Perforce 2011.1 Getting Started with P4V

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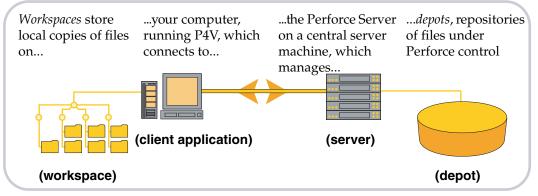
Getting Started with P4V

P4V, the Perforce Visual client, is Perforce's cross-platform graphical user interface. You can use P4V on Windows, Macintosh, UNIX and Linux computers and benefit from an identical interface regardless of platform. This introductory guide provides some Perforce basics and an orientation to P4V's layout and features. For more details about P4V, consult its online help. To learn more about Perforce, consult the user documentation on our Web site.

To use Perforce to manage files, you typically connect to a Perforce server using a client program like P4V. P4V enables you to check files in and out, and perform the various other necessary tasks. The following sections tell you how to perform basic tasks and point out powerful features and shortcuts.

Basic Concepts

P4V connects your computer to a Perforce *server* to move files between Perforce *depots* and your *workspace*, as shown below.



The definitions for these Perforce terms are as follows:

- Workspace: folders or directories on the client computer where you work on revisions of files that are managed by Perforce.
- Client application: P4V (or another Perforce client application), running on your computer, sending commands to the Perforce server and receiving results (files, status information, and so on).

- Server: the program that executes the commands sent by client programs, maintains depot files, and tracks the state of workspaces. The Perforce Server typically runs on a central machine, connected to client machines by the network.
- Depot: a file repository on the Perforce server. It contains all existing versions of all files ever submitted to the server. There can be multiple depots on a single server. The examples in this guide show a single depot.

Connecting to a Server

To gain access to your depots, you must connect to a server. The first time you launch P4V, the Connection Setup Wizard (Macintosh: Connection Setup Assistant) guides you through the process of configuring a connection, during which you specify the server, user, and workspace. To launch the wizard/assistant in subsequent sessions, choose **Connection > Set Up Connection...**

Alternately, you can configure connection settings on a single dialog, as follows:

1. Launch P4V. P4V displays the following connection dialog:

000	Open Connection	
Type in connec	tion settings or choose a recent or favorite con	nection: Connections 🔻
Server:	play:4445	Browse
User:	bruno	Browse New
Workspace:	bruno_jam_main	Browse New
Show dialog	at startup Help	Cancel OK
Version: Perf	orce Visual Client/MACOSX105U/2011.1.MAIN/	323440

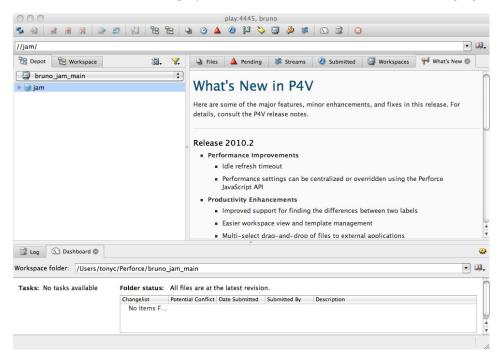
- 2. Specify the following settings (your Perforce administrator can provide you with this information)
 - Server: the name of the computer where your Perforce server is running.
 - Port: the port number assigned to the server
 - User: your Perforce user name
 - Password: your Perforce user password, if required.
 - Workspace: the name of your client workspace.

To display a list of existing users and workspaces, click **Browse**. (The server and port must be specified before clicking **Browse**.)

If you have incorrectly specified a server setting, P4V displays a message like the following:

```
Connect to server failed; check $P4PORT.
TCP connect to bigserver failed.
bigserver: host unknown.
```

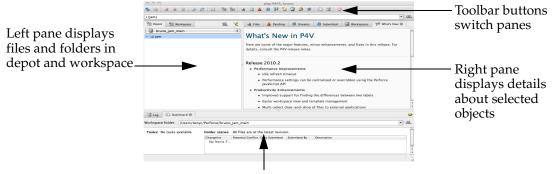
3. To connect, click OK. P4V displays its main screen, as shown in the following figure.



The next section describes the main screen panes.

Navigating the Main Screen

The following figure points out the panes and important features of the main screen. To see what a button or screen element does, hold the mouse cursor over it. P4V displays a descriptive tooltip.



