

Tree

Trees are used for two major purposes in the Agile User Interface.

- In the Left Pane, trees are used to organize links to pages into easily navigable categories including Searches, My Bookmarks, Recently Visited, and Reports and Analytics.

These trees, plus the Navigator tree are fully documented in the [Left Pane UI Specification](#).

- In the Palette, trees are used to browse through hierarchically structured data sets to find values that can be assigned to form fields or table cells.

These trees are discussed in great detail in the [Palette UI Specification](#) and the specifications for the specific UI controls that use palettes with tree presentations.

This is a generic specification that serves to document the considerable commonalities between these two types of trees. Thus it is important to recognize what is covered in this specification and what is not.

Covered Here

Keyboard Navigation

Disclosure Icons

Folder and Leaf Node Icons

Basic Tree Layout

How to Select Nodes

Covered (in Detail) in Other Specifications

What it Means to Select Nodes

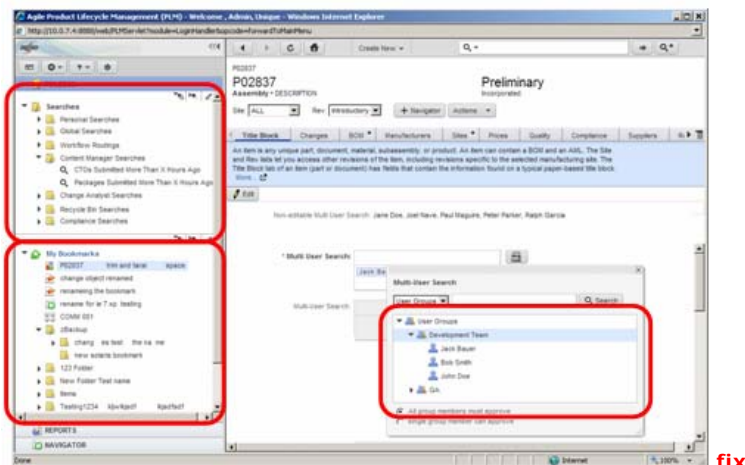
How Nodes are Processed After Selection

Other Controls Near the Tree Including:

- Expand All, Collapse All, and Organize Buttons
- Palette Controls and Framework

Node [Naming and Tooltips](#) UI Specification

Element Specification

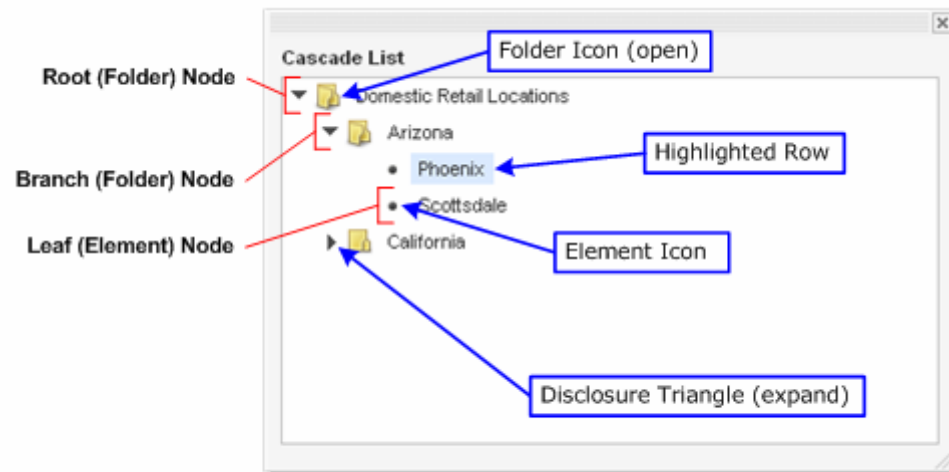


Anatomy

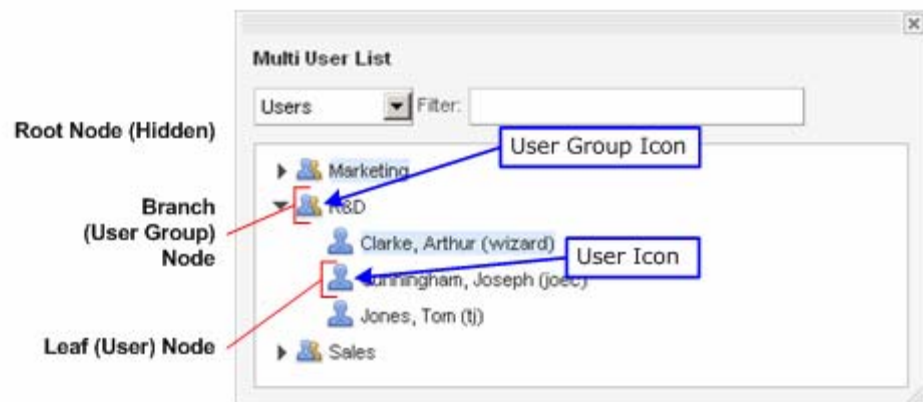
Example: Tree Node (Left Pane Navigation)



