

# **Enable Applets**

- First enable the applets for P4V and/or P4Admin.
- This is done by checking the checkbox which says "Allow Perforce applets to run in P4Admin" and adding a server within an "Applets" tab by selecting "Edit => Preferences" from the P4Admin menu.

If you also want to enable it for P4V, you will need to do the same by selecting "Edit => Preferences" from the P4V menu.

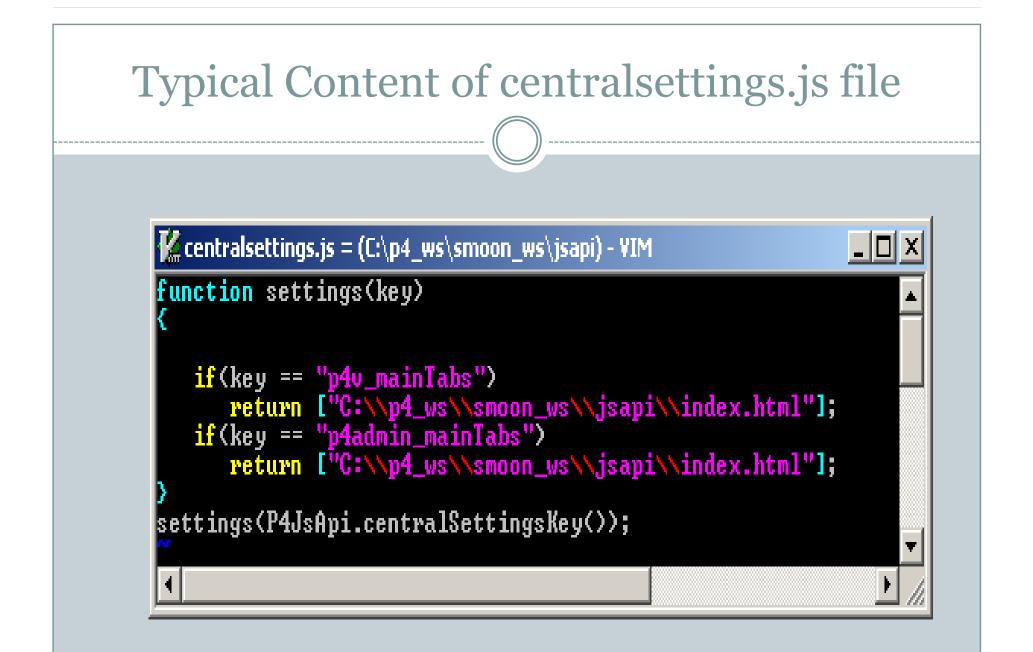
Screen shot of P4Admin Preferences Window
References
General Connection Editor Diff Font Applets
✓ Allow Perforce applets to run in P4Admin         Always accept Perforce applets from the following servers:
Server: (server name or host:port) Add Remove
Never accept Perforce applets from the following servers:         Server:       (server name or host:port)         Add       Remove
Note: To run Perforce applets after adding a server to the "always accept" list, close and reopen any connections to that server.         OK       Cancel       Apply       Help

#### Add an entry in the protections table

• You will need the following entry in the protections table:

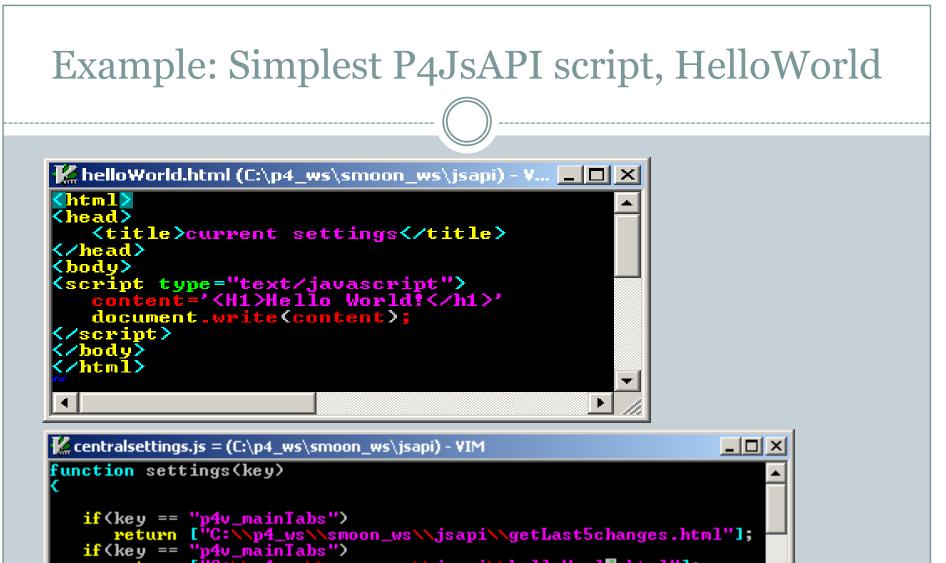
list user \* centralsettings //depot/jsapi/centralsettings.js

This allows the P4JsAPI program to be available to all users.