Log pane lists server commands; Dashboard shows status and task shortcuts

Setting up your workspace

Your Perforce administrator can do this for you, but it's advisable to learn a few important aspects of configuring your workspace, specifically (1) configuring the client root directory and (2) configuring the client view.

To define a workspace, choose **Connection > New Workspace...** and, when prompted, enter a name for the workspace. To edit your current workspace specification, choose **Connection > Edit Current Workspace...**

P4V displays the specification details in the lower portion of the right pane; for example:

Workspace name:	bruno_jam_main			
Workspace root:	/Users/tonyc/Perforce/brun	o_jam_main	Br	owse
Stream:	main (//jam/main)		Ø Br	owse
To edit these map	pings, you must edit the stre		# 2 Y	200
Depot free		Client Expression		
 lepot gwt 		Client Expression		
 depot gwt gwt-dynata 	ble	Client Expression		
 depot gwt 	ble	Client Expression		
 depot gwt gwt-dynata HR jam pb 	ble	Client Expression		
 depot gwt gwt-dynata HR jam 	ble	Client Expression		
 depot gwt gwt-dynata HR gam pb Perforce 	ble	Client Expression		
 depot gwt gwt-dynata HR gam pb Perforce 	ble	Client Expression		

Root: specifies the location on your computer under which Perforce stores copies of depot files. Specify a meaningful name, and make sure it's **not** set to your computer's root directory!

Workspace Mappings:

enables you to restrict the depot files to which you have access. Set the view to ensure that you see only what you need to see. To display and set the client view graphically, click the **Basic** tab. Browse to desired files and folders and context-click to include them or exclude them from the workspace mappings, as shown in the following figure.

0	🔄 Workspace	bruno_ws (play:4445, bruno)	
	Ba	asic Advanced	
Workspace nam	e: bruno_ws		
Workspace roo	ot: c:\p4demoroot\worksp	aces\bruno_ws	Browse
Stream	m:		Browse
▼ Workspace	Mappings:		
0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000			a a 🍸 😢 🗉
Depot Tree		Client Expression	
► 🖉 depot		//bruno_ws/	
🕨 📒 gwt	Exclude Tree		
▶ 😹 gwt-d ▶ 😹 HR	Remove		
▶ 😹 jam ▶ 🗟 pb	Include Files		
▶ 🗿 Perfor	Exclude Files		
🕨 🧐 syster	Include Special Exclude Special		
-	Refresh 'depot'		
Help Apply	\sim		Cancel OK

Managing your Files

To manage files using Perforce, you typically perform the following sequence of tasks:

- 1. Get files from the depot.
- 2. Check out files you need to edit.
- 3. Edit files.
- 4. Check in your changes.

The following sections provide details about these and other common file management tasks.

Getting files from the depot

To copy files from the depot to your workspace:

- 1. In the left pane, click the **Depot** tab.
- 2. Browse to the folder or file you want to retrieve.
- 3. Context-click the file or folder. To get the most recent version, choose **Get Latest Revision**. To get an older version, choose **Get Revision...** and specify the version you want.

In the Log pane, P4V displays a message like the following.

```
p4 sync //depot/Misc/manuals/...#head
    //depot/Misc/manuals/recommended_configuration.doc added c:\p4cli
ents\bruno-1492\Misc\manuals\recommended_configuration.doc
    //depot/Misc/manuals/triggers.doc added c:\p4clients\bruno-
1492\Misc\manuals\triggers.doc
    //depot/Misc/manuals/vendor_branches.doc added c:\p4clients\bruno
-1492\Misc\manuals\vendor_branches.doc
    Sync copied 3 files to workspace (including 3 that were added)
    Sync removed no files from workspace
Sync completed with no warnings or errors.
```

In the left pane, note that the files display green dots, indicating that they are present in your workspace: Before you can edit the file, however, you must check it out.

Checking out files from the depot

To check out a file in your workspace:

- 1. Browse to the desired file in the left pane Depot tab.
- 2. Context-click the file and choose Check Out.

In the Log pane, P4V displays a message like the following:

In the left pane, note that the file displays a red check mark, indicating that you checked it out:

Note that, when you check out a file, Perforce adds it to a *changelist*, which is a list of related files. You can use changelists to group related files, for example, all files that contain changes required to implement a new product feature. To view the changelist, choose **View > Pending Changelists** or click in the toolbar.

