculated whenever any quantity changes occur.

Type the number by which the resource’s standard price should be multiplied to determine the resource’s overtime price (standard price * overtime factor = overtime price).

Type the resource’s monetary price followed by a forward slash (/) and the unit associated with the price.
Default Units/Time

You can enter the default units/time value as a percentage, or as a numeric value followed by a forward slash (/) and the appropriate time duration, depending on your user preference setting for time units. For example, if the selected resource is one person, a reasonable value may be eight hours (units) per day (duration). In this case, the Default Units/Time would be 8.00h/d, or eight hours of work per day. If you are entering a percentage, you would enter 100 indicating that the resource is available to work full-time. Similarly, if the selected resource is a department with five people, then the Max Units/Time may be 40.00h/d, or 500 percent. This means that five people can perform 40 hours of work per day, rather than one person performing 8 hours of work per day.

Default cost linkage settings for resources at the dictionary level

Specifying the Calculate costs from units field at the dictionary level determines whether new assignments for a particular resource will have their costs recalculated whenever any quantity changes occur. This field only applies to new resource assignments – existing resource assignments are not changed by this setting. By default, this field is set to true.

You can change the default setting of this field to false for new resource assignments for a resource. Setting this field to false unlinks the calculation of costs from quantity changes.

You can also display the Calculate costs from units field for multiple resources. To set this field for multiple resources, choose Define, Resources. Click the Display Options bar, and then choose Columns, Customize. In the Columns dialog box, select Calculate costs from units from the General grouping band and then click . Use the and buttons to place the Calculate costs from units column as desired and then click OK.
Notes  Use the Notes tab to enter comments about the resource. You can use HTML editing features, which include formatting text, inserting pictures, copying and pasting information from other document files (while retaining formatting), and adding hyperlinks.

Resource Notes:

Note: respecive for market research, analysis of competitor products, and trend analysis. The outcome of her investigation will be the basis for the initial design of the product.
Defining and Assigning Resource Codes and Values

Resource codes provide another way to categorize project resources. For example, establish a code called Responsibility, and create values for it, such as Team Lead and Engineer. Assign these values to the appropriate resources so you can quickly group, filter, or sort by all engineers or all team leads once you import a methodology as a project in the Project Management module. Choose Define, Resource Codes, to display the Resource Codes dialog box.

Set up resource codes Click Modify to add resource code definitions—broad categories for which you will be adding values. Type the resource code name and enter the maximum number of characters for each value you will be assigning to the code. Click Close when you are finished adding codes and value lengths.
Add resource code values  Select the code for which you want to establish values, then click Add. Type the resource code value name; the maximum number of characters is preset at the resource code level. Type a description for the value. To create a hierarchy of code values, click the right arrow key to indent the selected value one level.

Assign resource code values  You can assign code values to resources using the Codes tab in Resource Details. Click the Display Options bar and choose Details, click the Codes tab, then click Assign.
Setting Up Roles

Roles are project personnel job titles or skills, for example, software engineer, database administrator, and quality insurance inspector. You can create a standard set of roles that you can assign to resources and activities in all methodologies. You can establish an unlimited number of roles and organize them in a hierarchy for easier management and assignment. The set of roles you assign to an activity defines the activity’s skill requirements.

Assign roles to activities as you would resources during methodology setup and cost planning. When your plans are finalized, you can replace roles with resources, based on each activity’s role and skill requirements.

View roles  Choose Define, Roles, then click the Display Options bar.

- To view only those roles that have assignments in the open methodology, choose Filter By, Current Methodology.
- To view all roles, choose Filter By, All Roles.

![Role Management Screen](image)
View roles for a specific resource  Choose Define, Resources. Select the resource whose roles you want to view. Display Resource Details by clicking the Display Options bar and choosing Details. Click the Roles tab.

View roles for a specific activity  Choose Methodology, Activities. Select the activity whose roles you want to view. Display Activity Details by clicking the Layout Options bar and choosing Show on Bottom, Activity Details. Click the Resources tab.
Add a role  Choose Define, Roles. Select the role immediately above and at the same level as the role you want to add, then click Add. Type the role’s ID and name. To create a hierarchy of roles, click the right arrow key to indent the selected role one level. For example, you may want to list specific roles included under Project Manager, such as Director and Sponsor.

Type a description of the role’s responsibilities. You can use HTML editing features, which include formatting text, inserting pictures, copying and pasting information from other documents (while retaining formatting), and adding hyperlinks.

Assigning Roles to Resources

The set of roles you assign to a resource describes the resource’s skill capabilities. These role assignments make it easy to assign resources to activities according to role. You can also assign roles to activities directly when you are unsure of the actual resources available to work on those activities. You can later replace the roles with the applicable resources.

The module provides two ways to assign roles to resources. You can assign roles to resources from Resource Details, and you can assign roles to resources from the Roles dialog box.
Assign roles to resources from Resource Details  Choose Define, Resources, then select the resource to which you want to assign a role. Click the Display Options bar, then choose Details. Click the Roles tab, then click Assign. Select the role you want to assign, click the Assign button, then click the Close button.

Assign roles to resources from the Roles dialog box  Choose Define, Roles. Click the Display Options bar, then choose Roles Details. Select the role you want to assign. Click the Resources tab, then click Assign.

Double-click the displayed proficiency level, then select the appropriate proficiency level.

Oracle Primavera P6 - Methodology Management
Working With User-Defined Fields

In this chapter:

- Creating User-Defined Fields
- Working with User-Defined Fields

User-defined fields enable you to customize fields and values and add them to the methodology database. For example, you can use them to track additional activity data such as delivery dates and purchase order numbers. You could also track resource- and cost-related data such as profit, variances, and revised budgets.

This chapter describes how to configure user-defined fields to meet your methodology’s needs.
Creating User-Defined Fields

User-defined fields (UDFs) enable you to add an unlimited number of custom fields and values to the methodology database. Examples of UDFs include purchase order numbers, delivery dates, drawing numbers, profit, variances, and revised budgets.

**Subject areas** You may customize an unlimited number of UDFs in any of the following subject areas: Activities, Activity Steps, Activity Resource Assignments, and Resources. In each of these subject areas, you can add columns and group, sort, and filter data based on the UDFs applicable to the subject area.

**Data types** For each custom field you create, you can specify any of the following data types for that field: Cost, Integer, Number, Text, Start Date, and Finish Date. The data type you select determines the type of data you can specify in a field. For example, if you select Start Date, when you create a column for the Start Date you can only enter dates in the Start Date column.

The following table summarizes the data types available and their uses in user-defined fields:

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Use For</th>
</tr>
</thead>
<tbody>
<tr>
<td>Text</td>
<td>Text or combinations of text and numbers</td>
</tr>
<tr>
<td>Start Date</td>
<td>Start date</td>
</tr>
<tr>
<td>Finish Date</td>
<td>Finish Date</td>
</tr>
<tr>
<td>Number</td>
<td>Numeric value with two decimal places</td>
</tr>
<tr>
<td>Cost</td>
<td>Currency value</td>
</tr>
<tr>
<td>Integer</td>
<td>Numeric data except money</td>
</tr>
</tbody>
</table>

**Defining user-defined fields** From the Define menu, select User Defined Fields. In the Select Subject Area drop-down list, select the subject area to which you want to add a new field, then click Add.

You must select the subject area before you can input any additional information for the UDF.
Double-click in the Title column and type a name for the UDF. Double-click in the Data Type column and select the appropriate data type, then click Close.

The maximum size of user-defined text fields is 255 characters.

You must select a subject area before entering a Title or Data Type.

Enter a Title and Data Type for the user-defined field. For example, you could enter Change Order # as the title and select Number as the data type.

The Add and Delete buttons are disabled if you do not have edit privileges for user-defined fields.

Only users with security privileges to edit UDFs can add, modify, or delete UDFs in the User Defined Fields dialog. Users that do not have access rights to edit UDFs can still view them in the User Defined Fields dialog. Any user can assign values to existing UDFs in columns. Also, only users with project security privileges to view project cost data can view UDF values with a Data Type of Cost.
Working with User-Defined Fields

Like other data fields, you can create columns for UDFs, group, sort, and filter based on UDF data, and view UDF data in reports. Read the following sections to learn more about utilizing these capabilities.

Creating UDF columns You can display UDFs in the columns of the Activity Table, Activity Steps, Activity Resource Assignments, and Resources.

Creating UDF columns

You can only create columns for a UDF in the layout of the subject area in which you created the UDF. For example, if you create a UDF called Purchase Order Number in the Resources subject area, the Purchase Order Number UDF can only be viewed in the Resources layout.

Group, sort, and filter UDFs When a layout is grouped by user field, you can group, sort, filter, and view summaries. To group and sort based on UDFs, click View, Group and Sort. To filter data based on a UDF, select View, Filters.

Viewing UDFs in reports You can view UDFs in reports and display them in columns. In the Report Wizard, you can select any UDF to be included in the report. You can also group, sort, and filter data based on a UDF. After you run the report, any UDFs you selected will appear in columns.
Part 3

Implementing Methodologies

In this part

Working with Activities
Working with Methodology Expenses
Managing Risk
Creating and Maintaining a Document Library
Checking Methodologies In and Out of the Module
Read this part to learn how to more fully define methodologies. “Working with Activities” describes how to add activities and relationships to methodologies, while “Working with Methodology Expenses” discusses how to monitor activity expenses and identify potential problems with methodologies.

“Managing Risk” describes how to define risks and assign them to work breakdown structure (WBS) elements. In “Creating and Maintaining a Document Library” you learn how to track related documents and deliverables.

“Checking Methodologies In and Out of the Module”, discusses how to track methodologies that are used outside of the Methodology Management module database.

“Transferring Methodology Data” describes how to import and export methodologies, and how to import projects from the Project Management module as new methodologies.
Activities are the fundamental building blocks of a methodology. They are the lowest level of a work breakdown structure (WBS) and, as such, are the smallest subdivision of the methodology. This chapter describes how to add activities and their properties in the Methodology Management module.
Activities Overview

Activities represent work that must take place in a determined amount of time. Use the Activity Table or Activity Network layouts to add activities and build your methodologies. Within these layouts, the module enables you to define the following activity information:

- Activity ID and name – to uniquely identify and describe the activity
- Predecessor and successor relationships – to define relationships with other activities in the same methodology
- Activity type, duration type, and percent complete type
- Low and high resource unit and duration values for bottom-up estimating in Project Architect
- Work breakdown structure (WBS) element
- Activity codes and values – to categorize activities
- Activity attributes – to sort, filter, and group activities, and to maintain corporate standards in project plans
- Core reuse – to copy and link, or reuse, activities within a single methodology and across multiple methodologies
- Expenses
- Work products and documents
- Resources
- Roles – to identify skill requirements for staffing the activity
- Notes about performing the activity
- Steps – to divide the activity into smaller units
- Activity Step Templates – to specify reusable sets of steps common to many activities
Adding Activities

Use the Activities window to create, view, and modify activities for the open methodology. The Activities window can be divided into upper and lower layouts. For example, show an Activity Table or Activity Network in the top layout, and/or show Activity Details, an Activity Table, or Trace Logic in the bottom layout. Customize the layouts to suit your requirements.