#### Remarks about the centralsettings.js file

- If the "key" of the conditional statement matches "p4v\_mainTabs", you will find the JavaScript applet listed under "View" from the P4V menu.
- If the "key" of the conditional statement matches "p4admin\_mainTabs", you will find a tab corresponding to the JavaScript applet when you open the P4Admin.



return ["C:\\p4\_ws\\smoon\_ws\\jsapi\\helloWorla.html"];
if(key == "p4admin\_mainTabs")

return ["C:\\p4\_ws\\smoon\_ws\\jsapi\\getLast5changes.html"];

settings(P4JsApi.centralSettingsKey());

# Example: Get last five submitted changes

1 <html></html>	
2 (head)	
3 <title>Five Latest Changes</title>	
5 <script type="text/javascript"></td><td></td></tr><tr><td>6 function getLast5Changes()</td><td></td></tr><tr><td>7 { 8 changes = P4JsApi.p4<"changes -1 -</td><td></td></tr><tr><td><pre>8 changes = P4JsApi.p4<"changes -1 - 9</pre></td><td></td></tr><tr><td><pre>9 10 table = document.getElementById<'c 11 for(var i=0; i < changes.size; i++ 12 var change = changes.data[i]; 13 var row = document.createElemen 14 row.innerHTML = 15 "<td>"""""""</td><td>hanges');</td></tr><tr><td><pre>11 for(var i=0; i < changes.size; i++</pre></td><td>> <b>(</b></td></tr><tr><td><pre>11 for(var i=0; i < changes.size; i++ 12  var change = changes.data[i]; 13  var row = document.createElemen</pre></td><td>t ("tw")</td></tr><tr><td>14 row.innerHTML =</td><td></td></tr><tr><td>15 "" +</td><td></td></tr><tr><td>16P4JsApi.encodeForHTML<change</th>17"</td><td>Change > +</td></tr><tr><td>18 ""</td><td></td></tr><tr><td>19 P4JsApi.encodeForHTML(change</td><td>.User> +</td></tr><tr><td>20 "     "     "       21     "     "</td><td></td></tr><tr><td>22 P4JsApi.encodeForHTML(change</td><td>Description) +</td></tr><tr><td>23 "</td><td></td></tr><tr><td><pre>24 table.appendChild(row); 25 ></pre></td><td></td></tr><tr><td>26</td><td></td></tr><tr><td></td><td></td></tr><tr><td>28 <meta http-equiv="refresh" content="3</td><td>"></td></tr><tr><td>29 </head> 30 <body onLoad="getLast5Changes();"></td><td></td></tr><tr><td>31 (table id=changes horder=1 width="50/</td><td>"></td></tr><tr><td><math>32 \langle tr \rangle</math></td><td></td></tr><tr><td>32  33 Change 33 Change 34 User 35 Description 36  36</td><td></td></tr><tr><td>35 Description</td><td></td></tr><tr><td>36</td><td></td></tr><tr><td>37</td><td></td></tr><tr><td>38 </body> 39 </html></td><td></td></tr><tr><td>N N N N N N N N N N N N N N N N N N N</td><td><b>_</b></td></tr></tbody></table></script>	

#### Some remarks in regards to the prior example

- As you can see the JavaScript code is embedded within the HTML. Normally, this is not a good style.
- The good style is to invoke the JavaScript from a JavaScript file.
- You can put the JavaScript in the body and head sections of an HTML page.
- The Perforce commands can be executed by invoking "P4JsApi.p4()" method. In the example (Line 8), you see that that "changes" object holds the output of "p4 changes –l –m5".

#### Continued

- (Line 10) The "document.getElementById('change') will extract the table tag content from the existing HTML page and this is stored in the "table" object.
- Within this object, there are 5 submitted changes output and each change can be extracted using "change.data[<index>]" method (Line 12).
- Since we like to output this as an HTML, for each change, we create a table row and this is done by "document.createElement("tr")" method (Line 13).