Now you're ready to edit your files.

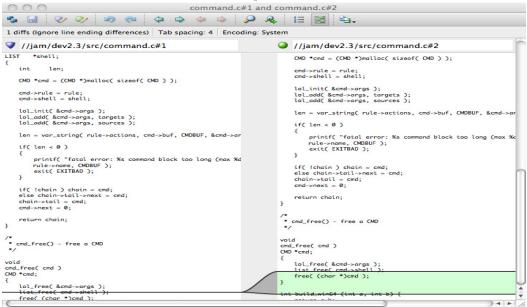
Editing files in your workspace

To edit a checked-out file, double-click it (or context-click it and choose **Open With**, then select the desired application). P4V launches the corresponding editing application. Make changes and save the file.

To select an application with which to open a file, choose **File>Open With>Choose Application.** Note that you can configure editors on the **Preferences** dialog **Editors** tab.

Diffing files to view your edits

To enable you to see what changes you've made, you can compare (*diff*) your edited file with the version you checked out. To diff, context-click the checked-out file in the left pane and choose Diff **Against Have Revision**. P4V launches the diff tool, displaying the differences between the two files. For example:



Discarding edits by reverting

If you decide you want to discard your changes:

- 1. Context-click the file in the left pane and choose **Revert**. P4V displays a warning dialog.
- 2. Click OK. In the Log pane, P4V displays a message like the following:

```
p4 revert //depot/Misc/manuals/recommended_configuration.doc revert complete. 1 file affected.
```

Checking your edits into the depot

To check your changed file into the depot, perform the following steps.

1. Display pending changelists: click (in the toolbar. P4V displays a list of pending changelists, as shown in the following figure. To display the files in a changelist, expand it

hange 🔺	User	Description		_
▲ default ▲ 12028	bruno bruno	<enter description="" here=""> Fix bug 1233</enter>		
Change:		User:		
Change: Date:				

2. Double-click the changelist in which your file is open. P4V displays the details, as shown in the following figure.

Fix bug 1233						
Choose files to	Name 🔺	In Folder	Resolve Status	Kind	Pending A	
\checkmark	Build.com	//jam/dev2		Document	edit	
	Build.m	//jam/dev2		Document	edit	
	1 comma	//jam/dev2		C Source File	edit	
2 2 3	commacomma	//jam/dev2 //jam/dev2		C Source File C Header So	edit	
333	 comma comma comma compile.c 	//jam/dev2 //jam/dev2 //jam/dev2		C Header So C Source File	edit edit edit	
AAAA	 comma comma compile.c compile.h 	//jam/dev2 //jam/dev2		C Header So C Source File C Header So	edit edit edit edit	
RERE	 comma comma compile.c compile.h execcm 	//jam/dev2 //jam/dev2 //jam/dev2 //jam/dev2 //jam/dev2		C Header So C Source File	edit edit edit edit	
REFERE	 comma comma compile.c compile.h execcm execcma 	//jam/dev2 //jam/dev2 //jam/dev2 //jam/dev2 //jam/dev2		C Header So C Source File C Header So	edit edit edit edit	
acadaa	 comma comma compile.c compile.h execcm execcma 	//jam/dev2 //jam/dev2 //jam/dev2 //jam/dev2 //jam/dev2		C Header So C Source File C Header So C Header So	edit edit edit edit edit	
GRAGRACI	 comma comma compile.c compile.h execcm execcm execuni 	//jam/dev2 //jam/dev2 //jam/dev2 //jam/dev2 //jam/dev2		C Header So C Source File C Header So C Header So C Source File	edit edit edit edit edit edit edit	
<u>থার(রারারারার</u> রেরেরের জন্য	 comma comma compile.c compile.h execcm execcm execuni execuni 	//jam/dev2 //jam/dev2 //jam/dev2 //jam/dev2 //jam/dev2 //jam/dev2		C Header So C Source File C Header So C Header So C Source File C Source File	edit edit edit edit edit edit edit edit	

3. Enter a description explaining the changes you made and click **Submit**. The Log pane displays a message confirming that your changelist was submitted, similar to the following.

```
Change 813 submitted.
submit complete. 1 file affected.
```

Displaying a file's revision history

To view the changes made to a file or folder, context-click the file or folder and choose **File History** or **Folder History**. The history for the selected file or folder is displayed in the right pane. For example, the following figure shows the history of a folder, listing every submitted changelist that affected a file in the folder.