You can also reuse an activity’s core information for multiple activities within a single methodology and across multiple methodologies. This expedites the activity creation process because an activity’s core information does not need to be defined more than once. Core information includes an activity’s name, duration type, percent complete type, activity type, attributes, steps, and notebook topics.

Choose Methodology, Activities, to display the Activities window.

To add an activity to a methodology, use the Activity Table or Activity Network. Depending on your user preferences, the New Activity Wizard may start to help you add an activity.
Add activities in the Activity Table  In the Activity Table, select the group band or another activity within the group band into which you want to add a new activity. Click Add. To add a new activity, click Create a New Activity. To reuse or add a linked copy of an existing activity, click Reuse Existing Activity Core, then select an activity. To reuse an activity from a different methodology, click the Display Options bar in the Select Activity dialog box, choose Select Methodology, then select the methodology of the activity to reuse.

Add activities in the Activity Network  In the Activity Network, select the group band or another activity box within the group band into which you want to add the new activity, then click Add. To add a new activity, click Create a New Activity. To add a linked copy of an existing activity, click Reuse Existing Activity Core, then select an activity.

Select an existing activity to reuse its information for the new activity.

Use Activity Details to complete activity information.

The new activity was added to the top-level WBS group band.

If no groups are set up in the Activity Network, the activity is added to the bottom of the layout.
Defining General Activity Information

To specify which Activity Details tabs you want to display and their order, click the Layout Options bar, then choose Bottom Layout Options.

Use the General tab in Activity Details to define general information for the selected activity, including duration type, WBS assignment, activity type, and low and high estimation values.

Choose Methodology, Activities, then select the activity whose general information you want to define. Click the Layout Options bar, then choose Show on Bottom, Activity Details; click the General tab.

Activity type  Select the activity type according to the activity’s function in the methodology and the calendar that should be used for the activity during scheduling when the methodology is imported as a project in the PM module.

- To indicate that the activity’s resources are scheduled according to the activity calendar, select Task Dependent.
- To indicate that each of the activity’s resources are scheduled according to the resource’s own calendar, select Resource Dependent. Use this activity type when several resources are assigned to the same activity but may work separately.
- To indicate that the activity’s duration is dependent on its predecessor and/or successor activities, select Level of Effort (LOE). LOE activities do not have constraints and are considered to be ongoing; examples include project management tasks, reviews, and meetings. The PM module does not include LOE activities when leveling resources.

- All finish to start and start to start predecessors and start to finish and start to start successors drive the start date of the LOE activity; all finish to finish and start to finish predecessors and finish to start and finish to finish successors drive the finish date of the LOE activity.

- To indicate that the activity marks the beginning or end of a major stage in the project, select Start or Finish Milestone. Milestones do not have time-based costs or resource assignments. The module does not recognize durations for milestone activities.
To indicate that the activity’s duration is dependent on the earliest start date and latest finish date of the activities that share a common WBS level, select WBS Summary.

Driving resources can not be assigned to WBS Summary activities.

**Duration type** Select the duration type based on whether resources, the schedule, or costs will be most important when activities are updated in a project created using the methodology. The duration type applies only when resources are assigned to the activity. The following equation must hold true regardless of which data are updated:

\[
\text{Remaining Units (resource)} = \frac{\text{Units/Time}}{\text{Units/Time}} \times \text{Remaining Duration (activity)}
\]

For example, if a resource is assigned to an activity for 8 hours/day for 5 days, the remaining units or work effort is calculated as 40 hours. The duration type enables you to control which variables of this equation are calculated when you change a value.

- Select Fixed Duration & Units/Time or Fixed Duration & Units to indicate that the schedule is a limiting factor in your project. The activity’s duration does not change regardless of the number of resources assigned when you modify or update activities. You usually choose this duration type when you are using task dependent activities.

  When you update the remaining duration for the activity, you can choose to calculate either the remaining units or the units per timeperiod. If you want to recalculate the remaining units and keep the units/time for the resource constant, choose Fixed Duration & Units/Time. The module uses the equation:

  \[
  \text{Remaining Units} = \frac{\text{Units/Time}}{\text{Units/Time}} \times \text{Remaining Duration}
  \]

  If you want to keep the remaining units constant instead and recalculate the units/time, choose Fixed Duration & Units. The module uses the equation:

  \[
  \text{Units/Time} = \frac{\text{Remaining Units}}{\text{Remaining Duration}}
  \]

- Select Fixed Units/Time to indicate that resource availability is the most critical aspect of your project. In this case, the units/time or rate of the resource remains constant, even if the activity’s duration or work effort changes. You most often use this duration type when you are planning resource dependent activities.
Select Fixed Units to indicate that the budget (units or cost) is a limiting factor; that is, the total amount of work is fixed. When you update activities, the work effort required to complete the activity does not change, even if the activity's duration or the resource rate changes. Typically, you would use this type in conjunction with resource dependent activities. Increasing resources can decrease the activity duration.

**WBS**  Click the Browse button to assign a new WBS element to the selected activity.

**Percent complete type**  You can calculate an activity’s percent complete according to activity duration, activity units, or a physical percent complete that you enter for each activity. You must define a percent complete type for each activity.

- To specify that the activity’s percent complete be calculated from the actual and remaining units, select Units.
- To specify that the activity’s percent complete be calculated from the actual and remaining duration, select Duration.
- To indicate that the activity’s percent complete will be entered by the user for this activity, select Physical.

**Labor units**  The selected activity’s low and high estimated work effort for labor resources.

**Nonlabor units**  The selected activity’s low and high estimated work effort for nonlabor resources.

**Duration**  A low and high estimation of the number of workperiods required to complete the selected activity.
Establishing Relationships

Create relationships between activities to indicate whether an activity can begin only after other activities start or finish. The module provides several methods for assigning relationships. Use the Activity Network to visualize the flow of logic as you link activities, or use the Relationships tab in Activity Details to assign relationships to activities. Choose Methodology, Activities, to display the Activities window. Click the Layout Options bar, then choose Show on Bottom, Activity Details; click the Relationships tab.

**Relationship types and lag** You can define the following four types of relationships. Typically, you define relationships from the predecessor to the successor activity.

- **Finish to start (FS).** The successor activity can begin only when the predecessor activity completes.
- **Finish to finish (FF).** The finish of the successor activity depends on the finish of the predecessor activity.
- **Start to start (SS).** The start of the successor activity depends on the start of the predecessor activity.
- **Start to finish (SF).** The successor activity cannot finish until the predecessor activity starts.

When a successor activity cannot start or finish as soon as its predecessor starts or finishes, you can define a lag time for the relationship. Lag is the number of time units from the start or finish of an activity to the start or finish of its successor. Lag can be a positive or negative value. For example, a start to start relationship with a three-day lag indicates that the successor activity can start three days after the start of its predecessor.
While you are dragging the relationship line between two activities, the module displays a hint window that indicates the type of relationship that will be created when you release the mouse button.

Create relationships in the Activity Network  Drag the mouse between any two activities that you want to connect. Point to the left or right of the predecessor activity and drag the mouse to the left or right of the successor activity. The mouse pointer changes to a \(\rightarrow\) as you define relationships.

To modify or delete a relationship, double-click the relationship line.

Assign relationships using Activity Details  Select the activity to which you want to add a predecessor or successor relationship. Display Activity Details by clicking the Layout Options bar and choosing Show on Bottom, Activity Details, then click the Relationships tab. Click Assign in either the Predecessors or Successors section. Select the predecessor or successor activity you want to assign, click the Assign button, then click the Close button. Double-click the Relationship Type field, then select a relationship type. Double-click the Lag field, then type the relationship’s lag time value.

You can also use the Predecessors or Successors tabs in Activity Details to assign relationships. The Relationships tab combines the predecessor and successor information in a single tab. The data stored in the Relationships tab is synchronized with the information in the Predecessors and Successors tabs.
**Trace Logic** The module provides a separate Trace Logic layout so you can examine a path while still viewing the entire methodology. Click the Layout Options bar and choose Show on Bottom, Trace Logic. In the Activity Table or Activity Network, select the activity from which you want to begin tracing a path in the network.

To move through the chain of activities, click a predecessor or successor of the selected activity. To modify the number of predecessor/successor levels, click the Layout Options bar and choose Bottom Layout Options.

![Trace Logic layout showing three predecessors and successors for the selected activity.](image)
Displaying Activity Details for Assignments

Choose Methodology, Activities, to display the Activities window. Click the Layout Options bar, then choose Show on Bottom, Activity Details. Display the following Activity Details tabs so you can assign additional methodology information:

- **Codes/Attributes**, which are used to categorize activities according to your organizational and project needs, and to categorize activities according to corporate standards in project plans in all methodologies.

- **Resources**, which include the personnel and equipment that perform work on activities across all methodologies. You can also assign and remove project roles—personnel job titles or skills.

- **Notebook**, or additional information that further describes the activity according to specific categories of information.

- **Steps**, which divide activities into smaller units.

- **Core Reuse**, which is a list of methodologies that reuse the selected activity. You can also view the number of times the activity appears in each methodology, and the activity’s owner methodology.

- **Expenses**, which are one-time expenditures for nonreusable items. You can associate predefined cost categories with expenses to categorize them.

- **WPs & Docs**, which enable you to catalog and track all methodology-related documents and deliverables.

**Modify Activity Details tabs**  Click the Layout Options bar, then choose Bottom Layout Options. In the Available Tabs column, click the tab that you want to display, then click the right arrow button. To shift the tab left in Activity Details, with the tab selected, click the up arrow button. To shift the tab right in Activity Details, with the tab selected, click the down arrow button.

![Activity Details Layout](image)
Assigning Resources and Roles

Choose Methodology, Activities, to display the Activities window. Click the Layout Options bar, then choose Show on Bottom, Activity Details. In the Activities window, select the activity to which you want to assign a resource or role. Click the Resources tab.

![Resource Table]

Click Add Resource to assign a resource to the selected activity; click Add Role to assign a role to the selected activity. Select the resource or role you want to assign. To assign multiple resources or roles, hold down the Ctrl key, then click each resource/role you want to assign. Click the Assign button, then click the Close button.

To define detailed information, double-click each appropriate cell and enter the information for the selected activity. To replace a resource or role assigned to the activity, select the resource or role you want to replace, click Add Resource or Add Role, then click the Replace button. Select the new resource or role, then click the Close button.

