
Enterprise PeopleTools 8.49 PeopleBook: PeopleSoft Tree Manager

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Enterprise PeopleTools 8.49 PeopleBook: PeopleSoft Tree Manager
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About This PeopleBook

PeopleSoft Enterprise PeopleBooks provide you with the information that you need to implement and use PeopleSoft Enterprise applications from Oracle.

This preface discusses:

- PeopleSoft Enterprise application prerequisites.
- Application fundamentals.
- Documentation updates and printed documentation.
- Additional resources.
- Typographical conventions and visual cues.
- Comments and suggestions.
- Common elements in PeopleBooks.

Note. PeopleBooks document only elements, such as fields and check boxes, that require additional explanation. If an element is not documented with the process or task in which it is used, then either it requires no additional explanation or it is documented with common elements for the section, chapter, PeopleBook, or product line. Elements that are common to all PeopleSoft Enterprise applications are defined in this preface.

PeopleSoft Enterprise Application Prerequisites

To benefit fully from the information that is covered in these books, you should have a basic understanding of how to use PeopleSoft Enterprise applications.

You might also want to complete at least one introductory training course, if applicable.

You should be familiar with navigating the system and adding, updating, and deleting information by using PeopleSoft Enterprise menus, pages, or windows. You should also be comfortable using the World Wide Web and the Microsoft Windows or Windows NT graphical user interface.

These books do not review navigation and other basics. They present the information that you need to use the system and implement your PeopleSoft Enterprise applications most effectively.

Application Fundamentals

Each application PeopleBook provides implementation and processing information for your PeopleSoft Enterprise applications.

For some applications, additional, essential information describing the setup and design of your system appears in a companion volume of documentation called the application fundamentals PeopleBook. Most product lines have a version of the application fundamentals PeopleBook. The preface of each PeopleBook identifies the application fundamentals PeopleBooks that are associated with that PeopleBook.

The application fundamentals PeopleBook consists of important topics that apply to many or all PeopleSoft Enterprise applications. Whether you are implementing a single application, some combination of applications within the product line, or the entire product line, you should be familiar with the contents of the appropriate application fundamentals PeopleBooks. They provide the starting points for fundamental implementation tasks.

Documentation Updates and Printed Documentation

This section discusses how to:

- Obtain documentation updates.
- Download and order printed documentation.

Obtaining Documentation Updates

You can find updates and additional documentation for this release, as well as previous releases, on Oracle's PeopleSoft Customer Connection website. Through the Documentation section of Oracle's PeopleSoft Customer Connection, you can download files to add to your PeopleBooks Library. You'll find a variety of useful and timely materials, including updates to the full line of PeopleSoft Enterprise documentation that is delivered on your PeopleBooks CD-ROM.

Important! Before you upgrade, you must check Oracle's PeopleSoft Customer Connection for updates to the upgrade instructions. Oracle continually posts updates as the upgrade process is refined.

See Also

Oracle's PeopleSoft Customer Connection, http://www.oracle.com/support/support_peoplesoft.html

Downloading and Ordering Printed Documentation

In addition to the complete line of documentation that is delivered on your PeopleBook CD-ROM, Oracle makes PeopleSoft Enterprise documentation available to you via Oracle's website. You can:

- Download PDF files.
- Order printed, bound volumes.

Downloading PDF Files

You can download PDF versions of PeopleSoft Enterprise documentation online via the Oracle Technology Network. Oracle makes these PDF files available online for each major release shortly after the software is shipped.

See Oracle Technology Network, <http://www.oracle.com/technology/documentation/psftent.html>.

Ordering Printed, Bound Volumes

You can order printed, bound volumes of selected documentation via the Oracle Store.

See Oracle Store, http://oraclestore.oracle.com/OA_HTML/ibeCCtpSctDspRte.jsp?section=14021

Additional Resources

The following resources are located on Oracle's PeopleSoft Customer Connection website:

Resource	Navigation
Application maintenance information	Updates + Fixes
Business process diagrams	Support, Documentation, Business Process Maps
Interactive Services Repository	Support, Documentation, Interactive Services Repository
Hardware and software requirements	Implement, Optimize + Upgrade; Implementation Guide; Implementation Documentation and Software; Hardware and Software Requirements
Installation guides	Implement, Optimize + Upgrade; Implementation Guide; Implementation Documentation and Software; Installation Guides and Notes
Integration information	Implement, Optimize + Upgrade; Implementation Guide; Implementation Documentation and Software; Pre-Built Integrations for PeopleSoft Enterprise and JD Edwards EnterpriseOne Applications
Minimum technical requirements (MTRs)	Implement, Optimize + Upgrade; Implementation Guide; Supported Platforms
Documentation updates	Support, Documentation, Documentation Updates
PeopleBooks support policy	Support, Support Policy
Prerelease notes	Support, Documentation, Documentation Updates, Category, Release Notes
Product release roadmap	Support, Roadmaps + Schedules
Release notes	Support, Documentation, Documentation Updates, Category, Release Notes
Release value proposition	Support, Documentation, Documentation Updates, Category, Release Value Proposition
Statement of direction	Support, Documentation, Documentation Updates, Category, Statement of Direction
Troubleshooting information	Support, Troubleshooting
Upgrade documentation	Support, Documentation, Upgrade Documentation and Scripts

Typographical Conventions and Visual Cues

This section discusses:

- Typographical conventions.
- Visual cues.
- Country, region, and industry identifiers.
- Currency codes.

Typographical Conventions

This table contains the typographical conventions that are used in PeopleBooks:

Typographical Convention or Visual Cue	Description
Bold	Indicates PeopleCode function names, business function names, event names, system function names, method names, language constructs, and PeopleCode reserved words that must be included literally in the function call.
<i>Italics</i>	Indicates field values, emphasis, and PeopleSoft Enterprise or other book-length publication titles. In PeopleCode syntax, italic items are placeholders for arguments that your program must supply. We also use italics when we refer to words as words or letters as letters, as in the following: Enter the letter <i>O</i> .
KEY+KEY	Indicates a key combination action. For example, a plus sign (+) between keys means that you must hold down the first key while you press the second key. For ALT+W, hold down the ALT key while you press the W key.
Monospace font	Indicates a PeopleCode program or other code example.
“ ” (quotation marks)	Indicate chapter titles in cross-references and words that are used differently from their intended meanings.
. . . (ellipses)	Indicate that the preceding item or series can be repeated any number of times in PeopleCode syntax.
{ } (curly braces)	Indicate a choice between two options in PeopleCode syntax. Options are separated by a pipe ().

Typographical Convention or Visual Cue	Description
[] (square brackets)	Indicate optional items in PeopleCode syntax.
& (ampersand)	When placed before a parameter in PeopleCode syntax, an ampersand indicates that the parameter is an already instantiated object. Ampersands also precede all PeopleCode variables.

Visual Cues

PeopleBooks contain the following visual cues.

Notes

Notes indicate information that you should pay particular attention to as you work with the PeopleSoft Enterprise system.

Note. Example of a note.

If the note is preceded by *Important!*, the note is crucial and includes information that concerns what you must do for the system to function properly.

Important! Example of an important note.

Warnings

Warnings indicate crucial configuration considerations. Pay close attention to warning messages.

Warning! Example of a warning.

Cross-References

PeopleBooks provide cross-references either under the heading “See Also” or on a separate line preceded by the word *See*. Cross-references lead to other documentation that is pertinent to the immediately preceding documentation.

Country, Region, and Industry Identifiers

Information that applies only to a specific country, region, or industry is preceded by a standard identifier in parentheses. This identifier typically appears at the beginning of a section heading, but it may also appear at the beginning of a note or other text.

Example of a country-specific heading: “(FRA) Hiring an Employee”

Example of a region-specific heading: “(Latin America) Setting Up Depreciation”

Country Identifiers

Countries are identified with the International Organization for Standardization (ISO) country code.

Region Identifiers

Regions are identified by the region name. The following region identifiers may appear in PeopleBooks:

- Asia Pacific
- Europe
- Latin America
- North America

Industry Identifiers

Industries are identified by the industry name or by an abbreviation for that industry. The following industry identifiers may appear in PeopleBooks:

- USF (U.S. Federal)
- E&G (Education and Government)

Currency Codes

Monetary amounts are identified by the ISO currency code.

Comments and Suggestions

Your comments are important to us. We encourage you to tell us what you like, or what you would like to see changed about PeopleBooks and other Oracle reference and training materials. Please send your suggestions to your product line documentation manager at Oracle Corporation, 500 Oracle Parkway, Redwood Shores, CA 94065, U.S.A. Or email us at appsdoc@us.oracle.com.

While we cannot guarantee to answer every email message, we will pay careful attention to your comments and suggestions.

Common Elements Used in PeopleBooks

As of Date	The last date for which a report or process includes data.
Business Unit	An ID that represents a high-level organization of business information. You can use a business unit to define regional or departmental units within a larger organization.
Description	Enter up to 30 characters of text.
Effective Date	The date on which a table row becomes effective; the date that an action begins. For example, to close out a ledger on June 30, the effective date for the ledger closing would be July 1. This date also determines when you can view and change the information. Pages or panels and batch processes that use the information use the current row.

Once, Always, and Don't Run	Select Once to run the request the next time the batch process runs. After the batch process runs, the process frequency is automatically set to Don't Run. Select Always to run the request every time the batch process runs. Select Don't Run to ignore the request when the batch process runs.
Process Monitor	Click to access the Process List page, where you can view the status of submitted process requests.
Report Manager	Click to access the Report List page, where you can view report content, check the status of a report, and see content detail messages (which show you a description of the report and the distribution list).
Request ID	An ID that represents a set of selection criteria for a report or process.
Run	Click to access the Process Scheduler request page, where you can specify the location where a process or job runs and the process output format.
SetID	An ID that represents a set of control table information, or TableSets. TableSets enable you to share control table information and processing options among business units. The goal is to minimize redundant data and system maintenance tasks. When you assign a setID to a record group in a business unit, you indicate that all of the tables in the record group are shared between that business unit and any other business unit that also assigns that setID to that record group. For example, you can define a group of common job codes that are shared between several business units. Each business unit that shares the job codes is assigned the same setID for that record group.
Short Description	Enter up to 15 characters of text.
User ID	An ID that represents the person who generates a transaction.

PeopleSoft Tree Manager Preface

This book discusses PeopleSoft Tree Manager, the PeopleTools feature you use to create and maintain hierarchical relationships, such as trees.

PeopleSoft Tree Manager

This book is written for PeopleSoft users who want to create or maintain tree data structures. To take full advantage of the information covered in this book, you should have a basic understanding of how to use PeopleSoft applications.

The drag and drop functionality does not work on all the supported browsers listed in the platforms database. System requirements for the drag and drop functionality for PC are: Internet Explorer version 5 (IE5) and higher or Netscape Navigator version 6 (NN6) and higher. System requirements for Macintosh are: Netscape Navigator version 6 (NN6) and higher or Safari 1.0 and higher.

The *About These PeopleBooks* preface contains general product line information, such as related documentation, common page elements, and typographical conventions. This preface also contains a glossary with useful terms that are used in PeopleBooks.

Using This Documentation

The following list explains the PeopleSoft Pure Internet Architecture pages that are included in PeopleSoft Tree Manager and provides cross-references to the corresponding documentation in this PeopleBook:

Tree Manager page	See Chapter 3, “Using PeopleSoft Tree Manager,” Opening Trees, page 19.
Find Value page	See Chapter 3, “Using PeopleSoft Tree Manager,” Searching for Nodes or Detail Values, page 23.
Insert Sibling Node page	See Chapter 3, “Using PeopleSoft Tree Manager,” Inserting Nodes, page 28.
Insert Child Node page	See Chapter 3, “Using PeopleSoft Tree Manager,” Inserting Nodes, page 28.
Node Properties page	See Chapter 3, “Using PeopleSoft Tree Manager,” Switching Node Levels, page 29.
Detail Value Range page	See Chapter 3, “Using PeopleSoft Tree Manager,” Pages Used to Work with Detail Values, page 32.
Tree Definition and Properties page	See Chapter 3, “Using PeopleSoft Tree Manager,” Modifying Tree Definitions, page 39. See Chapter 4, “Creating Trees,” Defining Basic Attributes, page 55.
Tree Levels page	See Chapter 3, “Using PeopleSoft Tree Manager,” Defining Tree Levels, page 41.

Configure User Options page	See Chapter 3, “Using PeopleSoft Tree Manager,” Setting Display Options, page 42.
Node Navigation page	See Chapter 3, “Using PeopleSoft Tree Manager,” Using Navigation Options, page 44.
Tree Print Format page	See Chapter 3, “Using PeopleSoft Tree Manager,” Printing Trees, page 45.
Tree Structure Properties page	See Chapter 4, “Creating Trees,” Defining Detail Tree Structures, page 48.
Levels page	See Chapter 4, “Creating Trees,” Defining Levels, page 49.
Nodes page	See Chapter 4, “Creating Trees,” Defining Node Properties, page 50.
Details page	See Chapter 4, “Creating Trees,” Defining Tree Details, page 51.
Root Node page	See Chapter 4, “Creating Trees,” Adding a Root Node, page 58.
Performance Options page	See Chapter 4, “Creating Trees,” Selecting Performance Options, page 69.
Copy Tree page	See Chapter 5, “Maintaining Trees,” Copying Trees, page 75.
Tree Viewer page	See Chapter 5, “Maintaining Trees,” Viewing Trees, page 75.
Batch Report page	See Chapter 6, “Auditing and Repairing Trees,” Reviewing Audit Results, page 95.

CHAPTER 1

Getting Started with PeopleSoft Tree Manager

This chapter provides an overview of PeopleSoft Tree Manager and discusses:

- PeopleSoft Tree Manager business processes.
- PeopleSoft Tree Manager implementation.
- Other sources of information.

PeopleSoft Tree Manager Overview

With PeopleSoft Tree Manager, you represent data graphically to show a hierarchy. Other parts of the system can use the trees that you have defined for hierarchical information—for reports, ChartField combination editing, OLAP, summary ledgers, or security. You can update trees with specifically designed tools, and your changes are then automatically applied throughout the system. You can also use PeopleCode to manipulate trees.

Warning! Be cautious about using your browser's Back button in PeopleSoft Tree Manager, as you may receive unexpected results. Save changes to your trees before using the Back button.

Note. Query Access trees are not maintained or viewed by PeopleSoft Tree Manager or Tree Viewer. Those trees can be viewed or maintained by using the Query Access Manager, which is located under the Security, Query Security menu option.

The Tree Viewer module provides read-only access for all trees. Administrators can provide users either PeopleSoft Tree Manager or the Tree Viewer module.

Overview of PeopleSoft Trees

Trees depict hierarchical structures that represent a group of summarization rules for a particular database field. For example, a tree can specify how your manufacturing locations should be summarized, or *rolled up*, for reporting purposes. Or a tree can show the reporting relationships within an organization by specifying how the individual department should be summarized into territories, territories into regions, and regions into countries. Similarly, a tree can categorize items in a catalog.

The summarization rules depicted in a tree apply to the detail values of a particular field: vendors, departments, customers, or other values that you define. These detail values are summarized into *nodes* on the tree. The nodes may also be organized into *levels* to logically group nodes that represent the same type of information or level of summarization.

For example, the values of the DEPTID field identify individual departments in your organization. You use PeopleSoft Tree Manager to define the organizational hierarchy that specifies how each department relates to the others—departments 10700 and 10800 report to the same manager, department 20200 is part of a different division, and so on. In other words, you build a tree that mirrors the existing organizational hierarchy.

Your chart of accounts is another prime candidate for trees. You can create trees that specify how you want to roll up accounts into summary ledgers or reports. You can create multiple trees, providing different roll-ups for different views of your account data.

After you have defined an organizational tree, the system can use it in a variety of ways. For example:

- **Reporting.**

When you want a report that summarizes results for a particular division or region, the system can check against the tree to determine which departments to include. Without the tree, you'd have to explicitly specify the departments you wanted every time you created a report.

- **Summary ledgers.**

To create a summary ledger that summarizes account balances by department, the system refers to the tree to determine the DEPTID values to include in the summarized ledger entries. (Summary ledgers are only used in PeopleSoft Financials applications.)

- **Security.**

You can restrict user access to their divisions. The application tables tell the system what department the user is in; the tree tells it what other departments are in the same division. (This use is appropriate for PeopleSoft Human Resources applications only.)

Additionally, you can create different organizational trees for different purposes. Suppose you want to group departments together differently for reporting and for security. Maybe you want to include data from regional offices in your summary reports, but you do not want to give corporate users access to regional employee records. In this case, you'd create two trees—a “departmental” tree that groups departments by function, regardless of region, and a “regional” tree that groups departments by location. Then you'd use one for reporting and the other for security.

Advantages of PeopleSoft Trees

By building trees, you give the system a single place to look for summarization rules. This centralization enables you to define rules once and then use them throughout the system. For example, different reports, ledgers, and security profiles might refer to parts of your company's organizational chart. All these objects can refer to the same predefined tree.

Trees make it easier to select and update values in reports, ledgers, or security profiles. Rather than specify departments 8202, 8203, 8513, 8515, and 8663 in a report, you can specify the Lafayette branch, which includes all these departments according to the tree. When the organizational structure changes, you update the tree once rather than updating an untold number of reports, ledgers, security profiles, and so on.

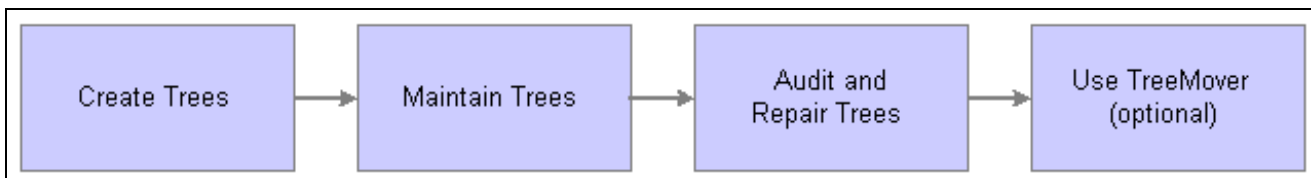
Another advantage of trees is that they present summarization rules visually. Looking at a tree through PeopleSoft Tree Manager, you can easily see how the values relate to each other.

See Also

Enterprise PeopleTools 8.49 PeopleBook: PeopleCode Developer's Guide, “Using Methods and Built-In Functions”

PeopleSoft Tree Manager Business Processes

The following process flow illustrates the PeopleSoft Tree Manager business processes:



PeopleSoft Tree Manager business process flow

Each business process—that is illustrated in the above process flow—is discussed in the appropriate chapter of this PeopleBook.

See [Chapter 4, “Creating Trees,” page 47](#); [Chapter 5, “Maintaining Trees,” page 73](#); [Chapter 6, “Auditing and Repairing Trees,” page 89](#) and [Chapter 7, “Using TreeMover,” page 99](#).

PeopleSoft Tree Manager Implementation

PeopleSoft Tree Manager is automatically installed with your PeopleTools installation.

Before creating a tree, you should plan the tree you want to create. You should also know which data you want to expose in the tree.

After you have planned your tree, you can create the tree structure. After you have created the tree structure, you can create the tree.

Other Sources of Information

This section provides information to consider before you begin to use PeopleSoft Tree Manager.

In addition to implementation considerations presented in this chapter, take advantage of all PeopleSoft sources of information, including the installation guides, release notes, PeopleBooks, red papers, the Updates + Fixes area of Customer Connection, and PeopleSoft’s curriculum courses.

See Also

[“PeopleSoft Tree Manager Preface,” page xix](#)

Enterprise PeopleTools 8.49 PeopleBook: Getting Started with PeopleTools

CHAPTER 2

Introduction to PeopleSoft Tree Manager

This chapter discusses how to:

- Work with tree concepts.
- Define types of trees.
- Work with effective dates and trees.
- Associate trees with additional setIDs.
- Work with the multi-user environment.

Working with Tree Concepts

This section provides an overview of tree concepts and describes how to:

- Use nodes.
- Use detail values (leaves).

Understanding Tree Concepts

This section discusses general concepts used by PeopleSoft Tree Manager, such as levels, effective dates, and setIDs.

Tree Levels

Levels provide a way to organize tree nodes. In most trees, all nodes at the same level represent the same kind of information. For example, in a tree that reflects the organizational hierarchy, all division nodes appear on one level and all department nodes on another. Similarly, in a tree that organizes your product catalog, the nodes representing individual products might appear on one level and the nodes representing product lines on the next higher level.

Sometimes you want to be able to identify all of the nodes on the same level as a group, even when they do not share the same parent. For example, you might create a PS/nVision layout that summarizes the data for a division, then define a PS/nVision scope that creates one report instance for each division, regardless of what company it is in. To allow you to refer to all the nodes at a level, PeopleSoft Tree Manager enables you to name each level. You will use the level name when you define the scope for your PS/nVision report (rather than identifying all the nodes individually). Naming your levels gives you another way to “slice” the data in the tree. Level names can appear next to the node description.

The following example shows a tree with levels:



Tree with levels

For each tree structure, you can determine how trees use levels:

- When levels are not used, the nodes in the tree have no real hierarchy or reporting structure but do form a logical summarization structure.
- Strictly enforced levels mean that the named levels describe each node's position in the tree.

This is natural for most hierarchies. Strict levels have the following advantages:

- You can skip a level if a portion of the hierarchy does not have a node at that level.
- The appearance of your tree more precisely matches the real-life hierarchy.
- If you use summary ledgers in PeopleSoft General Ledger, you can also create summary trees, which are based on levels in the corresponding detail tree.
- If you decide later that you need to change a tree from strict levels to loose levels, you can do so.

You cannot change a loose level tree to strict levels, because the level names are not connected to specific positions in the tree.

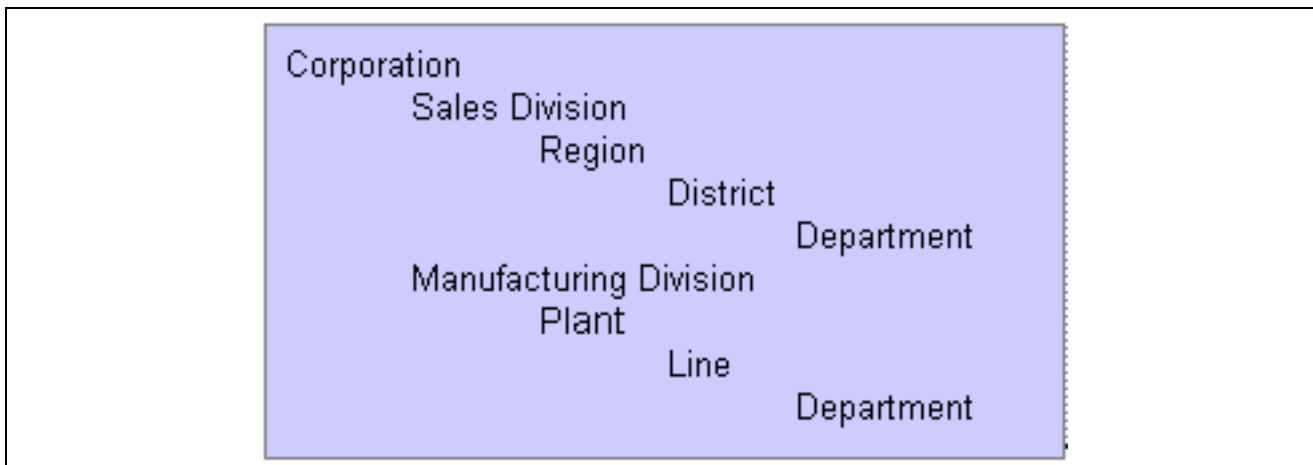
- Loosely enforced levels mean that the nodes at the same visual level of indentation do not all represent the same kind of information, or nodes representing the same kind of information appear at multiple levels.

With loosely enforced levels, you assign a level to each node individually; the level is not tied to a particular visual position.

In the following example, the first two levels are clear: Corporation and Division. However, within the Sales and Manufacturing divisions, the structure is different. This tree could be created with strict levels, but would become distorted because the Plant and Line levels would need to appear either "above" or "below" the Region and District levels, when in fact they are parallel. You could define a strict level tree with a level name like *Plant/Region* or even *Level3*, but this makes it harder to identify just the regions, districts, and so on for reporting or other purposes. With loose levels, the plants within the Manufacturing division can be referred to as a level independent of the regions in the Sales division.

In a loose level tree, the level is an attribute of the node and is only loosely related to its position. The level becomes a way of identifying a group of nodes that serve a common function within the organization.

The following diagram shows an example of loosely enforced levels:



Example of loosely enforced levels

For most trees, you will want to use levels. The following are reasons you should consider before selecting the *Level Not Used* option:

- You cannot add levels to a tree later.
- If you use summary trees (generally used with PeopleSoft General Ledger), levels are required.
- PS/nVision enables you to build a report by nPloading the tree from a specified node to a specified level.

This makes levels very useful on account hierarchies, for example.

Effective Dates

Using effective dates with trees enables you to specify new objects, departments, reporting relationships, or organizational structures in advance and have them take effect automatically. You can also use trees with past, present, or future effective dates when reporting on current or historic data.

SetIDs

Most data in control tables is stored by setID. Trees can be identified by four key values: setID, user key value, tree name, and effective date.

When using a setID as a key value for your tree, you should assign the same setID as the record that your tree is built on.

See Also

[Chapter 4, “Creating Trees,” Understanding Steps to Create Trees, page 47](#)

[Chapter 2, “Introduction to PeopleSoft Tree Manager,” Working with Effective Dates and Trees, page 12](#)

[Chapter 2, “Introduction to PeopleSoft Tree Manager,” Associating Trees with Additional SetIDs, page 14](#)

Using Nodes

Nodes define the hierarchical relationship within the tree. Nodes can be either categories (as in a group of assets) or items that need to be placed in a relationship with other items, such as an item in a catalog.

Each detail value reports to a tree node at the next higher level of the organization. Each tree node represents the group of detail values that “report” to it. Referring to the node is a shorthand way of referring to the group of detail values under it. For example, if a report refers to the Office of the President, it includes data from all the detail values under the Office of the President node—including the detail values under the Human Resources department, because Human Resources reports to the Office of the President.

In turn, each tree node reports to another tree node at a higher level of organization, until we reach the top level of the hierarchy, called the root node.

Family Tree Terminology

When talking about trees, we use terminology derived from the idea of a family tree. The nodes that report to the root node are called its *children*. They are also called *child nodes*. The root node is their *parent*. Nodes that have the same parent are called *siblings*.

Using Detail Values (Leaves)

Detail values, or *leaves*, link a roll-up structure to the supporting detail. For example, the nodes in an account tree are not the actual accounts but categories of accounts. Using this example, the account tree has a node called Assets, with detail values specifying a range of accounts from 1000 to 1999 rolling up to it.

The tree illustrated below shows summarization rules for the PERSONAL_DATA field. In other words, it is an organizational chart for the offices in a company’s headquarters. Individual offices, such as 8200, represent the lowest level of organization and appear at the far right of the tree. The leaves representing the offices are called *detail values*. Detail values have leaf icons and square brackets [] surrounding their names.

The following example shows a personal data tree with detail values:

Tree Manager

SetID:	QEDM1	Last Audit:	Valid Tree	Mode: <i>Edit</i> Release Tree
Effective Date:	05/05/1997	Status:	Active	
Tree Name:	QE_PERS_DATA	Personal Data Tree		

[Save As](#)
[Close](#)
[Tree Definition](#)
[Display Options](#)
[Print Format](#)

[Collapse All](#) | [Expand All](#)
[Find](#)
First Page 8 of 132 Last Page

00001 - Corporate Headquarters

- [8200] - ALBRIGHT
- [8300] - VINCENT
- [8400] - WALTERS
- [8500] - DUNCAN
- [8600] - ELIAS
- 10100 - Office of the President
- 20100 - Office of the President (CDN)

Tree Manager page: personal data tree

See Also

[Chapter 3, “Using PeopleSoft Tree Manager,” Working with Tree Nodes, page 26](#)

[Chapter 3, “Using PeopleSoft Tree Manager,” Working with Detail Values, page 32](#)

[Chapter 4, “Creating Trees,” Working with Tree Branches, page 60](#)

Defining Types of Trees

This section discusses how to:

- Understand standard detail trees.
- Understand dynamic detail trees.
- Understand node-oriented trees.
- Understand summary trees.

Understanding Standard Detail Trees

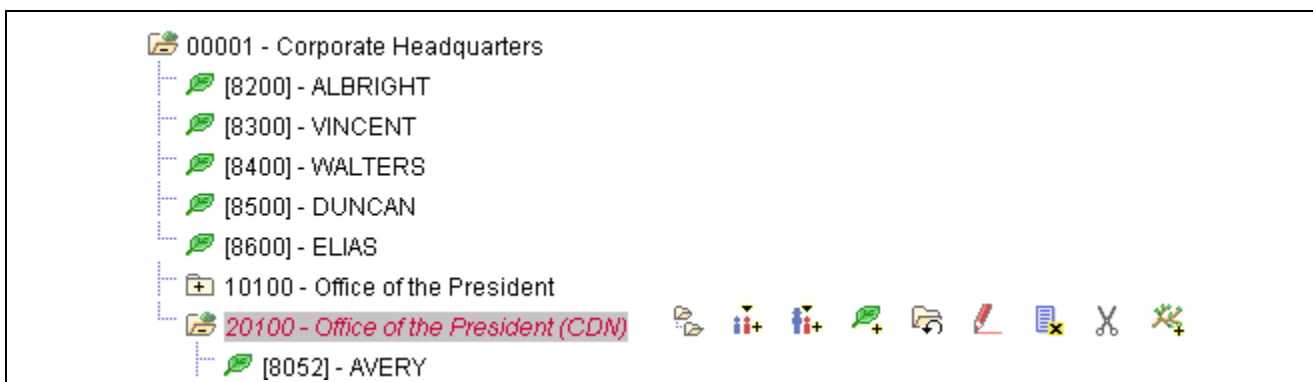
In the most basic type of tree, the *lowest* level—that is, the level farthest to the right in the tree—holds detail values. The next level is made up of tree nodes that group together the detail values, and each subsequent level defines a higher-level grouping of the tree nodes. This kind of tree is called a *detail tree*.

In a detail tree, the lowest level in the hierarchy consists of the detail values, which are represented by leaves. (Because of this, such trees are sometimes called *summer trees*.) You can use a detail tree to represent account hierarchies, product hierarchies, business unit hierarchies, and so on.

Detail trees are used most often for nVision reporting from the General Ledger.

Note. Do not create trees which contain a combination of dynamic details and a range of non-dynamic details if the tree is used by PeopleSoft Query or PS/nVision. Trees with this combination of details may yield incorrect reporting results when used with these reporting tools.

The following example shows a detail tree:



Sample detail tree

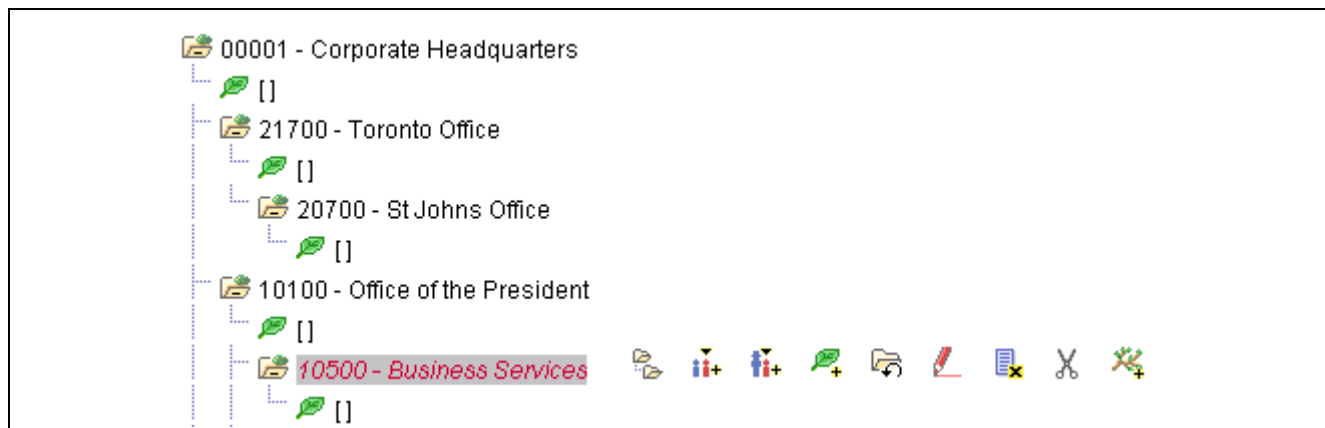
Understanding Dynamic Detail Trees

In a normal detail tree, the detail values that fall under each node are defined by a specific value or range of values. With a dynamic detail tree, detail values are determined by matching the node name with a field on the detail value table. The system dynamically determines appropriate values from the detail value table at the time it uses the tree. Instead of specific or range of values, the detail values appear as blank on the PeopleSoft Tree Manager display.

Note. Do not create trees which contain a combination of dynamic details and range details if the tree is used by PeopleSoft Query or PS/nVision. Trees with this combination of details may yield incorrect reporting results when used with these reporting tools.

For dynamic detail trees, the parent node value defines part of the primary key for the detail values.

The following example shows a dynamic detail tree:



Sample dynamic detail tree

In the preceding illustration, each node represents a value of the DEPARTMENT_ID field. The structure of the tree determines the relationships between departments and their groups, so that your reports can roll up department data. Departments are not the lowest level of detail, though. Each department consists of employees, and when you assign a department cost, you assign it to a particular department *and* an employee. These two fields, DEPARTMENT_ID and EMPLID, are both key fields for the department data. So to capture these costs, the department tree needs to group the employees for each department. That is where the detail values come in.

The detail values in this tree represent values for EMPLID. Rather than listing each EMPLID value separately, however, you tell PeopleSoft Tree Manager to use all the employees associated with the parent DEPARTMENT_ID. For example, if you ask for a report on the RETAIL SERVICES department, the system will roll up the data whose DEPARTMENT_ID is RETAIL SERVICES and whose EMPLID is any value.

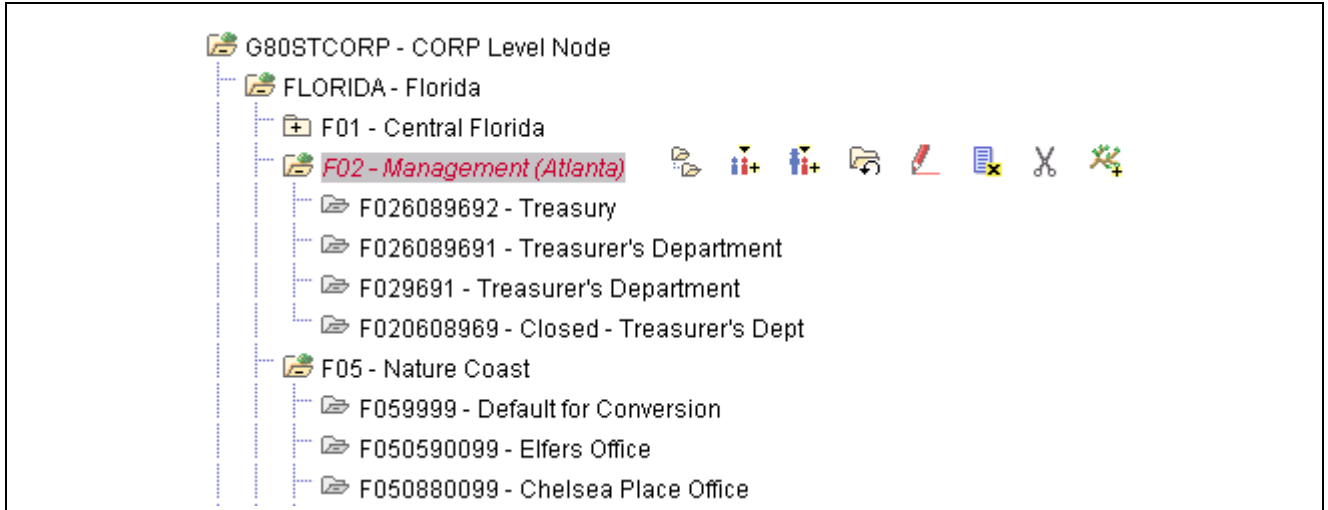
You can choose to display all detail values for a selected node or to display detail values based on the tree's current effective date.