G File H	listory				[. ,	1
Revision	Changelist	ite Submitti ubmitted	B Filetype	Description			
ia 🐴 - II	(depot/Jam/M	AIN/src/compile.c					
- 🖸	619	11/12/20 earl	text	Fix jam's handling of empty {} blocks so that it can recognise			
🖻	602	10/30/20 earl	text	OS/2 client port of mainline.			
🖻	596	10/24/20 earl	text	Jam's local variables can now be initialized.			
📄	550	9/5/2001 earl	text	Fix up compiler warnings from -Wall in jam.			
📄	549	9/5/2001 earl	text	Finally, fix the jam include bug, using the parser scheme that			
🖻	340	6/5/2000 earl	text	Concurrent process support for NT.			
🔁	331	5/23/200 earl	text	Move jam debug levels around.			
- 📄	313	5/13/200 earl	text	First half of support for binding variables in actions: the			
- 🖻	284	4/19/200 earl	text	Support for multiple :'s on jam rule invocation and access to the			
- 📄	277	4/2/2000 earl	text	Support for 'local' declarations in jam.			
- 🗋	272	3/19/200 earl	text	Jam support for "if \$(A) in \$(B)".			
- 🗋	265	3/8/2000 earl	text	Jam porting fixes for sun4.			
- 🗋	262	3/5/2000 earl	text	Compare all elements in jam 'if' statement.			
- 🗋	248	2/1/2000 earl	text	Support for turning on a single debug level with -d in jam.			
- 🧟	185	9/29/199 earl	text	Fixed wild little Jam bug that trashed variable settings if			
- 🕑	137	5/2/1999 earl	text	Get all function declarations.			
📄	9120	3/9/1999 earl	text	Leaves instead of gale.			
- 🧟	893	2/16/199 earl	text	Mkdir rule. NOUPDATE rule.			
- 🧟	7 70	2/3/1999 earl	text	Galew.			
📄	669	2/2/1999 earl	text	New ALWAYS rule. Changed -t.			
- 🧟	563	1/23/199 earl	text	EXIT.			
🖻	4 30	1/10/199 earl	text	Copyright info.			

Graphical Reporting Tools

P4V includes several valuable graphical reporting tools:

- Revision Graph: displays a diagram that shows the evolution of a selected file, including files related by branching operations.
- Time-lapse View: shows how the contents of a selected text file changed from revision to revision. You can easily sweep through revision ranges to locate passages of interest and see when they were created and how they changed.
- Folder diff tool: enables you to see how the contents of a folder changed.

The following sections provide more details about these tools.

Viewing file revisions as a diagram

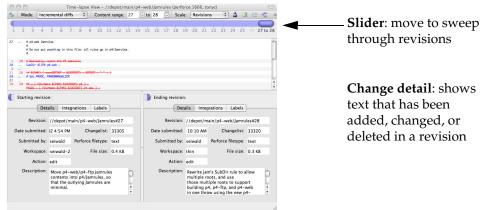
To display the revision diagram for a file, context-click the file in the left pane and choose Revision Graph. P4V launches the tool, which displays a diagram like the following one.

000				K	evision C	rapn – /	//jam/dev	12.3/9	src/comp	lie.c (pla	ay:4445,	bruno)							
S 🖗 🕅	₹	0 @	ک 🗜	3															
羄 🛛 File Filter Tree	2	٢	382	8703	8704	8723	8808	8853	8883	9991	9992	9997	10003	10013	10031	10032	12020	12021	-n
C	Filter Options	.)											1	2				3	U
▼ 📄 dev2.	3	6											//jam/e	lev2.3/s	src/com	pile.c			
▼ 🗋 sr		- 11									1								
	compile.c	0	-							-	∕ ▪	12.1.1							
► 🗹 🛅 m											//jam/i	el2.1/s	rc/comp	lle.c					
▶ 🗹 🗋 re			1																
▶ 🗹 🛅 re			//de	not/lam	REL2.1	/src/con	nnile c												
▶ 🗹 🚞 re	12.3	Ų	,,	,,	, ,	,													
🕨 🗹 🖬 pb		v	0	_	_				_			1	C						<u>т</u>
		-	Det				-h-l- /								0	las da ata			
			Deta	ans i	ntegratio	ins La	abels F	revie	w							Vavigato	r Le	gend	
Revision:	//jam/dev2.3/s	rc/co	mpile.c	#3															
Date submitted:	6/13/11 11:04	AM					Changeli	st: 1	2021										_
Submitted by:	bruno					Perfo	rce filetyp	e: te	ext									=	
Workspace:	bruno_jam_mair	n					File siz	e: 1	7.0 KB							/	$^{\prime}$		
Action:	edit													-		/	L		-
Description:	wef																		
																			1.