In the User Preferences, Calculations tab, you can define the default behavior when replacing a resource assigned to an activity. Choose to always use the units/time of the new resource or of the current assignment (i.e., the resource you are replacing); or, choose to be prompted each time you replace a resource on an existing activity assignment.

Roles with specific skill sets can be assigned resources to enable schedule and cost planning until specific resources are identified. You can later replace the role with the correct resource, based on the proficiency requirements established for the role.

Assign resources to activities by role At least one role must be assigned to activities to assign resources by role. Click Assign by Role; the Assign Resources by Role dialog box lists the roles assigned to the selected activity. The resources who can fulfill each role are listed below each role. Select the resources you want to assign. Click the Assign button, then click the Close button.
To quickly find a particular resource in the Assign Resources by Role dialog box, click the Display Options bar, then choose Group and Sort By, and the resource code assigned to the resource. The list of resources will be resorted by resource code within role.

Once you assign a resource or role and specify the budgeted or planned units anticipated for its use on activities, project managers can use this information in the Project Management module (when they import methodologies) to perform bottom-up estimations of work efforts and cost.

Specify a Resource/Role Lag The Methodology Management module provides a lag field for both resource and role assignments. The lag that is available in MM corresponds to the PM module’s remaining lag field. A lag is used when a resource will not be available to start when the activity could start. A lag is introduced to offset the delay.

Lags that you specify in MM are imported into PM projects that are created or updated with the methodology using Project Architect.

To specify a resource/role lag, choose Methodology, Activities. Click the Resources tab in Activity Details. If the lag column is not displayed, perform the following steps to display it:

- Right-click on a column in the Details tab and then click Edit Resource Columns.
- Select Lag from the Durations grouping band and then click .
- Use the and buttons to place the lag column as desired and then click OK.
Then select the resource assignment for which you want to enter a lag, and enter the desired lag in the lag column.

**Specify the cost linkage settings for resources at the assignment level** Specifying the Calculate costs from units field at the assignment level determines whether a specific assignment for a resource will have its costs recalculated whenever any quantity changes occur. This allows you to assign a particular resource to a project with the costs linkage different from the way the resource's costs linkage is defined at the resource (dictionary) level.

To specify the Calculate costs from units field at the assignment level, choose Methodology, Activities. Click the Resources tab in Activity Details. If the Calculated costs from units column is not displayed, perform the following steps to display it:

- Right-click on a column in the Details tab and then click Edit Resource Columns.
- Select Calculate costs from units from the General grouping band and then click .
- Use the and buttons to place the Calculate costs from units column as desired and then click OK.

Finally, select the activity for which you want to specify the cost linkage setting. Then clear the Calculate costs from units field to set the field to false for this particular assignment, or mark the field to set it to true.
Assigning Notebook Topics

Choose Methodology, Activities. Click the Layout Options bar, then choose Show on Bottom, Activity Details. In the Activities window, select the activity to which you want to assign a note. Click the Notebook tab in Activity Details.

Notebook topics are predefined in the Notebook Topics tab of the Admin Categories dialog box. To make the topics accessible for assignment to methodologies, WBS elements, and/or activities, mark the appropriate checkboxes in the Admin Categories dialog box.

Assign notebook topics Click Add. Select the notebook topics you want to assign. To assign multiple topics, hold down the Ctrl key, then click each notebook topic you want to assign. Click the Assign button, then click the Close button.

In the right section of the Notebook tab, type a brief description for the selected notebook topic. You can use HTML editing features, which include formatting text, inserting pictures, copying and pasting information from other information fields (while retaining formatting), and adding hyperlinks.
Adding Steps

You can divide an activity into smaller task increments called steps and then assign weights to the steps to calculate the activity’s percent complete when the methodology is imported in the Project Management module. Weighted steps enable you to track the progress of an activity based on the number of steps completed.

In the Methodology Management module, the percentage value is shown, relative to the weights of the other steps. For example, three steps are assigned to an activity; the first step has a weight of 2, and the second and third steps each have a weight of 1. When you mark the first step (weight of 2) complete in the Project Management module, the percent complete is 50. When you mark the first and second steps complete, the percent complete is 75. When all three steps are marked complete, the percent complete is 100.

You can add steps unique to each activity. You can also create Activity Step Templates that capture a group of steps common to multiple activities, then assign the step group to activities. This section describes how to add unique steps to activities; the next section describes how to create and assign Activity Step Templates.

**Add steps** Choose Methodology, Activities. Click the Layout Options bar, then choose Show on Bottom, Activity Details. In the Activities window, select the activity to which you want to add a step. Click the Steps tab in Activity Details.

Click Add. Type the name of the new step. Type a brief description of the step for the selected activity. You can use HTML editing features, which include formatting text, inserting pictures, copying and pasting information from other information fields (while retaining formatting), and adding hyperlinks. To move the step to an earlier stage of the activity, click the up arrow. To move the step to a later stage of the activity, click the down arrow.

For more information on creating Activity Step Templates and assigning them to activities, refer to the next section, “Creating and Assigning Activity Step Templates” on page 112.

You may want to use weighted steps when a methodology consists of large activities that encompass distinct tasks.
Enter a number indicating the weight of the step, relative to the other steps listed for the activity. The weight can be any number between 0.0 and 999999.0. The Step Weight indicates the step’s importance to the activity. The higher the value, the greater the importance. The Step Weight Percent column displays the percent value that corresponds to the step’s weight. The step weight percent value is calculated based on the step weights assigned to the activity. This column is 0 percent for nonweighted steps.

You must select Physical as the percent complete type in the General tab in Activity Details to use weighted steps to calculate an activity’s percent complete in the Project Management module.

Add user-defined fields to the Steps tab If you are the activity’s primary resource, you can change the titles of user-defined fields and use them to enter values, such as finish date, start date, cost, or number of hours worked for a step. Choose Enterprise, User Defined Fields to assign and edit these titles. To add columns for user-defined fields, right-click over the columns in the Steps tab, and choose Customize Steps Columns.
Creating and Assigning Activity Step Templates

Your organization may have several activities that repeat within a project or across projects. For example, every time you construct a building, several specifications must be written and approved. Developing a specification is a multi-step process that never changes.

For example, the “Write Specifications” activity could have the following steps:

■ Submit initial spec
■ Review initial spec
■ Revise initial spec
■ Final review
■ Final revision

These steps may apply to many or all “Write Specifications” activities in a project or across all projects. Rather than manually inputting these steps into each “Write Specifications” activity, you can create an activity step template containing these steps and assign the template to each applicable activity at once. You can create an activity step template manually or convert existing step(s) into a template.

Creating activity step templates manually Choose Define, Activity Step Templates. In the top grid of the Activity Step Templates dialog, click Add. Type a name in the Step Template Name field (e.g., Specification steps). To add steps to the template, click Add in the bottom grid. Type a Step Name and a Step Weight. The Step Weight is used to calculate the progress of an activity; the greater the weight of the step, the more progress has been made on the activity when you mark a step complete.
You can add an unlimited number steps to a template.

**Converting existing step(s) into an activity step template** In the Activity Table, select the activity that contains the step(s) you want to convert to a template. In the Steps tab of Activity Details, ctrl-click to select the desired steps, then right-click in the Steps tab and choose Create Template. Enter a name for the template when prompted. The steps and their associated name, description, weight, and UDFs are added to the new template.
Assigning Activity Step Templates to activities  You can assign an Activity Step Template to activities separately or to several activities at once. To assign a template to one activity, select the activity in the Activity Table. Click the Layout Options bar and choose Show on Bottom, Activity Details. In the Steps tab, click Add From Template. In the Assign Activity Step Templates dialog, select the template you want to add and click the Select icon (+ symbol). The Steps tab is automatically populated with the steps listed in the template.

You can also assign an Activity Step Template to multiple activities at once. In the Activity Table, Ctrl-click each activity you want to add a template to. From the Command Bar, click Steps to launch the Assign Activity Step Templates dialog. Choose the template you want to add to the selected activities, then click the Select button (+ symbol).
Creating and Assigning Activity Codes and Attributes

Activity codes represent broad categories of information, such as manufacturing, quality control, or location. For each code, you can define specific values that further describe that category. For example, if your organization has more than one location, you can create a Location code with values such as New York, Los Angeles, and Chicago. You can then associate activities with a specific location, such as New York. You can define an unlimited number of values for each code.

When project managers create a project plan from a methodology, Project Architect copies your activity code assignments. In the Project Management module you can sort, filter, and group activities according to the activity codes and values you assigned to the activities in the Methodology Management module.

Attributes are characteristics that enable you to categorize activities in all methodologies, and to maintain corporate standards in project plans. Examples of attributes are quality assurance, auditing, and security. You can assign attributes to activities in any methodology.

In the Methodology Management module, use attributes to sort, filter, and group activities. In the Project Management module, attribute assignments enable project managers to customize their project plans more efficiently and effectively by including and removing activities according to attribute assignment.

You can also create “locked” attributes to guarantee that a project plan includes an activity or a group of activities. If you assign a locked attribute to an activity or a group of activities, users of the Project Management module cannot remove the activities from a methodology.

In the Methodology Management module, activity codes and attributes are global; that is, they are available for assignment to activities in all methodologies.
Create global activity codes Choose Define, Activity Codes, then click Modify. Click Add, then type the name of the activity code. Specify the maximum number of characters for the activity code’s values.

Create global activity code values Choose Define, Activity Codes. Select the activity code for which you want to create a value, then click Add. Type the value’s name and description.

If you change activity codes or values, the module applies your changes to all activity assignments.
Create activity attributes  Choose Define, Activity Attributes. Click Add, and type the attribute’s name. To prevent users of the Project Management module from removing activities with this attribute, mark the Locked checkbox. Type a brief description of the attribute.

Assign codes, code values, and attributes  Choose Methodology, Activities. Click the Layout Options bar, then choose Show on Bottom, Activity Details. In the Activities window, select the activity to which you want to assign a code and value. Click the Codes/Attributes tab in Activity Details.

Click Assign in the left section of the Codes/Attributes tab. Select the activity code and value you want to assign. To assign multiple codes and values, hold down the Ctrl key, then click each code value you want to assign. Click the Assign button, then click the Close button.

To assign attributes to the selected activity, under the list of attributes in the right section of the Codes/Attributes tab, click Assign. Select the attribute you want to assign. To assign multiple attributes, hold down the Ctrl key, then click each attribute you want to assign. Click the Assign button, then click the Close button.
Viewing Core Reuse

When you copy activities and activity information in a methodology, you can maintain a connection or link between the copied activities and the original activities by choosing to reuse the activities from the methodology. Then, if you change a reused activity, the module updates all instances of the reused activity in all methodologies. You can reuse activities in one methodology and across multiple methodologies.

Choose Methodology, Activities. Click the Layout Options bar, then choose Show on Bottom, Activity Details. In the Activities window, select the activity for which you want to view a list of methodologies that use the activity. Click the Core Reuse tab in Activity Details.