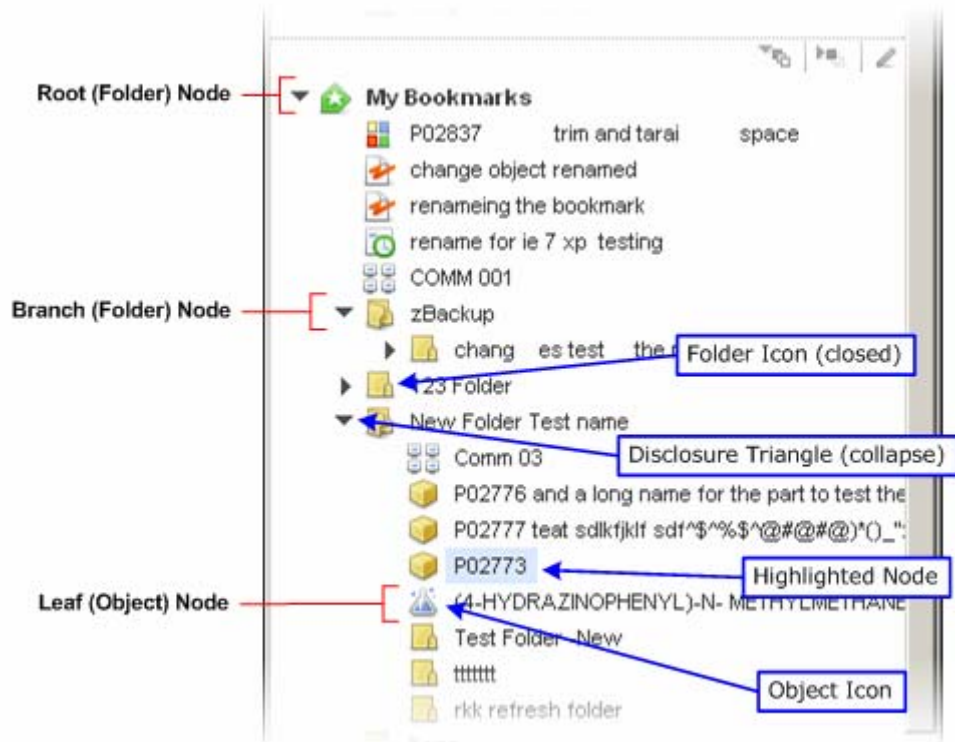
Example: Tree Palette (Data Selection)



Example: User Group Palette (Data Selection)



Example: Left Pane (Navigation)



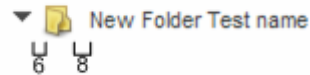
Behavior

- Until the user explicitly changes it, the highlight will be on the Root Node of the Tree.
- The Root Node is in the tab order and therefore navigable by Tab and Shift-Tab.
- All other nodes are not in the tab order and are only navigable by the arrow keys.

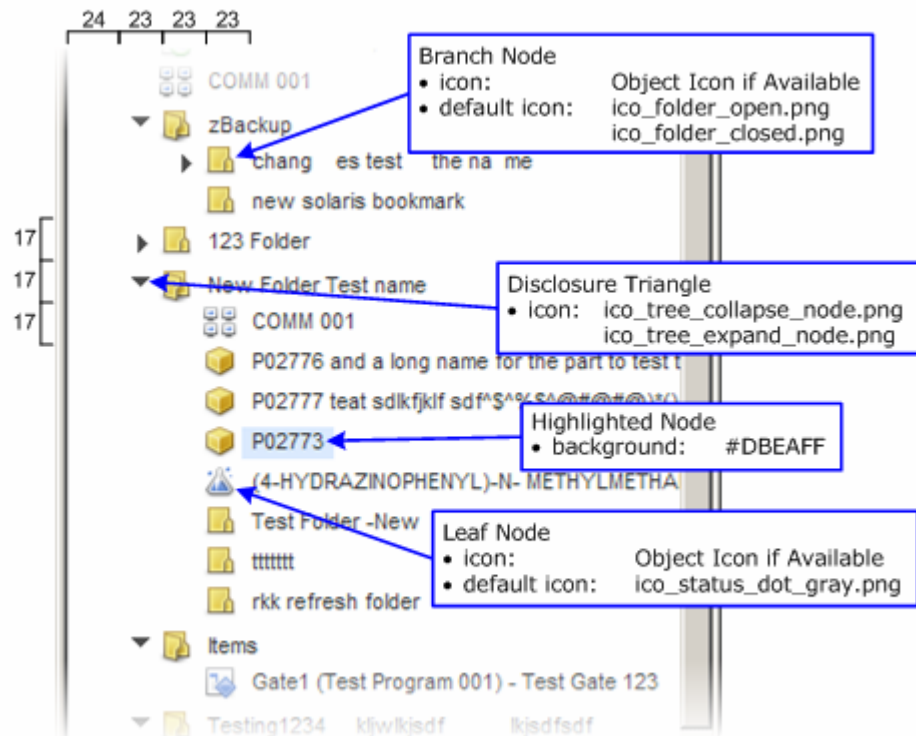
The Node Name and the Tooltip are defined as specified in the [Naming and Tooltips](#) UI Specification.