This diagram shows you when the file was created and how it was branched, and enables you to view details about each version submitted to the depot and navigate through the graph using the navigation map. For more details about the information displayed in the revision graph, consult P4V online help.

Browsing file revisions using Time-lapse View

To browse the changes made to a text file, context-click the file in the left pane and choose **Time-lapse View**. P4V launches the utility, which displays a screen like the following one.



Using Time-lapse View, you can sweep through all revisions of the file using the slider, noting when changes were made and who made them. Again, for details, consult P4V online help.

Displaying folder history using the folder diff tool

The folder diff tool enables you to see how the contents of a folder have changed: which files have been added, changed, or deleted. To view changes to a folder:

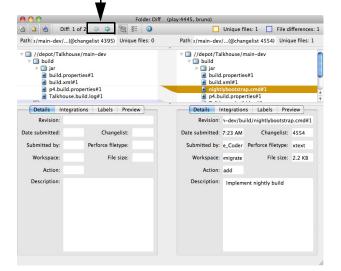
1. Context-click the folder in the left pane Depot or Workspace tab and choose **Folder History**. In the right pane, P4V lists changelists that affected the folder, for example:

🕒 Files 🧕	Pending 🚿 Streams 🖉 9	Subm 📮 Works 👫 What' 🎯 History 🕲 🗔
Revision (Char w	Date Submitted Submitted By	Description
2 4554	11/14/08 7: Joe_Coder	Implement nightly build
2 4404	11/2/08 2:4 Aruna_Gupta	Image changes from rel1.0 to main
2 4402	11/2/08 2:4 Aruna_Gupta	Additional colours
2 4401	11/2/08 2:4 Aruna_Gupta	More image adjustments
2 4400	11/2/08 2:4 Aruna_Gupta	Following Team meeting - attempting to change the
4395	11/2/08 2:3 Aruna_Gupta	Initial image file for eimage.class May need to be re
4310	10/24/08 8: Joe Coder	Implement automated build
2005	11/21/07 1: Joe Coder	Added Ant Build capability for main using labels

2. To display the changes that occurred between two revisions of a folder, drag and drop one of the revisions on the other.

P4V displays the changes as shown in the following figure. This example shows that, between the selected revisions, a file was edited and checked in. File highlights are color-coded to indicate additions, changes, and deletions. Expand folders and scroll to locate changes of interest. To skip to the next or previous change, click the right and left arrows.

Click these arrows to browse changes.



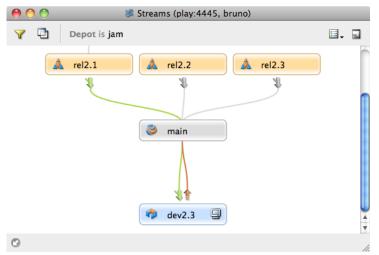
Viewing Streams

Perforce streams are "branches with brains," a containerized approach to managing bodies of related files such as codelines. If your organization uses streams, you'll see streams depots in the Depot pane. Streams depots look like this: See. To display the streams in the depot:

- 1. Click the Streams toolbar button: 👷 . The Streams tab is displayed.
- 2. To display a diagram of the stream hierarchy, choose the graph view:



3. Choose the streams depot that you want to view. P4V displays the stream graph, which shows the parent/child relationships and status of the streams; for example:



For detailed information about streams in P4V, consult the online help. For general information, see *Introducing Perforce*, the P4 User's Guide and the Perforce Command Reference.

Important and Useful Features

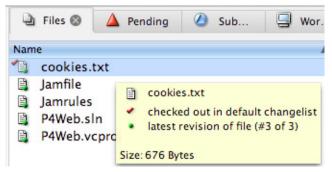
Among the many features provided by P4V, the following are especially useful:

- Tooltips: to get more information about an object, place your mouse cursor over it. P4V displays a popup dialog containing more details.
- Drag and drop: P4V includes numerous drag and drop shortcuts for common operations.
- File views: P4V enables you to preview graphics files using thumbnails.
- Tear off windows: to create a separate window displaying a specification you want to keep on display, you can tear it off.