For more information about core reuse, see “Creating and Linking Methodologies” on page 43.
Adding Expenses

Choose Methodology, Activities. Click the Layout Options bar, then choose Show on Bottom, Activity Details. In the Activities window, select the activity to which you want to add an expense. Click the Expenses tab in Activity Details.

Click Add, then type the expense’s name. To assign an expense category to the expense, double-click the Expense Category field, then select an expense category from the list and click the Select button; click the Close button. To change the expense’s accrual rate, double-click the Accrual Type field, then select a new accrual rate. Double-click the Low Cost field, then type your low cost estimation of the expense. Double-click the High Cost field, then type your high cost estimation of the expense.

These low and high cost estimates enable users of the Project Management module to perform bottom-up estimations in Project Architect. This allows you to estimate costs before creating or adding a project.

To specify the organization or business to which the expense is payable, double-click the Vendor field, then type the vendor’s name. Double-click the Unit of Measure field to specify a unit of measure for the expense item.

Assigning Work Products and Documents

Work products and documents enable you to catalog and track all project-related documents and deliverables. You can assign these documents to activities and work breakdown structure (WBS) elements in all methodologies. A document may provide standards and guidelines for performing work, or it may be a work product or deliverable produced by work on the activity. Examples of work products are testing plans, design specifications, and airframe blueprints. When you assign a document to an activity, you can also indicate whether it is a work product.
Set up the categories for work products and documents by choosing Admin, Admin Categories, then clicking the Document Categories tab. Categories are assigned to documents in the Work Products and Documents window.

**Assign work products and documents** Choose Methodology, Activities. Click the Layout Options bar, then choose Show on Bottom, Activity Details. In the Activities window, select the activity to which you want to assign a work product or document. Click the WPs & Docs tab in Activity Details.

Click Assign. Select the work product or document you want to assign. To assign multiple work products and documents, hold down the Ctrl key, then click each document. Click the Assign button, then click the Close button. To view detailed information about and/or open a work product or document, select the item, then click Details.
Working with Methodology Expenses

In this chapter:
- Adding Expenses
- Defining Expense Details

Expenses are nonresource costs associated with a methodology and assigned to a methodology’s activities. They are typically one-time expenditures for nonreusable items. Examples of expenses include facilities, travel, overhead, and training.

Read this chapter to add expenses to methodologies.
Adding Expenses

You can create methodology-specific expenses and assign them to activities. You can also categorize expenses, and specify whether an expense accrues at the start, at the end, or uniformly over the duration of an activity. The module also enables you to enter a low cost and a high cost estimation value for each expense to facilitate bottom-up estimations.

Expenses are not the same as resources. Resources can be time-based and generally extend across multiple activities and/or multiple methodologies. Examples of resources are personnel and equipment. Unlike resources, expenses are methodology-specific and they are not time-based.

Use the Methodology Expenses window to create, view, and edit expenses and related cost information for activities in the open methodology. When project managers use the methodology to develop a project plan in the Project Management module, this information enables them to estimate the project’s total cost. You can also assign a corresponding work breakdown structure (WBS) code so you can identify the area of work with which it is associated.

The Methodology Expenses window is displayed when you choose Methodology, Expenses. To include Methodology Expense Details at the bottom of the Methodology Expenses window, click the Display Options bar and choose Expense Details.
Working with Methodology Expenses

For steps on adding expenses to activities from the Activities window, see “Working with Activities” on page 95.

Add expenses  Click Add. Select the activity that incurs the expense, then click the Select button. The activities in the Select Activity dialog box are organized by WBS code, so you can easily find the activity by WBS association.

Click the General, Activity, and Description tabs, and enter the expense’s information. For an explanation of the fields on these tabs, refer to “Defining Expense Details” on page 123.

Group expenses  You can group expenses by WBS code, expense category, or vendor, to make assignment easier. Click the Display Options bar, then choose Group and Sort By. Choose one of the grouping items listed.

Copy expenses  Select the expense item you want to copy, then click Copy. Select the expense item group to which you want to add the copied expense, then click Paste.

If the expenses are grouped by WBS, you can only paste into the same WBS from which the expense was originally copied. The WBS is assigned to the expense’s activity and cannot be changed in the Methodology Expenses window.

Defining Expense Details

Use Methodology Expense Details to view and edit detailed information about the selected expense item. Methodology Expense Details are displayed in the lower portion of the Methodology Expenses window. Choose Expense Details from the Display Options bar. To display the Methodology Expenses window, choose Methodology, Expenses.

General information  Use the General tab to define general information for the selected expense item, such as the item name, category, vendor, and low and high cost estimations. You can also enter the expense’s unit of measure.

The name of the business or organization to which the selected expense is payable.

Example units of measure include Yards, Cubic Feet, and Each (if expense is per item).

The Admin Categories dialog box displays low and high cost estimates that help you perform bottom-up estimations in the PM Project Architect.

Oracle Primavera P6 - Methodology Management
Activity information  Use the Activity tab to change the selected expense item’s activity assignment and specify the expense item’s accrual type. You can also view the item’s activity assignment according to WBS element.

Select one of the following accrual types:

- **Start of Activity**, to accrue the entire expense on the date the activity begins
- **End of Activity**, to accrue the entire expense on the date the activity ends
- **Uniform Over Activity**, to evenly distribute the expense over the course of the activity’s duration

To change an expense assignment, click the Browse button in the Activity field. Select the activity to which you want to reassign the expense, click the Select button, then click the Close button.

Description  Use the Description tab to enter a description of the selected expense item. You can type a new description. You can use HTML editing features, which include formatting text, inserting pictures, copying and pasting information from other document files (while retaining formatting), and adding hyperlinks.
Managing Risk

In this chapter:

- Adding Risks
- Calculating Exposure Values
- Customizing Risk Layouts

The Methodology Management module contains an integrated risk management feature that enables you to identify, categorize, and prioritize potential risks associated with specific work breakdown structure (WBS) elements. You can also create risk control plans and assign a probability of occurrence to each risk.

This chapter describes how to add risks, calculate a risk’s exposure values, and customize how you view risks.
Adding Risks

The Methodology Management module contains an integrated risk management feature that enables you to identify, categorize, and prioritize potential risks associated with specific work breakdown structure (WBS) elements.

You can also perform a “what-if” impact analysis for each risk. The MM module uses a risk’s probability of occurrence, and resource unit and expense estimates to calculate a risk’s net exposure values. These exposure values are then used to determine the risk’s impact on the project’s cost, float, and finish date when Project Architect is used to import the methodology in the Project Management module. The current project data are not changed.

Choose Methodology, Risks, to display the Risks window. Click the Display Options bar, then click Risk Details.

**Add a risk**  Click Add, then click the General tab in Risk Details. Type the risk’s name, then select the WBS element that the risk will affect.

**Add a risk description and control plan**  Click the Description tab, then type a description of the risk. To enter a description of the risk’s control plan, click the Control tab, then type the description in the Risk Control Plan field. You can use HTML editing features in both tabs; these features include formatting text, inserting pictures, copying and pasting information from other document files (while retaining formatting), and adding hyperlinks.
Calculating Exposure Values

The Methodology Management module uses a risk’s probability of occurrence, and resource unit and expense estimates to calculate a risk’s net exposure values. These exposure values are then used to determine the risk’s impact on the project’s cost, float, and finish date when Project Architect is used to import the methodology in the Project Management module. The current project data are not changed. Choose Methodology, Risks, to display the Risks window. Click the Display Options bar, then click Risk Details.

**Calculate a risk's exposure values** Select the risk whose exposure values you want to calculate, then click the Impact tab. Type the estimated number of labor and nonlabor time units, and the estimated total cost of expenses the risk will incur, if the risk occurs. Type or select a percent estimate of the probability that the risk will occur. The module calculates and displays the risk’s exposure values as Exposure = Impact x Probability.

<table>
<thead>
<tr>
<th>Impacted Activities</th>
<th>Low</th>
<th>High</th>
<th>Probability</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Labor Units</td>
<td>100h</td>
<td>300h</td>
<td>0.5</td>
<td>150h</td>
</tr>
<tr>
<td>Nonlabor Units</td>
<td>0h</td>
<td>0h</td>
<td>0.2</td>
<td>0h</td>
</tr>
<tr>
<td>Expense</td>
<td>$0.00</td>
<td>$0.00</td>
<td>0.3</td>
<td>$0.00</td>
</tr>
</tbody>
</table>

Customizing Risk Layouts

Use the Columns dialog box to specify which columns you want to display in the current risk spreadsheet layout. Choose Methodology, Risks, to display the Risks window.

**Customize risk layout columns** Click the Display Options bar and choose Columns, Customize.
Modify the columns shown in the risk layout by clicking the right/left arrow buttons to move data items between the Available Options and Selected Options columns.

Items listed in the Selected Options column are included in the current layout when you click OK. Click Apply to see your changes without closing the dialog box.

**Filter, group, and sort risk layouts** You can select the risks you want to view and specify how you want to display them, and you can restrict which risks you view. In the Risks window, click the Display Options bar. Choose Filters or Group and Sort By and the option that best describes how you want to view risks.
Use the Work Products and Documents feature to catalog and track all methodology-related documents. These materials include guidelines, procedures, standards, plans, design templates, worksheets, and all types of deliverables. A document can provide standards and guidelines for performing an activity’s work, or it can be a work product or deliverable produced by work on the activity. Examples of work products are testing plans, design specifications, and airframe blueprints. When you assign a document to an activity, you can also indicate whether it is a work product.

This chapter describes how to maintain your methodology’s library of documents.
Viewing a Document Library and Adding/Deleting Documents

The Work Products and Documents feature allows you to maintain general information, such as revision date, location, and author, about your organization’s documents. The actual document files can be stored on a network file server, configuration management system, or Web site, depending on your organization.

Choose Define, Work Products & Documents, to display the Work Products and Documents window. Click the Display Options bar and choose WP & Doc Details.

View a methodology’s document library  Select the work product or document whose information you want to view.
Add a work product or document  Select the work product or document immediately above and at the same level as the item you want to add, then click Add. Click the General tab in Work Product and Document Details. Type a name for the work product or document, then add general information about it.

Use Work Product and Document Details to view, add, and edit detailed information about and/or open the selected work product or document. You can also use Work Product and Document Details to assign the selected item to work breakdown structure (WBS) elements and activities.
Enter a document description  Click the Description tab and type a description for the document. You can use the HTML editing features, which include formatting text, inserting pictures, copying and pasting information from other document files (while retaining formatting), and adding hyperlinks.

Delete work product or document records  Select the work product or document or group of work products or documents you want to delete, then click Delete. Click Yes when prompted.