Understanding Node-Oriented Trees

In standard detail trees, the detail values represent data values from a database field, and the tree nodes represent roll-up points for detail values. The nodes have no meaning outside the context of the tree. However, you can also create *node-oriented trees*.

Node-oriented trees are based on a detail structure, but the detail values are not used. For this type of tree, the tree nodes represent the data values from the database field. The system uses node-oriented trees for special purposes. For example, PeopleSoft HRMS applications use the Departmental Security tree to give users access to information only about employees in their departments.

The following example shows a node-oriented tree:



Sample node-oriented tree

Node-oriented trees have no leaves. (Because of this, such trees are sometimes called *winter trees*.) Instead, each node is a possible value of the DEPTID field.

Understanding Summary Trees

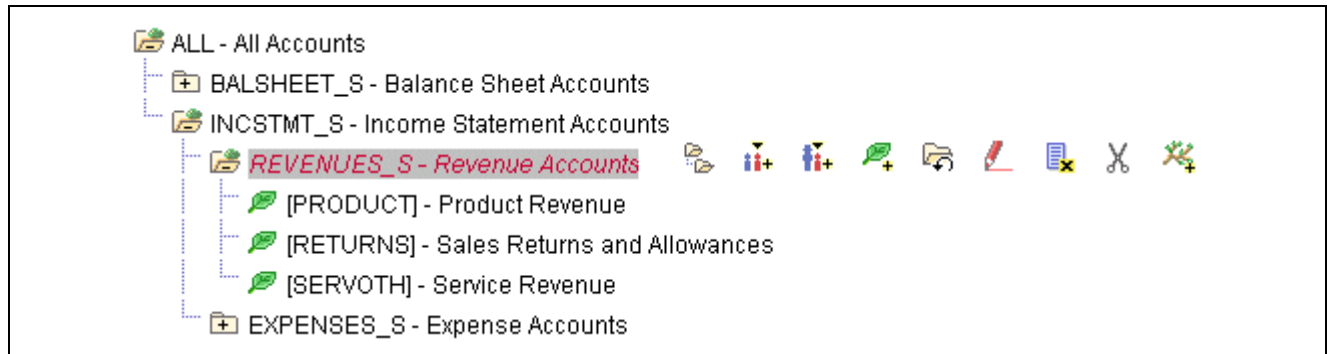
Summary trees are generally used for General Ledger reporting. A summary tree provides an alternative grouping of the nodes from a detail tree without duplicating its entire structure. In a summary tree, the detail values are tree nodes from an existing detail tree rather than values from a database field. The tree groups the nodes from a specific level in the detail tree differently from the way it groups the higher levels in the detail tree itself.

For example, suppose you want to roll up your departmental hierarchy differently for two reports. The first report shows the reporting structure, so you want to group your departments according to the division they report to. The second report is a financial report, showing profit centers, overhead centers, and production centers. From the group level down, the two hierarchies are the same.

You have two options:

1. Create two complete detail trees that are identical from the group level down.
2. Create one complete detail tree, then create a summary tree whose detail values are the group-level nodes on the first tree.

The following example shows a summary tree:



Sample summary tree

When you use a node from a summary tree in a report or summary ledger, the system refers back to the detail tree to determine which detail values report to that node. For example, suppose you want to report on production centers. You have created a summary tree that shows which groups are production centers, and you pick the Production Center node. The summary tree shows that the Engineering group and the Manufacturing group (among others) are production centers, but it does not show which departments are in these groups. The system uses the detail tree to determine the departments in the group.

Summary trees make it easier to maintain trees. If you change the lower part of the tree, you need to update only one tree.

The most common use of summary trees is to create summary ledgers in PeopleSoft Financial Data Management (FDM) applications. You create summary trees based on your basic ChartFields to create alternative roll-ups. You create reports based on the various summary trees to view your financial data from a variety of perspectives.

Working with Effective Dates and Trees

This section provides an overview of interactions between tree and user data effective dates and discusses how to:

- Use effective-dated user records.
- Use effective-dated trees.
- Understand interactions between tree and user data effective dates.

Understanding Interactions Between Tree and User Data Effective Dates

When user data also has an effective date on record's key, PeopleSoft Tree Manager checks that date to determine which dated record item belongs in the current dated tree. When there is only one dated item in the user table, then the date determines whether that item is available for use in the tree at all.

Trees and user data differ in how effective dates are considered in respect to the current date and when the tree and the data come into scope. The rules are as follows:

- The tree's effective date is the *good through date* for the tree's representative organization.
- The user data item's effective date is the *good from date* for the user data.

Therefore, in a particular tree, the nodes and details valid for that tree must have an effective date on the user data record earlier or the same as the effective date on the tree.

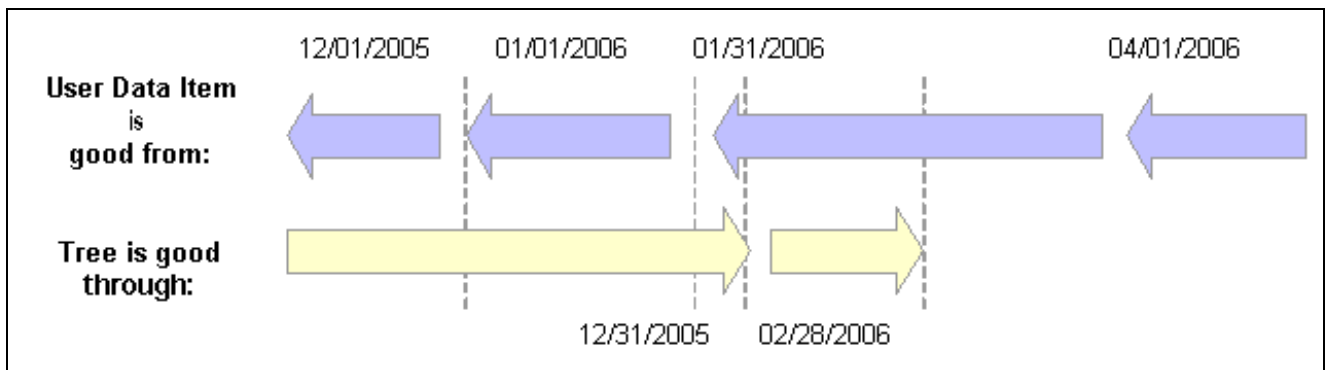
The following table presents an example of an effective-dated tree with a user table that has three effective-dated records for the same item:

Tree Effective Date	User Item Effective Date	User Data Available to Tree?
12-31-2005	12-01-2005	Yes
12-31-2005	01-01-2006	No
12-31-2005	01-31-2006	No
12-31-2005	04-01-2006	No

The next table shows what happens if the tree is copied to a new effective date, with the same user data records:

Tree Effective Date	User Item Effective Date	User Data Available to Tree?
02-28-2006	12-01-2005	Yes
02-28-2006	01-01-2006	Yes
02-28-2006	01-31-2006	Yes
02-28-2006	04-01-2006	No

This diagram illustrates a graphical representation of user data and tree effective dates:



Graphical representation of user data and tree effective dates

Using Effective-Dated User Records

PeopleSoft trees are a hierarchical structure made up of the tree's definition along with the nodes and details (leaves) that form the parent-child relationships in the tree. The nodes and details are tied into a user record as defined in the tree structure.

When the user record has an effective date as a part of the record's key, then that effective date determines the criteria used for details and nodes available for use in the tree.

See Also

Enterprise PeopleTools 8.49 PeopleBook: Using PeopleSoft Applications, "Working With Pages," Using Effective Dates

Using Effective-Dated Trees

Trees must have an effective date. Effective dates on trees show planned changes in the hierarchy the tree represents.

For example, in the HR Department tree, we want to add a new Hardware department effective 09/01/2001. We do this by copying the current HR Department tree to a new effective date of 09/01/2001, opening the new tree, and adding the Department node for Hardware.

When the current date reaches 09/01/2001, then the HR Department tree with the Hardware department will become effective for application and reporting purposes, and the previous effective date version of the HR Department tree will be a copy for historical purposes.

Associating Trees with Additional SetIDs

This section discusses how to share trees among several tableset groups.

PeopleSoft applications store information in two types of tables: transaction tables and control tables. Information in transaction tables is typically stored by business unit, while control table information is stored by a set identifier, commonly called the setID.

Transaction tables store data about day-to-day business activities. As such, these tables are updated frequently.

Control tables store information that defines the accounting and organizational structures and processing rules that are used when business transactions are entered into PeopleSoft applications. Control tables include master lists, such as customers, vendors, products, items, and charts of accounts. These tables are generally static, and many are effective-dated.

A tableset is a subset of data within the control tables that defines the accounting structure and processing rules for a particular business unit or group of business units.

Trees are typically hierarchies built on top of control tables, and so you usually will want to key your tree by setID if the underlying control table is keyed by setID.

Note. Because PeopleSoft Projects data is stored in tables keyed in by business unit rather than setID, PeopleSoft Project trees may be keyed by either setID or business unit, depending on the tree's function.

See Also

Your PeopleSoft Application Fundamentals book.

Page Used to Associate Trees with Additional SetIDs

Page Name	Object Name	Navigation	Usage
Tree	SET_CNTRL_TABLE2	PeopleTools, Utilities, Administration, TableSet Control, Tree	Associate a specific tree with a given set control value.

Sharing Trees Across SetIDs

Access the Tree page.

Tree page

PeopleSoft applications use the default setID on the tableset Record Group page to determine which trees a business unit can access. This default setID is established when the business unit is created. However, if you want a business unit to be able to access a particular tree created under a setID other than the default setID, you can specify the tree on this page.

The setID you define for a tree should typically match the setID defined for the underlying record.

The Record Group page of the TableSet Controls component defines which setID is used for a specific record group.

For example, if the PRODUCT_TBL record is part of REC_GROUPA; and on the Record Group page you have associated: BU = CCB, Rec. Group = REC_GROUPA, and SetID = FS, you should also set up any trees based on PRODUCT_TBL so that BU = CCB and uses SetID = FS.

Working with the Multi-User Environment

When the multi-user environment is enabled, PeopleSoft Tree Manager allows multiple users to work in the same environment and on the same tree or branch without the risk of losing individual work due to version control.

Note. PeopleSoft delivers PeopleSoft Tree Manager with the multi-user environment *disabled*. When you enable the multi-user environment for PeopleSoft Tree Manager, you also enable the multi-user environment for Query Access Manager.

See *Enterprise PeopleTools 8.49 PeopleBook: Security Administration*, “Implementing Query Security,” Building Query Access Group Trees.

See *Enterprise PeopleTools 8.49 PeopleBook: PeopleSoft Query*, “PeopleSoft Query Security,” Using Query Access Group Trees.

The following example explains how PeopleSoft Tree Manager works when the multi-user environment is enabled:

User A, User B, and User C open the QE_ACCOUNTS tree at around the same time and can only view the tree without making any changes. During this time, *Mode: Display* appears at the top of the tree’s page for all users, notifying them that the tree is in *display mode*. If User A wants to make changes to the tree, she must reserve the tree for editing. After she reserves the tree, *Mode: Edit* appears at the top of her QE_ACCOUNTS tree page, confirming that the tree is in *edit mode* for herself only. However, *Mode: Display (Checked Out by User A)* appears at the top of User B and User C’s QE_ACCOUNTS tree page, notifying these users that the QE_ACCOUNTS tree page is currently being edited by User A.

While User A has the tree in edit mode, only User A can edit the tree. Although User B and User C cannot edit the tree, they can still perform many actions. The following table describes the actions users can perform on trees in the multi-user environment, using this example. The first column lists the action. The second column denotes whether the action is available to User A while she has the QE_ACCOUNTS tree reserved. The third column denotes whether User B and User C can perform the action on the QE_ACCOUNTS tree while User A is editing the tree:

Action	Available to User A	Available to User B and User C
Edit the tree definition.	Yes	No
View the tree definition	Yes	Yes
Edit the application data.	Yes	Yes
Edit the tree.	Yes	No
Display the tree.	Yes	Yes
Navigate around the tree.	Yes	Yes
Change navigation options.	Yes	Yes
Change display options.	Yes	Yes
Save the tree.	Yes	No
Save the tree with different keys (tree name, effective date, and so on).	Yes	Yes

After User A *releases* the tree, it reverts to display mode for all users. It also reverts to display mode if User A does not perform any action on the tree for the length of time as defined in the time-out setting.

Note. When the multi-user environment is enabled, the display of the checkout mode and editing user will not be visible to users with view-only access. It will also not be visible to users working in the Tree Viewer module or to users accessing Tree Viewer pages through other applications.

Performing an Update or Cancel Due to a System Prompt

During the time a user has a tree in edit mode, other users who have the same tree in display mode will be required to either reload the tree or cancel out of the tree if the editing user performs any of the following:

- Branches a tree without existing branches.
- Deletes the last remaining branch of a tree.
- Deletes the branch that has been opened by one of the other users (for example, User B or user C).
- Saves the tree and releases it after performing the save.

If the user selects to reload a tree, PeopleSoft Tree Manager tries to open the tree at the node or leaf on which the user worked. If this is not possible, PeopleSoft application opens the tree at the first page of the tree.

Adding New Levels or Modifying Tree Definitions

When the multi-user environment is enabled, users can only add new levels or perform modifications to a tree definition when the root branch is checked out and the tree has no other checked out branches.

Note. When the multi-user environment is enabled, a user may not check out a tree branch if another user working with a different branch of the same tree has modified the tree definition and either *has* or *has not* saved the changes.

If users edit specific branches without modifying the tree definition, other users may still edit different branches of the same tree at the same time.

Enabling the Multi-User Environment

PeopleSoft delivers the multi-user environment as *disabled*. When you enable the multi-user environment for PeopleSoft Tree Manager, you also enable the multi-user environment for Query Access Manager.

See *Enterprise PeopleTools 8.49 PeopleBook: Security Administration*, “Implementing Query Security,” Building Query Access Group Trees.

See *Enterprise PeopleTools 8.49 PeopleBook: PeopleSoft Query*, “PeopleSoft Query Security,” Using Query Access Group Trees.

Note. Before enabling the multi-user environment, you must assign a unique userID to each user. If you are not using the multi-user environment, you may use a shared userID; however, this is not required.

To enable the multi-user environment:

1. Select PeopleTools, Utilities, Administration, PeopleTools Options.
2. In the Tree Manager Options group box, select the Use Tree Update Reservation check box.
3. In the *Max Tree Inactivity Period, min* field, enter the number of minutes allowable for a user to remain inactive during Edit mode.

In PeopleSoft Tree Manager, *inactivity* is defined as not performing *any* operation. Minimal actions including navigation and clicking on tree entries or action images are considered to be *active*. If the user is inactive for the set number of minutes, the tree or branch reverts to display mode.

Note. PeopleSoft recommends that you set the inactivity period at less than or equal to the browser time-out settings—20 min for Internet Explorer.

4. Reboot the application server.

Note. You must reboot the application server after enabling or disabling the multi-user environment and after changing the inactivity period in order for these changes to take effect.

If a tree is opened in display mode, the user can still modify user data like node or leaf descriptions.

If a tree is branched, users may check out different branches independently.

CHAPTER 3

Using PeopleSoft Tree Manager

With PeopleSoft Tree Manager you can view, create, and modify the trees that you use in PeopleSoft applications.

This chapter discusses how to:

- Open trees.
- Navigate PeopleSoft Tree Manager.
- Work with tree nodes.
- Work with detail values.
- Use drag and drop.
- Save and configure trees.
- Use Tree Viewer.

Opening Trees

This section provides an overview of multi-user functionality and discusses how to:

- Search for trees.
- Organize trees with categories.

Page Used to Open Trees

Page Name	Object Name	Navigation	Usage
Tree Manager	TREEMANAGER	Tree Manager, Tree Manager	View or modify trees.

Searching for Trees

After you have your browser open in PeopleSoft Pure Internet Architecture, navigate to PeopleSoft Tree Manager so that you can open and view a tree.

To open a tree:

1. Select Tree Manager, Tree Manager.

The Tree Manager search page appears.

2. In the Search By drop-down list box, select a value to search by.

Alternatively, click the Advanced Search link to search for a combination of values, such as Node Record Name, Detail Record Name, Structure Name, and Tree Category.

3. Click the Search button.

The system displays a list of the trees that match the data you have entered.

4. Click the tree name link for the tree that you want to open.

See Also

Enterprise PeopleTools 8.49 PeopleBook: Using PeopleSoft Applications, “Using Keys and Search Pages,” Using Search Pages to Retrieve Data

Organizing Trees

You can organize trees and narrow search criteria by assigning trees to categories that you define, as in this example:

Tree Manager

Enter any information you have and click Search. Leave fields blank for a list of all values.

[Find an Existing Tree](#)
[Create New Tree](#)

Search by: begins with

[Search](#) [Advanced Search](#)

Search Results

[View All](#) First 1-6 of 6 Last

Tree Name	SetID	Set Control Value	Effective Date	Tree Branch	Description	Category	Valid Tree
QE ACCOUNTS	QEDM2 (blank)		01/01/1900	(blank)	COA Hierarchy	QEDMO	Valid Tree
QE DEPT DYNAMIC	QEDM1 (blank)		01/01/1999	(blank)	Dynamic Detail Dept Tree	QEDMO	Valid Tree
QE DEPT SEC	QEDM2 (blank)		01/01/2001	(blank)	DEPART SECURITY	QEDMO	Valid Tree
QE JOBCODES	(blank)	(blank)	01/01/1999	(blank)	JobCodes	QEDMO	Valid Tree
QE PERS DATA	QEDM1 (blank)		05/05/1997	(blank)	Personal Data Tree	QEDMO	Valid Tree
QE PROJECTS	(blank)	QEBU1	04/25/2000	(blank)	Project Data	QEDMO	Valid Tree

Tree Lookup page

Categories are defined on the Tree Definition and Properties page. Categories must conform to the same character limitations as the tree name. Category names cannot exceed 18 characters and should not contain special characters such as /, \, *, :, “, <, >, and |.

Note. There are no edit checks to verify a category’s existence—if the category does not exist, PeopleSoft Tree Manager adds a new one.

Navigating PeopleSoft Tree Manager

This section discusses how to:

- Use the navigation bar.
- Use breadcrumbs.
- Expand and collapse nodes.

- Search for nodes or detail values.
- Use the line counter.

Pages Used to Navigate PeopleSoft Tree Manager

Page Name	Object Name	Navigation	Usage
Tree Manager	PSTREEMGR	Tree Manager, Tree Manager	View or modify trees.
Find Value	PSTREEMGRFIND	Select a tree in the Tree Manager page, and click the Find link.	Find a specific node or value.

Using the Navigation Bar

Access the Tree Manager page.

Tree Manager

SetID: QEDM1 **Last Audit:** Valid Tree

Effective Date: 05/05/1997 **Status:** Active

Tree Name: QE_PERS_DATA Personal Data Tree

[Save As](#) [Close](#) [Tree Definition](#) [Display Options](#) [Print Format](#)

[Collapse All](#) | [Expand All](#) [Find](#) First Page 8 of 132 Last Page

00001 - Corporate Headquarters

- [8200] - ALBRIGHT
- [8300] - VINCENT
- [8400] - WALTERS
- [8500] - DUNCAN
- [8600] - ELIAS
- 10100 - Office of the President
- 20100 - Office of the President (CDN)

Notify

Tree Manager page

The Tree Manager page displays the tree with the root node expanded one level.

Note. PeopleSoft Tree Manager displays one page of the tree at a time. You can navigate through large trees using First Page, Last Page, and so on.

You can perform the following actions on the selected tree by using the links and images on the navigation bar—the horizontal blue bar at the top of the tree:

Collapse All	Click to close all of the visible nodes except for the root node. The root node is always expanded.
Expand All	Click to expand all of the nodes on the tree, so that the entire tree or branch hierarchy is visible. Expands all parent/child relationships, but the tree hierarchy is still presented one page at a time. Use the Next page and Previous page arrows to move forward and backward through the tree.
Find	Click to access the Find Value page and search for nodes and detail values.
Notify	Click to send an email containing a link to the tree to an individual or group with whom you are currently working. You can attach a message to this email to describe a specific transaction. See <i>Enterprise PeopleTools 8.49 PeopleBook: Using PeopleSoft Applications</i> , “Using Workflow,” Sending Notifications.

Note. PeopleSoft Tree Manager is delivered with the Notify button *enabled*. You can disable this button in PeopleSoft Application Designer.

See *Enterprise PeopleTools 8.49 PeopleBook: Workflow Technology*, “Administering PeopleSoft Workflow,” Enabling the Notify Toolbar Button.

See Also

Enterprise PeopleTools 8.49 PeopleBook: Using PeopleSoft Applications, “Working With Pages,” Using Grid and Scroll Area Controls

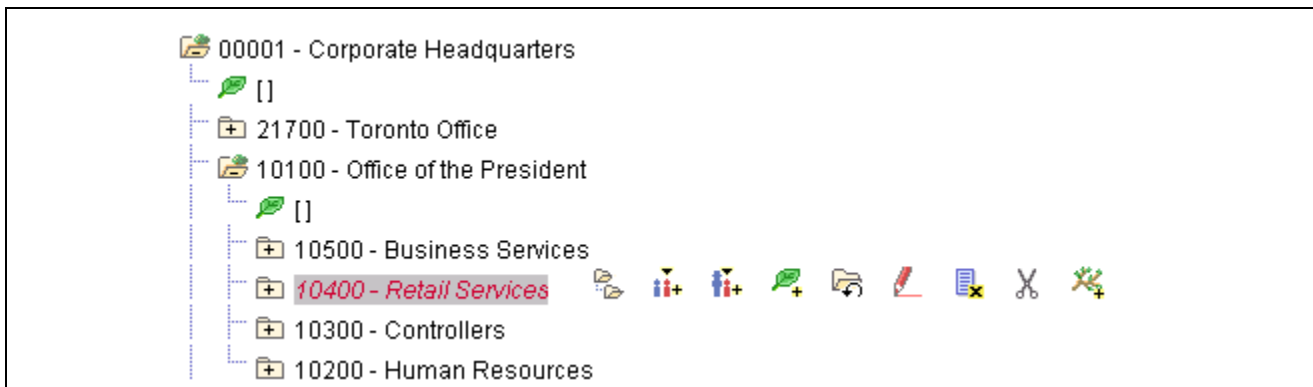
Using Breadcrumbs

As you navigate through your tree, breadcrumbs appear above the navigation bar. They show you the parent/child relationships between the currently-selected object and its parents. Breadcrumbs can provide you with a basic map of your route through the tree and can also be used to jump back to a previously visited node or branch.

When you hover your cursor over a breadcrumb, a tooltip appears which identifies whether the breadcrumb is a link to a branch or a node.

Breadcrumbs represent nodes in the current branch (A type nodes) and the parent branch of the opened branch (B type nodes).

For example, in the following illustration, node 00001 is the parent branch of 10100 and 10100 is the parent node of 10400:



PeopleSoft Tree Manager navigation bar and breadcrumbs

The maximum number of breadcrumbs displayed is seven. When you start exceeding that number, the system automatically removes the earlier ancestor nodes. This ensures that breadcrumbs always begin with the parent node of the currently selected node.

Expanding and Collapsing Nodes

You can collapse any node at any level to give you a better overview of the entire tree. Closed yellow folders indicate that you can expand the node to show additional nodes and detail values. Closed gray folders indicate a node that has no children—either child nodes or detail values. Open yellow folders indicate a node that has been expanded and is showing child nodes or detail values.

To expand a node one level, click its folder image. Click the folder image again to collapse the node.

To expand all child objects for a node, first expand the node, and then click the image with two folders.

Searching for Nodes or Detail Values

Access the Find Value page.

Find Value

Find Tree Node

Department:

🔍

Description:

OR

Find Detail Value

EmplID:

Last Name:

☐ **Case Sensitive Search**
☒ **Exact Matching**

Find
Close

Find Value page

Note. The actual labels on these fields change depending on the default labels defined for the column used for the node or detail values. For example, in the Department Security tree, the label for the node values reads Department ID.

Tree Node

Note. In this example, the Tree Node field appears as *Department*.

Enter the tree node name and click the Find button. A newly created node will not be listed in the Node List until a Save is performed. However, if you type the exact name of the newly created node and click the Find button, the node will be found. Search results do not depend on selecting or clearing the Exact Matching check box.

Description

Enter the tree node description and click the Find button. When searching by description, the system does not locate newly created nodes until a Save is performed.

Detail Value (EmplID) and Description (Last Name)

Note. In this example, the Detail Value field appears as *EmplID* and the Description field appears as *Last Name*.

Enter a detail value or description and click the Find button.

When searching by value, if a detail value is defined as a range of values, then the system looks for the detail values that the entered value falls under.

If the detail value is defined as a specific value, then the system looks for detail values that begin with or match the value entered.

If a user types in the exact name of the newly created detail value and clicks the Find button, the detail value will be found. Search results do not depend on selecting or clearing the Exact Matching check box. If the tree features the *Duplicate Leaves* option, only the first occurrence of the newly added detail value will be found.

Note. When searching for detail values that involve a range of values or duplicate values, the system may not find a detail value that has been recently added or changed until a Save has been performed. The results of this operation depends on database sorting options and database type.

Case Sensitive Search

Select to use the case-sensitive search option for descriptions.

This option is not used for node or detail names, as they are key fields, which PeopleSoft Tree Manager automatically changes to upper case.

Exact Matching

Select to search for an exact match. Clear the check box to perform partial searches.

If you clear this check box, the system automatically adds a wildcard character at the end of the user defined search condition. If you want to use a wildcard search by applying a wildcard character at the beginning of the word, you need to use the database specific wildcard character.

You receive a warning message if you cleared this check box and your search criteria was too broad— more than 200 rows returned.

If PeopleSoft Tree Manager finds a node or detail value that matches your search string, it displays the node or detail value and builds breadcrumbs to show the navigation path to the entry found.

Note. If the value for which you are searching is contained inside a detail range, PeopleSoft Tree Manager displays the appropriate range. Click the Edit Data image to display the list of values contained in that range. Keep in mind that detail values are stored as strings, so if your values are identified by numbers, the range may include more values than expected.

PeopleSoft Tree Manager finds the first occurrence of the node or detail value that matches your search string and highlights it. If duplicate values exist, click Next to search for the next occurrence of the value.

When the next occurrence has been found, the Previous link become available.

If you type in values or descriptions in more than one field on the Find Value page, the system will use the higher located field as a search condition and ignore the lower fields.

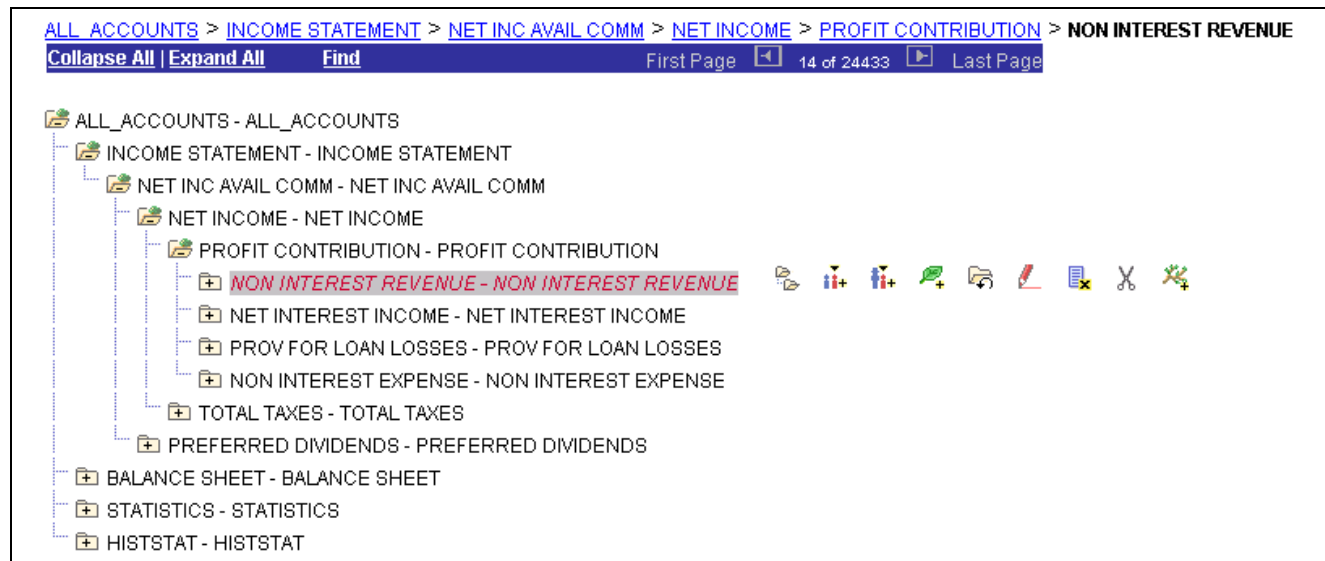
See Also

[Chapter 3, “Using PeopleSoft Tree Manager,” Working with Detail Values, page 32](#)

Enterprise PeopleTools 8.49 PeopleBook: Using PeopleSoft Applications, “Using Keys and Search Pages,” Using Wildcards to Find Information

Using the Tree Line Counter

PeopleSoft Tree Manager’s line counter provides an automatic count of the numbers of lines of a tree that are currently displayed. In this example, the line counter displays *14 of 24433*, telling us that 14 rows are currently displayed out of a possible 24433 rows available in the tree. The line counter does *not* provide information on the *position* in the tree of the displayed lines:



Line counter providing number of rows currently displayed

Working with Tree Nodes

This section discusses how to:

- Describe tree nodes.
- Insert nodes.
- Move nodes.
- Switch node levels.
- Edit node descriptions.
- Delete nodes.
- Rename nodes.

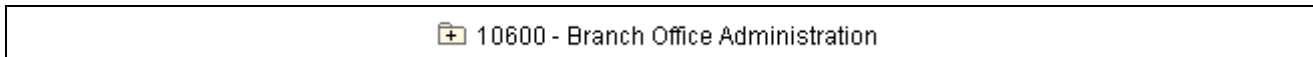
Pages Used to Work with Tree Nodes

Page Name	Object Name	Navigation	Usage
Node Properties	PSTREENODELEVELS	Select a node in the Tree Manager page, and click the Update Node Properties icon.	Change node levels and other properties. Rename nodes.
Tree Node Maintenance	<Application defined>	Select a node in the Tree Manager page, and click the Edit Data icon.	Page that appears here is defined by application. Edit node descriptions and other data.
Node Properties	PSTREENODEUPDATE	Select a node in the Tree Manager page, and click the Update Node Properties icon.	Displays if the tree does not have levels. Rename nodes.

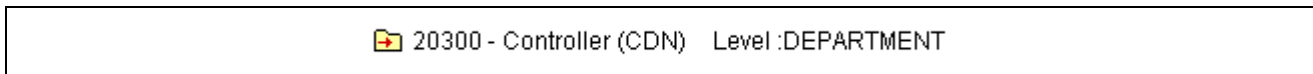
Describing Tree Nodes

A node in PeopleSoft Tree Manager has three parts: the node image, the node name, and a node description.

In the following example, the node is collapsed, so the folder image is closed. The node name is 10600, and the node description is Branch Office Administration:



Node with a description



Node that skips a level with level displayed

To display images for working with nodes, click the description or node name.



Node with editing images

This is a complete list of node editing images. When you highlight a node, only the images representing the available actions appear:



Expand Node Hierarchy: Expands all child objects for the selected node.



Insert Child Node: Inserts a new node that will be a child of the currently selected node.



Insert Sibling Node: Inserts a new node that will share the same parent as the currently highlighted node.



Insert Detail: Inserts a new detail value.

This is only available if the detail value information has been entered on the Tree Structure Detail page.



Update Node Properties: Displays the Node Properties page, which enables you to change the level of a node or rename a node.



Delete Node: Deletes the selected node.



Edit Data: Displays a page for maintaining or editing the application data for the node. The table that stores the data is defined on the Tree Structure Maintenance page.



Cut: Marks the highlighted tree component and cut and copies it to the clipboard. Then you can use either Paste as Sibling or Paste as Child commands.

Note. This icon is not available for dynamic detail leaves.



Paste as Sibling: Pastes a cut node into the tree as a sibling.



Paste as Child: Pastes a cut node into the tree as a child.



Branch: Subdivides that part of the tree into a separate component that can be maintained and viewed separately from the main tree.



Open Branch: Opens the selected branch in PeopleSoft Tree Manager.



UnBranch: Removes the selected branch and PeopleSoft Tree Manager replaces the branch image with the node image. Any nodes that report to the selected node are now available in the tree.

Inserting Nodes

To insert a node:

1. In the Tree Manager page, highlight a node.
2. Click either the Insert Child Node or Insert Sibling Node image.
3. In the Tree Node field, click the prompt button to find the node name to insert.
4. Enter the node name or select the node from the list.

The Insert Child Node or Insert Sibling Note page appears with the selected value.

5. Click the Add button.

If you entered values that have already been defined, PeopleSoft Tree Manager adds the values to the tree when you click the Add button.

If you enter new values, PeopleSoft Tree Manager informs you that you have entered an undefined value. Depending on your security access, PeopleSoft Tree Manager may enable you to add the new value.

If the node you specified already exists in the tree, the system displays an error pointing to the duplicate node.

6. If you are adding a new value to the database, click the Yes button.

PeopleSoft Tree Manager displays the page for adding new values for the field.

Moving Nodes

To move a node using cut and paste:

1. In the Tree Manager page, highlight the node and click the Cut icon.
2. Select the destination node and click the Paste as Sibling or Paste as Child icon.

The node is pasted into the position that you specified. Remember that you cannot insert a child node into a branch node, insert a sibling node into a root node, or insert parent node into its child.

PeopleSoft Tree Manager moves the entire branch starting at the selected node. If the moved node has nodes or detail values reporting to it, they also move to the new position.

Note. You cannot move branched nodes.

Levels Behavior

The following are general rules used for levels when nodes are moved using cut and paste:

- Tree with strictly enforced levels: Parent node must always be at a higher level than its children.
- Tree with loosely enforced levels: No rules are enforced; therefore, levels of the descendant nodes should be manually adjusted by using the switch level function on the pasted node.

The following table shows the basic behavior of levels when cutting and pasting nodes:

Action	Strictly Enforced Levels	Loosely Enforced Levels
Moving node to a higher level.	Levels of the pasted node and its children are not automatically adjusted. The pasted node appears as a skipped node. (Node image changes to a skipped node image).	Levels of the pasted node and its children are not automatically adjusted. The pasted node appears as a regular node.
Moving node to a lower level.	To ensure that the parent node is always at a higher level than its children, PeopleSoft Tree Manager automatically adjusts the level of the node and its children.	The levels of the pasted node and its children are not adjusted.