The following sections provide more details.

Tooltips

P4V provides tooltips for many objects on the screen. For example, to display the status of a file, hold the mouse cursor over the file in the left pane. P4V displays a tooltip like the following one.



Another example: to display a changelist description, click *(M)* in the toolbar and hold the mouse cursor over the changelist in the right pane. There are tooltips for all the P4V buttons, too.

Drag and drop

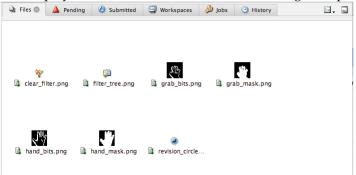
P4V provides drag and drop shortcuts for common tasks. Drag and drop can simplify operations on large groups of files. For example, to check out all the files in a folder, drag the folder to a changelist. To diff two files, drag one to the other. For details about drag and drop shortcuts, refer to the P4V online help.

File views

If you use Perforce to manage graphics files, P4V's thumbnail views enable you to preview the files. To display thumbnails, click the Files tab in the right pane, then select the desired thumbnail size from the title bar.

	S .
	List
	Large Thumbnail (160x160)
	Medium Thumbnail (120x120)
~	Small Thumbnail (80x80)

P4V displays thumbnails as shown in the following example.



Undocking tabs

To keep a tab open, you can undock it. For example, context-click a file and choose File History, then choose **Window > Undock Tab**. P4V opens a separate window for it, as shown in the following figure.

000		3 H	listory (play	4445, bruno)				
//jam/dev2.3/	src/comman	d.c			· 🛄.	13.	<u> </u>	
Revision	Changelist	Date Submitted	Submitted B	Filetype	Description			
▼1] //jam/de	v2.3/src/con	mmand.c						
🛃 3 🔤 1	12015	6/7/11 11:2	bruno	text	Bug fixes			
2 1	10020	1/7/11 7:00	Joe_Coder	text	Joe's 2.3 enhanc	ements		
2 1	10003	1/5/11 7:00	bruno	text	Seeding Jam 2.3	dev stre	am	
		Details	ntegrations	Labels Prev	view			
Revision	: //jam/dev	/2.3/src/command	d.c#3					
Date submitted	: 6/7/11 11	L:29 AM		Changelist:	12015			
Submitted by	: bruno		F	Perforce filetype:	text			
Workspace	: bruno_jan	n_main		File size:	1.7 КВ			
Action	i: edit							
Description	" Test							
0								

To restore it to the main window, choose **Window** > **Dock Window**.

Setting Preferences

To configure P4V, edit its preferences (Mac: **P4V** > **Preferences**, Windows: **File** > **Preferences**). The **Editor** tab enables you to associate applications with file types, overriding any operating system associations. The Diff and Merge tabs enable you to configure external applications, in case you prefer tools other than those that are bundled with P4V.

Migrating from P4Win

If you're moving from P4Win to P4V, here's a list of equivalent operations to help you in your transition.

<i>J</i> = == ===============================				
P4Win Menu Item	Menu	P4V Menu Item	Menu	Notes
Add to Source Control	File	Mark for Add	Actions	Applies only to files in the Workspace Tree
Annotate File	File	Time-lapse View	Tools	Graphical annotation tool
Diff 2 Files, Folders or Revisions	File	Diff	Tools	
Diff Client File vs. Depot File	File	Diff	Tools	Or context- click on file and choose: Diff Against Have Revision
Explore	File	Show in>Explorer	File	
Integrate Using Filespec or Branchspec	File	Integrate	Actions	
Open for Delete	File	Mark for Delete	Actions	
Open for Edit	File	Check Out	Actions	
Properties	File	Files in Folder	View	File properties are displayed in the Details pane at the bottom of the Files in Folder view
Remove from Client	File	Remove from Workspace	Actions	
Rename	File	Rename/Move	Actions	