Deleting a document record deletes only the record, not the actual file that contains the document.
Specifying Work Product and Document Location References

The module supports two types of work product and document location references, private and public. Private location references can be viewed only by users of Methodology Management and Project Management modules. Public location references can be viewed by all project participants, including users of Primavera Progress Reporter. For this reason, public location references typically refer to files stored in a widely accessible network location, an intranet, or the Internet.

Choose Define, Work Products & Documents. Click the Display Options bar, then choose WP & Doc Details.

**Enter work product and document location references**  Select the work product or document for which you want to enter a location reference. Click the Files tab.

To use the Launch feature, the files listed in the Private Location/Public Location fields must be a type recognized by Windows.

**Open a work product or document**  Select the work product or document you want to open. Click the Files tab. To view the private file for a work product or document, click Launch next to the Private Location field. To view the public location for a work product or document, click Launch next to the Public Location field.
Assigning Work Products and Documents

Use the module to assign work products and documents to both activities and WBS elements. For example, during a methodology’s early planning stages, you may assign a work product or document to a WBS element. Later, you can assign the same work product or document to one or more activities as your methodology’s activity details develop.

Choose Define, Work Products & Documents. Click the Display Options bar, then choose WP & Doc Details.

**Assign work products and documents from the Work Products and Documents window** Select the work product or document you want to assign. To assign multiple work products or documents, hold down the Ctrl key, then click each work product or document. Click the Assignments tab.

Click Assign. Select the activity or WBS element to which you want to assign the selected work product or document. Click the Assign button, then click the Close button. To remove a work product or document assignment from an activity or WBS element, select the item in the Assignments tab, then click Remove.

To change the sort order of any column, click the column labels.

Mark to indicate the item is a work product.
Checking Methodologies In and Out of the Module

In this chapter:

Managing Remote Methodologies
Checking Out Methodologies
Checking In Methodologies

The Check-In/Check-Out feature enables you to keep track of methodologies that have been checked out for use at other locations. Until the methodologies are checked back in to the module, other users cannot change activity, resource, and other information for the methodologies.

This chapter describes how to check methodologies in and out of the module.
Managing Remote Methodologies

Check methodologies out of the module to work on them at remote locations. When a methodology is checked out, it cannot be modified in the module until it is checked back in.

You can check methodologies out in Primavera proprietary format (XER), which enables you to use activity, cost, resource, and other types of methodology information with other Methodology Management installations, regardless of the database being used (Oracle, or Microsoft SQL Server, including SQL Server Express).

**Track check-in/check-out status** You can easily determine whether a methodology has been checked out of the module. Choose Methodology, Methodology Properties.

### Checking Out Methodologies

The Check-Out wizard guides you through the steps for checking out a methodology. Before you start the wizard, open the methodology that you want to check out. Note that you can only check out one methodology at a time.

**Check out methodologies** Choose File, Check Out. Specify the name of the file and location where it will be saved, then click Finish.
Checking In Methodologies

A methodology previously checked out of a Methodology Management module database can be checked back in to any Methodology Management installation. Before you start the wizard, open the methodology that has been checked out.

**Check in a methodology**  Choose File, Check In. Click the Browse button. Select the methodology file, then click Next.

**Choose update methodology options**  Select a layout configuration to use when importing methodology data. The options specified in the layout configuration determine how the module handles data in the import file that match data in the database. You can create and save several different configurations; however, only one configuration can be used to check in the file. Select Yes in the Use field next to the configuration you want to use.

**Modify a layout configuration**  To modify the options specified in a layout configuration, select the layout name in the Update Methodology Options dialog box, then click Modify.
The Modify Import Configuration dialog box lists the data types for which you can set options. Mark the Delete checkbox next to a type to remove data that exist in the methodology being updated but not in the file being checked in. For example, if risks are defined in the methodology being updated, but are not included in the file being checked in, mark the checkbox in the Delete column to remove the risks from the methodology being updated. Select one of the following in the Action field to indicate how the data type is updated:

- **Keep Existing** - Retains data in the existing methodology and does not overwrite them with the updated data; adds new data if the record does not exist.
- **Update Existing** - Overwrites data in the existing methodology with updated data; adds new data if the record does not exist.
- **Insert New** - Retains data in the existing methodology and adds any new data items. For example, if a new role was added to the data, but you don’t want to change the existing roles, choose Insert New to add the new role to the existing methodology.
- **Do Not Import** - Retains data in the existing methodology and does not import the updated data.

Click OK to save changes to the layout configuration. Click Next.
Transferring Methodology Data

Methodology data can be transferred between Project Management module users by exporting and importing XER files (Primavera proprietary exchange format). This chapter describes how to use the Export and Import wizards in the Methodology Management module to transfer methodologies between Methodology Management module users, export methodologies to the Project Management module as project plans, and import a project from the Project Management module as a new methodology.

In this chapter:

Exporting Methodologies
Exporting Roles or Resources
Importing Methodologies
Importing Projects as Methodologies
Importing Roles or Resources
Exporting Methodologies

Methodologies can be transferred from the Methodology Management module as XER files, Oracle Primavera’s proprietary exchange format, and used with any other Methodology Management installation, regardless of the database type on which it runs.

Use the Export wizard to export methodologies to XER files. Use the Import wizard to bring XER files into the MM module.

Although the wizards quickly can back up and restore one or more methodologies, they should not be used to back up your entire database.

Select export type and methodology In the Methodology Management module, open the methodology that you want to export. Choose File, Export. Choose Methodology, then click Next.

Specify filename and location. Type a name for the XER file. To specify a different location to store the file, click the Browse button. If you do not specify a folder, the file is stored in the My Documents folder of the current user. Click Finish to export the methodology to a single file with an XER extension.
Exporting Roles or Resources

The MM module enables you to export roles or resources in your enterprise resource hierarchy to XER files. You may want to choose this option to include existing roles or resources in a new database.

**Export roles or resource data** In the Methodology Management module, choose File, Export. In the Export Type dialog box, choose Resource Only to export resource data, or Role Only to export role data, then click Next.

Type a name for the XER file. To specify a different location to store the file, click the Browse button. If you do not specify a folder, the file is stored in the My Documents folder of the current user. Click Finish to export the roles or resources to a single file with an XER extension.
Importing Methodologies

Methodologies can be transferred from the Methodology Management module as XER files, Primavera’s proprietary exchange format, and used with any other Methodology Management installation, regardless of the database type on which it runs.

Use the Export wizard to export projects to XER files. Use the Import wizard to bring XER files into the Methodology Management module. The wizards quickly can back up and restore one or more methodologies.

Select import type and file  In the Methodology Management module, choose File, Import. Choose Methodology, then click Next and choose Methodology.

Select the action to take with the imported data  If you have a methodology open when you import, you are prompted to choose an action. Choose one of the following actions, then click Next:

- **Create a New Methodology** The existing methodology’s data remains the same. A new methodology is created. This action is performed automatically if no methodology is open when you import.

- **Add into the Current Methodology** You can merge the methodology you are importing within an existing methodology. Click Next, then select a specific WBS level within the methodology. The imported methodology is appended to the selected WBS.

- **Replace the Current Methodology** The existing methodology is deleted and replaced with the one imported from the XER file.
Choose update methodology options  Click Next to select a layout configuration to use when importing methodologies. The options specified in the layout determine how the Methodology Management module handles data in the import file that matches data in the database. You can create and save several different configurations; however, only one configuration can be used to import the file. Select Yes in the Use field next to the configuration you want to use.

Modify a layout configuration  The options specified in a layout configuration determine how data is updated when methodologies are imported. To modify these options, select the layout in the Update Methodology Options dialog box, then click Modify.
The Modify Import Configuration dialog box lists the data types for which you can set options. Mark the Delete checkbox next to a data item to remove data that exists in the methodology you are updating, but is not included in the file you are importing. For example, if several activities are defined in the methodology you are updating, but are not included in the file to be imported, mark the checkbox in the Delete column to remove the activities from the methodology being updated.

The Delete field applies only to activities, activity cores, and risks. Global data types are not affected by this setting.

Select one of the following in the Action field to indicate how the data type is updated:

- **Keep Existing** Retains data in the existing methodology and does not overwrite it with the updated data; adds new data if the record does not exist.

- **Update Existing** Overwrites data in the existing methodology with data; adds new data if the record does not exist.

- **Insert New** Retains data in the existing methodology and adds any new data items. For example, if a new role was added in the XER file, but you do not want to change the existing roles, choose Insert New to add the new role to the existing methodology.

- **Do Not Import** Retains data in the existing methodology and does not import the updated data.

Click OK to save changes to the modified configuration. Click Next.

**Select a currency** If the import file does not specify a currency, or if the currency does not match a currency defined in the Methodology Management module, the Currency Type dialog box appears. Click the Browse button to select a currency that matches the one found in the import file. If your currency is not listed, cancel the Import wizard and add the currency in the Currencies dialog box (Admin, Currencies).

You will not see this dialog box if the import currency is the same as the base currency.

Click Next, then click Finish to import the methodology.
Transferring Methodology Data

For more information on exporting project data, see the Project Management Module User Guide.

Project data can be transferred from the Project Management module as XER files (Primavera proprietary exchange format) and imported as a methodology. You can capture the best practices of a successful project by importing the project as a methodology. Use the Export wizard in the Project Management module to export projects to XER files; use the Import wizard in the Methodology Management module to bring XER files in as methodologies.

To import a project as a methodology, the XER file must contain only the project you are importing. XER files exported from Project Management 5.0 and subsequent versions can be imported into the P6 Methodology Management module.

Select import type and file  In the Methodology Management module, choose File, Import. Choose Project, then click Next.

Choose Project as the import type, then click Next.

The data in the import file must match the format being imported. For example, you cannot import a project from an XER file that contains only role or resource data.

Click the Browse button to select the file you want to import. Click Next.
Select action to take with the imported data  If you have a methodology open when you import, choose one of the following actions:

- **Create a New Methodology** The existing methodology’s data remains the same. A new methodology is created. This action is performed automatically if no methodology is open when you import.

- **Add into the Current Methodology** You can merge the methodology you are importing within an existing methodology. Click Next, then select a specific WBS level within the methodology. The imported methodology is appended to the selected WBS.

- **Replace the Current Methodology** The existing methodology is deleted and replaced with the one imported from the XER file.

Select the source data for estimates  You use either the actual effort and cost data from the project or the project’s planned data as the basis of the methodology’s effort and cost estimates.
Choose update project options  Click Next to select a layout configuration to use when importing project data. The options specified in the layout determine how the Methodology Management module handles data in the import file that matches data in the database. You can create and save several different configurations; however, only one configuration can be used to import the file. Select Yes in the Use field next to the configuration you want to use.

Modify a layout configuration  The options specified in a layout configuration determine how data is updated when projects are imported. To modify these options, select the layout in the Update Project Options dialog box, then click Modify.