Note. New tree levels are not automatically created in non-root branches when a tree node is moved, or a new tree node is added.

See Also

[Chapter 3, “Using PeopleSoft Tree Manager,” Using Drag and Drop, page 36](#)

Switching Node Levels

Access the Node Properties page.

Node Properties

Node Properties

Tree Node: VP

New Name: 

[Rename](#)

Node Level Settings

Current Level: GENMGR

Tree Levels					
Level Name	All Values	Description	View Detail	Switch Level	Delete
→ GENMGR	☐		View Detail	Switch Level	Delete
MANAGER	☐		View Detail	Switch Level	Delete
DEV	☐		View Detail	Switch Level	Delete
QA	☐		View Detail	Switch Level	Delete

[OK](#) [Add Level](#)

Node Properties page

Click the Switch Level link associated with the level to which you want to change the node.

The node level information is updated and changed. The node level is indicated by the green arrow.

Levels Behavior

The following are general rules used when switching node levels:

- Tree with strictly enforced levels: Parent node must always be at a higher level than its children.
- Tree with loosely enforced levels: Parent node must be at the same or higher level than its children.

The following table shows the basic behavior of levels when the switch node level function is used:

Action	Tree with strictly enforced levels	Tree with loosely enforced levels
Switching node to a higher level.	Only available for skipped nodes. Can only ascend the number of levels that have been skipped. PeopleSoft Tree Manager automatically adjusts the levels of the child nodes. For example, if the parent node is switched two levels, the children are automatically adjusted two levels.	Only available for skipped nodes. Can only ascend the number of levels that have been skipped. Levels of the child nodes are not automatically adjusted.
Switching node to a lower level.	To ensure that the parent node is always at a higher level than its children, PeopleSoft Tree Manager automatically adjusts the level of the node and its children. PeopleSoft Tree Manager will automatically create additional levels, if necessary.	The levels of the pasted node and its children are not adjusted. Note. If the switch results in a child node level becoming higher than its parent, PeopleSoft Tree Manager automatically adjust the level to be equal to the parent's level. Recommendation: when switching levels, you should switch to just one level at a time.

Editing Node Descriptions

To change the description of a node:

1. Access the Tree Node Maintenance page.
2. Update the value in the Description field.
3. Enter today's date as well as a new description.
4. Click the OK button to accept changes and return to PeopleSoft Tree Manager.

Note. Tree node descriptions may not be visible if the effective date of the tree is earlier than the effective date of the node.

Deleting Nodes

To delete a node:

1. Highlight the node and click the Delete icon.
2. In the message that appears, click the Yes button to delete or the No button to return to the tree without deleting.

Renaming Nodes

To rename a node:

1. Access the Node Properties page.
2. Enter new name for the node in the New Name text box and click the Rename button.

Note. The edit data image is not available for the root node.

You cannot rename the root node or branched nodes.

Working with Detail Values

This section discusses how to:

- Understand detail values.
- Add detail values.
- Change detail value descriptions.
- Modify a range of detail values.
- Delete detail values.
- View detail values.

Pages Used to Work with Detail Values

Page Name	Object Name	Navigation	Usage
Detail Value Range	PSTREELEAF	Select a detail value in the Tree Manager page, and click the Edit Properties icon.	Modify the range of values in a detail.
Detail Value List	<Application defined>	Select a detail value in the Tree Manager page, and click the Edit Data icon. Select the bracket under a dynamic detail in the Tree Manager page, and click the Edit Data icon.	Page is application defined. View the range of values in a detail or dynamic detail.

Understanding Detail Values

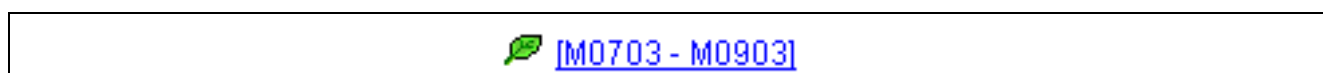
A single detail value in PeopleSoft Tree Manager has three parts: the detail image, the detail name, and a detail description. Detail values can also appear as a range of values or as dynamic detail.

This is an example of a detail value with a description:



Detail value with a description

This is an example of a range of detail values:



Range of detail values

This is an example of dynamic detail values or an *empty* detail.



Dynamic detail values, or 'empty' detail

This is a complete list of detail value editing images. When you highlight a detail value, only the images that represent the available actions appear.



Insert Detail: Inserts a new detail value. This icon is only available if the detail value information has been entered on the Tree Structure Detail page.



Edit Data: Displays a page for maintaining or editing the application data for the detail value. The table that stores the data is defined on the Tree Structure Maintenance page.



Edit Properties: Allows you to change the detail value itself.

For example, you can change the range to and range from values.



Delete Detail: Deletes the selected detail.



Cut: Marks the highlighted tree component and cut and copies it to the clipboard. Then you can use either Paste as Sibling or Paste as Child commands.

Note. Not available for dynamic detail leaves.



Paste as Sibling: Pastes a cut detail value into the tree as a sibling.

Adding Detail Values

To add detail values:

1. In the Tree Manager page, highlight the node you want the detail values to report to, or you can highlight one of the node's other detail values.

To complete a detail-value tree, you need to define detail values for each *terminal* node in the tree, which means each node that has no child nodes.

2. Click the Insert Detail icon.

If you are creating a dynamic detail tree, select the Dynamic Flag check box.

The Detail Value Range page appears. It shows the tree node that the new values report to. If you click the Dynamic Flag check box other fields on a page become locked. When you click the Add button, PeopleSoft Tree Manager displays brackets [] in place of the detail value for the selected node. When you use the tree, the system automatically selects the appropriate detail values for the node.

Note. Do not add dynamic details in a tree that already has details using ranges. Trees should be either all dynamic details or all ranges. Mixing detail types can cause unpredictable results in other applications, such as PeopleSoft Query and PS/nVision.

3. Use the search images to enter a range of detail values from the database field on which this tree is based.

To enter a single value, enter the same value in the From and To fields.

Note. When you specify a range of values, you cannot specify another detail value that appears within the range. For example, if you specify a range from 0271 to 0278, you cannot subsequently assign 0275 to another detail value—unless you selected the Allow Duplicate Detail Values option.

4. Click the Add button.

If you entered values that have already been defined, PeopleSoft Tree Manager adds the values to the tree when you click the Add button.

If you enter new values, PeopleSoft Tree Manager informs you that you have entered an undefined value. Depending on your security access, PeopleSoft Tree Manager may enable you to add the new value.

5. If you're adding a new value to the database, click the Yes button.

PeopleSoft Tree Manager displays the page for adding new values for the field.

Changing Detail Value Descriptions

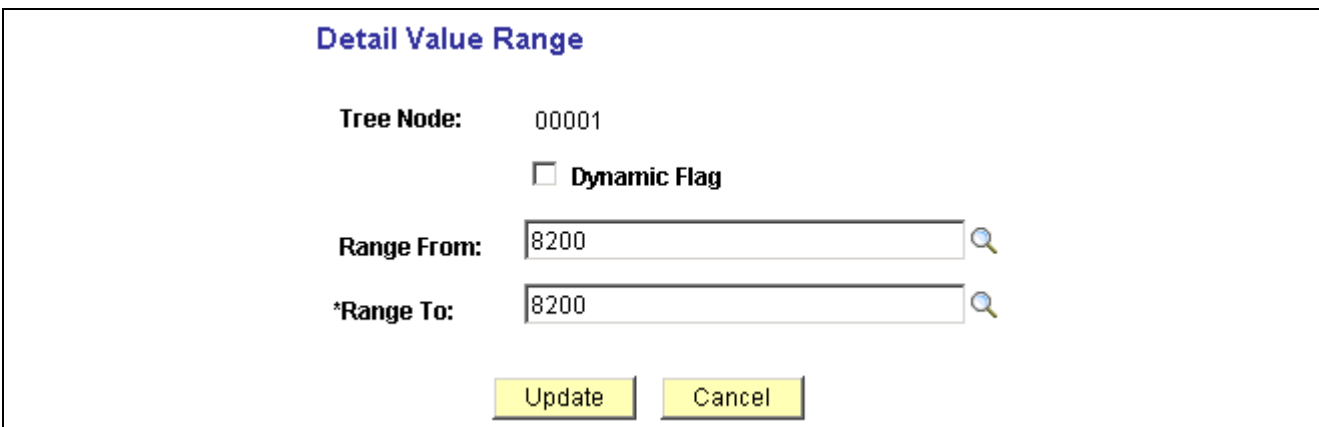
To change the description of a detail value:

1. In the Tree Manager page, highlight the detail value and click the Edit Data icon.
The original page with the detail value information appears.
2. Update the value in the Description field.
3. Click the OK button to apply changes to the appropriate database table.

Note. Detail value descriptions may not be visible if the effective date of the tree is earlier than the effective date of the node.

Modifying a Range of Detail Values

Access the Detail Value Range page.



Detail Value Range page

To modify a range of detail values:

1. In the Detail Value Range page, modify the range values in the Range From and Range To fields.
2. Click the Update button to save your changes.

Deleting Detail Values

To delete detail values:

1. In the Tree Manage page, highlight the detail value and click the Delete icon.
A confirmation message appears.
2. Click the Yes button to delete or the No button to return to the tree without deleting.

Viewing Detail Values

Access the Detail Value List page.

Note. This page is only available for detail ranges.

QEDMO Employee - 10100				
Effective Date Criteria				
☒ None ☐ Tree Effective Date				
Tree Details				
Customize Find View All First 1-14 of 19 Last				
Range From	Last Name	Social Security Number	Department	
8001	ASD	549693847	10100	
8501	BENNETT	304125948	10100	
LT007	ROSSALINI	891023456	10100	
LT011	WAGNER	888901234	10100	
PA001	JORDAN	908786544	10100	
PA003	KIDD	908786546	10100	
PA005	SMITH	908786543	10100	
PA006	BRONTE	908786548	10100	
PA007	FLETCHER	908786549	10100	
PA008	DREW	908786550	10100	
PA009	REAGAN	908786551	10100	
PA010	ALOMAR	908786552	10100	
PA011	BARFIELD	908786553	10100	
PA012	CONE	908786554	10100	

Detail Value List page

Effective Date Criteria

To display all detail values for the selected node, select *None*.

To display only the detail values that are current based on the tree's effective date, select *Tree Effective Date*.

Personalize

Click to change the column or sort order.



Click to select the required detail value.

This page lists the values in a range, or the values in a dynamic detail, depending on the node you selected to access the page. In a normal detail tree, a specific value or range of values defines each node. A dynamic detail tree determines the value by matching the node name with a field on the value table.

Dynamic detail trees use the parent node name as a key to select the detail values.

Values are stored and compared as strings, not numbers. Therefore a range of values identified by numbers may include more values than anticipated. For example, a company contains the following departments: 107, 1000, 1002, 1010, 1090, 11000, 1779999, and 10699999. If you specify a range of departments from 1000 to 1090, the values included would be 107, 1000, 1002, 1010, 1090, and 10699999 because the first three characters of these departments fall in the range between 100 and 109.

Although the number 10699999 is greater than 1090, when you use a string, the length of the value does not matter. For example, a range of words between CAP and CAT includes the word CARTWHEEL.

Using Drag and Drop

You can move detail values and nodes using drag-and-drop functionality as a substitute for cut-and-paste.

When using drag-and-drop functionality with nodes, you can use either the Paste as Child or Paste as Sibling actions.

Note. The Paste as Sibling action is not available in Query Access Manager.

The following rules apply when using drag-and-drop:

- You can drop values onto the root node, but you cannot drag the root node onto another value.
- You can drag nodes and detail values to another location, but you cannot drop nodes onto detail values.
- You cannot drag and drop on:
 - Branched nodes.
 - View-only trees.
 - Dynamic detail leaves.
- Drag-and-drop functionality is only available for a single page that is opened in a browser.

To move a node or a leaf between different pages, use cut-and-paste functionality instead.
- The drag-and-drop default action is set in the display options.
- To use drag-and-drop on large trees, change the Number of Lines per Page field to a greater number.

See [Chapter 3, “Using PeopleSoft Tree Manager,” Setting Display Options, page 42](#).

Saving and Configuring Trees

This section discusses how to:

- Use save and configuration options.
- Copy trees.
- Modify tree definitions.
- Define tree levels.
- Set display options.
- Use navigation options.
- Print trees.

Pages Used to Save and Configure Trees

Page Name	Object Name	Navigation	Usage
Tree Definition and Properties	PSTREEDEFN	Open a tree in the Tree Manager page, and click the Save As link. Alternatively, open a tree in the Tree Manager page and click the Tree Definition link.	Save a tree with a different name, effective date, and other properties. Edit properties for an existing tree.
Tree Levels	PSTREEDEFNLEVELS	On the Tree Definition and Properties page, click the Define Tree Levels link.	Add, delete, and modify tree level information.
Configure User Options	PSTREEMGROPTIONS	Open a tree in the Tree Manager page, and click the Display Options link.	Specify what information appears on the Tree Manager page. Turn off and on tree node descriptions and to set the default action for dragging and dropping nodes.
Detail Navigation	PSTREEMGRNAV	Open a tree in the Tree Manager page, select a node or detail, and click the Navigation Options link. Note. The Navigation Options link only appears if multi-navigation flags have been enabled in the tree structure for nodes, details, or both.	Select a detail page to open from the tree when editing data for the selected node or detail. For example, using the Personal Data tree, you can navigate to pages such as Personal Data, Benefits, or Salary Information.

Using Save and Configuration Options

From the Tree Manager page, you can perform actions on the selected tree using the links that are displayed above the navigation bar.

This example shows the available save and configuration options:

[Save Draft](#) |  [Save](#) | [Save As](#) | [Close](#) | [Tree Definition](#) | [Display Options](#) | [Navigation Options](#) | [Print Format](#)

PeopleSoft Tree Manager save and configuration options

Not all of the options appear on the screen initially. For example, the Save Draft link does not appear until the tree is modified, and the Navigation Options link only appears if the multi-navigation option has been set for the tree structure.

Save Draft	Saves the tree or branch, but does not perform detail audits. Trees are marked as Draft until the audits are performed by saving the tree using the Save command, or by manually performing the detail value audits from either the Tree Definition page or the Tree Maintenance page.
Save	Saves the tree or branch and performs audits on detail values.
Save As	Saves the current tree or branch with a new name, new effective date, or modified properties.
Close	Closes the tree or branch and displays the Search page. When you are through editing a tree, it is important to save any changes you have made and use the Close link to let the system know that you are finished editing the tree.
Tree Definition	Displays the Tree Definition and Properties page where you can change audits and edit levels, the tree's category, and description.
Display Options	Changes the way trees appear on the page. Also changes the way the drag-and-drop functionality behaves in the current session.
Navigation Options	Changes the navigation path for a selected node or detail to any of the components on the menu bar that are specified on the tree structure.
Print Format	Formats all or part of the tree so that it can be printed by using your browser's print function. Also prints the open branch of branched trees.

Saving a Tree in Draft Mode

Draft mode prevents detail audits from being performed when a tree is saved. Thus, it's possible to save draft trees that are invalid. The system considers all draft trees invalid and they cannot be used in other PeopleSoft applications—such as PeopleSoft Query or PS/nVision—until they are saved or until a tree audit is performed from either a regular Save, the Tree Definition page, or the Tree Maintenance page.

To view all invalid values in a tree, you can run the audits from the Repair Tree program and use the View Results option to see a list of audit problems. After an audit is performed with no errors, the status of the tree changes from *draft tree* to *valid tree*.

You can see if your tree is a valid tree or draft tree by viewing the Last Audit value at the top of the Tree Manager page. You can also check the status of a tree from the Tree Maintenance page.

See Also

[Chapter 4, “Creating Trees,” Performing Audits, page 63](#)

Copying Trees

You can copy a tree using the Save As link from the navigation bar, or you can use the copy function from the Tree Maintenance page. The whole tree is copied, including its branches.

Note. To reduce copy time, PeopleSoft recommends copying large trees using the Copy function instead of the Save As function.

You can copy a tree into another setID. However, you are only copying tree data, not the supporting application data.

If the TREE_NAME field exists in the User Node table, then the user node data (node descriptions, and so on) cannot be shared between trees with different names. For this reason, if you copy a tree using the Save As function in PeopleSoft Tree Manager or the Copy function in the Copy/Delete Tree utility, and user node table includes the TREE_NAME field like one of the key fields, you must manually insert the new tree's node descriptions.

To copy a tree using the Save As link:

1. Open the tree you want to copy.
2. Select the Save As link from the Tree Manager page.

The Tree Definition and Properties page appears.

3. Update the information for the new tree.

You must enter at least a new tree name and effective date. You can also change any of the other settings, although there are restrictions on your changes to the Use of Levels setting.

Note. You can change the Use of Levels setting, but you cannot change a tree from not using levels to using them. Changing a tree from loosely enforced levels to strictly enforced levels is not recommended.

4. Click the Save Aslink or Save As Draft button.

See Also

[Chapter 5, "Maintaining Trees," Maintaining Trees, page 73](#)

Modifying Tree Definitions

Access the Tree Definition and Properties page by clicking Tree Definition.

Tree Definition and Properties

*Tree Name:

*Structure ID:

*Effective Date: *Status:

*Description:

*Category: [Define Tree Levels](#)

*Use of Levels: [Performance Options](#)

*SetID:

Audits

☐ All Detail Values in this Tree

☐ Allow Duplicate Detail Values

Item Counts

Node Count:	23
Leaf Count:	109
Level Count:	5
Branch Count:	0

Tree Definition and Properties page

To modify tree definitions:

1. Enter a new description or choose a new category for the tree.
2. In the Status drop-down list box, select the status of the tree to be *Active* or *Inactive*.
An active tree can be used by other applications. An inactive tree cannot be used by the system.
3. In the Use of Levels field, select how levels in the tree are enforced.
The available options depend on the type of tree you are modifying.
If levels are not defined in the selected tree structure, this field is unavailable and the value *Level Not Used* is displayed. Also, the Define Tree Levels link is not displayed.
4. Click the Define Tree Levels link to access the Tree Node Definition page and add, update, or delete levels.
5. In the Audits group box, select how you want the tree to handle detail values.
This option is not active for trees that are:
 - Keyed by business unit (BU) or user key value (UKV).
A business unit is a corporation or a subset of a corporation that is independent with regard to one or more operational or accounting functions.
 - Simple winter trees, as they do not have detail values.

- Click the Performance Options link to change performance options.

The available options depend on the type of tree you are modifying.

See [Chapter 4, “Creating Trees,” Selecting Performance Options, page 69](#).

- Click the OK button to save your changes.

When the multi-user environment is enabled, users can only (1) modify a tree definition to a branched tree when the branch is checked out and the tree has no other checked out branches, and (2) add new levels or perform modifications to a tree definition when the root branch is checked out and the tree has no other checked out branches.

Note. When the multi-user environment is enabled, a user may not check out a tree branch if another user working with a different branch of the same tree has modified the tree definition and either *has* or *has not* saved the changes.

If users edit specific branches without modifying the tree definition, other users may still edit different branches of the same tree at the same time.

Defining Tree Levels

Access the Tree Levels page.

Tree Levels

Tree Name: QE_PERS_DATA

Tree Levels					Customize	Find	View All	First	1-5 of 5	Last
Level Name	All Values	Description		View Detail	Delete					
CORPORATE	☒	CORPORATE		View Detail	Delete					
COMPANY	☐	COMPANY		View Detail	Delete					
DIVISION	☐	DIVISION		View Detail	Delete					
DEPARTMENT	☐	DEPARTMENT		View Detail	Delete					
BRANCH	☐	BRANCH		View Detail	Delete					

OK Add

Tree Levels page

To modify, add, or delete tree levels:

- To edit level details, click the appropriate View Detail link.
- To permit nodes to skip over a level and report to a higher level, clear the All Values check box.

For example, you might want to skip levels if you have one or more departments that are not part of any division but report directly to the COMPANY level. Select the All Values check box to make sure that all values from lower levels report to a node at this level.

Note. The All Values check box for the top level (root node) is selected but not available. You cannot skip over the top level.

3. To delete a level, click the appropriate Delete link.
You cannot delete a level that has nodes associated with it.
4. To add new levels, click the Add button.
The Tree Levels page appears.

Note. When the multi-user environment is enabled, users can only add new levels to a branched tree when the root branch is checked out and the tree has no other checked out branches.

See [Chapter 2, “Introduction to PeopleSoft Tree Manager,” Working with the Multi-User Environment, page 15.](#)

5. Enter a name for the level.
Use a name that reflects what the nodes at this level represent. For example, the first level in the Department Security tree is CORPORATE, indicating that the root node is Corporate Headquarters.
6. Specify whether nodes can “skip over” the level.
Select this option if you want to make sure that all values from lower levels report to a node at this level. To allow nodes to skip a level, clear the All Values check box.
7. Click the OK button.
The Tree Level page closes. If you entered the name of an existing level from another tree, the level name is added. If you entered a new name, PeopleSoft Tree Manager displays the page for entering tree level information. The displayed page is the page specified for levels in the tree structure. For most trees, it is the Tree Level page.

Setting Display Options

Access the Configure User Options page.

Configure User Options

Display Options

- ☒ Display Node Id
- ☒ Display Node Description
- ☒ Display Detail Values
- ☒ Show Detail Description
- ☐ Display Levels

Display Lines Per Page:

Nodes Drag/Drop Default Action

- ☐ Paste As Sibling Node
- ☒ Paste As Child Node

Configure User Options page

To display or turn off tree node descriptions:

1. Select each check box to choose a display option.

The Display Levels check box is not available if levels are not used.

2. Enter the number of lines you want each page to show. The default is 60 lines.

The new number of lines entered remains valid until you change it again. The value remains persistent even if the user ends and restarts an internet session.

Note. Displaying a large number of lines may impede performance. PeopleSoft recommends a number of 300 lines per page.

The following page shows all display options on the screen: node ID, node description, detail values, and levels:

Tree Manager

SetID: QEDM1
Last Audit: Valid Tree
Mode: *Edit* | [Release Tree](#)

Effective Date: 05/05/1997
Status: Active

Tree Name: QE_PERS_DATA
Personal Data Tree

[Save As](#)
[Close](#)
[Tree Definition](#)
[Display Options](#)
[Print Format](#)

00001 >

[Collapse All](#) | [Expand All](#)
[Find](#)

First Page
8 of 63
Last Page

- 10100 - Office of the President Level :COMPANY
 - [8001] - ASD
 - [8501] - BENNETT
 - [8661] - CHERRIER
- 10200 - Human Resources Level :DIVISION
- 10300 - Controllers Level :DIVISION
- 10400 - Retail Services Level :DIVISION
- 10900 - Operations Administration Level :DIVISION

Example of a tree with all display options turned on

You can click the level name next to the node to display the Levels page and edit the level information.

Note. Tree node descriptions may not be visible if the effective date of the tree is earlier than the effective date of the node.

Setting the Default Action for Dragging and Dropping Nodes

Use the Nodes Drag/Drop Default Action group box to set the default action for dragging and dropping nodes. Select either the Paste as Sibling Node icon or the Paste as Child Node icon.

Note the following options when setting the drag-and-drop default action:

- When right-handed users drag nodes using the *left* mouse button, they drop nodes using the set default action. When right-handed users drag nodes using the *right* mouse button, they drop nodes using the action that is not set as the default action.
- When left-handed users drag nodes using the *right* mouse button, they drop nodes using the set default action. When left-handed users drag nodes using the *left* mouse button, they drop nodes using the action that is not set as the default action.
- For Macintosh systems, because one mouse button exists instead of two, users dragging nodes will drop nodes using the set default action.
- The setting for the drag and drop default action is session-based. For this reason, after a user closes a tree, this setting reverts to the default assignment *Paste As Child Node*.

See Also

[Chapter 3, “Using PeopleSoft Tree Manager,” Using Drag and Drop, page 36](#)

Using Navigation Options

Access the Node Navigation page.

Node Navigation Page

This Page allows User to set a Page to be accessible via "Edit Data" Action Image.

Navigation Links		Customize Find View All 	First  1 of 1  Last
Component	Page		
 Department	Department		

Node Navigation page

You can select a detail page to open when editing data for nodes or details. For example, using the Personal Data tree, you could navigate to pages such as Personal Data, Benefits, or Salary Information.

The page reflects the node or detail selection when you clicked the Navigation Options link. If no selection was made, the page reflects the first entry, node or detail, on the Tree Manager page.

Note. This page is only available if the multiple navigation options have been configured on the Tree Structure record.

Component	Lists components that you can navigate to when editing tree node or detail value data.
Page	Displays pages that you can navigate to within the component.
	Identifies the current navigation selection.
Set	Click a page and then click this button to change navigation to the selected page.
Reset Default	Click to change the navigation back to the default page specified in the tree structure.
Cancel	Click to return to the Tree Manager page without saving any changes.

Note. The newly selected navigation path remain current for the browser session. The path returns to the default for each new session.

Printing Trees

You can print either part of the tree or the whole tree. When you print an opened branched tree, just the branch prints.

To print a tree:

1. Highlight the areas to print.

To print a whole tree, highlight the root node, or do not highlight any part of the tree.

To print part of a tree, highlight the top node for the hierarchy that you want to print. You can also select a detail value belonging to that hierarchy.

Note. You cannot print a branch from the main tree. If you highlight a branch and click the Print Format link, a warning message appears asking you to first open the branch.

- Click the Print Format link on the navigation bar to format the entire tree so that it can be printed from your browser's print function.

The expanded tree appears in your browser. If your tree is large, it probably be too long to fit in one page, and you need to scroll to view all the parts of the tree.

Note. The concept of *pages* does not exist on the Print Format page. For this reason, if a selected node hierarchy is too large, your browser may time out. To reduce the chances of a time-out occurring, print only the necessary portions of the tree.

- Click your browser's Print button or select File, Print from your browser to print the tree.

Note. Tree print jobs are sent to your default printer.

Using Tree Viewer

Tree Viewer is a read-only version of PeopleSoft Tree Manager. It provides security administrators with an easy way to limit some users to read-only access for all trees.

The only actions available in Tree Viewer are Display Options, Print Format, and Close. Navigation options are the same as in Tree Manager.

The following images are available when displaying trees in Tree Viewer:



Expanded Node: Represents an open node, showing all lower levels of the hierarchy.



Collapsed Node: Represents a node with its contents out of sight until expanded.



Terminal Node: Represents a node that has no children.



Branch Node: Represents a node that has been branched.



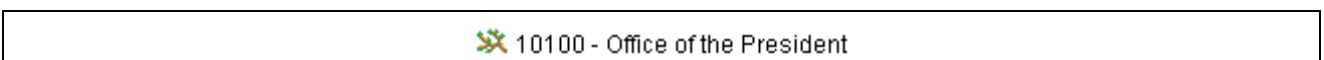
Detail Value or Leaf (detail/summary trees only): Represents an individual field value attached to a node at the end of a branch.



Expand Node Hierarchy: Expands all child objects.

Tree Viewer ignores branches. The root node of the main tree appears with a branch indicating that a branched node, or nodes, exist. However, the branched node appears with a folder node.

This example shows the root node of a tree that contains a branched node:



Example of root node of a tree with a branched node

CHAPTER 4

Creating Trees

This chapter provides an overview of the steps to create trees and discusses how to:

- Create detail tree structures.
- Create summary tree structures.
- Define new trees.
- Work with tree branches.
- Grant security access to trees or branches.
- Perform audits.
- Set performance options.

Understanding Steps to Create Trees

Trees are built from the highest level of the hierarchy (root node) to the lowest level of the hierarchy. Every tree is based upon a structure. The structure defines the links between your tree and the underlying tables to which it refers. There are two main kinds of tree structures:

- *Detail tree structures.*

There are two types of detail trees—detail-value (summer) and node-oriented (winter) trees.

- *Summary tree structures.*

These are used for PS/nVision reporting using summary ledgers.

These are some basic steps to create trees:

1. Create the tree structure or find an existing tree structure to use.
2. Create the tree definition.
The tree definition specifies:
 - Tree structure.
 - The tree name and key values.
 - How the tree handles detail values.
 - Whether the tree uses levels.
3. Specify the levels in the tree, if necessary.
4. Insert the tree nodes that define the hierarchy of the tree.
5. Attach detail values as “leaves” on your nodes.

Most types of trees—detail trees, summary trees, and dynamic detail trees—have detail values. However, you skip this step for node-oriented trees.

Creating Detail Tree Structures

This section discusses how to:

- Define detail tree structures.
- Define levels.
- Define node properties.
- Define details.

When you define a tree structure, you specify the pages and record definitions PeopleSoft Tree Manager uses to store data about the parts of a tree. When you add a new node, level, or detail value to a tree, PeopleSoft Tree Manager uses this information to determine the component (pages) to capture the relevant application data. When the specified component is displayed, all of the standard business logic that is part of that component is invoked.

Pages Used to Create Detail Tree Structures

Page Name	Object Name	Navigation	Usage
Tree Structure Properties	PSTREESTRCTDEFN	Tree Manager, Tree Structure, Create New Tree Structure	Specify tree type, key fields, and navigation options.
Tree Levels	PSTREESTRCTLVL	Select the Levels tab on the Tree Structure Properties page.	Specify the page and record to enter and store information about tree levels.
Tree Nodes	PSTREESTRCTNODE	Select the Nodes tab on the Tree Structure Properties page.	Specify the page and record used to enter and store information about tree nodes.
Tree Details	PSTREESTRCTDETL	Select the Details tab on the Tree Structure Properties page.	For detail trees, specify the page and record used to enter and store detail information. (Not applicable to node-only trees.)

Defining Detail Tree Structures

Access the Tree Structure Properties page.

Tree Structure Properties

Structure ID: QE_PERS_DATA

*Description: Personal Data

*Type: Detail

Additional Key Field

- ☒ SetID Indirection
- ☐ Business Unit
- ☐ User Defined
- ☐ None

Navigation Options

- ☐ Node Multi-Navigation
- ☐ Detail Multi-Navigation

Tree Structure Properties page

Type

The default value is *Detail*.

Additional Key Field

Select from the following values:

SetID Indirection: When you create the tree, both the tree name and the setID identify it. Including the setID as part of the tree key means that you can use setID to share the tree definition among multiple business units.

Business Unit: Use the Nodes tab to select a specific business unit to act as the tree's key. Business Unit structures can only be used with node-oriented trees (trees with no detail values).

User Defined: This option is a deprecated feature. You should try to create all of your trees either using *SetID*, *Business Unit*, or *None*.

Note. User Defined trees cannot be used with other PeopleSoft tools such as Query and PS/nVision. There are no current plans to enhance these tools to work with User Defined keyed trees so you should avoid using this option.

None: Your tree does not contain an additional key. It is keyed only by tree name and effective date.

Navigation Options

Select to enable multi-navigation for nodes and details.

Multi-navigation enables you to navigate to any pages that are relevant to the node or detail pages specified on the tree structure. PeopleSoft Tree Manager enforces the set of rules to determine which pages should be included in the list.

Multi-navigation is not available for Summary structure types.

See [Appendix A, "Setting Multi-Navigation Paths," page 121](#).

Defining Levels

Access the Tree Levels page.

Structure

Levels

Nodes

Details

Tree Levels

Structure ID:	QE_PERS_DATA
Record Name:	TREE_LEVEL_TBL 
Page Name:	TREE_LEVEL 
Component Name:	
Menu Name:	
Menu Bar Name:	
Menu Item Name:	

Tree Levels page

When you create a new level in a tree, PeopleSoft Tree Manager displays the page you specify in the Page Name field in the Tree Levels page and stores the application data you enter using the record definition in the Record Name field. The default values for these fields come from the standard Tree Manager page.

When using standard pages, you do not need to enter anything in the Menu Name or Menu Bar Name fields. However, if you want to store level information using something other than TREE_LEVEL_TBL, then you have to create a page and component that uses that new record definition. You must also ensure that the component has been defined on a menu somewhere in your system and specify all of this information on this page.

Defining Node Properties

Access the Tree Nodes page.

Structure	Levels	Nodes	Details
Tree Nodes			
Structure ID:	QE_PERS_DATA		
*Record Name:	QE_DEPT_TBL 		
*Field Name:	DEPTID 		
*Page Name:	QE_DEPT_TBL 		
Component Name:	QE_DEPT_TBL 		
Menu Name:	QE_SAMPLE_APPS 		
Menu Bar Name:	USE 		
Menu Item Name:	QE_DEPT_TBL 		

Tree Nodes page

Enter the record name, field name, and page name to use for entering and storing information about tree nodes.

For most detail value trees, leave *TREE_NODE* in the Page Name field, *TREE_NODE_TBL* in the Record Name field, *TREE_NODE* in the Field Name field, and *TREE_NODE* in the Page Name field.

If you use the standard *TREE_NODE* page and *TREE_NODE_TBL*, you do not need to enter anything in the other menu fields. However, if you want to use any other page or record, you have to create a page and component that uses that new record definition, and make sure that the component has been defined on a menu in your application.

For a node-only tree, where each node represents a detail value, use the page, record definition, and field that correspond to the kind of detail value you're entering. For example, if each node represents a department (as in the Department Security table), use the *DEPARTMENT_TREE* page, the *DEPT_TBL* record definition, and the *DEPTID* field. You would also identify the component that the *DEPARTMENT_TREE* page is a part of, as well as all of the menu information.

Note. If you are creating a business unit or user-defined key tree structure, the Tree Nodes page displays a field for entering the business unit or user-defined key field.

Note. If the *TREE_NAME* field exists in the User Node table, then the User node data (node descriptions, and so on) cannot be shared between trees with different names. For this reason, if you copy a tree using the Save As function in PeopleSoft Tree Manager or the Copy function in the Copy/Delete Tree utility, and user node table includes the *TREE_NAME* field like one of the key fields, you must manually insert the new tree's node descriptions.

Defining Tree Details

Access the Tree Details page.

Structure	Levels	Nodes	Details
Tree Details			
Structure ID:	QE_PERS_DATA		
Record Name:	QE_EMPLOYEE 		
Field Name:	EMPLID 		
Page Name:	QE_EMPLOYEE 		
Component Name:	QE_EMPLOYEE 		
Menu Name:	QE_SAMPLE_APPS 		
Menu Bar Name:	USE 		
Menu Item Name:	QE_EMPLOYEE 		

Tree Details page

This page is used to define the application data and component used to maintain the detail values for your tree. This page should only be filled in for structures that you plan to use for detail-value trees (summer trees).

Enter the name of the page, component, record definition, and key field name that will be used when adding or updating the application data for a detail value. For example, if each detail value represents a department, use a page, component, and menu path that allows you to create and update department information.

Note. When the PeopleSoft Tree Manager searches for values for dynamic detail and detail ranges, the search is based first on the override search record specified on the detail menu. By doing this, the values displayed are only those that the user would normally have access to through the Application component. If an override search record is not specified on the menu, then the system uses the component's search record. If there is no component search record, the system uses the tree structure detail record.

Click the Save button to save your new detail tree structure.

Note. Unlike the level and node information, there is no standard page and record for detail values. These are always built on application-specific tables.

Creating Summary Tree Structures

You use summary trees to group nodes from an existing detail tree without duplicating the entire tree structure. Summary trees are used with PS/nVision reporting off of summary ledgers, where the data is rolled up using a detail tree and stored with nodes from that detail tree instead of detail values.