# Continued

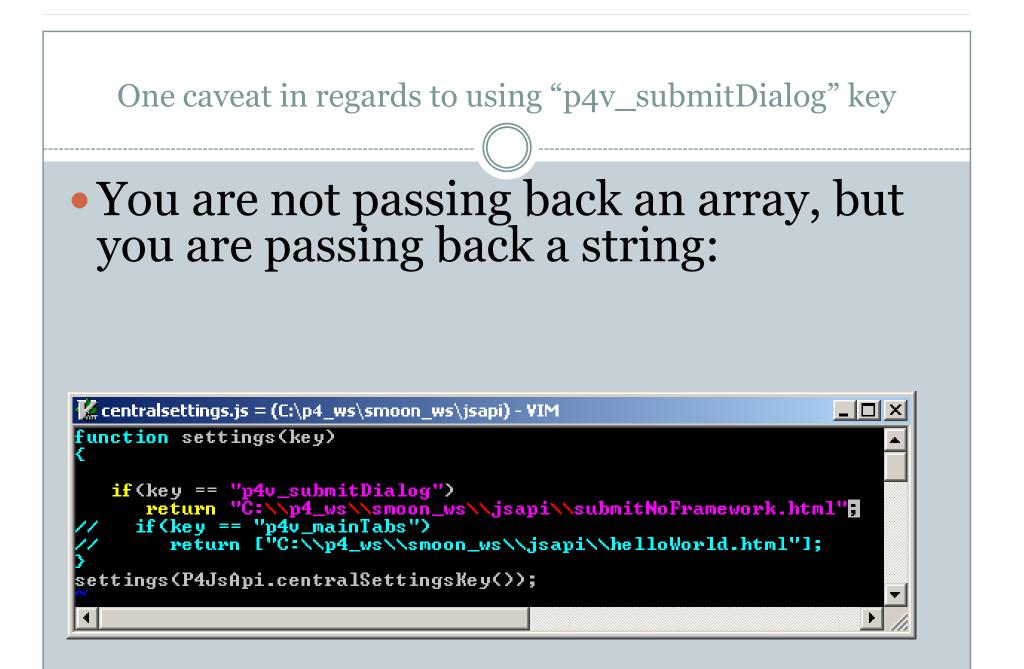
- For each "row" object, you use "innerHTML" method to store the HTML table row content (Line 14)
- And this is appended to the existing table header in the HTML (Line 24).
- Also notice "meta" tag: <meta http-equiv="refresh" content="3">
   The above tag makes the HTML page to refresh every 3 seconds.
- See the following slide which shows the example without the JavaScript embedded to the HTML.

### Without JavaScript Embedded

🕻 getLast5ChangesNoEmbed.html (C:\p4\_ws\smoon\_ws\jsapi) - VIM

```
Khtml>
(head)
<title>Five Latest Changes</title>
{script type="text/javascript" src="getLast5Changes.js"X/script>
{meta http-equiv="refresh" content="3">
</head>
{body onLoad="getLast5Changes();">
{table id=changes border=1 width="50%">
\langle tr \rangle
    Change
    <u><th</u>>User
    Description
\langle t_{\rm F} \rangle
<∕body>
</html
```

Example: Customized	l SubmitDiag	zlog
A. Submit Changelist: default		_ 문 × Submit Pending Changelist 스
		Description
undefined		
		Files
Check/Uncheck All Files		
On submit: Submit all selected files	Check out submitted files after submit	
		Jobs
Check/Uncheck All Jobs		
Add Job:	Job status upon submit: closed	
Save Changelist	Cancel Submit	
Note: This example only works with numbered changelists, not the default change.		



# Utilizing Ext library

 You can use an external library to enhance the look of your HTML page. This is done by downloading Ext library from

http://www.extjs.com/products/js/download.php

# Example: JavaScript using Ext Library

K serverInfo.html = (C:\p4_ws\smoon_ws\jsapi) - VIM	- 🗆 🗵
<pre><html> <head></head></html></pre>	
<pre> {script type="text/javascript" src="js/ext/adapter/ext/ext-base.js" //script&gt; </pre>	
<pre> {script type="text/javascript" src="js/ext/ext-all-debug.js" //script&gt; </pre>	
<pre><!-- A relative path can be used as shown below to point to files--></pre>	
<pre></pre>	
<pre></pre>	
/html> 70,1	Bot

#### How the example looks without Ext library

	Server Info (localhost:	
E	Below is the info	ormation of server localhost:20101.
) () () () () () () () () () () () () ()	clientAddress clientCwd clientHost clientName monitor password security	insensitive winansi 127.0.0.1:3434 C:/Documents and Settings/stephen laptopins6400 *unknown* enabled enabled enabled localhost:20101 2010/08/09 16:07:32 -0700 Pacific Daylight Time Perforce Software 50 users (expires 2011/01/23)
i	serverLicense- p	127.0.0.1
9 9 1	serverRoot serverUptime serverVersion unicode userName	
	2	

# The example with Ext library

Server Info (lo	alhost:20101, smoon)	
		8
dd Enter Perf	prce server address here	
ocalhost:20101		<u> </u>
Property	Value	
aseHandling		
harset	winansi	
lientAddress	127.0.0.1:3427	
lientCvvd	C:/Documents a	
lientHost	laptopins6400	
lientName	*unknown*	
nonitor	enabled	
assword	enabled	
ecurity	enabled	
erverAddress	localhost:20101	
serverDate	2010/08/09 16:	
erverLicense	Perforce Softw	-