The Modify Import Configuration dialog box lists the data types for which you can set options. Mark the Delete checkbox next to a data item to remove data that exists in the methodology you are updating, but is not included in the file you are importing. For example, if several activities are defined in the methodology you are updating, but are not included in the file to be imported, mark the checkbox in the Delete column to remove the activities from the methodology being updated.
The Delete field applies only to activities, activity cores, and risks. Global data types are not affected by this setting.

Select one of the following in the Action field to indicate how the data type is updated:

- **Keep Existing** Retains data in the existing methodology and does not overwrite it with the updated data; adds new data if the record does not exist.

- **Update Existing** Overwrites data in the existing methodology with updated data; adds new data if the record does not exist.

- **Insert New** Retains data in the existing methodology and adds any new data items. For example, if a new role was added in the XER file, but you don’t want to change the existing roles, choose Insert New to add the new role to the existing methodology.

- **Do Not Import** Retains data in the existing methodology and does not import the updated data.

Click OK to save changes to the modified layout configuration. Click Next.

**Select a currency** If the import file does not specify a currency, or if the currency does not match a currency defined in the Methodology Management module, the Currency Type dialog box appears. Click the Browse button to select a currency that matches the one found in the import file. If your currency is not listed, cancel the Import wizard and add the currency in the Currencies dialog box (Admin, Currencies).

You will not see this dialog box if the import currency is the same as the base currency.

Click Next, then click Finish to import the project.
Importing Roles or Resources

XER files exported from Project Management 5.0 and subsequent versions can be imported into the P6 Methodology Management module.

The Methodology Management module enables you to import XER files that contain only roles or resources. You may want to choose this option to add new roles/resources to the enterprise resource hierarchy or overwrite the existing role/resource hierarchy. Roles and resources are defined at the global level.

Select import type and file In the Methodology Management module, choose File, Import. Choose Resource Only to import resource data, or Role Only to import role data, then click Next.

Choose Resource Only or Role Only, then click Next.

The data in the import file must match the format being imported. For example, you cannot import resource data from an XER file that contains project data.

Choose update role or resource options Click Next to select a layout configuration to use when importing role or resource data. The options specified in the layout determine how the software handles role or resource data in the import file that matches data in the database. You can create and save several different configurations; however, only one configuration can be used to import the file. Select Yes in the Use field next to the configuration you want to use.
Modify a layout configuration  The options specified in a layout configuration determine how data is updated when roles/resources are imported. To modify these options, select the layout in the Update Role/Resource Options dialog box, then click Modify. The Modify Import Configuration dialog box lists the data types for which you can set options. The Delete field does not affect the import of resources or roles. This field applies only to activities, risks, and activity cores.

Select one of the following in the Action field to indicate how the roles or resources are updated:

- **Keep Existing** Retains roles/resources in the global dictionary and does not overwrite them with the updated data; adds new data if the record does not exist.
- **Update Existing** Overwrites roles/resources in the global dictionary with updated data; adds new data if the record does not exist.
- **Insert New** Retains existing roles/resources in the global dictionary and adds any new roles/resources.

**Resource role assignments are not included when exporting only roles. To maintain the resource role assignments when selecting Insert New, resource data must be exported/imported.**

- **Do Not Import** Retains roles/resources in the existing global dictionary and does not import the updated data.

Click OK to save changes to the modified configuration. Click Next.

Select a currency  If the import file does not specify a currency, or if the currency does not match a currency defined in the Methodology Management module, the Currency Type dialog box appears. Click the Browse button to select a currency that matches the one found in the import file. If your currency is not listed, cancel the Import wizard and add the currency in the Currencies dialog box (Admin, Currencies).

**You will not see this dialog box if the import currency is the same as the base currency.**

Click Next, then click Finish to import the roles/resources.
Customizing Methodologies

In this part

- Working with Layouts
- Grouping, Sorting, and Filtering
- Customizing Layouts
- Customizing Reports
- Printing Layouts and Reports
Read this part to learn how to customize your desktop and create layouts that show you the data you need to manage your methodologies.

“Working with Layouts” describes the types of layouts you can create and explains how to add, open, and save layouts. It also describes how to import and export layouts to share with other users. Read “Grouping, Sorting, and Filtering” to learn how to organize the data displayed in layouts to focus immediately on the information you need to see.

“Customizing Layouts” shows you how to change the look and content of layouts by modifying columns, customizing Activity Network boxes, and editing fonts and colors. “Customizing Reports” discusses how to create reports and assign them to report groups. The last chapter in this part, “Printing Layouts and Reports”, describes how to preview and print layouts and reports, and save layouts and reports as HTML files.
Working with Layouts

In this chapter:

- Layout Examples
- Creating, Opening, and Saving Layouts
- Exporting and Importing Layouts

Use the module to create layouts that display the data you want to see, in the format you need to see them. You can customize the top and bottom areas of the layout to include tables, Activity Network diagrams, and Activity Details. Once you are satisfied with your layout, you can save it so you or other team members can use it again.

This chapter describes the different layout types and explains how to create, open, save, export, and import layouts.
Layout Examples

You can open the following types of activity layouts: Activity Tables, Activity Networks, Activity Details, and Trace Logic. Split the Activities window into top and bottom panes to display different types of layouts at the same time. For example, show an Activity Table in the top pane and Trace Logic in the bottom pane.

Click the Layout Options bar to display a menu of options that you can use to customize the top and bottom panes of the Activities window.

Click Show on Top and Show on Bottom to select the layout type displayed in each area of the Activities window.

Activity Table
Displays activity information in spreadsheet format. Use this type of layout to quickly update a methodology.

Click the Show/Hide Bottom Layout button to display the top layout in an expanded view.

You can use filters and data grouping to see only those activities that occur in your current status cycle.
Activity Network
Provides a graphical display of activities, including logical relationships. The Activity Network can be displayed in the top layout only. The left side of this example displays the WBS hierarchy, while the right side shows the activity flow in graphical format. Use this layout to change the sequence of activities as your methodology evolves.

To quickly zoom in on an Activity Network box, hold down the Alt key, then click and drag in the Activity Network section.

Activity Details
Display and enable you to modify detailed information for an activity you select in either the Activity Table or the Activity Network. This type of layout can be displayed in the bottom layout only. Use this layout type to add and update activities.

To show or hide any of the Detail tabs, right-click on a tab title and choose Edit Activity Detail Tabs.
156  Part 4: Customizing Methodologies

Oracle Primavera P6 - Methodology Management

Activity Trace Logic
View a graphical display of the selected activity's relationships. A line connecting activity boxes indicates an activity relationship.

To quickly zoom in on a box, hold down the Alt key, then drag in the Trace Logic layout.
Creating, Opening, and Saving Layouts

Once you create a layout, you can save it and use it again at other stages of the methodology or with different methodologies. Make layouts available to all users (global) or to a specific user only.

Add a new layout  Customize the top and bottom layouts to create a new layout, then save the layout using a name you specify. Click the Layout Options bar, then choose Layout, Save As. Type the layout name, then select who will be able to use this layout: All Users, the Current User, or Another User. If you select Another User, click the Browse button in the User field, then select the user’s name. (If you save a layout and specify a user other than yourself, you will no longer be able to access the layout.) Click Save.

Open a layout  Click the Layout Options bar, then choose Layout, Open. Select the layout you want to open, then click Open. To preview the layout without closing the Open Layout dialog box, click Apply.

Save changes to a layout  Click the Layout Options bar, then choose Layout, Save. To save a copy of the layout using a different name, choose Layout, Save As. Type a name for the layout copy, then click Save.

Save an Activity Network layout  You can save an Activity Network layout as an.ANP file, to use later or e-mail to another project user. To save an Activity Network layout, click the Layout Options bar, then choose Activity Network, Save Network Positions.
Open a saved Activity Network layout

Click the Layout Options bar, then choose Activity Network, Open Network Positions. Browse to the folder where the saved layout file is located. Select this file and click Open.

Type a unique name to identify the layout, then click Save.
Exporting and Importing Layouts

If you want to share a layout with other users, export it to a central location from which they can import the layout to use with their own methodologies.

**Export a layout**  Click the Layout Options bar, then choose Layout, Open. Click the name of the layout you want to export, then click Export. Specify a name and location for the export file, then click Save.

**Import a layout**  Click the Layout Options bar, then choose Layout, Open. Click Import, then select the location of the layout file you want to import. (Primavera layout files have a .PLF extension.) Click Open. To make the layout available to all users, click Yes when prompted.

*To overwrite the current layout with your changes, click the Layout Options bar and choose Layout, Save.*
Grouping, Sorting, and Filtering

The module provides extensive grouping, sorting, and filtering capabilities so you can view a methodology from many different perspectives.

Grouping organizes activities into categories that share a common attribute. For example, focus on activities by resource, responsibility, or durations. Sorting arranges activities or resources in any order you select, such as by labor cost.

Use filters to narrow your selection to a specific data group. The module provides several filters which you can use or modify; you can also add new filters.

Read this chapter to learn how to group, sort, and filter data in your methodologies.
Grouping Data

Group to organize information in categories that share a common attribute, such as work breakdown structure (WBS), code value, or resource. You can customize group criteria when you are working with activities and resources. Group by simple, one-level lists of information, such as durations, costs, and other numeric data. You can also group by multiple data items in the same layout. For example, group by activity type, then resources. Each group band can have a unique color and font.

Group criteria can also be arranged in hierarchies of data at multiple levels (up to 20). These items include WBS and activity codes. Choose whether to indent each level in the hierarchy, and specify up to which level to show. If you limit the number of levels, you can group by additional data items.

![This layout is grouped by multiple levels of the WBS.](image)
Customize grouping  In the Activities window, click the Layout Options bar, then choose Group and Sort. You can also click the Display Options bar from the Resources window and then choose Group and Sort By, Customize.

- To display the field name on the grouping band, mark the Show Title checkbox.
- To display the ID or Code value on the grouping band, mark the Show ID/Code checkbox.
- To display the Name or Description on the grouping band, mark the Show Name/Description checkbox.

You must select either Show ID/Code or Show Name/Description.
You can sort grouping bands alphabetically rather than hierarchically. If the Sort Grouping Bands Alphabetically checkbox is not marked, the group bands are sorted by default according to their placement in the hierarchy.

**This sorting option can be applied on a row-by-row basis for each group by row. For example, alphabetically sort the band of the first hierarchical group by row, and hierarchically sort the band of the second hierarchical group by row.**
Sorting Data

Sorting determines the sequence in which the MM module lists activities or resources, depending on the chosen window. You can sort alphabetically, numerically, or chronologically based on the data item you choose. For example, sort by high duration in descending order to see activities estimated to take a longer period of time at the top.

Specify sort order  In the Activities window, click the Layout Options bar, then choose Group and Sort. Click Sort. You can also click the Display Options bar from the Resources window and choose Group and Sort By, Customize, then click Sort.

Sort columns alphabetically  You can sort rows within a column alphabetically by clicking on the column header. The three-way toggle state enables you to sort the column by hierarchy or an ascending or descending alphabetical list.