This section discusses how to:

- Define summary tree structures.
- Define summary tree levels.

- Define summary tree nodes.
- Define summary tree details.

Pages Used to Define Summary Trees

Page Name	Object Name	Navigation	Usage
Tree Structure Properties	PSTREESTRCTDEFN	Tree Manager, Tree Structure, Create New Tree Structure	Define tree type and select a detail tree to summarize.
Tree Levels	PSTREESTRCTLEVL	Select the Levels tab on the Tree Structure Properties page.	Specify the page and record to enter and store information about tree levels.
Tree Nodes	PSTREESTRCTNODE	Select the Nodes tab on the Tree Structure Properties page.	Specify the page and record used to enter and store information about tree nodes.
Tree Details	PSTREESTRCTDETL	Select the Details tab on the Tree Structure Properties page.	Specify the record and field information used to summarize the tree.

Defining Summary Tree Structures

To create a summary tree structure:

1. Access the Tree Structure Properties page.
2. Enter a description for the tree structure.
3. Select *Summary* as the type.
4. Enter a detail tree name using the search prompt.
5. Enter a detail setID.
6. Enter a level number using the search prompt:

The level number defines the level in the detail tree that is used as the detail values for the summary tree. (The lowest level of detail in the summary tree is made up of all of the nodes from the detail tree at a specified level.)

The search results lists only the detail levels related to the selected detail tree.

Defining Summary Tree Levels

To define levels for the summary tree structure:

1. Access the Tree Levels page.
2. Enter the record name and page names using the search prompts.

When you create a new level in a tree, PeopleSoft Tree Manager displays the page you specify in the Page Name field in the Tree Levels page and stores the data you enter using the record definition in the Record Name field. The default values for these fields come from the standard Tree Manager page.

When using standard pages, you do not need to enter anything in the Menu Name or Menu Bar Name fields. However, if you want to store level information using something other than `TREE_LEVEL_TBL`, then you have to create a page and component that uses that new record definition. You must also ensure that the component has been defined on a menu somewhere in your system and specify all of this information on this page.

Defining Summary Tree Node Properties

To define nodes in the summary tree structure:

1. Access the Tree Nodes page.
2. Enter the record name, field name, and page name to use for entering and storing information about tree nodes.

Defining Summary Tree Details

To define tree details for the summary tree structure:

1. Through PeopleSoft Application Designer, create a view with a record type of SQL View.

For example, if you create a summary tree based on a department detail tree that is keyed by `setID`, and the detail tree uses `PS_TREE_NODE_TBL` to store the node user data, then your SQL view might contain the following fields:

- `SETID`
- `DEPTID`
- `EFFDT`
- `DESCR`

2. Use the following SQL:

```
Select A.SETID
,A.TREE_NODE
,A.EFFDT
,B.DESCR
from PSTREENODE A
,PS_TREE_NODE_TBL B
where A.SETID = '<your setid>'
and A.TREE_NAME = '<your tree name>'
and A.SETID = B.SETID
and A.TREE_NODE = B.TREE_NODE
and A.TREE_LEVEL_NUM = <your detail tree level number to be summarized>
and B.EFFDT =
(select MAX(EFFDT)
from PS_TREE_NODE_TBL
where SETID = B.SETID
and TREE_NODE = B.TREE_NODE
and EFFDT <= A.EFFDT)
```

Note. In this SQL statement, `TREE_LEVEL_NUM` must match the level number specified on the Tree Structure Property page.

3. Select the Details tab on the Tree Structure Properties page.

The Tree Details page appears.

4. In the Record Name field, enter the SQL view that you created.

Make sure that the setID, tree name, and level number in the view is the same as what you entered on the Tree Structure Properties page.

5. For the Field Name field, enter the field from the view that you are summarizing.

For example, DEPT_ID.

6. Click the Save button to save your new summary tree structure.

Defining Trees

This section discusses how to:

- Define basic attributes.
- Add a root node.
- Define additional nodes.
- Insert nodes into trees.
- Define detail values.

Pages Used to Define Trees

Page Name	Object Name	Navigation	Usage
Tree Definition and Properties	PSTREEDEFN	Tree Manager, Tree Manager, Create New Tree	Specify general attributes for a tree.
Root Node	PSTREEROOTLEVELS	On the Tree Definition and Properties page, enter the appropriate values and click OK.	Define tree levels and the root node.

Defining Basic Attributes

Access the Tree Definition and Properties page.

Tree Definition and Properties

*Tree Name:

*Structure ID:

*Effective Date: *Status:

*Description:

*Category: [Define Tree Levels](#)

*Use of Levels: [Performance Options](#)

*SetID:

Audits

☐ All Detail Values in this Tree

☐ Allow Duplicate Detail Values

Item Counts

Node Count:	23
Leaf Count:	109
Level Count:	5
Branch Count:	0

Tree Definition and Properties page

Structure ID

Select a tree structure ID. Define structures using the Tree Structure Properties page.

Status

Select a status of *Active* or *Inactive*. If you mark a tree as inactive, no other users have access to your tree from other PeopleSoft applications or tools.

Category

Select or add a category. Categorizing is a user-defined way of organizing trees so that they are easier to find when using the tree search pages.

Note. Previously, the category determined how trees were arranged at the highest level and was an important visual clue in organizing trees. Category is now only used as a search value.

Use of Levels

Select a method for enforcing levels. You should use *Strictly Enforced* or *Loosely Enforced* levels unless you have a compelling reason not to. Some features, such as creating summary trees, require levels.

Note. For an existing tree, you can change the Use of Levels field. For example, you can change *Strictly Enforced* levels to *Loosely Enforced* levels, but you cannot change from not using levels to using them.

Strictly Enforced: All the nodes at a particular level represent the same kind of information. In an organization tree, for example, all nodes at one level represent companies, all nodes at the next level represent divisions, and so on. With *Strictly Enforced* levels, each node has a level assigned to it based on its position in the tree. Nodes can skip levels, and the PeopleSoft Tree Manager will visually display any levels that are skipped.

Loosely Enforced: The nodes at the same visual level of indentation do not all represent the same kind of information, or nodes representing the same kind of information appear at multiple levels. With *Loosely Enforced* levels, you assign a level to each node individually; the level is not tied to a particular visual position, although the nodes still have hierarchical parent/child relationships.

Note. Changing a tree from *Loosely Enforced* levels to *Strictly Enforced* levels is not recommended.

Not Used: The nodes in the tree have no real hierarchy or reporting structure, but do form a logical summarization structure. With this option, nodes do not have levels associated with them.

All Detail Values in this Tree

Select to check if all values in the detail value table should be included in the tree.

For example, if you want to make sure that all of the department IDs in the DEPT_TBL for a given setID are contained in the DEPT_SECURITY tree for that setID, select this box, and PeopleSoft Tree Manager will check for any department IDs that are not found in the tree.

If you select this check box and click the Performance Methods link, you can select an option in the Auditing All Detail Values group box on the Performance Options page.

Note. This option is not available for use with winter trees.

See [Chapter 4, “Creating Trees,” Selecting Performance Options, page 69](#).

Allow Duplicate Detail Values

Select to skip the audit that checks for duplicate detail values in the tree.

When selected, you can have the same detail value appear under different parent nodes.

Note. This option is not available for use with winter trees.

Perform Audits

Click to run the selected audit option from this page.

PeopleSoft Tree Manager also performs audits whenever you save a tree. However, no audits are performed if you save the tree using the Save Draft option.

Item Counts

Displays the number of nodes, leaves, levels, and branches in the currently opened tree or branch. It does not count nested branches (branches with a parent branch that is different than a currently opened branch)

Define Tree Levels

Click to access the Tree Levels page and add, update, or delete tree levels.

See [Chapter 3, “Using PeopleSoft Tree Manager,” Defining Tree Levels, page 41](#).

Performance Options

Click to access the Performance Options page and set access method, tree selector or selector options. You can also set Auditing All Detail Values option as well as Tree Change Service Operation options.

Note. Access Method, Tree Selectors and Selector options are used mainly for optimizing tree usage with PS/nVision and Query when using the In Tree criteria option.

See [Chapter 4, “Creating Trees.” Setting Tree Performance Options, page 68.](#)

Adding a Root Node

Access the Root Node page.

Enter Root Node for Tree

Tree Name: PS_DEPARTMENTS

Step 1: Set Up Tree Levels

Tree Levels				
Level Name	All Values	Description	View Detail	Delete Level
	☐		View Detail	Delete Level

Add Level

Step 2: Define Root Node

*Root Node:

OK Cancel

Root Node page

You create a tree from the top down. You start by creating the root node, then add the children of the root node, and continue down to the detail values (if the tree has them). If the tree uses levels, then you must first define the level for the root node. You may want to set up additional levels at this time.

To add a root node:

1. Add tree levels by clicking the Add Level button.
The Tree Levels page appears.
2. Enter a name for the level.

Use a name that reflects what the nodes at this level represent. For example, the first level in the Department Security tree is *CORPORATE*, indicating that the root node is Corporate Headquarters.

You can also enter the name of a level from another tree.

Note. You can also use the search box to search for names of existing levels.

3. Specify whether nodes can *skip over* the level.

The All Values check box specifies whether PeopleSoft Tree Manager permits nodes to skip over the level you're defining to report to a higher level. Select this check box to make sure that all values from lower levels report to a node at this level. Clear this check box to allow nodes to skip a level. For example, you might want to do this if you have one or more departments that are not part of any division but report directly to the COMPANY level.

Note. When you are adding a top level (the root node), the All Values check box is selected but unavailable. You cannot skip over the top level.

4. Click OK.

The Tree Levels page closes. If you entered the name of an existing level from another tree, the level name is added. If you entered a new name, PeopleSoft Tree Manager displays the page for entering tree level information. The displayed page is the page specified for levels in the tree structure. For most trees, it is the Tree Levels page.

5. Enter a new root node name or select an existing root node.

If you are entering new node information, you must enter the information in the Tree Nodes page.

6. Click OK.

The tree appears with the root node on the page.

Note. When the multi-user environment is enabled, a newly created tree appears by default in edit mode.

Inserting Nodes into Trees

For more information on inserting nodes into trees, read the following documentation:

See [Chapter 3, "Using PeopleSoft Tree Manager," Inserting Nodes, page 28](#).

See [Chapter 3, "Using PeopleSoft Tree Manager," Working with Tree Nodes, page 26](#).

Adding Detail Values

For more information on adding detail values, read the following documentation:

See [Chapter 3, "Using PeopleSoft Tree Manager," Adding Detail Values, page 33](#).

See [Chapter 3, "Using PeopleSoft Tree Manager," Working with Detail Values, page 32](#).

Working with Tree Branches

This section provides an overview of branching and discusses how to:

- Create tree branches.
- Open tree branches.
- View node properties on tree branches.
- Remove tree branches.

Understanding Tree Branches

Branching means taking a limb of the tree—a section of the tree that reports into a single node—and creating an actual tree object to hold that limb. Branching a tree can improve PeopleSoft Tree Manager performance (by reducing the amount of data it needs to load when you open a large tree). After you branch a tree, you can specify different object security settings for the branches. When a tree is branched, multiple users can maintain separate sections of the tree while working simultaneously.

When you branch a tree, you're splitting the original tree into two parts. PeopleSoft Tree Manager creates one new object for your branch and another object to hold the remaining part of the tree. After branching, you have two objects:

- The new branch, or subtree, that you created.
- A *branch* that corresponds to the rest of the original tree (minus the new branch).

You can use PeopleSoft Object Security to give users different security access to these objects. For example, by restricting access to the new branch, you can give users access only to that branch.

Assigning different security access to different parts of the tree prevents users from making unauthorized changes to the parts of the original tree (tree branches) which they do not have access granted.

Note. Users can make copies of the entire tree by using the Save As option.

After you have created a branch, you can use it as you use any other tree. You can open it independently of the larger tree, modify it, or even create branches from it. When you're using the original tree, you cannot edit the branch's nodes or details until you open that branch.

Restrictions

The following restrictions have been applied to tree branches due to the risk of conflicts when multiple users are performing modifications to a branch tree at the same time:

- Moving nodes with subbranches.
- Switching levels on nodes with subbranches.
- Unbranching nodes with subbranches.
- PeopleSoft Tree Manager allows a maximum three levels of nested branches.

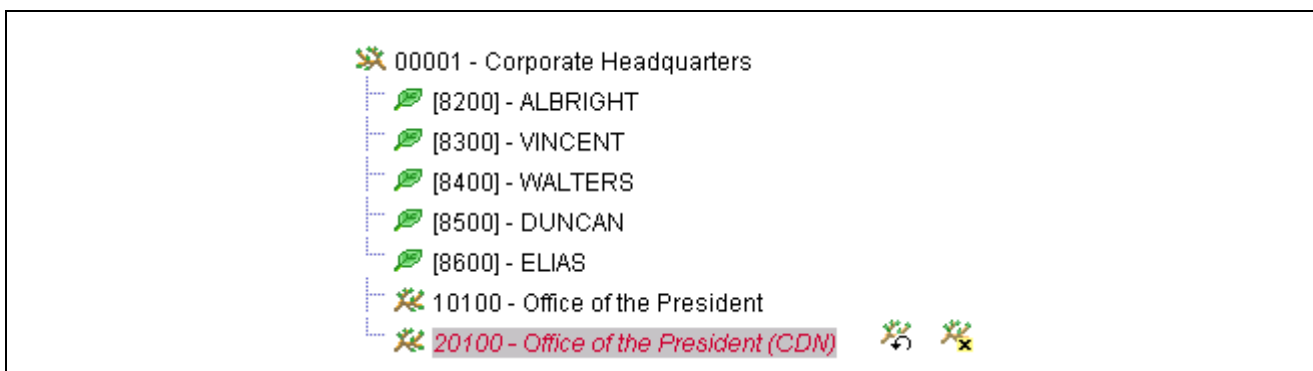
Note. A message will display if a user attempts to perform any of these actions.

When the multi-user environment is enabled, a user may not check out a tree branch if another user working with a different branch of the same tree has modified the tree definition and either *has* or *has not* saved the changes.

If users edit specific branches without modifying the tree definition, other users may still edit different branches of the same tree at the same time.

Creating Tree Branches

Select the required tree in PeopleSoft Tree Manager.



Office of the President (CDN) becomes a branch node

To create a tree branch:

1. Highlight the node that will be the root node of the branch.
2. Click the Create Branch icon.

PeopleSoft Tree Manager replaces the node icon with a branch node icon. None of the nodes or detail values reporting to the branched node appears in the tree display.

Opening Tree Branches

To open a tree branch, click the Open Branch icon. You can also use the Tree Manager search page.

Removing Tree Branches

To remove a tree branch:

1. Highlight the tree branch node.
2. Click the Unbranch icon.

PeopleSoft Tree Manager replaces the branch icon with the node icon. Any nodes that report to the selected node are now available in the tree.

When you remove a tree branch, do not forget to update PeopleSoft Object Security.

See Also

Enterprise PeopleTools 8.49 PeopleBook: Security Administration, “Implementing Definition Security”

Granting Security Access to Trees or Branches

You can use PeopleSoft Object Security to impose restrictions on your trees and tree structures. Users may have:

- Full access.
- Read-only access.
- No access.

You can also use PeopleSoft Object Security to restrict access to branches. You can give users access to an entire tree *except* for a branch or give them access to the particular branch without granting access to the tree itself.

The following example shows a tree containing two branches. The tree has full access, one branch has read-only access, and the second branch has no access.

Tree Manager

SetID:	QEDM1	Last Audit:	Valid Tree	Mode: <i>Edit</i> Release Tree 
Effective Date:	05/05/1997	Status:	Active	
Tree Name:	QE_PERS_DATA	Personal Data Tree		

[Save As](#)
[Close](#)
[Tree Definition](#)
[Display Options](#)
[Navigation Options](#)
[Print Format](#)

[Collapse All](#) | [Expand All](#)
[Find](#)

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Last Page


00001 - Corporate Headquarters




-  [8200] - ALBRIGHT
-  [8300] - VINCENT
-  [8400] - WALTERS
-  [8500] - DUNCAN
-  [8600] - ELIAS
-  10100 - Office of the President
-  20100 - Office of the President (CDN)

Tree Manager page: full access

In the Corporate Headquarters tree, users see all possible editing icons. Users can:

- Insert child nodes.
- Insert details.
- Edit dates.

Read-Only Access

The following example shows PeopleSoft Tree Manager with read-only access:

Tree Manager

SetID:		Last Audit:	Valid Tree
Effective Date:	01/01/1999	Status:	Active
Tree Name:	QE_JOBCODES		JobCodes

[Close](#)
[Display Options](#)
[Print Format](#)

[Collapse All](#) | [Expand All](#)
[Find](#)

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ALL_JOBS - All Job Codes

- EXECUTIVE - Executive
- EXEMPT - Exempt
- NON_EXEMPT - Non Exempt / Hourly
- CONSULTANTS - Consultants & Contractors

Tree Manager page: read-only access

In the Global Division branch, which has read-only access, only the Open Branch icon is available.

When users open the branch, a message warns that users cannot make changes to the branch.

When the read-only branch opens, no edit icons and no Save link appear.

No Access

If users try to access a tree or branch that does not allow access, they receive a warning message.

See Also

Enterprise PeopleTools 8.49 PeopleBook: Security Administration, “Implementing Definition Security,” Understanding Definition Security

Performing Audits

After you have completed your tree, you can have PeopleSoft Tree Manager verify that it meets the restrictions you set for it. For example, if you selected the All Detail Values in this Tree check box when you created the tree definition, PeopleSoft Tree Manager audit verifies that you have included all detail values.

You can perform a tree audit from the Tree Definition and Properties page, by saving the tree, by running the Repair Tree batch program, or by using the Tree Maintenance page. If you want to audit a *closed* tree, use the Tree Maintenance page. To get a report of all of the problems that have been found with the tree, use the Repair Tree program.

When you perform an audit, PeopleSoft Tree Manager displays a warning message in the following circumstances:

- One or more nodes have no detail values reporting to them.
- You selected the All Detail Values check box, but one or more defined values for the database field do not appear in the tree.

- If you have not selected the Allow Duplicate Details option, then PeopleSoft Tree Manager check for duplicate detail values and detail values with overlapping ranges.

Note. Although PeopleSoft Tree Manager attempts to detect overlapping detail values when the user inserts or modifies each detail value, the final audit process may detect overlapping or duplicate detail values that are not caught when the detail value is created or modified.

PeopleSoft Tree Manager also flags you where the problem is.

The warning message flags you that the tree is invalid. You can save the tree as a Draft tree only, and you cannot use it with other PeopleTools, such as PeopleSoft Query or PS/nVision, until the tree is valid.

At this point, you can either correct the problem that is causing the tree to be invalid, or use the Save As Draft feature to save the tree in an invalid (unfinished) state.

All audits report the first occurrence found of any problem listed in the table. The audits are performed first on the displayed nodes and details, and then on the nodes in the database.

Node audits are only performed on open trees. If you run an audit from the Tree Maintenance page (from a closed tree), you only run the Detail audit. When you audit a tree branch, the node audits are performed on the nodes in the current branch only, while the detail audits are performed on all branches.

Note. These audits report only problems, not values. Run the Repair Tree program to get a complete list of problems with the tree.

The following table shows a complete list of audit checks:

Check For	Purpose	When Check Occurs
Overlapping Node Numbers	Reports first occurrence of two nodes whose internal node numbering is overlapping.	Always.
Nodes Outside of Parent's Range	Reports first occurrence of a node whose internal node number does not fall within the parent node's internal node number range.	Always.
Nodes Without Parents	Reports first occurrence of a node whose internal node number for a parent does not have an actual node with that number.	Always.
Duplicate Node Names	Reports the first duplicate node name when it finds a node with the same name reporting to a different parent node.	Always.

Check For	Purpose	When Check Occurs
Overlapping Detail Ranges	In a detail tree, reports when it finds any detail whose From and To range overlaps the To and From range of a different detail. Note. If your system runs on the Informix platform, this audit <i>may</i> take an inordinate time to complete. If you are dissatisfied with the time required for this audit to run, your database administrator can tune the performance of this audit by editing the audit's PeopleSoft SQL object so the audit can perform optimally with your environment. Database administrators working with platforms other than Informix may also use this PeopleSoft SQL object to tune the performance of this audit. See Chapter 4, "Creating Trees," Tuning the Performance of the Overlapping Detail Ranges Audit, page 65.	Always.
Nodes Without Leaves	In a detail tree, reports when any terminal node has no leaves.	Always.
All Detail Values	Reports if you have not included all detail values.	When the All Detail Values In This Tree option is selected in the Tree Definition and Properties page.
Duplicate Detail Values	Reports if there are any duplicate detail values.	When the Allow Duplicate Detail Values option is not selected in the Tree Definition and Properties page.
Skipped Levels	Reports when a level is skipped.	When the All Levels option is selected in the Tree Levels page.

Tuning the Performance of the Overlapping Detail Ranges Audit

If your system runs on the Informix database platform, you may notice that it requires an inordinate amount of time to complete the running of the Overlapping Detail Ranges audit. When this is the case, your database administrator can edit the audit's PeopleSoft SQL object to tune the performance of the audit.

The name of the PeopleSoft SQL object used for this audit is *PS_TDM_SQLOVERLAP*, and it is stored in the PeopleSoft database. Edit this object in PeopleSoft Application Designer.

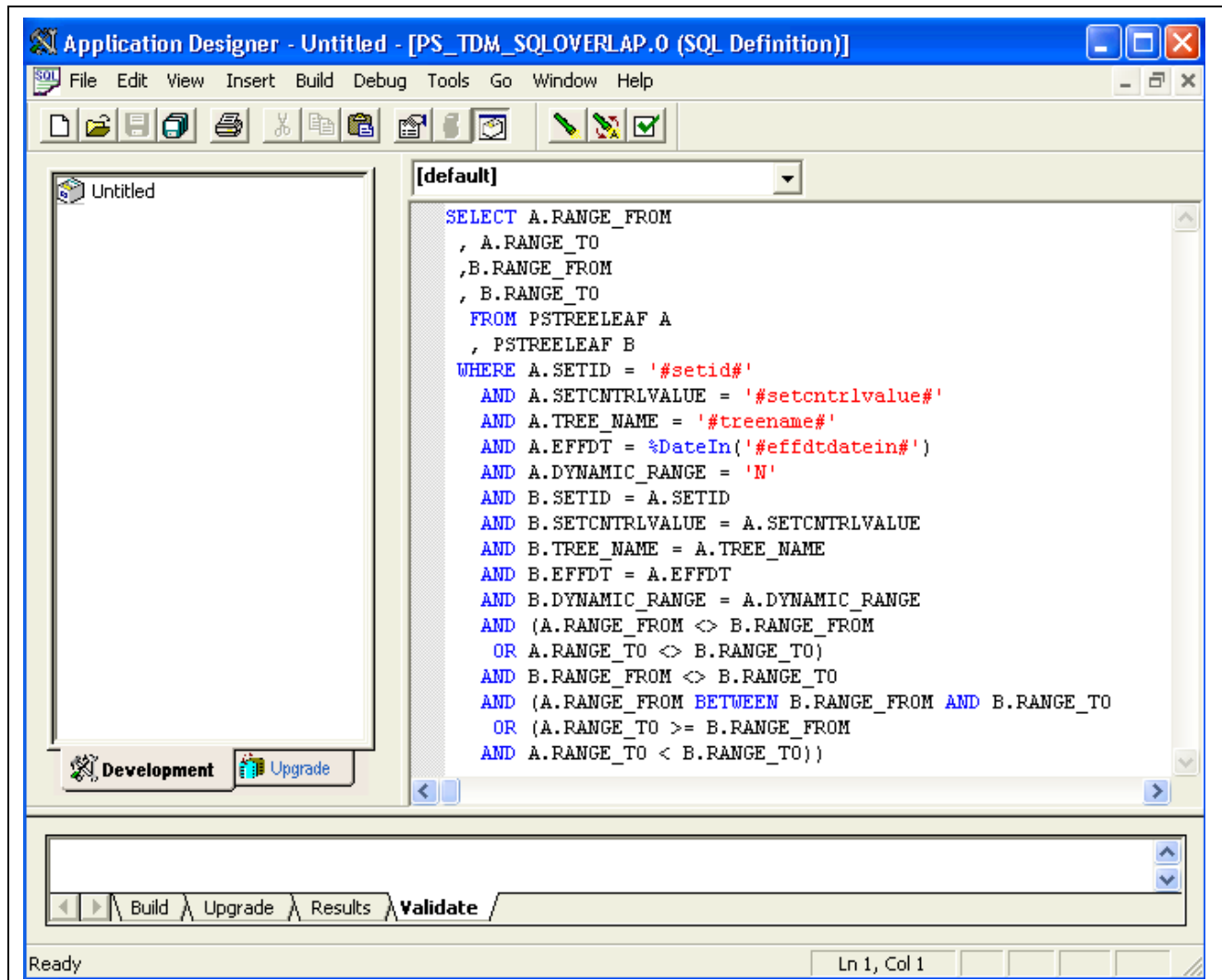
To tune the performance of the Overlapping Detail Ranges audit:

1. Select File, Open in PeopleSoft Application Designer.
2. Select *SQL* in the Definition drop-down list box.
3. Enter *PS_TDM_SQLOVERLAP* in the Name field of the Selection Criteria group box.
4. Click Open.

The default SQL used for detecting overlapping leaves appears in the Definition workspace.

5. Edit the SQL object as needed.

This is an example of the *PS_TDM_SQLOVERLAP_SQL* object in the PeopleSoft Application Designer:



Opening the *PS_TDM_SQLOVERLAP_SQL* object in PeopleSoft Application Designer

Specifying Information for Tree Keys

In order for the *PS_TDM_SQLOVERLAP_SQL* object to work properly, you must insert the following PeopleSoft-delivered tree-specific metavariables into the SQL:

- *#setid#* = SETID
- *#efftdatein#* = EFFTDATEIN
- *#setcntrlvalue#* = SETCNTRLVALUE

- #treename# = TREENAME

Each time the audit reaches one of these metavariables, the audit will insert the appropriate value.

Note. These metavariables only work for this SQL object. They are not systemwide metavariables.

Using Metavariables in the SQL Object

The following code provides an example of using metavariables:

```
SELECT /*+ USE_HASH( B ), ORDERED */
A.RANGE_FROM
, A.RANGE_TO
,B.RANGE_FROM
, B.RANGE_TO
FROM PSTREELEAF A
, PSTREELEAF B
WHERE A.SETID = '#setid#'
AND A.SETCNTRLVALUE = '#setcntrlvalue#'
AND A.TREE_NAME = '#treename#'
AND A.EFFDT = %DateIn('#effdtdatein#')
AND A.DYNAMIC_RANGE = 'N'
AND B.SETID = A.SETID
AND B.SETCNTRLVALUE = A.SETCNTRLVALUE
AND B.TREE_NAME = A.TREE_NAME
AND B.EFFDT = A.EFFDT
AND B.DYNAMIC_RANGE = A.DYNAMIC_RANGE
AND (A.RANGE_FROM <> B.RANGE_FROM
OR A.RANGE_TO <> B.RANGE_TO)
AND B.RANGE_FROM <> B.RANGE_TO
AND (A.RANGE_FROM BETWEEN B.RANGE_FROM AND B.RANGE_TO
OR (A.RANGE_TO >= B.RANGE_FROM
AND A.RANGE_TO < B.RANGE_TO))
```

The code in this example includes #setid# at each point where the SETID value should be inserted. The same applies to the #treename#, #effdtdatein#, and #setcntrlvalue# metavariables.

Using Metavariables Multiple Times Within the SQL Object

The following example shows how to use metavariables multiple times within the PS_TDM_SQLOVERLAP_ SQL object. Specifically, the code from the previous example has been rewritten using metavariables in both the top SELECT and bottom SELECT statements in the Union.

```
SELECT A.RANGE_FROM
, A.RANGE_TO
,B.RANGE_FROM
, B.RANGE_TO
FROM PSTREELEAF A
, PSTREELEAF B
WHERE A.SETID = '#setid#'
AND A.SETCNTRLVALUE = '#setcntrlvalue#'
AND A.TREE_NAME = '#treename#'
```

```

AND A.EFFDT = '#effdtdatein#'
AND A.DYNAMIC_RANGE = 'N'
AND B.SETID = A.SETID
AND B.SETCNTRLVALUE = A.SETCNTRLVALUE
AND B.TREE_NAME = A.TREE_NAME
AND B.EFFDT = A.EFFDT
AND B.DYNAMIC_RANGE = A.DYNAMIC_RANGE
AND (A.RANGE_FROM <> B.RANGE_FROM
    OR A.RANGE_TO <> B.RANGE_TO)
AND B.RANGE_FROM <> B.RANGE_TO
AND A.RANGE_FROM BETWEEN B.RANGE_FROM AND B.RANGE_TO
UNION
SELECT A.RANGE_FROM
, A.RANGE_TO
,B.RANGE_FROM
, B.RANGE_TO
FROM PSTREELEAF A
, PSTREELEAF B
WHERE A.SETID = '#setid#'
AND A.SETCNTRLVALUE = '#setcntrlvalue#'
AND A.TREE_NAME = '#treename#'
AND A.EFFDT = '#effdtdatein#'
AND A.DYNAMIC_RANGE = 'N'
AND B.SETID = A.SETID
AND B.SETCNTRLVALUE = A.SETCNTRLVALUE
AND B.TREE_NAME = A.TREE_NAME
AND B.EFFDT = A.EFFDT
AND B.DYNAMIC_RANGE = A.DYNAMIC_RANGE
AND (A.RANGE_FROM <> B.RANGE_FROM
    OR A.RANGE_TO <> B.RANGE_TO)
AND B.RANGE_FROM <> B.RANGE_TO
AND (A.RANGE_TO >= B.RANGE_FROM
AND A.RANGE_TO < B.RANGE_TO)

```

Note. In this SQL example, the statement which uses a UNION has been used instead of a PeopleSoft-delivered statement which uses the OR condition. This statement also uses Informix-specific hints.

Setting Tree Performance Options

You can set performance-enhancing options to improve the database performance of queries that use trees as selection criteria. This includes queries to which tree criteria are added by PS/nVision layouts and scopes. Both PeopleSoft Query and PS/nVision use the tree performance options. The performance options do not impact PeopleSoft Tree Manager itself, only the performance of programs that use the tree data.

Because of the many variations of data distributions, indexes, queries, and optimizers, you can choose SQL techniques that will tune your queries for optimum performance. By specifying these options at the tree level, your trees can be used in queries whether they are run through PS/nVision. Those options, however, can be overridden by the performance options set at the PS/nVision level.

Page Used to Set Tree Performance Options

Page Name	Object Name	Navigation	Usage
Performance Options	PSTREEDEFNPRPTY	Tree Manager, Tree Manager Create a new tree, or search for an existing tree. In the Tree Manager page, click the Tree Definition link. In the Tree Definition and Properties page, click the Performance Options link.	Select options to enhance tree performance as well as performance for queries that involve trees and nVision.

Selecting Performance Options

Access the Performance Options page.

Performance Options

Tree Name: QE_PERS_DATA

Access Method

- ☐ Use Literal Values
- ☒ Sub-SELECT Tree Selector
- ☐ Join to Tree Selector
- ☐ Use Application Defaults

Auditing All Detail Values

- ☒ Use All Tree Keys (Default)
- ☐ Use Not Empty Tree Keys
- ☐ Use This Audit Only In Batch

Tree Selectors

- ☒ Static Selector
- ☐ Dynamic Selectors

Tree Change Message Options

- ☒ Send Tree Change Message
- ☐ Don't send Tree Change Message

Selector Options

- ☐ Single Values
- ☒ Range of Values (>=...<=)
- ☐ Range of Values (BETWEEN)

OK Close

Performance Options page

Access Methods

Select an access method from:

Use Literal Values: Eliminates a SQL join by retrieving the detail ranges associated with the selected node and coding them in the SELECT statement.

Note. This option is not available for use with winter trees.

Sub-SELECT Tree Selector: Instead of adding the tree selector to the FROM list of the main query, the tree selector criteria and its relation to the data in the main query is within an EXISTS clause in the WHERE portion of the main query. This is called a *correlated subquery*.

Join to Tree Selector: Includes the tree selector table in the FROM clause and uses join criteria to select the appropriate rows from the “fact” table. This method is sometimes used by PS/nVision, even when another method is specified, if tree node information is needed to produce the report.

Use Application Defaults: Uses the tree performance options specified in the applications that use this tree. PS/nVision defaults to the tree performance options specified in a PS/nVision layout’s options. If performance options are not specified in PS/nVision, the PS/nVision’s default performance options are used. For PeopleSoft Query, this option defaults to the query’s sub-SELECT method.

Tree Selectors

Select a tree selector type from the following options:

Static Selector: A technique in which a selector represents the entire tree remains valid until the tree changes.

Dynamic Selectors: A technique in which PS/nVision creates a new tree selector for use in a section of a single report. The dynamic selector represents just the requested nodes.

Selector Options

Choose a selector option from the following values:

Single Values: Used only with dynamic selectors. This technique causes PS/nVision or PeopleSoft Query to build a selector using the individual detail values (from the detail table specified in the tree structure) that fall within the detail ranges of the selected nodes.

Range of Values (>= <=): For a tree with ranges of values, this makes the selectors more compact (fewer rows) and less likely to become obsolete as detail values are added. For some database optimizers, the syntax “fieldname >= RANGE_FROM_nn AND fieldname <= RANGE_TO_nn” gets a better access plan than BETWEEN.

Range of Values (BETWEEN): Similar to the other Range of Values selector, but use the syntax “fieldname BETWEEN RANGE_FROM_nn AND RANGE_TO_nn”. This is a better choice for ranged selectors on most database platforms.

Auditing All Default Values

If you’ve selected the All Detail Values in this Tree check box on the Tree Definition and Properties page and clicked the Performance Options link, you can choose from the following values:

Use All Tree Keys (Default): This is the existing default auditing behavior. Use this option if the performance time is acceptable.

Use Not Empty Tree Keys: If the performance time is unacceptable, attempt this option to expedite the process. If the performance time is still unsatisfactory, then attempt the next option below.

Use This Audit Only in Batch: If you select this option, All Detail Values in This Tree audit is ignored during online tree auditing or saving. Consequently, All Detail Values in This Tree audit is run only through the Application Engine tree audit process. Although Tree Manager allows you to proceed to save a

tree as a valid tree, you should use the *Save Draft* option. After you've saved the tree, proceed to start the Application Engine auditing process.

Note. Use this option only if the first two options fail to achieve the desired performance results.

Note. The Auditing All Default Values group box is read-only when you work with winter trees.

Tree Change Message Options

Select a Tree Change Message option from the following:

Send Tree Change Message: Select this option to send a TREE_CHANGE message when Tree changes are made.

Don't send Tree Change Message: Select this option if there are no subscribers to TREE_CHANGE service operations.

CHAPTER 5

Maintaining Trees

This chapter discusses how to:

- Maintain trees.
- Maintain tree structures.
- Subscribe to TREE_CHANGE service operations.

Maintaining Trees

This section discusses how to:

- Perform audits and delete trees.
- Copy trees.
- View trees.

Pages Used to Maintain Trees

Page Name	Object Name	Navigation	Usage
Tree Maintenance	PSTREEMAIN	Tree Manager, Tree Utilities, Copy/Delete Tree	Audit a closed tree, copy a tree, delete a tree, or view a tree.
Copy Tree	PSTREEDEFN	On the Tree Maintenance page, select a tree and click the Copy button.	Copy a tree.
Tree Viewer	PSTREEVIEWER	On the Tree Maintenance page, select a tree and click the View button.	View a tree.