Revision HistoryFileHistoryViewAlternatively context click on file and choose File HistoryView FileFileOpenFileAlternatively context click on file and choose OpenCheck ConsistencyFile>MoreReconcile Offline WorkActionsApplies only to folders in the Workspace TreeAuto ResolveFile>ResolveResolveActionsApplies only to folders in the Workspace TreeAuto ResolveFile>ResolveResolveActionsStep only to folders in the Workspace TreeSchedule File for ResolveFile>ResolveGet Latest Revision det and chooseActionsStep only to folders in the Workspace TreeSync to Head Revision Find File Matching PattermFile>SyncGet RevisionActionsStep only to folderFind File DookmarksEditFind FileEditStep only to folderStep only to folderFind File Under Selected FolderEditFind FileEditStep only to folderBookmarksViewBookmarksToolsStep only to spetiter Depot Tree Restrict to client view by dworkspace View>Filter Depot Tree Restricted to Workspace ViewViewClientSpecsViewWorkspaceView	P4Win Menu Item	Menu	P4V Menu Item	Menu	Notes
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Interactively [Resolve]File>ResolveResolveActionsSchedule File for ResolveFile>ResolveGet Latest RevisionActionsSync to Head RevisionFile>SyncGet Latest RevisionActionsSyncFile>SyncGet RevisionActionsFind File Matching PatternEditFind FileEditFind File Under Selected FolderEditFind FileEditBookmarksViewBookmarksToolsClient View of Depot ViewViewDepot TreeViewRestrict to client view by choosing: View>Filter Depot>Tree Restricted to Workspace View		File>More		Actions	to folders in the Workspace
[Resolve]Schedule File for ResolveFile>ResolveGet Latest RevisionActionsSync to Head RevisionFile>SyncGet Latest RevisionActionsSyncFile>SyncGet RevisionActionsSyncFile>SyncGet RevisionActionsFind File Matching PatternEditFind FileEditFind File Under Selected FolderEditFind FileEditSookmarksViewBookmarksToolsClient View of DepotViewDepot TreeView> Restrict to 	Auto Resolve	File>Resolve	Resolve	Actions	
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Client View of View Depot Tree View Restrict to Depot View Piew Restrict to client view by choosing: View>Filter Depot>Tree Restricted to Workspace View		Edit	Find File	Edit	
Depot client view by choosing: View>Filter Depot>Tree Restricted to Workspace View	Bookmarks	View	Bookmarks	Tools	
ClientSpecs View Workspaces View		View	Depot Tree	View	client view by choosing: View>Filter Depot>Tree Restricted to Workspace
	ClientSpecs	View	Workspaces	View	

P4Win Menu Item	Menu	P4V Menu Item	Menu	Notes
Describe	(any specification menu)	Go To	Edit	Navigate directly to desired specification
Entire Depot	View	Depot Tree	View	Show the entire depot by choosing: View>Filter Depot>Entire Depot Tree
Local View of Client Tree	View	Workspace Tree	View	
Show Deleted Depot Files	View	Show Deleted Depot Files	View>Filter Depot	
Favorite Connections	Settings	Favorite Connections	Connection	
Logout	Settings	Log Off	Connection	
Options	Settings	Preferences	Edit	
Port Client User History	Settings	Open Recent	Connection	
Switch Port Client User	Settings	Open Connection	Connection	
Set Password for (current user)	User	Change Password	Connection	
View Users	User	Administration	Tools	Superusers can manage users and groups from within P4V

Next Steps

This guide helps you to start working with files using P4V and points out important basic features, but P4V enables you to do much more: create jobs, branch groups of files, and handle file conflicts that arise in team development settings.

Perforce administrators can perform administrative operations by choosing **Tools** > **Administration**. Using the Administration tool, superusers can manage users and groups, and their access to files and folders within the depot. Some administrative functions must still be performed using the Perforce command-line client (p4). For details, see the *Perforce Command Reference* and the *Perforce System Administrator's Guide*.

To become expert with P4V:

- Consult the P4V online help and read the Perforce user documentation available from the Perforce Web site.
- Use tooltips.
- Pay attention to the file icons and decorations in the left pane. The decorations and icons display a great deal of information about the type and status of a file.
- Start reading the Log pane.
- Learn drag and drop shortcuts to simplify operations on large sets of files.
- Use P4V views and filtering features to enable you to selectively display information.

To get the whole picture, read the P4V online help, *Introducing Perforce* and the *Perforce System Administrator's Guide*. The guides, which are available from the Perforce web site, describe the full set of features that the Perforce Server provides. Perforce Technical Support is always ready to help you, and there's a thriving community of Perforce users active on the perforce-user mailing list. Consult our web site for details.