You can also change sort order with the Sort dialog box. Click Sort in the Group and Sort dialog box.
Filtering Data

Use filters to focus on specific data. A filter is a set of instructions that determines which data are displayed in a layout. You can create a set of filters for activities, or you can use predefined filters. Filters can be user-defined or global. User-defined filters are filters that you define. They are available only to you for all methodologies to which you have access. Global filters are available to all users for all methodologies.

When you apply a filter, you can specify whether to change the current layout to include only those activities that meet the filter criteria, or you can simply highlight the activities that meet the criteria.

Select a filter In the Activities window, click the Layout Options bar, then choose Filters. Mark the checkbox next to each filter.

Displays the name of the filter currently applied to the layout.

Mark to view all activities (and remove all filters).

These predefined filters are available when you are selecting activities in the Activities window.

Choose to display only the activities in the current layout that meet the filter criteria or to simply highlight the activities that meet the criteria.

Oracle Primavera P6 - Methodology Management
You can also customize individual filters when creating reports (using the Report Wizard).

**Create a user-defined filter** In the Activities window, click the Layout Options bar, then choose Filters. Click New. Type a filter name. Click the Parameter cell and select a data item. Double-click the Is cell to select a filtering criteria. Specify a value in the Value field. If the values require a specific entry, you can select from a drop-down list. For example, if filtering by activity type, you must select from a list of the available types.

Click Add to define multiple selection criteria. Specify whether all criteria must be met or at least one criteria.

You can “nest” criteria to create multiple levels of selections. If you specify the topmost parameter as All of the Following, each successive level selects from only the activities that meet the criteria of previous levels. If you specify Any of the Following as the highest parameter, each group of criteria is separated by an “Or.”

**Remove filters** In the Activities window, click the Layout Options bar, then choose Filters. To remove a specific filter, clear the Select checkbox next to that filter. To remove all filters, click All Activities. To preview your changes, click Apply.

**Delete user-defined activity filters** In the Activities window, click the Layout Options bar, then choose Filters. Select the filter you want to delete, then click Delete. You can only delete user-defined filters.
Combining Filters

To create a filter that selects any activity from one selection criteria and any activity from another selection criteria, you must define two separate filters and then combine them when you run the filters. For example, to select any activity belonging to the Engineering group that is not complete, you might create one filter that selects any activity that falls under various WBS levels (specific to the Engineering group), and another filter that selects any activity with remaining labor units greater than zero. To run the filters, choose Activities Must Meet All of the Selected Filters and mark the checkboxes for the two filters on the Filters dialog box.
This chapter describes how to customize layout columns and specify the look of Activity Network boxes to help you analyze methodology activities. You will also learn how to customize activity layouts.
Modifying Columns

You can also customize the columns displayed in most windows, such as Resources, WBS, and Expenses.

You can customize the appearance and content of the tables and spreadsheets in the Activities window. Choose which columns you want to include; change the column widths, the order in which columns are displayed, and the row height; specify column fonts and colors; edit column titles; and copy column formats from other layouts.

Add or remove columns In the Activity Table, click the Layout Options bar, then choose Columns.

Copy column format from another layout In the Columns dialog box, click the Copy From button. Select the layout and click Open.
Edit column titles  In the Available Options or Selected Options area of the Columns dialog box, select the column name you want to change. Click Edit Title. Type the new name, then specify the maximum number of characters for the column width. Choose how the title will be aligned.

Change column fonts, colors, and row height  In the Activities window, click the Layout Options bar, then choose Table Font and Row. Click the Font button to change a font. To change a color, click the Color button.

You can also specify the height for rows:

- The Keep Current Row Heights option enables you to retain all custom row heights manually set in the layout during your current user session.
- Clear the Keep Current Row Heights checkbox to automatically size each row based on cell content, font size, and column width or to specify a height for all rows in the layout. If you choose to Optimize Height by Row Content, you can set a value to limit the amount of lines per row that are automatically adjusted during text wrapping.
Formatting Activity Network Layouts

The Activity Network layout displays a methodology as a diagram of activities and relationships, according to the work breakdown structure (WBS). You can control nearly every aspect of the Activity Network, including the appearance of activities, the contents of activity boxes, and the spacing between activities.

You can use an Activity Network layout to

- Easily view relationships among activities and the flow of work through a methodology
- Examine and edit an activity and its predecessors and successors
- Focus on the driving relationship path

An Activity Network box visually represents a methodology activity. When customizing boxes, you can specify particular fonts and colors, set spacing and positioning, and copy styles from another layout.

**Choose an Activity Network box template** With an Activity Network layout displayed in the Activities window, click the Layout Options bar, then choose Activity Network, Activity Network Options. Click the Activity Box Template tab.
Customize an Activity Network box template  You can use one of the predefined activity box templates, or customize your own. With an Activity Network layout displayed in the Activities window, click the Layout Options bar, then choose Activity Network, Activity Network Options. Click the Activity Box Template tab. From the drop-down list, select a template that is similar to the one you want to create, then click Box Template. You can add rows for inserting new fields and determine the height and width of the field cells within the activity box.
Customize the Activity Network layout  With an Activity Network layout displayed in the Activities window, click the Layout Options bar, then choose Activity Network, Activity Network Options. Click the Activity Network Layout tab.

When an activity’s predecessor/successor is not immediately adjacent to its activity in the Activity Network, the relationship line may not be visible because of other activity boxes. To reposition activity boxes so that all relationship lines are visible, mark the Adjust to Show All Relationships checkbox. To automatically determine the view that best shows all activity boxes in the layout after you have reorganized it, mark the Always Zoom to Best Fit After Reorganize checkbox.

To change the amount of vertical space between activity boxes in the Activity Network, specify a spacing factor that is a percentage of the height of activity boxes in the Activity Network table. To change the horizontal space between activity boxes in the Activity Network, specify a horizontal spacing factor that is a percentage of the width of activity boxes in the Activity Network table.

Copy from another Activity Network layout  With an Activity Network layout displayed in the Activities window, click the Layout Options bar, then choose Activity Network, Activity Network Options. Click Copy From. Select the Activity Network layout whose attributes you want to copy. Click Open.

In the Activity Network, when you select a data item for grouping, the hierarchy on the left side of the window contains the WBS so you can filter activities according to the hierarchy.
Customizing Reports

In this chapter:

- Reports Overview
- Opening Reports
- Creating and Modifying Reports
- Using Report Groups

Reporting is a key part of monitoring a project and communicating its progress to team members and executive management. This chapter discusses how to open standard reports, create new reports, and modify existing reports. It also describes how you can organize reports in hierarchical groups.

Refer to “Printing Layouts and Reports” on page 181 for instructions on setting page and print options, previewing and printing layouts and reports, and publishing layouts and reports in HTML format.
Reports Overview

You can create new reports, or modify existing ones, using the Report Wizard or Report Editor. The module provides you with a large library of standard reports. The Report Wizard allows you to create a wide variety of complex reports very rapidly using a wizard-style interface. You can also use the wizard to modify reports created using the wizard.

The Report Editor is a “what-you-see-is-what-you-get” (WYSIWYG) report writer that allows you to group, sort, filter, and roll up methodology information. You can also display time distributions for units and costs, and include graphics and HTML links in reports.

After you create a report, you can preview, print, or save it to a text or HTML file. If you save a report to a file, you can import the data to a spreadsheet program, e-mail the report, publish the report on a Web site, and/or archive the report.

Opening Reports

Use the Reports window to create, edit, run, and delete global and methodology reports. You can also use the Reports window to export and import reports to and from other applications.

Open the Reports window  Choose Tools, Reports.
Creating and Modifying Reports

You can create and modify reports using the Report Wizard or Report Editor. The Report Wizard quickly steps you through creating ad-hoc reports and enables you to group, sort, and filter the data.

To include a new report in a particular report group, select the report group in the Reports window before you start the wizard. When you finish creating the report, it will be saved in the selected report group.

If a report is modified using the Report Editor and you decide to change it again using the Report Wizard, the changes made in the Report Editor will be lost.

Create a report with the Report Wizard  Choose Tools, Report Wizard, and follow the prompts. When you are finished defining the report parameters, click Finish.

The subject area selected here... determines the additional subject areas available for the report.
### Modify a report

You can modify reports using the Report Wizard and the Report Editor. In the Reports window, select the name of the report you want to modify. To use the wizard, click the Wizard button. To use the Report Editor, click the Modify button.
Using Report Groups

Report groups are a hierarchical way to organize reports. Each report can belong to one report group. The module provides standard groups for organizing your reports.

Report groups are added and deleted in the Admin Categories dialog box. See Primavera’s Administrator’s Guide for more information.

1 Select the report.
2 Click the Browse button in the Report Group field.
3 Select a new report group.
Printing layouts and reports for distribution is an effective way to communicate project data. This chapter discusses how to define page settings (such as page orientation, margins, and header/footer settings), preview layouts/reports, and print them (including how to convert them to Web reports).

In this chapter:

- Defining Page Settings
- Previewing Layouts and Reports
- Printing Layouts and Reports
- Publishing Layouts and Reports in HTML Format
Defining Page Settings

The module provides a number of options for customizing printed layouts and reports. For example, you can customize header and footer settings and change margins for the printed page.

**Define page settings** From the Print Preview window, click the Page Setup button. Click the Page tab to set orientation, scaling, and paper size.

Portrait orientation prints vertically on the page; landscape orientation prints horizontally on the page.

To adjust the scale of the printed layout/report, specify a percentage in the Adjust To field, or a fixed number of pages to be printed horizontally and vertically, choose Fit to, then specify a value in the Pages Wide by Tall field.

**Set page margins** Click the Margins tab, then specify the values for each margin.

If you change the report page setup from the Print Preview dialog box, the changes will be applied only to the current printing. To save changes to the report page setup permanently, make the changes from the Properties palette in the Report Editor.
Add headers and footers  You can customize the header and footer. You can also insert a graphic, such as your company logo, in the header or footer. Click the Header or Footer tab.

In the Define Header/Footer section, define the values you want to insert in the header or footer. Choose Text/Logo to add text variables or a logo. Choose Picture to select an image to display in the selected section. Choose Revision Box to allow space in the header/footer to be able to enter dates, approvals, and revision information.

Add a logo to a header or footer  Click the Header or Footer tab, in the Define header/footer section, choose Text/Logo for the selected section. In the Add Text section, click the Picture tool button. Click the Browse button in the Picture dialog box to select a filename. Click Open. Specify the layout and spacing options and click OK. The logo image is displayed in the Header or Footer Sample area.
Specify layout options  Use the Options tab to select whether to include icons and grid lines in the printed layout.

Mark this checkbox if you want each group printed on its own page. For example, you may want to group activities by resource and distribute a printout to each individual.