Performing Audits and Deleting Trees

Access the Tree Maintenance page.

Tree Maintenance
Tree Structure Maintenance

Tree Maintenance

Tree Definitions
Customize | Find | View All |
First 1-7 of 7 Last

Select	Key Type	User Key	Tree Name	Effective Date	Valid Tree
☐	SetId	QEDM2	QE_ACCOUNTS	01/01/1900	Draft Tree
☐	SetId	QEDM1	QE_DEPT_DYNAMIC	01/01/1999	Valid Tree
☐	SetId	QEDM2	QE_DEPT_SEC	01/01/2001	Valid Tree
☐	None		QE_JOB_CODES	01/01/1999	Valid Tree
☐	SetId	QEDM1	QE_PERS_DATA	05/05/1997	Valid Tree
☐	SetId	QEDM1	TEST	10/16/2003	Draft Tree
☐	Bus Unit	QEBU1	QE_PROJECTS	04/25/2000	Valid Tree

Perform Audits
Copy
Delete
View

Tree Maintenance page

Key Type

Displays the key type associated with this tree.

SetID: The tree is identified by tree name and setID.*Business Unit:* The tree is identified by a business unit.*User Defined Node Key:* The tree is identified by a user-defined key.*None:* The tree does not contain an additional key. It is keyed only by tree name and effective date.**User Key**

Displays the user-defined node key.

This field is blank if the key type is *None*.**Valid Tree**

Displays the status of the tree.

Perform Audits

To audit a tree, select its check box and click the button.

The Last Audit field for the tree changes to *Valid Tree* if the tree passes the audit. If the tree fails the audit, the Last Audit field changes to *Draft Tree*.**Note.** You can get a detail listing of audit errors by running the Repair Tree batch program.**Copy**

To access the Tree Definition and Properties page and copy a tree, select a tree check box and click the button.

Delete

To delete a tree, select its check box and click the button.

View

To access the Tree Viewer page and view a tree, select a tree check box and click the button.

Note. Trees secured by PeopleSoft Object Security for anything but full access are not listed and cannot be updated or deleted from the Tree Maintenance page.

See Also

Chapter 6, “Auditing and Repairing Trees,” Using the Repair Tree Program, page 89

Copying Trees

Access the Copy Tree page.

Copy Tree

***Tree Name:**
***Structure ID:**
***Effective Date:** ***Status:**
***Description:**
***Category:**
***Use of Levels:** [Performance Options](#)
***SetID:**

Audits

☐ All Detail Values in this Tree
☐ Allow Duplicate Detail Values

Perform Audits

Item Counts

Node Count:	886
Leaf Count:	23547
Level Count:	15
Branch Count:	0

Copy Tree page

Make any necessary changes and click the Copy button.

Viewing Trees

Access the Tree Viewer page.

Tree Viewer

SetID: QEDM1
 Effective Date: 01/01/1999

Tree Name: QE_DEPT_DYNAMIC

[Collapse All](#) | [Expand All](#) | [Find](#)

[First Page](#)
[11 of 42](#)
[Last Page](#)

00001 - Corporate Headquarters

- []
- 21700 - Toronto Office
- 10100 - Office of the President
- 10600 - Branch Office Administration
- 11000 - Information Systems & Technlgy
- 11200 - Corporate Sales
- 41000 - Engineering
- 50000 - Manufacturing Division
- 55100 - Shipping
- 8000 - Intensive Care Unit

Close

Tree Viewer page

Note. Trees displayed in View mode do not differentiate between standard nodes and branches. All nodes expand and collapse so that you can view the whole tree. Use the Expand Node Hierarchy icon to expand all child nodes.

After viewing the tree information, click the Close button to return to the Tree Maintenance page.

Note. If the multi-user environment is enabled, users will not be able to delete a tree if any branch of the tree—or the tree itself—is checked out by any user.

Maintaining Tree Structures

This section discusses how to:

- Delete tree structures.
- Copy tree structures.
- View tree structures.

Pages Used to Maintain Tree Structures

Page Name	Object Name	Navigation	Usage
Tree Structure Maintenance	PSTREESTRCTMAINT	Tree Manager, Tree Utilities, Copy/Delete Tree, Tree Structure Maintenance	Copy a tree structure, delete a tree structure, or view a tree structure.
Copy Tree Structure	PSTREESTRCTCOPY	On the Tree Structure Maintenance page, select a tree structure and click the Copy button.	Copy a tree structure.
Tree Structure Properties	PSTREESTRCTDEFN	On the Tree Structure Maintenance page, select a tree structure and click the View button.	View a tree structure.
Tree Levels	PSTREESTRCTLEVL	On the Tree Structure Properties page, select the Levels tab.	View tree level properties.
Tree Nodes	PSTREESTRCTNODE	On the Tree Structure Properties page, select the Nodes tab.	View tree node properties.
Tree Details	PSTREESTRCTDETL	On the Tree Structure Properties page, select the Details tab.	View tree detail properties.

Deleting Tree Structures

Access the Tree Structure Maintenance page.

Tree Maintenance
Tree Structure Maintenance

Structure Maintenance

Tree Structures					Customize Find View All	First	1-7 of 7		Last
Select	Tree Structure ID	Description	Node Record Name	Detail Record Name					
☐	QE_ACCOUNTS	Account Hierarchy	TREE_NODE_TBL	QE_ACCOUNT_TBL					
☐	QE_DEPT_DYNAMIC	Dynamic Detail Tree	QE_DEPT_TBL	QE_EMPLOYEE					
☐	QE_DEPT_SEC	Department Security	QE_DEPT_TBL						
☐	QE_JOB_CODES	QEDMO JobCode Hierarchy	TREE_NODE_TBL	QE_JOB_CODE_TBL					
☐	QE_PERS_DATA	Personal Data	QE_DEPT_TBL	QE_EMPLOYEE					
☐	QE_PROJECT	Project Data	QE_PROJECT_TBL						
☐	TREE_NODE_DISTRIB	Sample Node Distribution	DEPT_NODE_TBL						

Copy
Delete
View

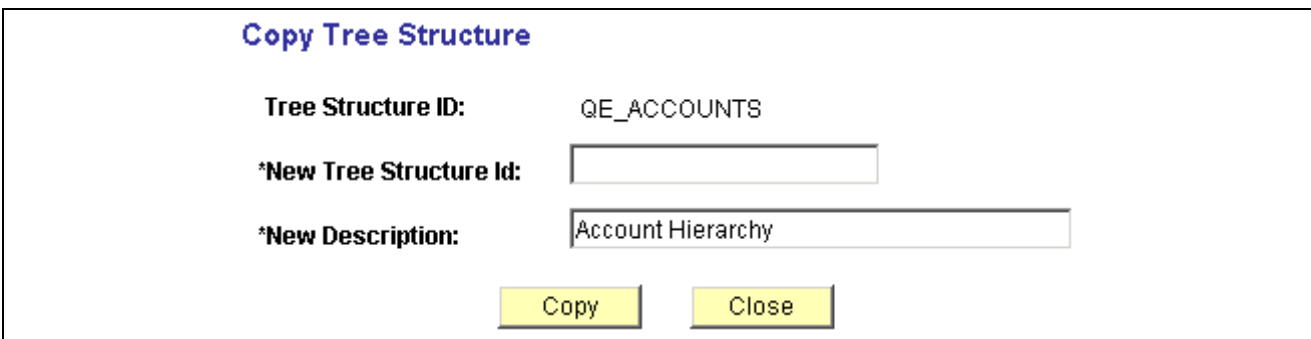
Tree Structure Maintenance page

Node Record Name	Displays the name of the record that stores information about the tree nodes.
Detail Record Name	Displays the name of the record definition that corresponds to the kind of detail value in the structure.
Copy	To access the Copy Tree Structure page and copy a structure, select a structure check box, and click the button.
Delete	To delete a tree structure, select its check box and click the button. You cannot delete a structure that is currently being used by a tree.
View	To access the Tree Structure Properties page and view a structure, select a structure check box and click the button.

Note. Tree structures secured by PeopleSoft Object Security for anything but full access are not listed and cannot be updated or deleted from the Tree Structure Maintenance page.

Copying Tree Structures

Access the Copy Tree Structure page.



Copy Tree Structure

Tree Structure ID: QE_ACCOUNTS

***New Tree Structure Id:**

***New Description:**

Tree Structure Maintenance - Copy Tree Structure page

To copy a tree structure:

1. Enter a new tree structure ID.
2. Change the description in the New Description field.
3. Click the Copy button.

You return to the Tree Structure Maintenance page. The new tree structure is listed.

Viewing Tree Structures

Access the Tree Structure Properties page.

Structure Levels Nodes Details

Tree Structure Properties

Structure ID: QE_PERS_DATA

*Description: Personal Data

*Type: Detail

Additional Key Field

☒ SetId Indirection

☐ Business Unit

☐ User Defined

☐ None

Navigation Options

☐ Node Multi-Navigation

☐ Detail Multi-Navigation

Tree Structure Properties page

Select the Levels, Nodes, and Details tabs to view additional information.

Click the OK or Cancel button to return to the Tree Structure Maintenance page.

See Also

[Chapter 4, “Creating Trees,” Understanding Steps to Create Trees, page 47](#)

Subscribing to TREE_CHANGE Service Operations

This section provides an overview of TREE_CHANGE service operations and discusses how to:

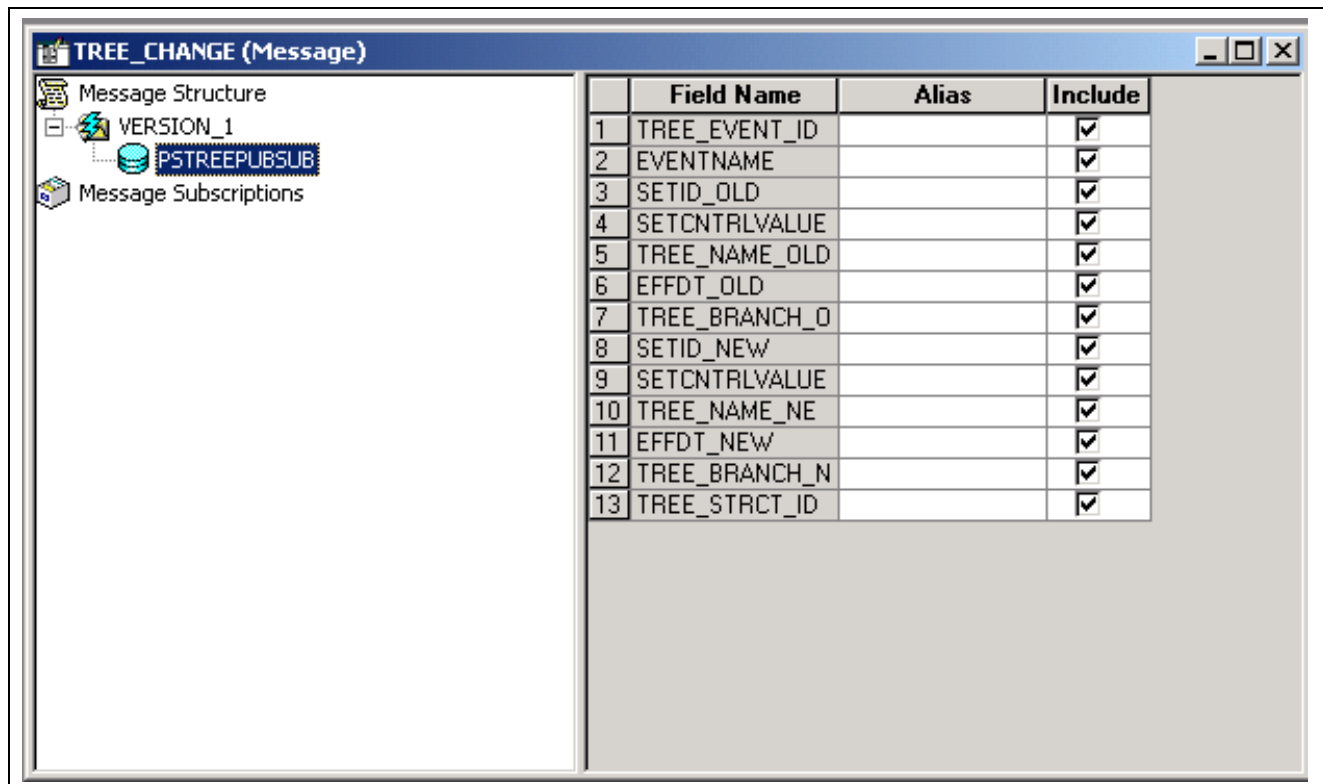
- Create a notification PeopleCode.
- Configure Integration Broker.
- Create a service operation handler.
- Set full access to the corresponding permissions list.
- Test a subscription process.

Understanding TREE_CHANGE Service Operations

Every time you perform an action in PeopleSoft Tree Manager to change a tree definition (such as delete, any kind of save, copy, branch, or unbranch), a TREE_CHANGE service operation is published based on the Tree Key information using the PSTREEPUBSUB record.

Note. From PeopleTools 8.48, sending a TREE_CHANGE service operation every time tree changes are made is optional. To improve performance, you can choose not to send a TREE_CHANGE service operation whenever you change a tree definition. The default setting is sending a TREE_CHANGE service operation. This service operation is not saved to the database.

If applications want to use TREE_CHANGE service operation, they must create a service operation handler. The service operation handler runs every time this service operation is published.



Application Designer - Tree Change (service operation)

Note. The field `EVENT_ID` is defined in the Financials database as a `Char, 20` field, and is used by a number of applications. In PeopleTools `PSTREEPUBSUB`, the field was defined as a `Number, 6`. To avoid conflicts, `EVENT_ID` has been removed from `PSTREEPUBSUB` and replaced with `TREE_EVENT_ID`.

This change may affect applications who subscribe to the `TREE_CHANGE` event, and check for `EVENT_ID` in PeopleCode using field name.

Creating a Notification PeopleCode

To create a notification PeopleCode:

1. Select Go, PeopleTools, Application Designer.
2. Create an application package and an application class that implements `PS_PT: Integration: INotificationHandler` interface. For a subscription, you use the `INotificationHandler` application class and the `OnNotify` method, and optionally use the `OnError` method for error handling.

Note. This application package PeopleCode is tied to the `TREE_CHANGE` service operation through a service operation handler.

The following example shows an application class that is used to subscribe to `TREE_CHANGE` service operation.

TREE_CHANGE_SUB_TEST (application_class)	OnExecute
<pre> private method LogToFile(&fname As string, &txt As string); end-class; /* constructor */ method TREE_CHANGE_SUB_TEST end-method; method LogToFile /*+ &fname as String, +/ /*+ &txt as String +/ Local File &MYFILE; &MYFILE = GetFile(&fname, "W", "A", %FilePath_Absolute); Local string &name = &MYFILE.Name; If &MYFILE.IsOpen Then &MYFILE.WriteLine(&txt); &MYFILE.Close(); End-If; end-method; method OnNotify /*+ &_MSG as Message +/ /*+ Extends/implements PS_PT:Integration:INotificationHandler.OnNotify +/ /* Variable Declaration */ /* Subscription PeopleCode */ /* Application specific action - display warning in this example */ Local Message &request_MSG; Local Rowset &request_RS, &response_RS; Local Record &PSTREEPUBSUB; Local any &QryNode, &I; </pre>	

Creating notification PeopleCode Part-I

TREE_CHANGE_SUB_TEST [application_class] OnExecute
<pre> /* Get the request message from the queue */ &request_MSG = &_MSG; /* Get the request rowset object from the buffer */ &request_RS = &request_MSG.GetRowset(); /* Get the record from the message rowset */ &PSTREEPUBSUB = &request_RS.GetRow(1).GetRecord(Record.PSTREEPUBSUB); /* Get changes */ If &PSTREEPUBSUB <> Null Then Local string &setIdOld = &PSTREEPUBSUB.SETID_OLD.Value; Local string &setcntrlvalueOld = &PSTREEPUBSUB.SETCNTRLVALUE_OLD.Value; Local string &treenameOld = &PSTREEPUBSUB.TREE_NAME_OLD.Value; Local string &effdtOld = &PSTREEPUBSUB.EFFDT_OLD.Value; Local string &treebranchOld = &PSTREEPUBSUB.TREE_BRANCH_OLD.Value; Local string &setIdNew = &PSTREEPUBSUB.SETID_NEW.Value; Local string &setcntrlvalueNew = &PSTREEPUBSUB.SETCNTRLVALUE_NEW.Value; Local string &treenameNew = &PSTREEPUBSUB.TREE_NAME_NEW.Value; Local string &effdtNew = &PSTREEPUBSUB.EFFDT_NEW.Value; Local string &treebranchNew = &PSTREEPUBSUB.TREE_BRANCH_NEW.Value; End-If; /* Do something with received message; for example, log message to a file */ Local string &logstr = "Tree has been changed from " Char(10) &setIdOld " " &setIdNew %This.LogToFile("e:\temp\subscription.txt", &logstr); end-method; </pre>

Creating notification PeopleCode Part-II

In the above example, TREE_CHANGE_SUB_TEST application class has three methods. The constructor, TREE_CHANGE_SUB_TEST and the event handler, OnNotify are required. TREE_CHANGE_SUB_TEST application class has an extra method LogToFile that is used for testing purposes only. This message records a data retrieved from a message being received.

See Also

Enterprise PeopleTools 8.49 PeopleBook: PeopleSoft Integration Broker, "Sending and Receiving Messages"

Configuring Integration Broker

To configure Integration Broker:

1. Select PeopleTools, Integration Broker, Integration Setup, Services Operations.
The search page appears.
2. Select *TREE_CHANGE* service operation name, and click the Search button.
3. Click the TREE_CHANGE link.
The General page appears.
4. In the General page, select the Generate Local-to-Local check box.
Local-to-local routing is auto-generated.

This is an example of the General page:

General

Handlers

Routings

Service Operation:

TREE_CHANGE

Service:

TREE_CHANGE

Operation Type:

Asynchronous - One Way

*Operation Description:

TREE DEFINITION CHANGED MSG

☐ User/Password Required

Operation Comments:

Object Owner ID:

PeopleTools

Operation Alias:

[Service Operation Security](#)

Default Service Operation Version

*Version:

VERSION_1

☒ Default ☒ Active

Version Description:

Version Comments:

☐ Non-Repudiation

☐ Runtime Schema Validation

[Intropection](#)

Routing Status

Any-to-Local: Does not exist

Local-to-Local: Does not exist

Routing Actions Upon Save

☐ Generate Any-to-Local

☒ Generate Local-to-Local

Message Information

Type:

Request

Message.Version:

TREE_CHANGE.VERSION_1

[View Message](#)

*Queue Name:

TREE_MAINT

[View Queue](#) [Add New Queue](#)

Save

[Return to Search](#)

[Add Version](#)

General page

See Also

Enterprise PeopleTools 8.49 PeopleBook: PeopleSoft Integration Broker, “Managing Service Operations”

Creating a Service Operation Handler

In the General page, select the Handlers tab to access the Handlers page.

General **Handlers** Routings

Service Operation: TREE_CHANGE

Default Version: VERSION_1

Operation Type: Asynchronous - One Way

Handlers				Customize Find View All	First 1 of 1 Last
*Name	*Type	*Implementation	*Status		
TREE_CHANGE	On Notify	Application Class	Active	Details	+ -

[Save](#) [Return to Search](#)

Handlers page

To create a service operation handler:

1. In the Handlers page, enter a handler name.
2. Select the *On Notify* option from the Type drop-down list box.
3. Select the *Application Class* option from the Implementation drop-down list box.
4. Click the Details link.

The Handler Details page appears.

5. Populate the required fields with data from the application package that you created.

The following example shows the Handler Details page populated with data from the application package.

Handler Details

Handler Name: TREE_CHANGE
Handler Type: OnNotify
Description: TREE CHANGE Message Handler
Comments: Message fires when tree definition is changed
Handler Owner:

Application Class

***Package Name:** TREE_CHANGE_SUB_TEST
***Path:** :
Class ID: TREE_CHANGE_SUB_TEST
Method: OnNotify

Handler Details page

Note. There is a semicolon in the Path edit box.

See Also

Enterprise PeopleTools 8.49 PeopleBook: PeopleSoft Integration Broker, “Managing Service Operations,” Adding Handlers to Service Operations

Setting Full Access to the Permissions List

To set full access to the corresponding permission list:

1. In the General page, click the Service Operation Security link.
The Web Service Access page appears.
2. Set full access to corresponding permissions list, and click Save.

Note. For additional security setting, check whether the permission list used for your user includes TREE_MAINT queue. Also, check whether TREE_MAINT queue has full access rights.

This is an example of the Web Service Access page:

Web Service Access

Service TREE_CHANGE

Operation: TREE_CHANGE

Permission List	Access
PTPT1200	Full Access

Web Service Access page

Testing a Subscription Process

To test a TREE_CHANGE subscription process:

1. Change any tree and save it.

Note. You can also use SaveAs functionality to create a new tree.

2. Select PeopleTools, Integration Broker, Service Operations Monitor, Monitoring, Asynchronous Services.
3. Select the Subscription Contracts tab.
The Subscription Contracts page appears.
4. Select a node in the Node Names field.
5. Select the *TREE_CHANGE* option from the Service Operation drop-down list box.
6. Select the *TREE_MAINT* option from the Queue Name drop-down list box.
7. Click the Refresh button.

A list of service operations are displayed under your test subscription.

The following examples show the list of service operations received under test subscription.

[Monitor Overview](#)
[Operation Instances](#)
[Publication Contracts](#)
[Subscription Contracts](#)

Node Name:
☐ Archived

Service Operation:

Queue Name:
 Status:

Transaction ID:

Time Period

From Date: To Date:

From Time: To Time:

Result

Select	Transaction ID	Queue Name	Publishing Node	Segment Number	Service Operation	Service Operation Version
☐	86f252be-b6fb-11db-a673-9bd8a548ec56	TREE_MAINT	QE_LOCAL	1	TREE_CHANGE	VERSION_1

☒ [Select All](#)
☐ [Deselect All](#)

Subscription Contracts page Part-I

[Contracts](#)

☐ Archived

[Customize](#) | [Find](#) | [View All](#) | First Last

ent er	Service Operation	Service Operation Version	Sub Queue	Status	Time Stamp	Orig Trans ID
	TREE_CHANGE	VERSION_1	Sub Queue Link	New	02/07/2007 2:35:38PM	85642577-b6fb-11db-b1a2-d706c8c7a928 Details

Subscription Contracts page Part-II

When you click the Details link in the Results section of the Subscription Contracts page, the Asynchronous Details page appears.

Asynchronous Details

Transaction ID	85642577-b6fb-11db-b1a2-d706c8c7a928		
External Service Name	TREE_CHANGE.VERSION_1		
Publishing Node	QE_LOCAL	*Segment	1 Refresh
Queue Name	TREE_MAINT	View XML	
Queue Sequence ID	2		
Sub Queue			
Original Pub Node	QE_LOCAL	Uncompressed Data Length	3232
Status	DONE	Data Length View Limit	100000

[View IB Info](#)

Subscription Contracts				Customize	Find	First	1 of 1	Last
				Actions	Information			
Action Name	*Segment	Status						
TREE_CHANGE	1	New	Edit XML	Resubmit	Cancel	Error Message	View IB Info	

Asynchronous Details page

Note. If a subscription PeopleCode test program shown above is used, you can view the file being generated (Windows OS) as a part of a test subscription class at c:\temp\subscription.txt.

CHAPTER 6

Auditing and Repairing Trees

This chapter provides an overview of auditing and repairing trees and discusses how to:

- Use the Repair Tree program.
- Review audit results.
- Review individual reports.

Understanding the Auditing and Repairing of Trees

Tree repairs should be performed on trees that are having problems or have had major changes made to them.

Before using the repair programs, you should first run audits to learn which trees, if any have problems and which utility will repair the damaged tree. Review the audit reports to determine the correct solution for repairing your tree. You may need to run more than one utility program.

The Repair Tree program is designed for administrators who need a wide range of utilities with which to work. Besides containing various utilities for repairing trees, the Repair Tree program also includes the Tree Audits utility.

The Tree Auditor program *is only* the Tree Audits utility, and is designed for users who only need to audit trees.

Running the utility programs may result in a large number of updates to the tree. Because the system automatically puts a *lock* on a tree while the process is running, you should run these programs during off-work hours, to lower the risk of users trying to access the tree.

You should also perform a backup of your tree tables before running the repair programs.

Note. If you expect that saving a tree will take an especially long time due to an audit running as a part of saving process or on account of large, memory-intensive trees, PeopleSoft recommends that you save the trees as drafts, then run the audits with Application Engine using the Repair Tree or Tree Auditor programs. After the audits have completed without finding any problems, the tree status will be automatically changed to *Valid Tree*.

Using the Repair Tree Program

Use the Repair Tree Application Engine program to audit and repair trees.

Note. You can also use the Tree Auditor Application Engine program to audit trees.

Pages Used to Audit and Repair Trees

Page Name	Object Name	Navigation	Usage
Repair Tree	RUN_TREE_UTILITIES	Tree Manager, Tree Utilities, Repair Tree Optionally, you can access just the batch audit function by selecting Tree Manager, Tree Auditor.	Audit, troubleshoot, or repair problem trees.
Repair Tree Reports	PSBATCHREPORT	Tree Manager, Tree Utilities, Repair Tree Reports Click View Results on the Tree Utilities page. Click View Results on the Repair Tree page. Click View Results on the Tree Auditor page.	View results of an audit.
N/A	PSBATCHREPORTLIST	Click the Select link for a report on the Batch Report page.	View individual reports.

Working with the Repair Tree Program

Access the Repair Tree page.

Repair Tree

Run Control ID: RUN_REPAIR_TREE

[Report Manager](#)
[Process Monitor](#)
[Run](#)

Tree Utility Type

*Tree Utility:

Audit Scope

☐ Single Tree
 ☒ Multiple Trees

Tree Definition

Tree Name:
 SetId:

Date Selection

☐ Effective Date of Tree

☒ As of Current Date

☐ As of Specific Date

☐ All Trees

[View Results](#)

Save
 Notify

Add
 Update/Display

Repair Tree page

Report Manager

Click the link to access the report manager inquiry page.

Process Monitor

Click the link to access the process manager inquiry page.

Run

Click to run a Process Scheduler request.

Tree Utility Type

Select a tree utility from the following options; typically, you would run the audits first, and then choose a repair program as indicated by the audit results:

Tree Audits: Audits a selected tree or subset of trees.

Correct Level Numbers: Ensures level numbers are correct. Reset node numbers are equal to the parent node's level number plus one.

Correct Parent Node Numbers: Ensures parent node numbers are correct in the tree node table.

Delete Orphan Tree Objects: Ensures there are no orphan nodes or levels.

When running this repair program and specifying a tree, the program only deletes orphan nodes and leaves, not orphan levels.

When running the program for all trees, this program deletes orphan nodes and leaves, and then deletes orphan levels. This is because orphan levels are not tied to a specific tree.

Orphans can be the result of the following three situations:

- The parent node that the orphan leaf refers to no longer exists.
These orphans are removed when running this program either for a specific tree or all trees.
- The tree name that the orphan leaf refers to no longer exists.
These orphans are removed *only* when running this program for all trees.
- The Query Access Group record no longer exists in PSRECDEFN.
These orphans are removed when running this program either for a specific tree or all trees.

Remove Tree Branches: Removes all branches from the selected tree.

Remove Tree Reservations: Cancels all current checkouts. This utility is helpful because if you try to audit or repair any trees that are currently reserved, the audit or repair utility will skip the reserved trees. For this reason, you can use this utility before running any audit or repair tree utility to ensure that the audits or repairs are performed on *every* tree. Also use this utility during emergency situations.

Note. PeopleSoft recommends you use this utility judiciously. When you run this utility, all unsaved changes of users currently editing trees will be lost.

Reset Tree Node Gaps: Re-gaps a tree, so that intervals between tree nodes and their node numbers are evenly distributed. Consider running this program if you start to get messages that nodes can no longer be inserted into a tree.

Note. The SQR program PTUGAPTR is also available for *re-gaps*. PTUGAPPTR.SQR is an interactive SQR program which prompts for user inputs and can only run interactively from a Windows-client.

Update Tree Table Statistics: Calls the databases Update Statistics utility on the PeopleSoft Tree Manager tables. This program can be run whenever large changes have been made to trees or a large tree is imported or deleted from the database.

Report Only: Select to run a report to view results prior to updating the tree. Not available for all utilities.

Audit Scope

Single Tree: Select to run the selected utility for a single tree. Not all utilities can be run for single trees.

Multiple Trees: Select to run the selected utility for multiple trees. Fields in the Tree Definition group box become unavailable. Not all utilities can be run for multiple trees.

Tree Definition

Tree Name: Select a tree to audit or repair.

SetId, Business Unit, or Tree Key Value: Select the setID, business unit, or tree key value for the specified tree. The field is not available if the selected tree does not have a setID, business unit, or tree key value.

Date Selection

Effective Date of Tree: You can select an effective date to run the audit on a single instance of the tree.

As of Current Date: Select to audit trees which have the most recent effective date. If you select Single Tree in the Audit Scope group box and select a specific tree, only the instance of the tree with the most recent effective date will be audited. If you select the Multiple Trees option in the Audit Scope group box, all trees whose effective dates are current will be audited. This option is only available for the Tree Audits utility.

As of Specific Date: Select to enter a specific date. If you select the Single Tree option in the Audit Scope group box and select a specific tree, only the instance of the tree whose effective date matches the specified date will be audited. If you select the Multiple Trees option in the Audit Scope group box, all trees whose effective dates match the specified date will be audited. This option is only available for the Tree Audits utility.

All Trees: Select to audit all trees. If you select the Single Tree option in the Audit Scope group box and select a specific tree, *all* instances of this tree will be audited, regardless of effective dates. If you select the Multiple Trees option in the Audit Scope group box, all instances of all trees will be audited. When you select Multiple Trees, fields in the Tree Definition group box become unavailable. This option is only available for the Tree Audits utility.

View Results

Click the link to open a new browser instance that displays the Batch Report page.

Enter a run control ID to view the results from running audits or a utility program.

Audits Performed

The following table lists the types of audits performed from the Repair Tree program. These audits differ from those performed on the Tree Definition and Properties page.

Audit Type	Checks For	Purpose
Detail Values	Orphan tree leaves.	Lists detail values that refer to an invalid tree node number.

Audit Type	Checks For	Purpose
Detail Values	Detail values not found in the tree.	Lists any detail values that are found in application table but are not defined in the tree. This audit is only performed if the All Detail Values check box on the tree's Definition and Properties page is selected.
Detail Values	Duplicate detail values.	Lists any detail values that are defined more than once in the tree. This audit is only performed if the Allow Duplicate Detail Values check box on the tree's Definition and Properties page is cleared.
Detail Values	Detail values with overlapping ranges.	Lists detail values that are defined as a range of values that overlap another detail value's range of values. This audit is only performed if the Allow Duplicate Detail Values check box on the tree's Definition and Properties page is cleared.
Detail Values	Nodes with no child nodes or detail values specified.	Lists any nodes that do not have any detail values or child nodes defined. This audit is performed for detail value trees only.
Node Audit	Nodes without a parent.	Lists tree nodes that refer to an invalid tree node number.
Node Audit	Tree node numbers that are greater than end numbers.	Lists tree nodes with end numbers greater than the node number.
Node Audit	Tree node end numbers that are greater than the parent's end number.	Lists tree nodes with end numbers greater than the parent node's end number.
Node Audit	Tree nodes with overlapping ranges.	Lists tree nodes whose node number and ending node number overlaps with another range of node numbers. Note. When this occurs the tree is corrupted.

Audit Type	Checks For	Purpose
Node Audit	Node level numbers that are less than the parent node's level number.	Lists any tree node with level numbers less than the parent's level number.
Structure Audit	A level record name in the Tree Structure table that does not exist in Record Definition table.	Lists tree structures that reference an invalid record name for the tree level application data.
Structure Audit	A node record name in the Tree Structure table that does not exist in Record Definition table.	Lists tree structures that reference an invalid record name for the tree node application data.
Structure Audit	A detail record name in the Tree Structure table that does not exist in Record Definition table.	Lists tree structures that reference an invalid record name for the tree detail values application data.
Structure Audit	A missing tree structure record.	Lists any trees that refer to a tree structure that is not found in the Tree Structure table.

See Also

Enterprise PeopleTools 8.49 PeopleBook: PeopleSoft Process Scheduler, “Using Report Manager”

Enterprise PeopleTools 8.49 PeopleBook: PeopleSoft Process Scheduler, “Using Process Monitor”

Reviewing Audit Results

Access the Batch Report page.

Batch Report

Process Instance: 9999980 **Run Control ID:** RUN_REPAIR_TREE

User ID: QEDMO **Run Date/Time:** 02/05/07 5:21:12PM

Show Reports Criteria

☐ Reports with Data ☒ All Reports

Report List		
Open Report	Report Content	Total Row Count
Open Report	Tree Structure table contains Level Record Name that does not exist in Record Definition table	0
Open Report	Tree Structure table contains Node Record Name that does not exist in Record Definition table	0
Open Report	Tree Structure table contains Detail Record Name that does not exist in Record Definition table	0
Open Report	Parent Node Does Not Exist	15
Open Report	Orphan Tree Leaves	0
Open Report	Tree Node Numbers are Greater than End Number	0
Open Report	Tree Nodes' End Number is Greater than Parent's End Number	0
Open Report	Tree Nodes With Overlapping Ranges	0

Batch Report page

Show Reports Criteria

Select the Reports with Data option to list only those reports that contains data. This is the default value.

Select the All Reports option to list all reports.

Report List

Lists each available report, with report title and total row count.

Click the Select link to access each report. The Select link is inactive for reports with zero row count.

Reviewing Individual Reports

Access a report page by clicking its Select link.

Reports contain the following information:

- Instructions and recommendations on how to correct the problem.
- Tree identifying information, if more than one tree is affected. This includes:
 - SetID
 - Set control value
 - Tree name
 - Effective date

- Node information for the affected nodes, which might include:
 - Node name
 - Node number
 - Node end number
 - Parent node
 - Parent node number
 - Parent level number
 - Range from
 - Range to

Details on fixing problems associated with reports are given below.

Parent Node Does Not Exist

If there are no other audit errors for this tree, then running the Correct Parent Node Numbers utility program should correct this problem.

Do not run the Correct Parent Node Numbers utility program if there are other audit problems with this tree. The other errors should be addressed first before trying to correct problems by running the utility program.

Orphan Tree Leaves

Run the Delete Orphan Tree Objects utility to delete these records.

Tree Node Numbers Are Greater Than End Number

Use PeopleSoft Tree Manager to delete these nodes, and then run the Reset Tree Node Gaps utility program. You will then need to use PeopleSoft Tree Manager to reinsert the problem nodes.

Note. Deleting a node causes all of its children to be deleted. Therefore, if the problem node has child nodes or leaves under it, you will have to recapture those as well. If it is not possible to use PeopleSoft Tree Manager to delete the problem nodes, call the PeopleSoft Support Center for help to analyze this problem.

Tree Node's End Number Is Greater Than Parent's End Number

Use PeopleSoft Tree Manager to delete these nodes and then run the Reset Tree Node Gaps utility program. You will then need to use PeopleSoft Tree Manager to reinsert the problem nodes.