Layout, Appearance and Styling

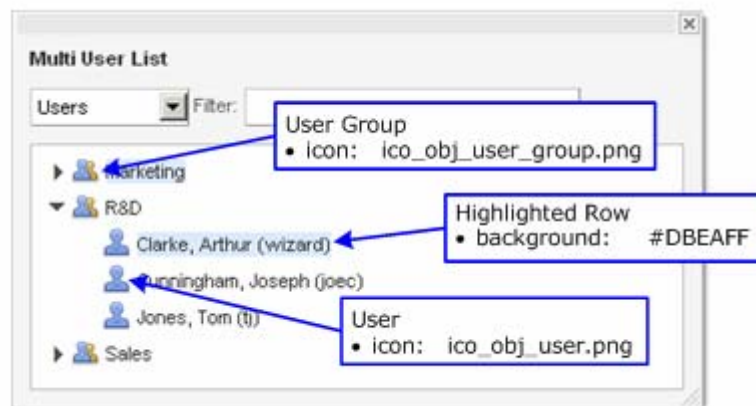
Tree Node



Left Pane Tree



Palette Tree



Tree Node Anatomy Revisited



Disclosure Triangle

Behavior

Mouse Buttons

- Click
 - Expand the folder node if collapsed.
 - Collapse the folder node if expanded.

The collapsed and expanded state of sub-folders is retained when a folder is collapsed and restored when it is expanded.

Layout, Appearance and Styling

- Progress Indicator
 - When a folder is expanded for the first time, the backend server may require some time to populate the list folders and/or items in the folder.
 - During this time, an animated progress indicator will be displayed in the place of the Disclosure Triangle.
- No Triangle
 - If the folder is empty, no Disclosure Triangle will be displayed.

All Nodes

Behavior

- Until the user explicitly changes it, the highlight will be on the first visible node in the tree. This is either the Root Node or the first Branch Node if the Root Node is hidden.
- The Left Pane only allows one highlighted node at a time.
- Some Palettes allow multiple nodes to be highlighted.

Keyboard Controls and Shortcuts

- | | |
|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> • Up-Arrow | Shift the focus to the node above the current focus. Highlight the node and clear the highlight on all other nodes. |
| <ul style="list-style-type: none"> • Down-Arrow | Shift the focus to the node below the current focus. Highlight the node and clear the highlight on all other nodes. |
| <ul style="list-style-type: none"> • Enter | Select and process all highlighted nodes. |

See [Left Pane](#) or [Palette](#) UI Specification for more information.

Mouse Buttons

- Click (all forms)

See [Left Pane](#) or [Palette](#) UI Specification.

Palette

In the Palette, the user may click anywhere in the row.

A click will set (or extend or toggle) the highlight on a Node but will not act upon it.

Note that clicking on the Disclosure Triangle will trigger additional behaviors beyond manipulating the highlight.

Specific details can be found in the [Palette](#) UI Specification.

Left Pane

In The Left Pane, the user must click on the Node Name (or the Node Icon of an object node).

A click will select and act on the node by following the link and bringing up the requested page.

Specific details can be found in the [Left Pane](#) UI Specification.

Mouse Over

- Cursor



Pointer

in the Left Pane



Arrow

in the Palette

- Tooltip

Display the Tooltip as defined in the [Naming and Tooltips](#) UI Specification.

Folder Nodes Only

Behavior

Keyboard Controls and Shortcuts

- Left-Arrow
- Right-Arrow

Collapse the folder node if expanded.

Expand the folder node if collapsed.

The collapsed and expanded state of sub-folders is retained when a folder is collapsed and restored when it is expanded.

Issues

No known issues.

Change History

November 20, 2007	Vern McGeorge	Revised to comply with image file naming convention.
November 8, 2007	Vern McGeorge	Complete
October 4, 2007	Vern McGeorge	Published for final review.
September 21, 2007	Vern McGeorge	Revised with all rev B comments addressed and, most importantly, proper expectations set re what's in and not in this spec.
August 10, 2007	Vern McGeorge	Oops! Added all the Mouse Over behaviors I left out of tree_A_review.pdf
August 10, 2007	Vern McGeorge	Fixed screenshots (primarily of the left pane navigation application of trees) and published for review.
August 8, 2007	Vern McGeorge	Extracted from Palette specification.