The Options tab is not available when printing reports or with the Activity Network layout.
Previewing Layouts and Reports

The Print Preview option enables you to review a layout or report before sending it to a printer.

**Open Print Preview** To preview a layout, display the layout in the Activities window, then choose File, Print Preview. To preview a report, in the Reports window, select the report you want to preview, then click Run Report. Choose Print Preview, then click OK.

As you move your mouse over the Print Preview window, the mouse pointer changes to a magnifying glass. Click the Zoom In button in the toolbar to zoom in on details and the Zoom Out button to zoom back out.
Printing Layouts and Reports

The module provides several ways to print layouts and reports—you can send them directly to a printer or create an HTML file, or you can print to an ASCII text file (reports only).

**Print a layout**  To send a layout directly to your printer, open the layout you want to print, then choose File, Print. You can also click the Print button from the Print Preview window.

**Print a report**  From the Reports window, select the name of the report you want to print. Click Run Report.

---

1. Select the destination for the report. For an ASCII text file, you can also specify the character to use to separate fields and text.

2. For HTML and ASCII files, specify a name and location for the saved file.

3. Click to run the report.

---

You can also publish a report to an HTML file through Print Preview. For more information, see “Publishing Layouts and Reports in HTML Format” on page 187.

**Select a Printer**  You can select a printer, other than the current default for the operating system, to print your layouts and reports. The printer settings will remain the same until you log out of the module. Choose, File, Print Setup.

---

Click to adjust the features and settings provided by the selected printer.
Publishing Layouts and Reports in HTML Format

Use Print Preview to publish layouts and reports as HTML files and post them to a Web site to share with other project team members.

1. Click the Publish button.
2. Select the drive.
3. Type a name for the file.
4. Click Save.
5. The layout/report opens in your Web Browser.
Index

A

Accrual types 119, 124
Activities
adding
  expenses to 119
  in Activity Network 98
  in Activity Table 98
  steps 110
assigning
  notebook topics 109
  resources 106
  resources by role 106
  roles 106
  WBS element to 101
  work products and documents to 119
attributes 105
  codes 105
  core reuse 47, 105
  creating attributes 117
  defining general information for 99
displaying
  Activity Details for assignments 105
  general information about 99
IDs 49
  increment for auto-numbering 49
level of effort 99
milestone 99
notebook topics 105
overview 96
prefix for IDs 49
resource dependent 99
resources 105
step templates
  assigning to activities 114
  creating 112
  steps 105

 converting to template 113
 suffix for IDs 49
 task dependent 99
types of 99
viewing 97, 99
  list of methodologies that reuse 118
  roles for 86
WBS summary type 100
work products and documents 105
Activity code values
  assigning to activities 117
  creating global 116
Activity codes
  assigning to activities 117
  creating global 116
Activity Details 23, 155, 156
  modifying tabs 105
Activity library 18
Activity Network 23, 155
  box template
    choosing 172
    customizing 173
  copying from another layout 174
  formatting layout 172, 174
  opening a saved layout 158
  saving 157
Activity step templates
  assigning to activities 114
  creating 112
Activity Table 23, 154
API 10
Attributes
  assigning to activities 117
  creating 117
Available methodology status 45, 48
B
Base methodologies 18
Bottom-up estimation data 52, 55, 107

C
Categories
  expense 123
Check-in/check-out 135
Codes
  resource 83
Columns
  adding 170
  changing
    colors 171
    fonts 171
  row height 171
  copying format from another layout 170
  editing titles 171
  modifying 170
  removing 170
Columns, sorting 165
Core reuse 118
Costs, viewing and editing 50
Currencies
  setting
    view 36
Custom user fields 89

D
Dates, formatting 33
Decimals, showing/hiding 36
Default
  setting startup window 38
Directory bar 22
  displaying 22
Display Options bar 24
Documents, categories 120
Durations
  estimating low and high 101
  types of 100

E
Earned value, calculating using weighted WBS milestones 60, 65, 66
Estimation factors 52
Estimations
  bottom-up 52, 55, 107
  low and high
    for labor resources 101
    for nonlabor resources 101
    number of workperiods 101
  weights 63
Exclusive access 45
Expense Details 123
Expenses
  accrual types 124
  adding 122, 123
to activities 119
  assigning
    activities to 124
categories 119, 123
categories 123
  copying 123
defining
  details 123
description 124
general information 123
  grouping 123
Export
  format
    XER 140
  layout 159
  methodologies, XER format 140
  resources 141
  roles 141
Exposure values, calculating 127

F
Filtering 166
Filters
  combining 168
  creating user-defined 167
deleting user-defined 167
global 166
  nesting criteria 167
  project status 45
  removing 167
  selecting 166
Finish milestone 99
Finish to finish relationship 102
Finish to start relationship 102

G
Global filters 166
Grid lines, including in printed layout 184
Grouping 162
  by hierarchical item 163
  customizing 163
  using interval 163

H
Headers and footers, adding 183
Hierarchies
   OBS  68, 74
   roles  85
Hierarchy view  61, 130
HTML, publishing to  187

I
Icons, including in printed layout  184
Import
   format
      XER  142
   layouts  159
   methodologies, XER files  142
   projects
      as methodologies  145
   resources  149
   roles  149

L
Labor units  101
Lag time  102
Language, selecting  20
Layout Options bar  24
Layouts  153
   Activity Details  155, 156
   Activity Network  98, 103, 155
   Activity Table  98, 154
   adding  157
      headers and footers  183
   customizing  127, 169
   defining page settings  182
   exporting  159
   HTML format  187
   importing  159
   opening  157
   previewing  185
   printing  181
   saving  157
   Trace Logic  104
   types  154
Level of effort activities  99
Library, activity  18
Linking methodologies  43
Links, viewing  50
List view  61, 130
Log file, creating for Methodology Management
   tasks  38
Logo, adding to a header or footer  183

M
Margins, setting  182
Menu bar  21
Methodologies
   activity library  18
   base  18
   check-in  135
   checking integrity  46
   check-out  135
   codes  57
      adding values to  58
      assigning values  48
      chart  58
      defining  57
      copying  46
      creating  44
      from projects  44
      defining properties  48
      deleting  47
      expenses  121
      exporting, XER format  140
      importing
         from projects  145
         XER files  142
      linking  43
      links  50
         creating  51
         deleting  52
      opening  45
      plug-in  18
      status  48
      transferring to other Project Management module
         users  139, 150
Methodology Management module
   changing password  39
   creating log file  38
   documentation  11
   layouts  23
   logging in  19
   online help  11
   overview  9, 17, 18
   setting
      assistance options  37
      startup options  38
   starting  19
Milestone activities  99
Milestones, WBS  65
Multiple items, selecting  21

N
Navigation bar  21
   displaying  22
Nonlabor units  101
Notebook topics
assigning to activities 109
to WBS elements 64
Notes, entering for resources 82

O
OBS
adding elements 71, 72
assigning elements to WBS elements 73
creating 71
deleting elements 74
editing elements 74
hierarchy 74
overview 68
root element 71
viewing 69
chart 69
table 70
Organizational breakdown structure. See OBS.

P
P6 Web Access, overview 9
Page settings, defining 182
Password, changing 39
Percent complete
calculating using weighted steps 111
physical 111
types 101
Performance percent complete, calculating using weighted WBS milestones 60, 65, 66
Plug-in methodologies 18
Predecessor relationship 103
Prefix, setting for activity IDs 49
Preview
layouts 185
reports 185
Price/time
for activities without resources 50
Price/unit
setting 80
Primary roles 88
Primavera Progress Reporter
  overtime hours, recording 80
Primavera Progress Reporter, overview 9
Primavera proprietary format 136
Print Preview 185
Printing
defining page settings 182
Project Architect 52, 56
Project Management module
  overview 8
Projects
access rights to 68
setting
duration 32
time units 32
status 45
using to create methodologies 44
Properties, methodology 48

R
Relationships
assigning using Activity Details 103
creating in Activity Network 103
defining lag time 102
deleting 103
establishing 102
modifying 103
types and lag 102
Reports
adding
  headers and footers 183
creating with Report Wizard 177
customizing 175
defining page settings 182
editor 176
global
  variables, adding 183
groups 179
HTML format 187
modifying 178
opening 176
overview 176
previewing 185
printing 181
viewing user-defined fields 92
wizard 176
Resource assignments
calculating the units, duration, and units/time based on activity duration type 35
choosing defaults for 35
preserving the units, duration, and units/time for 35
Resource dependent activities 99
Resource Details 80, 88
Resources
adding 78
code values 84
codes 83
general information 79
assigning
code values 84
to activities 106
to activities by role 106
availability, or standard rate 80
customizing columns in Activity Details 106
defining 75
entering notes 82
exporting 141
importing 149
labor classification 80
overview 76
price/unit 80
replacing assignments 106
units/time 80
viewing 77
Responsible manager, WBS 64
Risk Details 126
Risks 125
adding 126
to activities 106
to resources from Resource Details 88
to resources from Roles dialog box 88
defining 75
exporting 141
importing 149
overview 76
primary 88
setting proficiency 88
viewing 85
for specific activity 86
for specific resource 86
Status
check-in/check-out 136
methodology 45, 48
Step
assigning templates to activities 114
converting to template 113
creating step templates manually 112
Steps
adding to activities 110
adding user-defined fields 111
using user-defined fields on 110
Successor relationship 103
Suffix, setting for activity IDs 49
Symbols, showing/ hiding 36
Tabs, modifying Activity Details 105
Task dependent activities 99
Time
formatting 32
Toolbar 21
Top-down estimation data 63
Trace Logic 23, 104
Unavailable methodology status 45, 48
Unit of Measure, specifying for expense 119
Units/time
formatting 32
maximum 80
setting default 80
User fields
adding to steps 111
User preferences, setting 31
User-defined fields 89
reports, viewing in 92
Vendor, specifying for expense 119
Views, switching between hierarchy and list 25
WBS
adding elements 64
milestones 66
assigning element to activity 101
notebook topics to elements 64
OBS elements to 73
work products and documents 65
chart, viewing and modifying 61
deleting elements 62
ing general information 64
establishing 59
milestones 65
overview 60
responsible manager 64
viewing 61
WBS Details 64
WBS summary activities 100
Weight, activity steps 110
Wizards
implementing 37
navigating 26
new activity 37
new methodology 44
new resource 37, 78
Project Architect 52, 56
report 176, 177
setting options 25
using 26
Work breakdown structure. See WBS.
Work Product and Document Details 131
Work products and documents 129
adding 131
assigning
from Work Products and Documents
window 134
to activities 119
to WBS elements 65
deleting records 132
entering
descriptions 132
location references 133
opening 133
viewing records 130
Workspace, overview 21

X
XER files
exporting
methodologies 140
resources 141
roles 141
importing
methodologies 142
projects as methodologies 145
resources 149
roles 149
XER files, format 136