Tree Nodes with Overlapping Ranges

Use PeopleSoft Tree Manager to delete these nodes and then run the Reset Tree Node Gaps utility program. You will then need to use PeopleSoft Tree Manager to reinsert the problem nodes.

Node's Level Number Is Less Than Parent's Level Number

The level numbers can be corrected by either:

- Switching the levels in PeopleSoft Tree Manager.
- Running the Correct Level Numbers utility to reset all invalid level numbers on the tree.

CHAPTER 7

Using TreeMover

This chapter provides an overview of TreeMover and discusses how to:

- Import and export PeopleSoft 8 trees.
- Import and export with PeopleSoft 7.x trees.
- Customize TreeMover for additional node and level data records.

Note. The flat files for both the import and export processes are located in the working directory for PeopleSoft Application Engine as specified on the Process Type Definition page in PeopleSoft Process Scheduler. You can override this and create another location using the Process Definition Override page.

See Also

Enterprise PeopleTools 8.49 PeopleBook: PeopleSoft Process Scheduler, “Defining PeopleSoft Process Scheduler Support Information,” Defining Process Type Definitions

Understanding TreeMover

This section discusses:

- Purpose of TreeMover.
- Populated record types.
- TreeMover file formats.
- TreeMover file rules.
- File layout details.

Purpose of TreeMover

TreeMover enables you to move PeopleSoft trees between different PeopleSoft application databases. It enables you to export a tree to a flat file and to import a tree from a flat file. TreeMover moves all types of tree data, including the tree definition, tree structure, tree nodes, tree leaves, tree node data, and tree level data.

TreeMover does not support branched trees. If you import a branched tree, the branches become regular tree nodes.

Advantages of using TreeMover instead of methods of moving trees—such as Data Mover or custom SQR—include the following:

- TreeMover can move trees between different versions of PeopleSoft databases—for example, from a PeopleSoft Financials 7.5 database to a PeopleSoft EPM 8 database.

- Tree Mover can move tree node data (description, setID, effective date, and effective status) for trees that have node data stored in the PS_TREE_NODE_TBL (the table that stores the tree node data is specified as part of the tree structure).
- Tree Mover can move tree level data (long description, short description, setID, effective date, and effective status) for trees that have level data stored in the PS_TREE_LEVEL_TBL—the table that stores the tree level data is specified as part of the tree structure.
- TreeMover uses the tree APIs, which means the same logic used for the PeopleSoft Tree Manager application is used to load and unload trees using TreeMover.

TreeMover enables you to create branches on a tree after it is loaded into PeopleSoft Tree Manager. All the same edit checks are performed on a tree created with TreeMover as are performed on a tree created manually with PeopleSoft Tree Manager because both use the same functionality to create the tree. Since TreeMover processes are initiated from standard PeopleSoft pages, the ability to import and export tree data can be restricted by using PeopleSoft standard security mechanisms for limiting access to pages.

Here are some example tasks that you can use with TreeMover:

- Load winter tree with nodes from a legacy financial database quickly and easily into PeopleSoft 8 databases.
- Automatically replace an account tree every month with a new tree based on current information.
- Easily load a dynamic detail tree using information entered through a spreadsheet.

Note. TreeMover currently supports fixed-format files only.

TreeMover does not support related language tables.

When you export a tree containing text data, the data is saved in the codepage of the server—for example, CP1252 Western European on English Windows, or CP932 Shift-JIS on Japanese Windows. Any characters which are not valid in the server's codepage are converted into question mark characters.

TreeMover consists of three parts: a utility to export a tree from a PeopleSoft 8 database, a utility to import a tree into a PeopleSoft 8 database, and a utility to export a tree from a PeopleSoft 7.x database. The import and export functionality for a PeopleSoft 8 database is implemented as a PeopleSoft Application Engine application process. As with other Application Engine processes, they can be scheduled to run automatically from the Process Scheduler. The Application Engine process uses PeopleCode Tree APIs, PeopleCode File APIs, and file layout definitions. The utility that enables you to export trees from a PeopleSoft 7.x database is implemented as an SQR program (TMDOWNLD.SQR).

Populated Record Types

TreeMover uses the following PeopleTools system tables for trees during both the tree import and tree export processes:

- PSTREEDEFN
- PSTREENODE
- PSTREELEAF
- PSTREESTRCT
- PSTREELEVEL
- PS_TREE_LEVEL_TBL
- PS_TREE_NODE_TBL

TreeMover also reads the PSSTATUS table during the tree export process, to identify the version of the tree data exported.

TreeMover File Formats

As delivered, TreeMover uses seven different file layouts. All the data for an exported tree is contained in a single file. Prior to a change in the file layout used for the export file, TreeMover writes a header record to the file to indicate what the next file layout is. The following table lists the standard file formats, along with their actual file layout name and the text of the header record that precedes a given layout data:

File Layout	Description	Header Record Text
TREE_VERSION	Contains the PeopleTools release number used to create the export data file. If a tree version is not provided, then the TreeMover import program assumes that the tree data is from a database before 8.1.	999TREE_VERSION
TREE_STRUCTURE	Used for data from the PSTREESTRCT table.	999TREE_STRCT
TREE_DEFN	Used for data from the PSTREEDEFN table.	999TREE_DEFN
TREE_USERLEVEL	Used for data from PS_TREE_LEVEL_TBL.	999TREE_USERLVL
TREE_LEVEL	Used for data from the PSTREELEVEL table.	999TREE_LEVEL
TREE_USERNODE	Used for data from PS_TREE_NODE_TBL.	999TREE_USERND
TREE_NODE	Used for data from the PSTREENODE and PSTREELEAF tables.	999TREE_NODE

The TreeMover export program processes the data in the order listed in the preceding table.

If you write your own export file, then you must adhere to the following rules:

- The Tree Structure record, if present, must always come first in the file.
If it is not present, the TreeMover import program defaults to the record layouts used prior to release 8.1.
- The Tree Definition record, if present, must come after the Tree Structure record.
- The Tree Level records—only for trees with levels—must come before the Tree Node and Leaf records.
- The Tree Node and Leaf records are required for any export file.

- Prior to the change in the record layout, you must precede the next data record with the appropriate header record for that file format.

The following table illustrates the TreeMover file formats.

TreeMover File Contents	
999TREE_VERSION	Tree Version Data
999TREE_STRCT	Tree Structure Data
999TREE_DEFN	Tree Definition Data
999TREE_USERLVL	Tree Level Data 1 Tree Level Data 2
	Tree Level Data N
999TREE_LEVEL	Tree Level 1 Tree Level 2
	Tree Level N
999TREE_USERND	Tree Node Data 1 Tree Node Data 2
	Tree Node Data N
999TREE_NODE	Tree Node 1 Tree Node 2
	Tree Detail 1

TreeMover File Contents
Tree Detail 2
Tree Node 3
Tree Node 4
Tree Node N
Tree Detail 5
Tree Detail N

This is an example of TreeMover:

```

999TREE_VERSION
08.10-M          0
999TREE_STRICT
1APERSONAL_DATA      Employee Personal Data      D NTREE_LEVEL_TBL TREE_LEVEL
999TREE_DEFN
2A                  PERSONAL_DATA      1997-05-05PERSONAL_DATA      Personal Data Tree
999TREE_USERLVL
3A  BRANCH  1990-01-01ABranch          Branch
3A  COMPANY 1996-01-01ACompany          Company
3A  CORPORATE 1996-01-01ACorporate      Corporate
3A  DEPARTMENT1996-01-01ADepartment      Department
3A  DIVISION 1996-01-01ADivision          Division
999TREE_LEVEL
4ACORPORATE 1 Y
4ACOMPANY 2 N
4ADIVISION 3 N
4ADEPARTMENT4 N
4ABRANCH 5 N
999TREE_NODE
6A00001          G1
6A              00001          8200          8200
N
6A              00001          8300          8300

```

TreeMover sample

TreeMover File Rules

TreeMover reads these records in the following strict order during an import:

1. PeopleTools Version—optional.

This record is only needed if loading data from an 8.1 or later PeopleSoft database.

2. Tree Structure—optional.

This record is only needed if the structures do not already exist. One or more structure records can be loaded.

3. Tree Definition—required.

The information needed to create a tree. Only one tree definition record can exist in the input file.

4. Tree Level Data—optional.

The detailed level data for a tree. One or more level data records can exist in the input file.

5. Tree Levels—required for leveled trees.

The levels defined for the tree. Must include enough to define all the nodes. One or more level records can exist in the input file.

6. Tree Node Data—optional.

The detailed tree node information: description, effective date, and so on.

7. Tree nodes and leaves—required.

Tree node and detail information. Each node must contain either a parent node or a previous sibling node. The referenced node—parent or sibling—*must precede* the node that references it in the input file.

Detail values for a tree must exist in the database before importing the tree.

One or more node records listed in level plus sibling order—that is, the root node on the first level, nodes on the second level, and so on—can exist in the input file.

File Layout Details

Each record starts with a unique identifier for that record type, followed by the associated column data. All data is in a fixed format.

Tree Structure Layout (TREE_STRUCTURE)

For the Tree Structure layout, most column names map directly to the PSTREESTRCT record.

Note. Tree structure record is optional if the database already has the structure defined for the new tree.

The following table provides file layout details:

Column Name	Column Type	Length	Start Position	End Position	Comments
<i>File Record ID</i>	Number	1	1	1	Always <i>I</i> .
UPDATE_ACTION	Character	1	2	2	Always <i>A</i> (only add mode is supported at this time)
TREE_STRCT_ID	Character	18	3	20	None
DESCR	Character	30	21	50	None
TREE_STRCT_TYPE	Character	1	51	51	None

Column Name	Column Type	Length	Start Position	End Position	Comments
DYNAMIC_RANGE	Character	1	52	52	<i>Y or N</i>
SETCNTRL_IND	Character	1	53	53	<i>S, B, U, or N</i>
LEVEL_RECNAME	Character	15	54	68	None
LEVEL_PNLNAME	Character	18	69	86	None
LEVEL_MENUNAME	Character	30	87	116	None
LEVEL_BARNAME	Character	30	117	146	None
NODE_RECNAME	Character	15	147	161	None
NODE_PNLNAME	Character	18	162	179	None
NODE_FIELDNAME	Character	18	180	197	None
SETCNTRLFLD	Character	18	198	215	None
NODE_MENUNAME	Character	30	216	245	None
NODE_BARNAME	Character	30	246	275	None
DTL_RECNAME	Character	15	276	290	None
DTL_FIELDNAME	Character	18	291	308	None
DTL_PNLNAME	Character	18	309	326	None
DTL_MENUNAME	Character	30	327	356	None
DTL_BARNAME	Character	30	357	386	None

Column Name	Column Type	Length	Start Position	End Position	Comments
DTL_SETID	Character	5	387	391	None
SETCNTRLVALUE	Character	20	392	411	None
DTL_TREE_NAME	Character	18	412	429	None
DTL_TREE_LEVEL_NUM	Character	5	430	434	None
LEVEL_PNLGRPNAME	Character	50	436	485	Only for release 8.1 and greater.
NODE_PNLGRPNAME	Character	50	487	536	Only for release 8.1 and greater.
DTL_PNLGRPNAME	Character	50	538	587	Only for release 8.1 and greater.
LEVEL_ITEMNAME	Character	30	589	618	Only for release 8.1 and greater.
NODE_ITEMNAME	Character	30	620	649	Only for release 8.1 and greater.
DTL_ITEMNAME	Character	30	651	680	Only for release 8.1 and greater.

TreeMover Tree Definition Layout (TREE_DEFN)

The tree definition record columns require either a tree structure defined in the database or a previous tree structure record in the file. For the Tree Definition layout, most column names map directly to the PSTREEDEFN record.

The following table provides tree definition layout details:

Column Name	Column Type	Length	Start Position	End Position	Comments
<i>File Record ID</i>	Number	1	1	1	Always 2.
UPDATE_ACTION	Character	1	2	2	Always <i>A</i> (only add is mode supported at this time).
SETID	Character	5	3	7	None
SETCNTRLVALUE	Character	20	8	27	None
TREE_NAME	Character	18	28	45	None
EFFDT	Date	10	46	55	YYYY-MM-DD format.
TREE_STRCT_ID	Character	18	56	73	None
DESCR	Character	30	74	103	None
NODE_COUNT	Character	10	104	113	None
ALL_VALUES	Character	1	114	114	<i>Y</i> or <i>N</i>
USE_LEVELS	Character	1	115	115	<i>S</i> , <i>L</i> , or <i>N</i>
DUPLICATE_LEAF	Character	1	116	116	<i>Y</i> or <i>N</i>
TREE_CATEGORY	Character	18	117	134	None
EFF_STATUS	Character	1	135	135	None
TREE_ACC_METHOD	Character	1	136	136	None
TREE_ACC_SELECTOR	Character	1	137	137	None

Column Name	Column Type	Length	Start Position	End Position	Comments
TREE_ACC_SEL_OPT	Character	1	138	138	None
LEAF_COUNT	Character	10	139	148	None
TREE_IMAGE	Character	30	139	168	Only for Release 8.1 and greater.
BRANCH_IMAGE	Character	30	170	199	Only for Release 8.1 and greater.
NODECOL_IMAGE	Character	30	201	230	Only for Release 8.1 and greater.
NODEEXP_IMAGE	Character	30	232	261	Only for Release 8.1 and greater.
LEAF_IMAGE	Character	30	263	292	Only for Release 8.1 and greater.

Tree User Level Data Layout (TREE_USERLEVEL)

The columns in this layout correspond to the columns in the TREE_LEVEL_TBL record.

The following table provides tree user level data layout details:

Column Name	Column Type	Length	Start Position	End Position	Comments
File Record ID	Number	1	1	1	Always 3.
UPDATE_ACTION	Character	1	2	2	Always 4 (only add mode is supported at this time).
SETID	Character	5	3	7	None

Column Name	Column Type	Length	Start Position	End Position	Comments
TREE_LEVEL	Character	10	8	17	None
EFFDT	Date	10	18	27	YYYY-MM-DD format.
EFF_STATUS	Character	1	28	28	None
DESCR	Character	30	29	58	None
DESCRSHORT	Character	10	59	68	None

Tree Level Record Layout (TREE_LEVEL)

The tree level layout requires a tree definition record in the file previous to this record type. The columns in this layout correspond to the columns in the PSTREELEVEL record.

Note. No-level records should be defined for no-level trees.

The following table provides tree level layout details:

Column Name	Column Type	Length	Start Position	End Position	Comments
File Record ID	Number	1	1	1	Always 4.
UPDATE_ACTION	Character	1	2	2	Always A (only add mode is supported at this time).
TREE_LEVEL	Character	10	3	12	None
TREE_LEVEL_NUM	Character	3	13	15	None
ALL_VALUES	Character	1	16	16	Y or N

Tree Node Data Layout (TREE_USERNODE)

The columns in this layout correspond to the columns in the TREE_NODE_TBL record.

The following table provides tree node data layout details:

Column Name	Column Type	Length	Start Position	End Position	Comments
File Record ID	Number	1	1	1	Always 5.
UPDATE_ACTION	Character	1	2	2	Always <i>A</i> (only add mode is supported at this time).
SETID	Character	5	3	7	None
TREE_NODE	Character	20	8	27	None
EFFDT	Date	10	28	37	YYYY-MM-DD format.
EFF_STATUS	Character	1	38	38	None
DESCR	Character	30	39	68	None

Tree Node Record Columns (TREE_NODE)

Tree node record columns require a tree definition record in the file previous to this record type and level records if the tree has levels. Node records must have parents defined before their children. Detail records can be interspersed between node records.

Note. Node type is either *G* or *R*. *G* is for standard nodes, and *R* is for Query Access Group record nodes. Branch nodes are not supported at this time.

The following table provides tree node record details:

Column Name	Column Type	Length	Start Position	End Position	Comments
File Record ID	Number	1	1	1	Always 6.
UPDATE_ACTION	Character	1	2	2	Always <i>A</i> (only add mode is supported at this time).

Column Name	Column Type	Length	Start Position	End Position	Comments
TREE_NODE	Character	20	3	22	Only for node records.
PARENT_NODE_NAME	Character	20	23	42	Tree TREE_NODE for the parent node of the node or detail.
TREE_NODE_TYPE	Character	1	43	43	Only for node records; must be G or R.
TREE_LEVEL_NUM	Character	3	44	46	Only for node records.
TREE_NODE_PREV_SIB	Character	20	47	66	Only for node records.
RANGE_FROM	Character	30	67	96	Only for detail records.
RANGE_TO	Character	30	97	126	Only for detail records.
DYNAMIC_RANGE	Character	1	127	127	Only for detail records; must be Y or N.
LEAF_IMAGE	Character	30	129	158	Only for Release 8.1 and greater.
NODECOL_IMAGE	Character	8	160	167	Only for Release 8.1 and greater.
NODEEXP_IMAGE	Character	8	169	176	Only for Release 8.1 and greater.

Importing and Exporting PeopleSoft 8 Trees

This section provides an overview of using TreeMover with PeopleSoft 8 databases and discusses how to:

- Export PeopleSoft 8 trees to an external file.
- Import PeopleSoft 8 trees from an external file.

Understanding TreeMover and PeopleSoft 8 Trees

As with other PeopleSoft Application Engine processes, you initiate the TreeMover process from PeopleSoft pages. You need to submit a few required parameters at run time, including the file name for each tree import (load) or tree export (unload). You can run TreeMover each time you need to load or unload a tree, or you can set PeopleSoft Process Scheduler to run a tree load or unload process automatically.

To view the results of TreeMover processes, perform the following steps from the Tree Import or Tree Export page:

1. Click the Process Monitor link.

The Process List page appears. The run status for your process will appear as *Success*, *No Success*, or *Warning*.

Note. If you receive a *No Success* or *Warning* status, you should also review the TreeMover log file. This file may include additional information that the Process Monitor does not include.

2. Click the Details link.

The Process Detail page appears.

3. Click the Message Log button.

4. Click the Explain button for further details on each message.

You can also view the log output file. To find this file, navigate to the log_output directory. The location of the log_output directory is specified in the Process Scheduler configuration file. After you are accessed the log_output directory, navigate to the following path:
/AE_TREEMOVER_<PROCESS_ID>/TreeMover-<Date-Time>.log.

This example shows the full path to the log output file—the italicized portion of the path is specified in the Process Scheduler configuration file:

C:\PTools845_104A\APPSERV\PRCS\MD845104\log_output\AE_TREEMOVER_9999938\TreeMover-2004-02-10-16.22.55.log

This is a sample of the log file:

```

1999-11-30-16.37.54: Begin: PeopleSoft TreeMover
1999-11-30-16.37.54: Unloading tree ,,DEPT_SECURITY,1980-01-01.
1999-11-30-16.37.58: Completed processing tree definition.
1999-11-30-16.37.58: Completed processing tree user level information.
1999-11-30-16.37.58: Total number of tree user level definitions processed: 5.
1999-11-30-16.37.58: Completed processing tree levels.
1999-11-30-16.37.58: Total number of tree levels processed: 5.
1999-11-30-16.37.58: Warning - User tree node table is not one that is current:
(125,46)
1999-11-30-16.37.59: Completed processing tree nodes and tree details.
1999-11-30-16.37.59: Total number of nodes processed: 38.
1999-11-30-16.37.59: Total number of tree details processed: 0.
1999-11-30-16.37.59: PeopleSoft TreeMover Completed Successfully.
1999-11-30-16.37.59: End: PeopleSoft TreeMover

```

TreeMover log file

The delivered TreeMover application can move only tree node data that is associated with the PS_TREE_NODE_TBL and only tree level data that is associated with the PS_TREE_LEVEL_TBL. You can modify TreeMover to support other tables for node and level data.

Note. When a tree replaces an existing tree using the Tree Import Utility, the system import a new tree using a unique name and check if the tree creation process is successful. If the tree creation process turns out to be successful, the system delete the existing tree and rename the newly created tree. If the import file from which you are importing is corrupted, you don't lose your existing tree.

Also, if the existing tree was secured by Definition Security, it is automatically removed from the Definition Security Group at the time of deletion. Because the removal of the tree from the Definition Security Group occurs prior to the import, the utility has no knowledge of the tree being secured, and therefore, the new tree will have to be manually secured after the import is complete.

See Also

Chapter 7, "Using TreeMover," Modifying the TreeMover Application Engine Program, page 118

Pages Used to Import and Export PeopleSoft 8 Trees

Page Name	Object Name	Navigation	Usage
Tree Export	RUN_TREEMOVER_EXP	Tree Manager, Tree Utilities, Export Tree	Export trees using TreeMover.
Tree Import	RUN_TREEMOVER_IMP	Tree Manager, Tree Utilities, Import Tree	Import trees using TreeMover.

Exporting PeopleSoft 8 Trees to an External File

Access the Tree Export page.

Tree Export

Run Control ID: PTDMO [Report Manager](#) [Process Monitor](#) Run

*Output File Name:

Tree Definition

Tree Name:  Effective Date: 

Tree Key Value: 

Tree Data to Export

☒ Tree Definition	☐ Tree Structure	☐ Tree User Level
☒ Tree Level	☒ Tree Node/Leaf	☐ Tree User Nodes

Tree Export page

To export a tree to an external file:

1. Enter the correct output file name.

The flat file is sent to the working directory for PeopleSoft Application Engine as specified on the Process Type Definition page in Process Scheduler. If this is not the location you want, enter the valid path name for the directory on the application server that runs the process.

2. Enter the tree name, effective date, and tree key value.

Note. The tree key value applies to only setID, business unit, or user-defined key trees (tree key type is set in the tree structure). For trees that have no additional key value, the field is not available.

3. Select the tree data to export.

You can export the tree structure data, the tree definition, the tree levels, the tree level data, the tree nodes and leaves, and the tree node data. You also can export the tree definition, tree level, and tree node/leaf data.

Note. You need to select Tree Structure if the tree structure does not already exist in the target database. You can also select the Tree User Level option to move related data from the PS_TREE_LEVEL_TBL table, and select the Tree User Nodes option to move related data from the PS_TREE_NODE_TBL.

4. Click the Run button to move the tree.
5. Verify that the settings on the Process Scheduler Request page are correct, and click OK to run the process.
6. Check the run status in the Process Monitor.

If an Error or Warning status exists for the process, check the TreeMover log file which may contain additional information that describes the problem. Potential problems are not limited to—but may include—the following:

- You tried to export tree level data and the tree has no levels.

- You tried to export tree user level data and the tree does not use the PS_TREE_LEVEL_TBL for level data.
- You tried to export tree user node data and the tree does not use the PS_TREE_NODE_TBL.

Importing PeopleSoft 8 Trees from an External File

Access the Tree Import page.

Note. The Windows version of PeopleSoft Tree Manager will allow users to enter tree node names containing the two special wildcard characters, ? and *. However, the Web version of PeopleSoft Tree Manager does not accept these characters. To prevent creating a corrupted tree, the Tree Import utility now checks for invalid tree node names.

Tree Import

Run Control ID: PTDMO [Report Manager](#) [Process Monitor](#) Run

*Input File Name:

*Save Method: ☒ Replace Tree if Exists ☐ Load Tree Defn from File

Tree Definition

Tree Name: Effective Date:

Structure: ☐ All Values ☐ Allow Duplicate Leaf

SetId:

Description: Category:

Use Levels:

Tree Import page

To import an existing PeopleSoft tree:

1. Enter the correct input file name.

The flat file is sent to the working directory for PeopleSoft Application Engine as specified on the Process Type Definition page in PeopleSoft Process Scheduler. If this is not the location you want, enter the valid path name for the directory on the application server that runs the process.

2. Select a save method.

By default, you should use the Save option. However, if you think the tree might not pass all the PeopleSoft tree audits, then select the Save Draft option, which saves the tree in draft mode and functions just as it does in PeopleSoft Tree Manager.

3. If the tree already exists in your database, select the Replace Tree if Exists option.

Note. If the tree already exists in your database and you do not select the Replace Tree if Exists check box, the tree will not be imported.

4. Select the Load Tree Defn from File (load tree definition from file) option if the tree definition is contained in the input file and you want to load the tree with the same tree definition values.

Note. In most cases, you want to load the tree definition from the file. If you select this option and the tree definition *does not* exist in the input file, then the load process fails.

5. Enter the basic tree information if you are not loading the tree definition from the input file.

If you are not loading the tree definition from the input file, then you are required to specify all the basic tree information on the run control page. These fields correspond to the same values that you'd have to enter if you were creating the tree using PeopleSoft Tree Manager. TreeMover skips the input record that contains the tree definition information and instead use the values that you enter.

You must load the tree definition from the file if you're also loading the tree structure from the file. If you try to load the structure from the file, but have overridden the definition values on the page, then the process will not run completely.

TreeMover only loads a new tree structure if the structure doesn't already exist.

Note. If your TreeMover data file contains user level data or user node data and you are changing the setID of your tree on import, the user data will retain the original setID. TreeMover import does not support the changing of user data setIDs.

6. Click the Run button to move the tree.
7. Verify the successful completion of the process by checking the run status of the process in the Process Monitor page. If you receive either a run status of *Warning* or *No Success*, view the message log explanations for details and recommendations. You should also view the TreeMover log for more information.

Note. You can also check the log file. If the process completed successfully, the log file states *PeopleSoft TreeMover Completed Successfully*.

If you're loading a tree that contains detail values, then those detail values must exist in the target database before you load the tree. If they do not exist, then the tree import process fails.

Importing and Exporting PeopleSoft 7.x Trees

This section provides an overview of the TMDOWNLD SQR and discusses how to:

- Install the SQR program.
- Run the SQR program.

Understanding the TMDOWNLD SQR Program

TreeMover provides the TMDOWNLD SQR program for unloading a PeopleSoft tree from a PeopleSoft 7 or 7.5 database. (The SQR should also work against a PeopleSoft 6 database, but it has not been tested against that version and is not certified for it.) This program exports most of the same tree information as the Tree Export functionality provided with PeopleTools 8. Differences include:

- Tree categories are not exported; the category defaults to DEFAULT.
- Tree performance options are not exported.
- Tree structures are not exported.

Installing the SQR Program

To install the TMDOWNLD SQR program, copy the TMDOWNLD.SQR file from your PeopleTools 8 PS_HOME/SQR directory to the SQR directory for your PeopleTools 7 or 7.5 install.

Note. If you do not have a copy of TMDOWNLD.SQR, contact PeopleSoft Customer Service.

When you run this SQR against a given version of a PeopleSoft database, you must run it with the common SQC files that are delivered for that PeopleTools version. For example, if you run it against a PeopleSoft 7 database, you should run it so that it uses the SQC files delivered with PeopleTools 7. Otherwise, the process will not run correctly.

Running the SQR Program

To run the TMDOWNLD SQR program:

1. Run the TMDOWNLD SQR program from the SQR command line.
2. Follow the system prompts.

Note. There is no associated run control page with this SQR for PeopleSoft 7 or 7.5 databases. In order to schedule this process to run without manual intervention, you need to create a run control for the process. See your PeopleTools manual for more information on creating run controls.

See Also

SQR documentation

Enterprise PeopleTools 8.49 PeopleBook: SQR for PeopleSoft Developers, “Introducing the Sample SQR Program”

Customizing TreeMover for Additional Node and Level Data Records

This section discusses how to:

- Modify the TreeMover Application Engine program.
- Modify the TreeMover SQR program.

The TreeMover program only moves data in the standard PeopleSoft tree tables. PeopleSoft trees generally have application node data stored in the PS_TREE_NODE_TBL table and application level data stored in the PS_TREE_LEVEL_TBL table.

However, the tables used to hold the application data for the detail values, such as leaves, are always application-specific; there are no default tables for storing that application data. For example, you might have trees that reference employees as leaf values, and the employee information is stored in the PERSONAL_DATA_TBL table. TreeMover does not handle moving data from application tables. Generally, when you move trees between different PeopleSoft databases, you should move the application data using other means, such as with DataMover. However, you can also customize the TreeMover program to copy other application data. As with any PeopleSoft application, you should avoid performing any customizations whenever possible.

Note. Before customizing TreeMover, you should consider the tables that you intend to add support for. Application tables that hold data used by other parts of the PeopleSoft system should be moved by other means, such as DataMover.

Modifying the TreeMover Application Engine Program

The TreeMover process is a PeopleSoft Application Engine process called TREEMOVER. To add support for additional node and level tables, you have to perform two basic steps: create the file layout to be used for the new data and modify the TREEMOVER_AET PeopleCode according to the following steps.

Note. You should *not* need to make any modifications to the actual Application Engine code.

To modify the TreeMover Application Engine program:

1. Create file layouts for your desired tree node data record or tree level data record using Application Designer file layout functionality.

Use one of the existing TreeMover file layouts as an example (TREE_DEFN, TREE_NODE, and so on). Each file layout you add for TreeMover must have a unique file record ID, which is specified as part of the file layout record properties; the existing TreeMover file layouts use numbers 1–6.

Each file layout you add must also have the UPDATE_ACTION field.

2. In the TREEMOVER_AET record, modify the PROCESS_INSTANCE FieldFormula PeopleCode as follows:
 - In the isValidUserNodeRec function, add your desired PeopleSoft records for node data to the condition check.
 - In the isValidUserLevelRec function, add your desired PeopleSoft records for level data to the condition check.
 - In the setUserNodeRecLayout function, add code to set the correct file layout based on the node data record.
 - In the setUserLevelRecLayout function, add code to set the correct file layout based on the level data record.
 - In the getUserNodeData function, add code to get data from your new node records.
 - In the getUserLevelData function, add code to get data from your new level records.

Note. In the steps above, do *not* modify the original code in the functions. You should add new code only within new “if” conditions. If you change any of the existing code, trees based on the PS_TREE_LEVEL_TBL and PS_TREE_NODE_TBL will no longer be handled with TreeMover.

Modifying the TreeMover SQR Program

If you have modified the TREEMOVER Application Engine program, then you also need to make similar changes to the TMDOWNLD.SQR, assuming you’re using that SQR to download trees from a PeopleSoft 7.x database.

To modify the TMDOWNLD SQR program:

1. Change the Download-TreeUserLevel procedure to handle the new tree level data tables.

Be sure to add conditional logic so that the existing logic is still executed when the tree structure uses PS_TREE_LEVEL_TBL. The tree level record name is stored in the variable &TS.LEVEL_RECNAME.

2. Change the Download-TreeUserNode procedure to handle the new tree node data tables.

Be sure to add conditional logic so that the existing logic is still executed when the tree structure uses PS_TREE_NODE_TBL. The tree node record name is stored in the variable &TS.NODE_RECNAME.

APPENDIX A

Setting Multi-Navigation Paths

This appendix provides an overview of multi-navigation paths and discusses how to:

- Use multi-navigation paths.
- Enable multi-navigation.
- Create multi-navigation menus.

Using Multi-Navigation Paths

When you define tree structure, you also define the menu, menu bar, and default navigation pages for nodes and details. With multi-navigation, you can navigate to any of the components and pages that belong to the menu bar specified on the tree structure. For example, using the Personal Data tree, you could navigate to pages such as Personal Data, Benefits, or Salary Information.

When multi-navigation is enabled on the tree's structure, you can click the Navigation Options link in PeopleSoft Tree Manager and select the component to be invoked when editing data on a node or detail value.

This is an example of the Node Navigation page:

Node Navigation Page

This Page allows User to set a Page to be accessible via "Edit Data" Action Image.

Navigation Links		Customize Find View All 	First  1 of 1  Last
	<u>Component</u>		<u>Page</u>
	Department		Department

Set Cancel Reset Default

Node Navigation page

Note. User navigation selections are valid only while the current tree is open. After the tree has been closed and reopened again, the default navigation is restored.

Enabling Multi-Navigation

Two tree structure fields determine if multi-navigation is available for nodes and details. These fields let the tree developer choose whether multiple navigation targets should be supported when accessing node or detail data. By default, multi-navigation is not enabled.

This is an example of the Tree Structure Properties page:

The screenshot shows the 'Tree Structure Properties' dialog box with the 'Structure' tab selected. The 'Structure ID' is 'QE_PERS_DATA', the '*Description' is 'Personal Data', and the '*Type' is 'Detail'. The 'Additional Key Field' section has four radio buttons: 'SetId Indirection' (selected), 'Business Unit', 'User Defined', and 'None'. The 'Navigation Options' section has two checkboxes: 'Node Multi-Navigation' and 'Detail Multi-Navigation', both of which are unchecked.

Tree Structure Properties page, Navigation Options group box

Navigation Options are hidden when the structure type is *Summary*.

Creating Multi-Navigation Menus

We recommend that you create special menus to be used for multi-navigation. These menus should be specific to the nodes or details and should not contain any extra visible components.

Pages that you want to display in the Navigation page should use the Menu and Bar items defined in the tree structure.

To prevent these special menus from being used for something other than tree navigation purposes, clear the Menu Installed check box on the Menu Properties dialog box in PeopleSoft Application Designer.

If the tree structure has been defined with multi-navigation flags enabled, you can select the component and page to open when editing the node or leaf data.

Note. The only components that appear in the Navigation page have the same key fields (ignoring the effective date) as the search record used for the node or detail value. Also, the override search record on the menu, if provided, takes precedence over the search record specified for the component.

See Also

[Chapter 3, “Using PeopleSoft Tree Manager,” Using Navigation Options, page 44](#)

APPENDIX B

Configuring PeopleSoft Tree Manager on the Web

PeopleSoft Tree Manager was developed using standard PeopleSoft Pure Internet Architecture. For example, it was developed using pages, components, and standard PeopleCode functionality. Because of this, additional steps are required for configuring new and existing trees that will be accessed through the web.

This section discusses how to:

- Use PeopleSoft Tree Manager upgrade programs.
- Complete manual configuration steps.
- Enable security access for application pages.
- Update effective-dated application pages.
- Customize TREE_NODE/TREE_LEVEL pages.

Using PeopleSoft Tree Manager Upgrade Programs

Application Engine upgrade programs, UPG8RPTG and UPG81RPTG automatically perform many of the steps that are required to configure your existing trees so that they can be viewed from a web browser.

Note. When upgrading from any 7.x release you will be instructed during the upgrade process to run the UPG8RPTG program. When upgrading from an 8.0x release, you will be instructed to run the UPG81RPTG program. You can rerun the UPG81RPTG program as often as required in order to complete the upgrade of PeopleSoft Tree Manager structures. You should only run the UPG8RPTG program once, as directed by the upgrade process.

To run the UPG8RPTG and UPG81RPTG programs:

1. Select PeopleTools, Application Engine, Request AE.
2. Create a new Application Engine process request run control ID.
The Application Engine Request page appears.
3. Click the Run button to send the request to the Process Scheduler.
The Process Scheduler page appears.
4. Select an application server to run the program from, and then select the UPG8RPTG or UPG81RPTG program from the list of processes displayed.
5. Click the OK button on the Process Scheduler Request page to start the Application Engine program.
6. Select PeopleTools, Process Scheduler, Process Monitor to monitor the status of the UPG8RPTG or UPG81RPTG process.

The process should only take a couple of minutes to run to completion.

7. From the Process Monitor page, find the UPG8RPTG or UPG81RPTG process that you initiated, and select the Details link from the process list.
8. Click the Message Log button to view any messages associated with the program.

You might encounter two messages with the UPG8RPTG and UPG81RPTG programs:

- A page on a tree structure was not found on a component.
- A tree structure referenced a page that was part of a component, but the component was not found on a menu.

Note. If you receive either of these messages, you need to use the manual configuration steps to upgrade these tree structures to be usable from the web.

You can use the View All option to display all messages generated by the UPG8RPTG or UPG81RPTG programs and then use your browser's print functionality to print out the messages.

Completing Manual Configuration Steps

You may need to perform manual configuration steps for trees that used application-specific pages to add or update nodes, levels, or detail values in the tree. No additional configuration steps should be required for trees that use only the standard PeopleSoft Tree Manager pages and tables.

The Windows-based PeopleSoft Tree Manager had the ability to invoke virtually any application-specific page by just knowing the name of the page to be invoked. It did not require that the component and complete menu path be specified on the Tree Structure record. Neither did it use standard security edits or permission lists for determining if the user should have access to a component. It was quite common, in prior releases, for the tree structure to only specify the page and possibly the component to be used. The menu information was usually left blank.

The web-based PeopleSoft Tree Manager uses standard PeopleCode functions to display the application pages used for maintaining the node, level, and detail values. These functions require that:

- The complete menu path is provided.
- Users have security access to work with the pages.

For tree structures that did not fully specify menu paths and security access, the upgrade programs attempt to complete the information by searching existing menus and components to find a valid and complete menu path for node, level, and leaf user data pages. However, there might be cases where existing trees use application pages that are not part of a component, or the component was not part of a PeopleSoft menu definition.

In order to add or update the nodes, levels, and detail values for the web-based PeopleSoft Tree Manager, you have to configure the tree structure records so that all of the page, component, and menu information is correctly specified. The UPG8RPTG and UPG81RPTG programs complete the component information for all of the application pages that are part of a component. They also complete the menu path information for all components that are defined on at least one PeopleSoft menu definition.

Note. The Process Scheduler messages that were generated by the UPG8RPTG and UPG81RPTG programs tell you the pages that are not part of any component, or components that are not part of a PeopleSoft menu definition. After you have created component definitions for all of these pages, you need to rerun only the UPG81RPTG program to update the tree structure records with the new information.

Enabling Security Access for Application Pages

The web-based PeopleSoft Tree Manager uses standard PeopleSoft security and permission lists to control which users should have access to the application pages and what types of actions they should be able to perform.

You need to verify the following:

- All of the application pages that are used by PeopleSoft Tree Manager for maintaining the nodes, levels, and detail values are part of a component.
- The component must be defined on a menu definition that the user has been granted access to.
- Users have specific access to any of the actions, such as Add, Update, and Correction.

Note. The Windows-based PeopleSoft Tree Manager did not use standard PeopleSoft security checks, so existing pages that were accessed from the Windows-based PeopleSoft Tree Manager may not be set up correctly.

Updating Effective-Dated Application Pages

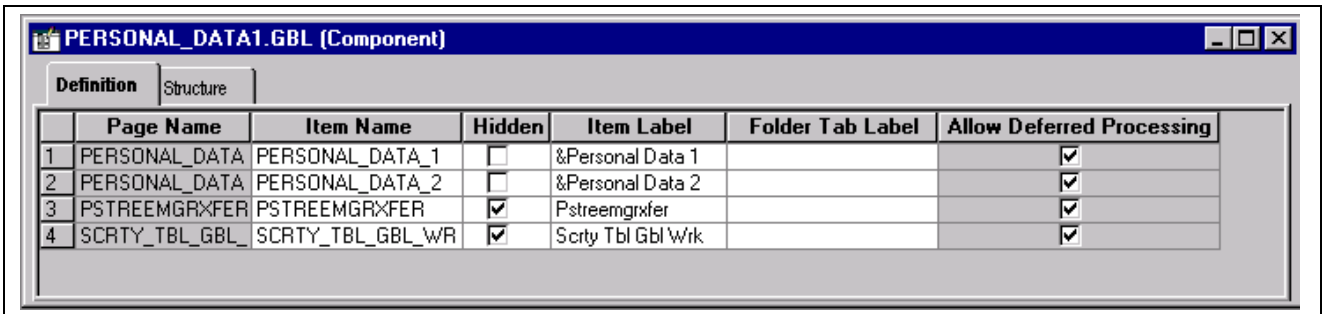
If the application pages used to maintain node, level, or detail value tables are effective-dated, the Windows-based PeopleSoft Tree Manager had special coding to ensure that when you added a new value, the default effective date was the effective date of the tree. When a tree was saved, the Windows-based PeopleSoft Tree Manager checked the effective date of the newly added node, level, or detail value and issued a warning if it was greater than the tree's effective date.

In order to implement tree-specific effective date processing from the web-based PeopleSoft Tree Manager, a PeopleTools-provided work page—PSTREEMGRXFER—needs to be added to any component that updates effective-dated application tables. This work page contains logic that:

- Automatically sets the default effective-date as the effective date of the tree.
- Compares the effective date of the user data to the effective date of the tree during SaveEdit processing.

This new work page has already been added to the default components used to maintain the TREE_NODE_TBL and TREE_LEVEL_TBL, so only those trees that use effective-dated application pages for maintaining the node, level, or detail values need to be updated.

The following illustration shows the PERSONAL_DATA1 component updated to include the new PSTREEMGRXFER work page. Notice that the new work page is marked as a hidden page:



	Page Name	Item Name	Hidden	Item Label	Folder Tab Label	Allow Deferred Processing
1	PERSONAL_DATA	PERSONAL_DATA_1	☐	&Personal Data 1		☒
2	PERSONAL_DATA	PERSONAL_DATA_2	☐	&Personal Data 2		☒
3	PSTREEMGRXFER	PSTREEMGRXFER	☒	Pstreemgrxfer		☒
4	SCRTY_TBL_GBL	SCRTY_TBL_GBL_WR	☒	ScrtY Tbl Gbl Wrk		☒

Updated Personal Data component

Note. In the example above, the SCRTY_TBL_BGL_WRK page was already part of this component and is used for other “non-tree” related purposes.

This configuration step is optional. However, remember that users of the Windows-based PeopleSoft Tree Manager are used to having the effective date of the application data automatically set to the tree’s effective date. Therefore, in order to provide consistent functionality, you should consider adding the new PSTREEMGRXFER page to your effective-dated components.

Customizing TREE_NODE/TREE_LEVEL Pages

The Windows-based PeopleSoft Tree Manager provided standard pages and components for maintaining the TREE_NODE_TBL and TREE_LEVEL_TBL tables, such as the default tables that are used for the node and level data. If you have customized either of these pages or components, you should apply the same customizations to the versions that are used specifically by the web-based PeopleSoft Tree Manager.

The web-based PeopleSoft Tree Manager uses the following pages and components for maintaining data in the TREE_NODE_TBL and the TREE_LEVEL_TBL tables:

- Node Components(Page):

TREE_NODE_PeopleSoft Internet Architecture(TREE_NODE_PIA)

TREE_NODE_PIA_2(TREE_NODE_PIA_2)

- Level Components(Page):

TREE_LEVEL_PIA(TREE_LEVEL_PIA)

TREE_LEVEL_PIA_2(TREE_LEVEL_PIA_2)

Glossary of PeopleSoft Enterprise Terms

absence entitlement	This element defines rules for granting paid time off for valid absences, such as sick time, vacation, and maternity leave. An absence entitlement element defines the entitlement amount, frequency, and entitlement period.
absence take	This element defines the conditions that must be met before a payee is entitled to take paid time off.
academic career	In PeopleSoft Enterprise Campus Solutions, all course work that a student undertakes at an academic institution and that is grouped in a single student record. For example, a university that has an undergraduate school, a graduate school, and various professional schools might define several academic careers—an undergraduate career, a graduate career, and separate careers for each professional school (law school, medical school, dental school, and so on).
academic institution	In PeopleSoft Enterprise Campus Solutions, an entity (such as a university or college) that is independent of other similar entities and that has its own set of rules and business processes.
academic organization	In PeopleSoft Enterprise Campus Solutions, an entity that is part of the administrative structure within an academic institution. At the lowest level, an academic organization might be an academic department. At the highest level, an academic organization can represent a division.
academic plan	In PeopleSoft Enterprise Campus Solutions, an area of study—such as a major, minor, or specialization—that exists within an academic program or academic career.
academic program	In PeopleSoft Enterprise Campus Solutions, the entity to which a student applies and is admitted and from which the student graduates.
accounting class	In PeopleSoft Enterprise Performance Management, the accounting class defines how a resource is treated for generally accepted accounting practices. The Inventory class indicates whether a resource becomes part of a balance sheet account, such as inventory or fixed assets, while the Non-inventory class indicates that the resource is treated as an expense of the period during which it occurs.
accounting date	The accounting date indicates when a transaction is recognized, as opposed to the date the transaction actually occurred. The accounting date and transaction date can be the same. The accounting date determines the period in the general ledger to which the transaction is to be posted. You can only select an accounting date that falls within an open period in the ledger to which you are posting. The accounting date for an item is normally the invoice date.
accounting split	The accounting split method indicates how expenses are allocated or divided among one or more sets of accounting ChartFields.
accumulator	You use an accumulator to store cumulative values of defined items as they are processed. You can accumulate a single value over time or multiple values over time. For example, an accumulator could consist of all voluntary deductions, or all company deductions, enabling you to accumulate amounts. It allows total flexibility for time periods and values accumulated.
action reason	The reason an employee's job or employment information is updated. The action reason is entered in two parts: a personnel action, such as a promotion, termination, or change from one pay group to another—and a reason for that action. Action reasons are used by PeopleSoft Enterprise Human Resources, PeopleSoft Enterprise Benefits

	Administration, PeopleSoft Enterprise Stock Administration, and the COBRA Administration feature of the Base Benefits business process.
action template	In PeopleSoft Enterprise Receivables, outlines a set of escalating actions that the system or user performs based on the period of time that a customer or item has been in an action plan for a specific condition.
activity	In PeopleSoft Enterprise Learning Management, an instance of a catalog item (sometimes called a class) that is available for enrollment. The activity defines such things as the costs that are associated with the offering, enrollment limits and deadlines, and waitlisting capacities. In PeopleSoft Enterprise Performance Management, the work of an organization and the aggregation of actions that are used for activity-based costing. In PeopleSoft Enterprise Project Costing, the unit of work that provides a further breakdown of projects—usually into specific tasks. In PeopleSoft Workflow, a specific transaction that you might need to perform in a business process. Because it consists of the steps that are used to perform a transaction, it is also known as a step map.
address usage	In PeopleSoft Enterprise Campus Solutions, a grouping of address types defining the order in which the address types are used. For example, you might define an address usage code to process addresses in the following order: billing address, dormitory address, home address, and then work address.
adjustment calendar	In PeopleSoft Enterprise Campus Solutions, the adjustment calendar controls how a particular charge is adjusted on a student's account when the student drops classes or withdraws from a term. The charge adjustment is based on how much time has elapsed from a predetermined date, and it is determined as a percentage of the original charge amount.
administrative function	In PeopleSoft Enterprise Campus Solutions, a particular functional area that processes checklists, communication, and comments. The administrative function identifies which variable data is added to a person's checklist or communication record when a specific checklist code, communication category, or comment is assigned to the student. This key data enables you to trace that checklist, communication, or comment back to a specific processing event in a functional area.
admit type	In PeopleSoft Enterprise Campus Solutions, a designation used to distinguish first-year applications from transfer applications.
agreement	In PeopleSoft Enterprise eSettlements, provides a way to group and specify processing options, such as payment terms, pay from a bank, and notifications by a buyer and supplier location combination.
allocation rule	In PeopleSoft Enterprise Incentive Management, an expression within compensation plans that enables the system to assign transactions to nodes and participants. During transaction allocation, the allocation engine traverses the compensation structure from the current node to the root node, checking each node for plans that contain allocation rules.
alternate account	A feature in PeopleSoft Enterprise General Ledger that enables you to create a statutory chart of accounts and enter statutory account transactions at the detail transaction level, as required for recording and reporting by some national governments.
analysis database	In PeopleSoft Enterprise Campus Solutions, database tables that store large amounts of student information that may not appear in standard report formats. The analysis database tables contain keys for all objects in a report that an application program can use to reference other student-record objects that are not contained in the printed report. For instance, the analysis database contains data on courses that are considered

	for satisfying a requirement but that are rejected. It also contains information on courses captured by global limits. An analysis database is used in PeopleSoft Enterprise Academic Advisement.
Application Messaging	PeopleSoft Application Messaging enables applications within the PeopleSoft Enterprise product family to communicate synchronously or asynchronously with other PeopleSoft Enterprise and third-party applications. An application message defines the records and fields to be published or subscribed to.
AR specialist	Abbreviation for <i>receivables specialist</i> . In PeopleSoft Enterprise Receivables, an individual in who tracks and resolves deductions and disputed items.
arbitration plan	The arbiter when multiple price rules match the transaction. This plan determines the order in which the price rules are applied to the transaction base price.
assessment rule	In PeopleSoft Enterprise Receivables, a user-defined rule that the system uses to evaluate the condition of a customer's account or of individual items to determine whether to generate a follow-up action.
asset class	An asset group used for reporting purposes. It can be used in conjunction with the asset category to refine asset classification.
attribute/value pair	In PeopleSoft Enterprise Directory Interface, relates the data that makes up an entry in the directory information tree.
auction event	In PeopleSoft Strategic Sourcing, a sourcing event where bidders actively compete against one another to achieve the best price or score.
audience	In PeopleSoft Enterprise Campus Solutions, a segment of the database that relates to an initiative, or a membership organization that is based on constituent attributes rather than a dues-paying structure. Examples of audiences include the Class of '65 and Undergraduate Arts & Sciences.
authentication server	A server that is set up to verify users of the system.
base time period	In PeopleSoft Enterprise Business Planning, the lowest level time period in a calendar.
benchmark job	In PeopleSoft Enterprise Workforce Analytics Solution, a benchmark job is a job code for which there is corresponding salary survey data from published, third-party sources.
bid response	In PeopleSoft Strategic Sourcing, the response by a bidder to an event.
billing career	In PeopleSoft Enterprise Campus Solutions, the one career under which other careers are grouped for billing purposes if a student is active simultaneously in multiple careers.
bio bit or bio brief	In PeopleSoft Enterprise Campus Solutions, a report that summarizes information stored in the system about a particular constituent. You can generate standard or specialized reports.
book	In PeopleSoft Enterprise Asset Management, used for storing financial and tax information, such as costs, depreciation attributes, and retirement information on assets.
branch	A tree node that rolls up to nodes above it in the hierarchy, as defined in PeopleSoft Tree Manager.
budgetary account only	An account used by the system only and not by users; this type of account does not accept transactions. You can only budget with this account. Formerly called "system-maintained account."

budget check	In commitment control, the processing of source transactions against control budget ledgers, to see if they pass, fail, or pass with a warning.
budget control	In commitment control, budget control ensures that commitments and expenditures don't exceed budgets. It enables you to track transactions against corresponding budgets and terminate a document's cycle if the defined budget conditions are not met. For example, you can prevent a purchase order from being dispatched to a vendor if there are insufficient funds in the related budget to support it.
budget period	The interval of time (such as 12 months or 4 quarters) into which a period is divided for budgetary and reporting purposes. The ChartField allows maximum flexibility to define operational accounting time periods without restriction to only one calendar.
business activity	The name of a subset of a detailed business process. This might be a specific transaction, task, or action that you perform in a business process.
business event	In PeopleSoft Enterprise Receivables, defines the processing characteristics for the Receivable Update process for a draft activity. In PeopleSoft Enterprise Sales Incentive Management, an original business transaction or activity that may justify the creation of a PeopleSoft Enterprise Incentive Management event (a sale, for example).
business process	A standard set of 17 business processes are defined and maintained by the PeopleSoft Enterprise product families and are supported by the Business Process Engineering group. An example of a business process is Order Fulfillment, which is a business process that manages sales orders and contracts, inventory, billing, and so forth. See also <i>detailed business process</i>.
business unit constraints	In PeopleSoft Strategic Sourcing, these constraints apply to a selected Strategic Sourcing business unit. Spend is tracked across all of the events within the selected Strategic Sourcing business unit.
business task	The name of the specific function depicted in one of the business processes.
business unit	A corporation or a subset of a corporation that is independent with regard to one or more operational or accounting functions.
buyer	In PeopleSoft Enterprise eSettlements, an organization (or business unit, as opposed to an individual) that transacts with suppliers (vendors) within the system. A buyer creates payments for purchases that are made in the system.
buy event	In PeopleSoft Strategic Sourcing, for event creators, the purchase of goods or services, most typically associated with a request for quote, proposal, or reverse auction. For bidders, the sale of goods or services.
campus	In PeopleSoft Enterprise Campus Solutions, an entity that is usually associated with a distinct physical administrative unit, that belongs to a single academic institution, that uses a unique course catalog, and that produces a common transcript for students within the same academic career.
cash drawer	A repository for monies and payments taken locally.
catalog item	In PeopleSoft Enterprise Learning Management, a specific topic that a learner can study and have tracked. For example, "Introduction to Microsoft Word." A catalog item contains general information about the topic and includes a course code, description, categorization, keywords, and delivery methods. A catalog item can have one or more learning activities.
catalog map	In PeopleSoft Enterprise Catalog Management, translates values from the catalog source data to the format of the company's catalog.

catalog partner	In PeopleSoft Enterprise Catalog Management, shares responsibility with the enterprise catalog manager for maintaining catalog content.
categorization	Associates partner offerings with catalog offerings and groups them into enterprise catalog categories.
category	In PeopleSoft Enterprise Campus Solutions, a broad grouping to which specific comments or communications (contexts) are assigned. Category codes are also linked to 3C access groups so that you can assign data-entry or view-only privileges across functions.
channel	In PeopleSoft MultiChannel Framework, email, chat, voice (computer telephone integration [CTI]), or a generic event.
ChartField	A field that stores a chart of accounts, resources, and so on, depending on the PeopleSoft Enterprise application. ChartField values represent individual account numbers, department codes, and so forth.
ChartField balancing	You can require specific ChartFields to match up (balance) on the debit and the credit side of a transaction.
ChartField combination edit	The process of editing journal lines for valid ChartField combinations based on user-defined rules.
ChartKey	One or more fields that uniquely identify each row in a table. Some tables contain only one field as the key, while others require a combination.
checkbook	In PeopleSoft Enterprise Promotions Management, enables you to view financial data (such as planned, incurred, and actual amounts) that is related to funds and trade promotions.
checklist code	In PeopleSoft Enterprise Campus Solutions, a code that represents a list of planned or completed action items that can be assigned to a staff member, volunteer, or unit. Checklists enable you to view all action assignments on one page.
claimback	In the wholesale distribution industry, a contract between supplier and distributor, in which monies are paid to the distributor on the sale of specified products or product groups to targeted customers or customer groups.
class	In PeopleSoft Enterprise Campus Solutions, a specific offering of a course component within an academic term. See also <i>course</i> .
Class ChartField	A ChartField value that identifies a unique appropriation budget key when you combine it with a fund, department ID, and program code, as well as a budget period. Formerly called <i>sub-classification</i> .
clearance	In PeopleSoft Enterprise Campus Solutions, the period of time during which a constituent in PeopleSoft Enterprise Contributor Relations is approved for involvement in an initiative or an action. Clearances are used to prevent development officers from making multiple requests to a constituent during the same time period.
clone	In PeopleCode, to make a unique copy. In contrast, to <i>copy</i> may mean making a new reference to an object, so if the underlying object is changed, both the copy and the original change.
cohort	In PeopleSoft Enterprise Campus Solutions, the highest level of the three-level classification structure that you define for enrollment management. You can define a cohort level, link it to other levels, and set enrollment target numbers for it. See also <i>population</i> and <i>division</i> .

collection	To make a set of documents available for searching in Verity, you must first create at least one collection. A collection is set of directories and files that allow search application users to use the Verity search engine to quickly find and display source documents that match search criteria. A collection is a set of statistics and pointers to the source documents, stored in a proprietary format on a file server. Because a collection can only store information for a single location, PeopleTools maintains a set of collections (one per language code) for each search index object.
collection rule	In PeopleSoft Enterprise Receivables, a user-defined rule that defines actions to take for a customer based on both the amount and the number of days past due for outstanding balances.
comm key	See <i>communication key</i> .
communication key	In PeopleSoft Enterprise Campus Solutions, a single code for entering a combination of communication category, communication context, communication method, communication direction, and standard letter code. Communication keys (also called <i>comm keys</i> or <i>speed keys</i>) can be created for background processes as well as for specific users.
compensation object	In PeopleSoft Enterprise Incentive Management, a node within a compensation structure. Compensation objects are the building blocks that make up a compensation structure's hierarchical representation.
compensation structure	In PeopleSoft Enterprise Incentive Management, a hierarchical relationship of compensation objects that represents the compensation-related relationship between the objects.
component interface	A component interface is a set of application programming interfaces (APIs) that you can use to access and modify PeopleSoft Enterprise database information using a program instead of the PeopleSoft client.
condition	In PeopleSoft Enterprise Receivables, occurs when there is a change of status for a customer's account, such as reaching a credit limit or exceeding a user-defined balance due.
configuration parameter catalog	Used to configure an external system with PeopleSoft Enterprise. For example, a configuration parameter catalog might set up configuration and communication parameters for an external server.
configuration plan	In PeopleSoft Enterprise Incentive Management, configuration plans hold allocation information for common variables (not incentive rules) and are attached to a node without a participant. Configuration plans are not processed by transactions.
constituents	In PeopleSoft Enterprise Campus Solutions, friends, alumni, organizations, foundations, or other entities affiliated with the institution, and about which the institution maintains information. The constituent types delivered with PeopleSoft Enterprise Contributor Relations Solutions are based on those defined by the Council for the Advancement and Support of Education (CASE).
constraint	A business policy or rule that affects how a sourcing event is awarded. There are three types of constraints: business, global, and event.
content reference	Content references are pointers to content registered in the portal registry. These are typically either URLs or iScripts. Content references fall into three categories: target content, templates, and template pagelets.
context	In PeopleCode, determines which buffer fields can be contextually referenced and which is the current row of data on each scroll level when a PeopleCode program is running. In PeopleSoft Enterprise Campus Solutions, a specific instance of a comment or communication. One or more contexts are assigned to a category, which you link to

	3C access groups so that you can assign data-entry or view-only privileges across functions.
	In PeopleSoft Enterprise Incentive Management, a mechanism that is used to determine the scope of a processing run. PeopleSoft Enterprise Incentive Management uses three types of context: plan, period, and run-level.
control table	Stores information that controls the processing of an application. This type of processing might be consistent throughout an organization, or it might be used only by portions of the organization for more limited sharing of data.
cost plus contract line	A rate-based contract line associated with a fee component of Award, Fixed, Incentive, or Other. Rate-based contract lines associated with a fee type of None are not considered cost-plus contract lines.
cost plus pricing	In PeopleSoft Enterprise Pricer, a pricing method that begins with cost of goods as the basis.
cost profile	A combination of a receipt cost method, a cost flow, and a deplete cost method. A profile is associated with a cost book and determines how items in that book are valued, as well as how the material movement of the item is valued for the book.
cost row	A cost transaction and amount for a set of ChartFields.
counter sale	A face-to-face customer transaction where the customer typically selects items from the storefront or picks up products that they ordered ahead of time. Customers pay for the goods at the counter and take the goods with them instead of having the goods shipped from a warehouse.
course	In PeopleSoft Enterprise Campus Solutions, a course that is offered by a school and that is typically described in a course catalog. A course has a standard syllabus and credit level; however, these may be modified at the class level. Courses can contain multiple components such as lecture, discussion, and lab. See also <i>class</i> .
course share set	In PeopleSoft Enterprise Campus Solutions, a tag that defines a set of requirement groups that can share courses. Course share sets are used in PeopleSoft Enterprise Academic Advisement.
current learning	In PeopleSoft Enterprise Learning Management, a self-service repository for all of a learner's in-progress learning activities and programs.
data acquisition	In PeopleSoft Enterprise Incentive Management, the process during which raw business transactions are acquired from external source systems and fed into the operational data store (ODS).
data cube	In PeopleSoft Analytic Calculation Engine, a data cube is a container for one kind of data (such as Sales data) and works with in tandem with one or more dimensions. Dimensions and data cubes in PeopleSoft Analytic Calculation Engine are unrelated to dimensions and online analytical processing (OLAP) cubes in PeopleSoft Cube Manager.
data elements	Data elements, at their simplest level, define a subset of data and the rules by which to group them. For Workforce Analytics, data elements are rules that tell the system what measures to retrieve about your workforce groups.
dataset	A data grouping that enables role-based filtering and distribution of data. You can limit the range and quantity of data that is displayed for a user by associating dataset rules with user roles. The result of dataset rules is a set of data that is appropriate for the user's roles.

delivery method	In PeopleSoft Enterprise Learning Management, identifies the primary type of delivery method in which a particular learning activity is offered. Also provides default values for the learning activity, such as cost and language. This is primarily used to help learners search the catalog for the type of delivery from which they learn best. Because PeopleSoft Enterprise Learning Management is a blended learning system, it does not enforce the delivery method. In PeopleSoft Enterprise Supply Chain Management, identifies the method by which goods are shipped to their destinations (such as truck, air, and rail). The delivery method is specified when creating shipment schedules.
delivery method type	In PeopleSoft Enterprise Learning Management, identifies how learning activities can be delivered—for example, through online learning, classroom instruction, seminars, books, and so forth—in an organization. The type determines whether the delivery method includes scheduled components.
detailed business process	A subset of the business process. For example, the detailed business process named Determine Cash Position is a subset of the business process called Cash Management.
dimension	In PeopleSoft Analytic Calculation Engine, a dimension contains a list of one kind of data that can span various contexts, and it is a basic component of an analytic model. Within the analytic model, a dimension is attached to one or more data cubes. In PeopleSoft Cube Manager, a dimension is the most basic component of an OLAP cube and specifies the PeopleSoft metadata to be used to create the dimension's rollup structure. Dimensions and data cubes in PeopleSoft Analytic Calculation Engine are unrelated to dimensions and OLAP cubes in PeopleSoft Cube Manager.
direct receipt	Items shipped from a warehouse or vendor to another warehouse.
direct ship	Items shipped from the vendor or warehouse directly to the customer (formerly referred to as <i>drop ship</i>).
directory information tree	In PeopleSoft Enterprise Directory Interface, the representation of a directory's hierarchical structure.
division	In PeopleSoft Enterprise Campus Solutions, the lowest level of the three-level classification structure that you define in PeopleSoft Enterprise Recruiting and Admissions for enrollment management. You can define a division level, link it to other levels, and set enrollment target numbers for it. See also <i>population</i> and <i>cohort</i>.
document sequencing	A flexible method that sequentially numbers the financial transactions (for example, bills, purchase orders, invoices, and payments) in the system for statutory reporting and for tracking commercial transaction activity.
dynamic detail tree	A tree that takes its detail values—dynamic details—directly from a table in the database, rather than from a range of values that are entered by the user.
edit table	A table in the database that has its own record definition, such as the Department table. As fields are entered into a PeopleSoft Enterprise application, they can be validated against an edit table to ensure data integrity throughout the system.
effective date	A method of dating information in PeopleSoft Enterprise applications. You can predate information to add historical data to your system, or postdate information in order to enter it before it actually goes into effect. By using effective dates, you don't delete values; you enter a new value with a current effective date.
EIM ledger	Abbreviation for <i>Enterprise Incentive Management ledger</i> . In PeopleSoft Enterprise Incentive Management, an object to handle incremental result gathering within the scope of a participant. The ledger captures a result set with all of the appropriate traces to the data origin and to the processing steps of which it is a result.

elimination set	In PeopleSoft Enterprise General Ledger, a related group of intercompany accounts that is processed during consolidations.
entry event	In PeopleSoft Enterprise General Ledger, Receivables, Payables, Purchasing, and Billing, a business process that generates multiple debits and credits resulting from single transactions to produce standard, supplemental accounting entries.
equitization	In PeopleSoft Enterprise General Ledger, a business process that enables parent companies to calculate the net income of subsidiaries on a monthly basis and adjust that amount to increase the investment amount and equity income amount before performing consolidations.
equity item limit	In PeopleSoft Enterprise Campus Solutions, the amounts of funds set by the institution to be awarded with discretionary or gift funds. The limit could be reduced by amounts equal to such things as expected family contribution (EFC) or parent contribution. Students are packaged by Equity Item Type Groups and Related Equity Item Types. This limit can be used to assure that similar student populations are packaged equally.
event	A predefined point either in the Component Processor flow or in the program flow. As each point is encountered, the event activates each component, triggering any PeopleCode program that is associated with that component and that event. Examples of events are FieldChange, SavePreChange, and RowDelete. In PeopleSoft Enterprise Human Resources, also refers to an incident that affects benefits eligibility.
event constraints	In PeopleSoft Strategic Sourcing, these constraints are associated with a specific sourcing event. Spend is tracked within the selected event.
event propagation process	In PeopleSoft Enterprise Sales Incentive Management, a process that determines, through logic, the propagation of an original PeopleSoft Enterprise Incentive Management event and creates a derivative (duplicate) of the original event to be processed by other objects. PeopleSoft Enterprise Enterprise Sales Incentive Management uses this mechanism to implement splits, roll-ups, and so on. Event propagation determines who receives the credit.
exception	In PeopleSoft Enterprise Receivables, an item that either is a deduction or is in dispute.
exclusive pricing	In PeopleSoft Enterprise Order Management, a type of arbitration plan that is associated with a price rule. Exclusive pricing is used to price sales order transactions.
fact	In PeopleSoft Enterprise applications, facts are numeric data values from fields from a source database as well as an analytic application. A fact can be anything you want to measure your business by, for example, revenue, actual, budget data, or sales numbers. A fact is stored on a fact table.
financial aid term	In PeopleSoft Enterprise Campus Solutions, a combination of a period of time that the school determines as an instructional accounting period and an academic career. It is created and defined during the setup process. Only terms eligible for financial aid are set up for each financial aid career.
financial sanctions	For U.S. based companies and their foreign subsidiaries, a federal regulation from the Office of Foreign Assets Control (OFAC) requires that vendors be validated against a Specially Designated Nationals (SDN) list prior to payment. For PeopleSoft Payables, eSettlements, Cash Management, and Order to Cash, you can validate your vendors against any financial sanctions list (for example, the SDN list, a European Union list, and so on).
forecast item	A logical entity with a unique set of descriptive demand and forecast data that is used as the basis to forecast demand. You create forecast items for a wide range of uses, but they ultimately represent things that you buy, sell, or use in your organization and for which you require a predictable usage.

fund	In PeopleSoft Enterprise Promotions Management, a budget that can be used to fund promotional activity. There are four funding methods: top down, fixed accrual, rolling accrual, and zero-based accrual.
gap	In PeopleSoft Enterprise Campus Solutions, an artificial figure that sets aside an amount of unmet financial aid need that is not funded with Title IV funds. A gap can be used to prevent fully funding any student to conserve funds, or it can be used to preserve unmet financial aid need so that institutional funds can be awarded.
generic process type	In PeopleSoft Process Scheduler, process types are identified by a generic process type. For example, the generic process type SQR includes all SQR process types, such as SQR process and SQR report.
gift table	In PeopleSoft Enterprise Campus Solutions, a table or so-called <i>donor pyramid</i> describing the number and size of gifts that you expect will be needed to successfully complete the campaign in PeopleSoft Enterprise Contributor Relations. The gift table enables you to estimate the number of donors and prospects that you need at each gift level to reach the campaign goal.
GDS	Abbreviation for <i>Global Distribution System</i> . Broad-based term to describe all computer reservation systems for making travel plans.
GL business unit	Abbreviation for <i>general ledger business unit</i> . A unit in an organization that is an independent entity for accounting purposes. It maintains its own set of accounting books. See also <i>business unit</i> .
GL entry template	Abbreviation for <i>general ledger entry template</i> . In PeopleSoft Enterprise Campus Solutions, a template that defines how a particular item is sent to the general ledger. An item-type maps to the general ledger, and the GL entry template can involve multiple general ledger accounts. The entry to the general ledger is further controlled by high-level flags that control the summarization and the type of accounting—that is, accrual or cash.
GL Interface process	Abbreviation for <i>General Ledger Interface process</i> . In PeopleSoft Enterprise Campus Solutions, a process that is used to send transactions from PeopleSoft Enterprise Student Financials to the general ledger. Item types are mapped to specific general ledger accounts, enabling transactions to move to the general ledger when the GL Interface process is run.
global constraints	In PeopleSoft Strategic Sourcing, these constraints apply across multiple Strategic Sourcing business units. Spend is tracked across all of the events from the multiple Strategic Sourcing business units.
group	In PeopleSoft Enterprise Billing and Receivables, a posting entity that comprises one or more transactions (items, deposits, payments, transfers, matches, or write-offs). In PeopleSoft Enterprise Human Resources Management and Supply Chain Management, any set of records that are associated under a single name or variable to run calculations in PeopleSoft business processes. In PeopleSoft Enterprise Time and Labor, for example, employees are placed in groups for time reporting purposes.
ideal response	In PeopleSoft Strategic Sourcing, a question that requires the response to match the ideal value for the bid to be considered eligible for award. If the response does not match the ideal value, you can still submit the bid, but it will be disqualified and ineligible for award.
incentive object	In PeopleSoft Enterprise Incentive Management, the incentive-related objects that define and support the PeopleSoft Enterprise Incentive Management calculation process and results, such as plan templates, plans, results data, and user interaction objects.

incentive rule	In PeopleSoft Enterprise Sales Incentive Management, the commands that act on transactions and turn them into compensation. A rule is one part in the process of turning a transaction into compensation.
incur	In PeopleSoft Enterprise Promotions Management, to become liable for a promotional payment. In other words, you owe that amount to a customer for promotional activities.
initiative	In PeopleSoft Enterprise Campus Solutions, the basis from which all advancement plans are executed. It is an organized effort targeting a specific constituency, and it can occur over a specified period of time with specific purposes and goals. An initiative can be a campaign, an event, an organized volunteer effort, a membership drive, or any other type of effort defined by the institution. Initiatives can be multipart, and they can be related to other initiatives. This enables you to track individual parts of an initiative, as well as entire initiatives.
inquiry access	In PeopleSoft Enterprise Campus Solutions, a type of security access that permits the user only to view data. See also <i>update access</i> .
institution	In PeopleSoft Enterprise Campus Solutions, an entity (such as a university or college) that is independent of other similar entities and that has its own set of rules and business processes.
integration	A relationship between two compatible integration points that enables communication to take place between systems. Integrations enable PeopleSoft Enterprise applications to work seamlessly with other PeopleSoft Enterprise applications or with third-party systems or software.
integration point	An interface that a system uses to communicate with another PeopleSoft Enterprise application or an external application.
integration set	A logical grouping of integrations that applications use for the same business purpose. For example, the integration set <code>ADVANCED_SHIPPING_ORDER</code> contains all of the integrations that notify a customer that an order has shipped.
item	In PeopleSoft Enterprise Inventory, a tangible commodity that is stored in a business unit (shipped from a warehouse). In PeopleSoft Enterprise Demand Planning, Inventory Policy Planning, and Supply Planning, a noninventory item that is designated as being used for planning purposes only. It can represent a family or group of inventory items. It can have a planning bill of material (BOM) or planning routing, and it can exist as a component on a planning BOM. A planning item cannot be specified on a production or engineering BOM or routing, and it cannot be used as a component in a production. The quantity on hand will never be maintained. In PeopleSoft Enterprise Receivables, an individual receivable. An item can be an invoice, a credit memo, a debit memo, a write-off, or an adjustment.
item shuffle	In PeopleSoft Enterprise Campus Solutions, a process that enables you to change a payment allocation without having to reverse the payment.
itinerary	In PeopleSoft Expenses, a collection of travel reservations. Itineraries can have reservations that are selected and reserved with the travel vendor. These itineraries are not yet paid for and can be referred to as <i>pending reservations</i> . Reservations that have been paid for are referred to as <i>confirmed reservations</i> .
joint communication	In PeopleSoft Enterprise Campus Solutions, one letter that is addressed jointly to two people. For example, a letter might be addressed to both Mr. Sudhir Awat and Ms. Samantha Mortelli. A relationship must be established between the two individuals in the database, and at least one of the individuals must have an ID in the database.

keyword	In PeopleSoft Enterprise Campus Solutions, a term that you link to particular elements within PeopleSoft Enterprise Student Financials, Financial Aid, and Contributor Relations. You can use keywords as search criteria that enable you to locate specific records in a search dialog box.
KPI	An abbreviation for <i>key performance indicator</i> . A high-level measurement of how well an organization is doing in achieving critical success factors. This defines the data value or calculation upon which an assessment is determined.
KVI	Abbreviation for <i>Known Value Item</i> . Term used for products or groups of products where the selling price cannot be reduced or increased.
landlord	In PeopleSoft Real Estate Management, an entity that owns real estate and leases the real estate to tenants.
LDIF file	Abbreviation for <i>Lightweight Directory Access Protocol (LDAP) Data Interchange Format file</i> . Contains discrepancies between PeopleSoft Enterprise data and directory data.
learner group	In PeopleSoft Enterprise Learning Management, a group of learners who are linked to the same learning environment. Members of the learner group can share the same attributes, such as the same department or job code. Learner groups are used to control access to and enrollment in learning activities and programs. They are also used to perform group enrollments and mass enrollments in the back office.
learning components	In PeopleSoft Enterprise Learning Management, the foundational building blocks of learning activities. PeopleSoft Enterprise Learning Management supports six basic types of learning components: web-based, session, webcast, test, survey, and assignment. One or more of these learning component types compose a single learning activity.
learning environment	In PeopleSoft Enterprise Learning Management, identifies a set of categories and catalog items that can be made available to learner groups. Also defines the default values that are assigned to the learning activities and programs that are created within a particular learning environment. Learning environments provide a way to partition the catalog so that learners see only those items that are relevant to them.
learning history	In PeopleSoft Enterprise Learning Management, a self-service repository for all of a learner's completed learning activities and programs.
lease	In PeopleSoft Real Estate Management, a legally binding agreement between a landlord and a tenant, where the tenant rents all or part of a physical property from the landlord.
lease abstract	In PeopleSoft Real Estate Management, a summarized version of the complete lease contract with only the important terms. The lease abstract usually fits on one page and does not include legal terminology.
ledger mapping	You use ledger mapping to relate expense data from general ledger accounts to resource objects. Multiple ledger line items can be mapped to one or more resource IDs. You can also use ledger mapping to map dollar amounts (referred to as <i>rates</i>) to business units. You can map the amounts in two different ways: an actual amount that represents actual costs of the accounting period, or a budgeted amount that can be used to calculate the capacity rates as well as budgeted model results. In PeopleSoft Enterprise Warehouse, you can map general ledger accounts to the EW Ledger table.
library section	In PeopleSoft Enterprise Incentive Management, a section that is defined in a plan (or template) and that is available for other plans to share. Changes to a library section are reflected in all plans that use it.
line	In PeopleSoft Strategic Sourcing, an individual item or service upon which there can be a bid.

linked section	In PeopleSoft Enterprise Incentive Management, a section that is defined in a plan template but appears in a plan. Changes to linked sections propagate to plans using that section.
linked variable	In PeopleSoft Enterprise Incentive Management, a variable that is defined and maintained in a plan template and that also appears in a plan. Changes to linked variables propagate to plans using that variable.
LMS	Abbreviation for <i>learning management system</i> . In PeopleSoft Enterprise Campus Solutions, LMS is a PeopleSoft Enterprise Student Records feature that provides a common set of interoperability standards that enable the sharing of instructional content and data between learning and administrative environments.
load	In PeopleSoft Enterprise Inventory, identifies a group of goods that are shipped together. Load management is a feature of PeopleSoft Enterprise Inventory that is used to track the weight, the volume, and the destination of a shipment.
local functionality	In PeopleSoft Enterprise HRMS, the set of information that is available for a specific country. You can access this information when you click the appropriate country flag in the global window, or when you access it by a local country menu.
location	Locations enable you to indicate the different types of addresses—for a company, for example, one address to receive bills, another for shipping, a third for postal deliveries, and a separate street address. Each address has a different location number. The primary location—indicated by a <i>1</i> —is the address you use most often and may be different from the main address.
logistical task	In PeopleSoft Enterprise Services Procurement, an administrative task that is related to hiring a service provider. Logistical tasks are linked to the service type on the work order so that different types of services can have different logistical tasks. Logistical tasks include both preapproval tasks (such as assigning a new badge or ordering a new laptop) and postapproval tasks (such as scheduling orientation or setting up the service provider email). The logistical tasks can be mandatory or optional. Mandatory preapproval tasks must be completed before the work order is approved. Mandatory postapproval tasks, on the other hand, must be completed before a work order is released to a service provider.
market template	In PeopleSoft Enterprise Incentive Management, additional functionality that is specific to a given market or industry and is built on top of a product category.
mass change	In PeopleSoft Enterprise Campus Solutions, mass change is a SQL generator that can be used to create specialized functionality. Using mass change, you can set up a series of Insert, Update, or Delete SQL statements to perform business functions that are specific to the institution. See also <i>3C engine</i> .
match group	In PeopleSoft Enterprise Receivables, a group of receivables items and matching offset items. The system creates match groups by using user-defined matching criteria for selected field values.
MCF server	Abbreviation for <i>PeopleSoft MultiChannel Framework server</i> . Comprises the universal queue server and the MCF log server. Both processes are started when <i>MCF Servers</i> is selected in an application server domain configuration.
merchandising activity	In PeopleSoft Enterprise Promotions Management, a specific discount type that is associated with a trade promotion (such as off-invoice, billback or rebate, or lump-sum payment) that defines the performance that is required to receive the discount. In the industry, you may know this as an offer, a discount, a merchandising event, an event, or a tactic.

meta-SQL	Meta-SQL constructs expand into platform-specific SQL substrings. They are used in functions that pass SQL strings, such as in SQL objects, the SQLExec function, and PeopleSoft Application Engine programs.
metastring	Metastrings are special expressions included in SQL string literals. The metastrings, prefixed with a percent (%) symbol, are included directly in the string literals. They expand at run time into an appropriate substring for the current database platform.
multibook	In PeopleSoft Enterprise General Ledger, multiple ledgers having multiple-base currencies that are defined for a business unit, with the option to post a single transaction to all base currencies (all ledgers) or to only one of those base currencies (ledgers).
multicurrency	The ability to process transactions in a currency other than the business unit's base currency.
national allowance	In PeopleSoft Enterprise Promotions Management, a promotion at the corporate level that is funded by nondiscretionary dollars. In the industry, you may know this as a national promotion, a corporate promotion, or a corporate discount.
NDP	Abbreviation for <i>Non-Discountable Products</i> . Term used for products or groups of products where the selling price cannot be decreased.
need	In PeopleSoft Enterprise Campus Solutions, the difference between the cost of attendance (COA) and the expected family contribution (EFC). It is the gap between the cost of attending the school and the student's resources. The financial aid package is based on the amount of financial need. The process of determining a student's need is called <i>need analysis</i> .
node-oriented tree	A tree that is based on a detail structure, but the detail values are not used.
Optimization Engine	A PeopleTools component that Strategic Sourcing leverages to evaluate bids and determine an ideal award allocation. The award recommendation is based on maximizing the value while adhering to purchasing and company objectives and constraints.
pagelet	Each block of content on the home page is called a pagelet. These pagelets display summary information within a small rectangular area on the page. The pagelet provide users with a snapshot of their most relevant PeopleSoft Enterprise and non-PeopleSoft Enterprise content.
participant	In PeopleSoft Enterprise Incentive Management, participants are recipients of the incentive compensation calculation process.
participant object	Each participant object may be related to one or more compensation objects. See also <i>compensation object</i> .
partner	A company that supplies products or services that are resold or purchased by the enterprise.
pay cycle	In PeopleSoft Enterprise Payables, a set of rules that define the criteria by which it should select scheduled payments for payment creation.
payment shuffle	In PeopleSoft Enterprise Campus Solutions, a process allowing payments that have been previously posted to a student's account to be automatically reapplied when a higher priority payment is posted or the payment allocation definition is changed.
pending item	In PeopleSoft Enterprise Receivables, an individual receivable (such as an invoice, a credit memo, or a write-off) that has been entered in or created by the system, but hasn't been posted.

PeopleCode	PeopleCode is a proprietary language, executed by the PeopleSoft Enterprise component processor. PeopleCode generates results based on existing data or user actions. By using various tools provided with PeopleTools, external services are available to all PeopleSoft Enterprise applications wherever PeopleCode can be executed.
PeopleCode event	See <i>event</i> .
PeopleSoft Pure Internet Architecture	The fundamental architecture on which PeopleSoft 8 applications are constructed, consisting of a relational database management system (RDBMS), an application server, a web server, and a browser.
performance measurement	In PeopleSoft Enterprise Incentive Management, a variable used to store data (similar to an aggregator, but without a predefined formula) within the scope of an incentive plan. Performance measures are associated with a plan calendar, territory, and participant. Performance measurements are used for quota calculation and reporting.
period context	In PeopleSoft Enterprise Incentive Management, because a participant typically uses the same compensation plan for multiple periods, the period context associates a plan context with a specific calendar period and fiscal year. The period context references the associated plan context, thus forming a chain. Each plan context has a corresponding set of period contexts.
person of interest	A person about whom the organization maintains information but who is not part of the workforce.
personal portfolio	In PeopleSoft Enterprise Campus Solutions, the user-accessible menu item that contains an individual's name, address, telephone number, and other personal information.
phase	A level 1 task, meaning that if a task had subtasks, the level 1 task would be considered the phase.
pickup quantity	The product quantity that the customer is taking with them from the counter sales environment.
plan	In PeopleSoft Enterprise Sales Incentive Management, a collection of allocation rules, variables, steps, sections, and incentive rules that instruct the PeopleSoft Enterprise Incentive Management engine in how to process transactions.
plan context	In PeopleSoft Enterprise Incentive Management, correlates a participant with the compensation plan and node to which the participant is assigned, enabling the PeopleSoft Enterprise Incentive Management system to find anything that is associated with the node and that is required to perform compensation processing. Each participant, node, and plan combination represents a unique plan context—if three participants are on a compensation structure, each has a different plan context. Configuration plans are identified by plan contexts and are associated with the participants that refer to them.
plan template	In PeopleSoft Enterprise Incentive Management, the base from which a plan is created. A plan template contains common sections and variables that are inherited by all plans that are created from the template. A template may contain steps and sections that are not visible in the plan definition.
planned learning	In PeopleSoft Enterprise Learning Management, a self-service repository for all of a learner's planned learning activities and programs.
planning instance	In PeopleSoft Enterprise Supply Planning, a set of data (business units, items, supplies, and demands) constituting the inputs and outputs of a supply plan.
population	In PeopleSoft Enterprise Campus Solutions, the middle level of the three-level classification structure that you define in PeopleSoft Enterprise Recruiting and

	Admissions for enrollment management. You can define a population level, link it to other levels, and set enrollment target numbers for it. See also <i>division</i> and <i>cohort</i> .
portal registry	In PeopleSoft Enterprise applications, the portal registry is a tree-like structure in which content references are organized, classified, and registered. It is a central repository that defines both the structure and content of a portal through a hierarchical, tree-like structure of folders useful for organizing and securing content references.
predecessor task	A task that you must complete before you start another task.
price breaks	In PeopleSoft Strategic Sourcing, a price discount or surcharge that a bidder may apply based on the quantity awarded.
price components	In PeopleSoft Strategic Sourcing, the various components, such as material costs, labor costs, shipping costs, and so on that make up the overall bid price.
price list	Enables you to select products and conditions for which the price list applies to a transaction. During a transaction, the system either determines the product price based on the predefined search hierarchy for the transaction or uses the product's lowest price on any associated, active price lists. This price is used as the basis for any further discounts and surcharges.
price rule	The conditions that must be met for adjustments to be applied to the base price. Multiple rules can apply when conditions of each rule are met.
price rule conditions	Conditions that select the price-by fields, the values for the price-by fields, and the operator that determines how the price-by fields relate to the transaction.
price rule key	The fields that are available to define price rule conditions (which are used to match a transaction) on the price rule.
primacy number	In PeopleSoft Enterprise Campus Solutions, a number that the system uses to prioritize financial aid applications when students are enrolled in multiple academic careers and academic programs at the same time. The Consolidate Academic Statistics process uses the primacy number indicated for both the career and program at the institutional level to determine a student's primary career and program. The system also uses the number to determine the primary student attribute value that is used when you extract data to report on cohorts. The lowest number takes precedence.
primary name type	In PeopleSoft Enterprise Campus Solutions, the name type that is used to link the name stored at the highest level within the system to the lower-level set of names that an individual provides.
process category	In PeopleSoft Process Scheduler, processes that are grouped for server load balancing and prioritization.
process group	In PeopleSoft Enterprise Financials, a group of application processes (performed in a defined order) that users can initiate in real time, directly from a transaction entry page.
process definition	Process definitions define each run request.
process instance	A unique number that identifies each process request. This value is automatically incremented and assigned to each requested process when the process is submitted to run.
process job	You can link process definitions into a job request and process each request serially or in parallel. You can also initiate subsequent processes based on the return code from each prior request.

process request	A single run request, such as a Structured Query Report (SQR), a COBOL or Application Engine program, or a Crystal report that you run through PeopleSoft Process Scheduler.
process run control	A PeopleTools variable used to retain PeopleSoft Process Scheduler values needed at runtime for all requests that reference a run control ID. Do not confuse these with application run controls, which may be defined with the same run control ID, but only contain information specific to a given application process request.
product	A PeopleSoft Enterprise or third-party product. PeopleSoft organizes its software products into product families and product lines. Interactive Services Repository contains information about every release of every product that PeopleSoft sells, as well as products from certified third-party companies. These products appear with the product name and release number.
product adds	The pricing functionality where buying product A gets product B for free or at a price (formerly referred to as <i>giveaways</i>).
product bidding	In PeopleSoft Strategic Sourcing, the placing of a bid on behalf of the bidder, up or down to the bidder's specified amount, so that the bidder can be the leading bidder.
product category	In PeopleSoft Enterprise Incentive Management, indicates an application in the PeopleSoft Enterprise Incentive Management suite of products. Each transaction in the PeopleSoft Enterprise Incentive Management system is associated with a product category.
product family	A group of products that are related by common functionality. The family names that can be searched using Interactive Service Repository are Oracle's PeopleSoft Enterprise, PeopleSoft EnterpriseOne, PeopleSoft World, and third-party, certified partners.
product line	The name of a PeopleSoft Enterprise product line or the company name of a third-party certified partner. Integration Services Repository enables you to search for integration points by product line.
programs	In PeopleSoft Enterprise Learning Management, a high-level grouping that guides the learner along a specific learning path through sections of catalog items. PeopleSoft Enterprise Learning Systems provides two types of programs—curricula and certifications.
progress log	In PeopleSoft Enterprise Services Procurement, tracks deliverable-based projects. This is similar to the time sheet in function and process. The service provider contact uses the progress log to record and submit progress on deliverables. The progress can be logged by the activity that is performed, by the percentage of work that is completed, or by the completion of milestone activities that are defined for the project.
project transaction	In PeopleSoft Enterprise Project Costing, an individual transaction line that represents a cost, time, budget, or other transaction row.
promotion	In PeopleSoft Enterprise Promotions Management, a trade promotion, which is typically funded from trade dollars and used by consumer products manufacturers to increase sales volume.
prospects	In PeopleSoft Enterprise Campus Solutions, students who are interested in applying to the institution. In PeopleSoft Enterprise Contributor Relations, individuals and organizations that are most likely to make substantial financial commitments or other types of commitments to the institution.
proxy bidding	In PeopleSoft Strategic Sourcing, the placing of a bid on behalf of the bidder, up or down to the bidder's specified amount, so that the bidder can be the leading bidder.

publishing	In PeopleSoft Enterprise Incentive Management, a stage in processing that makes incentive-related results available to participants.
rating components	In PeopleSoft Enterprise Campus Solutions, variables used with the Equation Editor to retrieve specified populations.
record group	A set of logically and functionally related control tables and views. Record groups help enable TableSet sharing, which eliminates redundant data entry. Record groups ensure that TableSet sharing is applied consistently across all related tables and views.
record input VAT flag	Abbreviation for <i>record input value-added tax flag</i> . Within PeopleSoft Enterprise Purchasing, Payables, and General Ledger, this flag indicates that you are recording input VAT on the transaction. This flag, in conjunction with the record output VAT flag, is used to determine the accounting entries created for a transaction and to determine how a transaction is reported on the VAT return. For all cases within Purchasing and Payables where VAT information is tracked on a transaction, this flag is set to Yes. This flag is not used in PeopleSoft Enterprise Order Management, Billing, or Receivables, where it is assumed that you are always recording only output VAT, or in PeopleSoft Enterprise Expenses, where it is assumed that you are always recording only input VAT.
record output VAT flag	Abbreviation for <i>record output value-added tax flag</i> . See <i>record input VAT flag</i> .
recname	The name of a record that is used to determine the associated field to match a value or set of values.
recognition	In PeopleSoft Enterprise Campus Solutions, the recognition type indicates whether the PeopleSoft Enterprise Contributor Relations donor is the primary donor of a commitment or shares the credit for a donation. Primary donors receive hard credit that must total 100 percent. Donors that share the credit are given soft credit. Institutions can also define other share recognition-type values such as memo credit or vehicle credit.
reference data	In PeopleSoft Enterprise Sales Incentive Management, system objects that represent the sales organization, such as territories, participants, products, customers, and channels.
reference object	In PeopleSoft Enterprise Incentive Management, this dimension-type object further defines the business. Reference objects can have their own hierarchy (for example, product tree, customer tree, industry tree, and geography tree).
reference transaction	In commitment control, a reference transaction is a source transaction that is referenced by a higher-level (and usually later) source transaction, in order to automatically reverse all or part of the referenced transaction's budget-checked amount. This avoids duplicate postings during the sequential entry of the transaction at different commitment levels. For example, the amount of an encumbrance transaction (such as a purchase order) will, when checked and recorded against a budget, cause the system to concurrently reference and relieve all or part of the amount of a corresponding pre-encumbrance transaction, such as a purchase requisition.
regional sourcing	In PeopleSoft Enterprise Purchasing, provides the infrastructure to maintain, display, and select an appropriate vendor and vendor pricing structure that is based on a regional sourcing model where the multiple ship to locations are grouped. Sourcing may occur at a level higher than the ship to location.
relationship object	In PeopleSoft Enterprise Incentive Management, these objects further define a compensation structure to resolve transactions by establishing associations between compensation objects and business objects.
remote data source data	Data that is extracted from a separate database and migrated into the local database.

REN server	Abbreviation for <i>real-time event notification server</i> in PeopleSoft MultiChannel Framework.
requester	In PeopleSoft Enterprise eSettlements, an individual who requests goods or services and whose ID appears on the various procurement pages that reference purchase orders.
reservations	In PeopleSoft Expenses, travel reservations that have been placed with the travel vendor.
reversal indicator	In PeopleSoft Enterprise Campus Solutions, an indicator that denotes when a particular payment has been reversed, usually because of insufficient funds.
RFI event	In PeopleSoft Strategic Sourcing, a request for information.
RFx event	In PeopleSoft Strategic Sourcing, a request for proposal or request for a quote event when bidders submit their overall best bids and during which bidders do not actively compete against one another.
role	Describes how people fit into PeopleSoft Workflow. A role is a class of users who perform the same type of work, such as clerks or managers. Your business rules typically specify what user role needs to do an activity.
role user	A PeopleSoft Workflow user. A person's role user ID serves much the same purpose as a user ID does in other parts of the system. PeopleSoft Workflow uses role user IDs to determine how to route worklist items to users (through an email address, for example) and to track the roles that users play in the workflow. Role users do not need PeopleSoft user IDs.
roll up	In a tree, to roll up is to total sums based on the information hierarchy.
run control	A run control is a type of online page that is used to begin a process, such as the batch processing of a payroll run. Run control pages generally start a program that manipulates data.
run control ID	A unique ID to associate each user with his or her own run control table entries.
run-level context	In PeopleSoft Enterprise Incentive Management, associates a particular run (and batch ID) with a period context and plan context. Every plan context that participates in a run has a separate run-level context. Because a run cannot span periods, only one run-level context is associated with each plan context.
saved bid	In PeopleSoft Strategic Sourcing, a bid that has been created but not submitted. Only submitted bids are eligible for award.
score	In PeopleSoft Strategic Sourcing, the numerical sum of answers (percentages) to bid factors on an event. Scores appear only to bidders on auction events.
SCP SCBM XML message	Abbreviation for <i>Supply Chain Planning Supply Chain Business Modeler Extensible Markup Language message</i> . Supply Chain Business Modeler uses XML as the format for all data that it imports and exports.
search query	You use this set of objects to pass a query string and operators to the search engine. The search index returns a set of matching results with keys to the source documents.
search/match	In PeopleSoft Enterprise Campus Solutions and PeopleSoft Enterprise Human Resources Management Solutions, a feature that enables you to search for and identify duplicate records in the database.
seasonal address	In PeopleSoft Enterprise Campus Solutions, an address that recurs for the same length of time at the same time of year each year until adjusted or deleted.

section	In PeopleSoft Enterprise Incentive Management, a collection of incentive rules that operate on transactions of a specific type. Sections enable plans to be segmented to process logical events in different sections.
security event	In commitment control, security events trigger security authorization checking, such as budget entries, transfers, and adjustments; exception overrides and notifications; and inquiries.
sell event	In PeopleSoft Strategic Sourcing, for event creators, the sale of goods or services most typically associated with forward auctions. For bidders, the purchase of goods or services.
serial genealogy	In PeopleSoft Enterprise Manufacturing, the ability to track the composition of a specific, serial-controlled item.
serial in production	In PeopleSoft Enterprise Manufacturing, enables the tracing of serial information for manufactured items. This is maintained in the Item Master record.
service impact	In PeopleSoft Enterprise Campus Solutions, the resulting action triggered by a service indicator. For example, a service indicator that reflects nonpayment of account balances by a student might result in a service impact that prohibits registration for classes.
service indicator	In PeopleSoft Enterprise Campus Solutions, indicates services that may be either withheld or provided to an individual. Negative service indicators indicate holds that prevent the individual from receiving specified services, such as check-cashing privileges or registration for classes. Positive service indicators designate special services that are provided to the individual, such as front-of-line service or special services for disabled students.
session	In PeopleSoft Enterprise Campus Solutions, time elements that subdivide a term into multiple time periods during which classes are offered. In PeopleSoft Enterprise Contributor Relations, a session is the means of validating gift, pledge, membership, or adjustment data entry . It controls access to the data entered by a specific user ID. Sessions are balanced, queued, and then posted to the institution's financial system. Sessions must be posted to enter a matching gift or pledge payment, to make an adjustment, or to process giving clubs or acknowledgements. In PeopleSoft Enterprise Learning Management, a single meeting day of an activity (that is, the period of time between start and finish times within a day). The session stores the specific date, location, meeting time, and instructor. Sessions are used for scheduled training.
session template	In PeopleSoft Enterprise Learning Management, enables you to set up common activity characteristics that may be reused while scheduling a PeopleSoft Enterprise Learning Management activity—characteristics such as days of the week, start and end times, facility and room assignments, instructors, and equipment. A session pattern template can be attached to an activity that is being scheduled. Attaching a template to an activity causes all of the default template information to populate the activity session pattern.
setup relationship	In PeopleSoft Enterprise Incentive Management, a relationship object type that associates a configuration plan with any structure node.
share driver expression	In PeopleSoft Enterprise Business Planning, a named planning method similar to a driver expression, but which you can set up globally for shared use within a single planning application or to be shared between multiple planning applications through PeopleSoft Enterprise Warehouse.
short-term customer	A customer not in the system who is entered during sales order entry using a template.

single signon	With single signon, users can, after being authenticated by a PeopleSoft Enterprise application server, access a second PeopleSoft Enterprise application server without entering a user ID or password.
source key process	In PeopleSoft Enterprise Campus Solutions, a process that relates a particular transaction to the source of the charge or financial aid. On selected pages, you can drill down into particular charges.
source transaction	In commitment control, any transaction generated in a PeopleSoft Enterprise or third-party application that is integrated with commitment control and which can be checked against commitment control budgets. For example, a pre-encumbrance, encumbrance, expenditure, recognized revenue, or collected revenue transaction.
sourcing objective	For constraints, the option to designate whether a business rule is required (mandatory) or is only recommended (target).
speed key	See <i>communication key</i> .
SpeedChart	A user-defined shorthand key that designates several ChartKeys to be used for voucher entry. Percentages can optionally be related to each ChartKey in a SpeedChart definition.
SpeedType	A code representing a combination of ChartField values. SpeedTypes simplify the entry of ChartFields commonly used together.
staging	A method of consolidating selected partner offerings with the offerings from the enterprise's other partners.
standard letter code	In PeopleSoft Enterprise Campus Solutions, a standard letter code used to identify each letter template available for use in mail merge functions. Every letter generated in the system must have a standard letter code identification.
statutory account	Account required by a regulatory authority for recording and reporting financial results. In PeopleSoft Enterprise, this is equivalent to the Alternate Account (ALTACCT) ChartField.
step	In PeopleSoft Enterprise Sales Incentive Management, a collection of sections in a plan. Each step corresponds to a step in the job run.
storage level	In PeopleSoft Enterprise Inventory, identifies the level of a material storage location. Material storage locations are made up of a business unit, a storage area, and a storage level. You can set up to four storage levels.
subcustomer qualifier	A value that groups customers into a division for which you can generate detailed history, aging, events, and profiles.
Summary ChartField	You use summary ChartFields to create summary ledgers that roll up detail amounts based on specific detail values or on selected tree nodes. When detail values are summarized using tree nodes, summary ChartFields must be used in the summary ledger data record to accommodate the maximum length of a node name (20 characters).
summary ledger	An accounting feature used primarily in allocations, inquiries, and PS/nVision reporting to store combined account balances from detail ledgers. Summary ledgers increase speed and efficiency of reporting by eliminating the need to summarize detail ledger balances each time a report is requested. Instead, detail balances are summarized in a background process according to user-specified criteria and stored on summary ledgers. The summary ledgers are then accessed directly for reporting.
summary time period	In PeopleSoft Enterprise Business Planning, any time period (other than a base time period) that is an aggregate of other time periods, including other summary time periods and base time periods, such as quarter and year total.

summary tree	A tree used to roll up accounts for each type of report in summary ledgers. Summary trees enable you to define trees on trees. In a summary tree, the detail values are really nodes on a detail tree or another summary tree (known as the <i>basis</i> tree). A summary tree structure specifies the details on which the summary trees are to be built.
syndicate	To distribute a production version of the enterprise catalog to partners.
system function	In PeopleSoft Enterprise Receivables, an activity that defines how the system generates accounting entries for the general ledger.
system source	The system source identifies the source of a transaction row in the database. For example, a transaction that originates in PeopleSoft Enterprise Expenses contains a system source code of BEX (Expenses Batch). When PeopleSoft Enterprise Project Costing prices the source transaction row for billing, the system creates a new row with a system source code of PRP (Project Costing pricing), which represents the system source of the new row. System source codes can identify sources that are internal or external to the PeopleSoft Enterprise system. For example, processes that import data from Microsoft Project into PeopleSoft Enterprise applications create transaction rows with a source code of MSP (Microsoft Project).
TableSet	A means of sharing similar sets of values in control tables, where the actual data values are different but the structure of the tables is the same.
TableSet sharing	Shared data that is stored in many tables that are based on the same TableSets. Tables that use TableSet sharing contain the SETID field as an additional key or unique identifier.
target currency	The value of the entry currency or currencies converted to a single currency for budget viewing and inquiry purposes.
task	A deliverable item on the detailed sourcing plan.
tax authority	In PeopleSoft Enterprise Campus Solutions, a user-defined element that combines a description and percentage of a tax with an account type, an item type, and a service impact.
template	A template is HTML code associated with a web page. It defines the layout of the page and also where to get HTML for each part of the page. In PeopleSoft Enterprise, you use templates to build a page by combining HTML from a number of sources. For a PeopleSoft Enterprise portal, all templates must be registered in the portal registry, and each content reference must be assigned a template.
tenant	In PeopleSoft Real Estate Management, an entity that leases real estate from a landlord.
territory	In PeopleSoft Enterprise Sales Incentive Management, hierarchical relationships of business objects, including regions, products, customers, industries, and participants.
third party	A company or vendor that has extensive PeopleSoft Enterprise product knowledge and whose products and integrations have been certified and are compatible with PeopleSoft Enterprise applications.
tiered pricing	Enables different portions of a schedule to be priced differently from one another.
time span	A relative period, such as year-to-date or current period, that various PeopleSoft General Ledger functions and reports can use when a rolling time frame, rather than a specific date, is required.
total cost	In PeopleSoft Strategic Sourcing, the estimated dollar cost (sum of real price dollars and potential “soft” or non-price dollars) of a particular award approach.

travel group	In PeopleSoft Expenses, the organization's travel rules and policies that are associated with specific business units, departments, or employees. You must define at least one travel group when setting up the PeopleSoft Expenses travel feature. You must define and associate at least one travel group with a travel vendor.
travel partner	In PeopleSoft Expenses, the travel vendor with which the organization has a contractual relationship.
3C engine	Abbreviation for <i>Communications, Checklists, and Comments engine</i> . In PeopleSoft Enterprise Campus Solutions, the 3C engine enables you to automate business processes that involve additions, deletions, and updates to communications, checklists, and comments. You define events and triggers to engage the engine, which runs the mass change and processes the 3C records (for individuals or organizations) immediately and automatically from within business processes.
3C group	Abbreviation for <i>Communications, Checklists, and Comments group</i> . In PeopleSoft Enterprise Campus Solutions, a method of assigning or restricting access privileges. A 3C group enables you to group specific communication categories, checklist codes, and comment categories. You can then assign the group inquiry-only access or update access, as appropriate.
trace usage	In PeopleSoft Enterprise Manufacturing, enables the control of which components will be traced during the manufacturing process. Serial- and lot-controlled components can be traced. This is maintained in the Item Master record.
transaction allocation	In PeopleSoft Enterprise Incentive Management, the process of identifying the owner of a transaction. When a raw transaction from a batch is allocated to a plan context, the transaction is duplicated in the PeopleSoft Enterprise Incentive Management transaction tables.
transaction state	In PeopleSoft Enterprise Incentive Management, a value assigned by an incentive rule to a transaction. Transaction states enable sections to process only transactions that are at a specific stage in system processing. After being successfully processed, transactions may be promoted to the next transaction state and "picked up" by a different section for further processing.
Translate table	A system edit table that stores codes and translate values for the miscellaneous fields in the database that do not warrant individual edit tables of their own.
tree	The graphical hierarchy in PeopleSoft Enterprise systems that displays the relationship between all accounting units (for example, corporate divisions, projects, reporting groups, account numbers) and determines roll-up hierarchies.
tuition lock	In PeopleSoft Enterprise Campus Solutions, a feature in the Tuition Calculation process that enables you to specify a point in a term after which students are charged a minimum (or <i>locked</i>) fee amount. Students are charged the locked fee amount even if they later drop classes and take less than the normal load level for that tuition charge.
unclaimed transaction	In PeopleSoft Enterprise Incentive Management, a transaction that is not claimed by a node or participant after the allocation process has completed, usually due to missing or incomplete data. Unclaimed transactions may be manually assigned to the appropriate node or participant by a compensation administrator.
universal navigation header	Every PeopleSoft Enterprise portal includes the universal navigation header, intended to appear at the top of every page as long as the user is signed on to the portal. In addition to providing access to the standard navigation buttons (like Home, Favorites, and signoff) the universal navigation header can also display a welcome message for each user.
update access	In PeopleSoft Enterprise Campus Solutions, a type of security access that permits the user to edit and update data.

See also *inquiry access*.

user interaction object	In PeopleSoft Enterprise Sales Incentive Management, used to define the reporting components and reports that a participant can access in his or her context. All PeopleSoft Enterprise Sales Incentive Management user interface objects and reports are registered as user interaction objects. User interaction objects can be linked to a compensation structure node through a compensation relationship object (individually or as groups).
variable	In PeopleSoft Enterprise Sales Incentive Management, the intermediate results of calculations. Variables hold the calculation results and are then inputs to other calculations. Variables can be plan variables that persist beyond the run of an engine or local variables that exist only during the processing of a section.
VAT exception	Abbreviation for <i>value-added tax exception</i> . A temporary or permanent exemption from paying VAT that is granted to an organization. This term refers to both VAT exoneration and VAT suspension.
VAT exempt	Abbreviation for <i>value-added tax exempt</i> . Describes goods and services that are not subject to VAT. Organizations that supply exempt goods or services are unable to recover the related input VAT. This is also referred to as exempt without recovery.
VAT exoneration	Abbreviation for <i>value-added tax exoneration</i> . An organization that has been granted a permanent exemption from paying VAT due to the nature of that organization.
VAT suspension	Abbreviation for <i>value-added tax suspension</i> . An organization that has been granted a temporary exemption from paying VAT.
warehouse	A PeopleSoft Enterprise data warehouse that consists of predefined ETL maps, data warehouse tools, and DataMart definitions.
weight or weighting	In PeopleSoft Strategic Sourcing, how important the line or question is to the overall event. Weighting is used to score and analyze bids. For RFx and RFI events, weightings may or may not appear to bidders.
work order	In PeopleSoft Enterprise Services Procurement, enables an enterprise to create resource-based and deliverable-based transactions that specify the basic terms and conditions for hiring a specific service provider. When a service provider is hired, the service provider logs time or progress against the work order.
worker	A person who is part of the workforce; an employee or a contingent worker.
workset	A group of people and organizations that are linked together as a set. You can use worksets to simultaneously retrieve the data for a group of people and organizations and work with the information on a single page.
worksheet	A way of presenting data through a PeopleSoft Enterprise Business Analysis Modeler interface that enables users to do in-depth analysis using pivoting tables, charts, notes, and history information.
worklist	The automated to-do list that PeopleSoft Workflow creates. From the worklist, you can directly access the pages you need to perform the next action, and then return to the worklist for another item.
XML link	The XML Linking language enables you to insert elements into XML documents to create a links between resources.
XML schema	An XML definition that standardizes the representation of application messages, component interfaces, or business interlinks.
XPI	Abbreviation for <i>eXtended Process Integrator</i> . PeopleSoft XPI is the integration infrastructure that enables both real-time and batch communication with JD Edwards EnterpriseOne applications.

yield by operation

In PeopleSoft Enterprise Manufacturing, the ability to plan the loss of a manufactured item on an operation-by-operation basis.

zero-rated VAT

Abbreviation for *zero-rated value-added tax*. A VAT transaction with a VAT code that has a tax percent of zero. Used to track taxable VAT activity where no actual VAT amount is charged. Organizations that supply zero-rated goods and services can still recover the related input VAT. This is also referred to as exempt with recovery.

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