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Putting the PeopleSoft Test Framework to Work for You

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Program Agenda

- Share best practices identified by customers and internal PTF implementation team
- Discuss why PTF is a better choice for automating PeopleSoft applications than a third party tool
- Demonstrate what PTF is and how it works (automation use cases)

Best Practices

High-level take-aways

- Preview information offerings to supplement PeopleBooks
 - Best practices / use case document
 - Sample PTF code
- Emphasize themes: efficient, robust automation
- Advertise new features in 8.53

Best Practices

Generally-Accepted Good Automation Habits

- Keep your desktop simple
- Adopt consistent folder and test naming conventions
- Record rather than code from scratch
- Clean up tests
- Document your tests

Best Practices

PIA-Specific Features of PTF

- Use execution options
- Use page prompting
- Use scroll handling
- Use test cases
- Use message recognition
- Use the Process.Run step

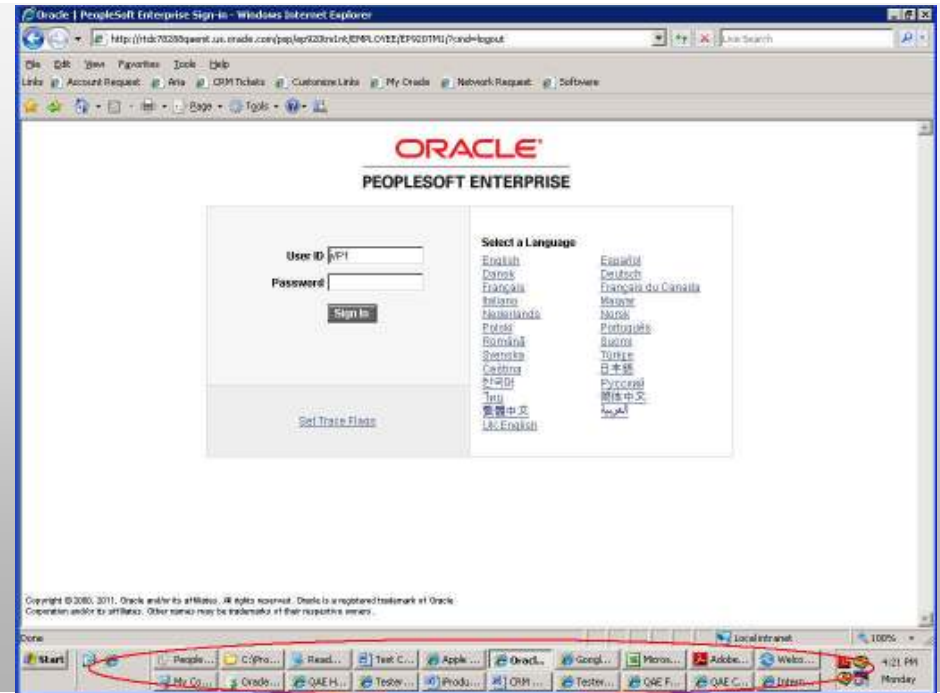
Best Practices

Additional Advanced Automation Features

- Make tests dynamic
(use reserved words, global variables, system variables, libraries)
- Use conditional logic
- Use Log messaging and MsgBox step

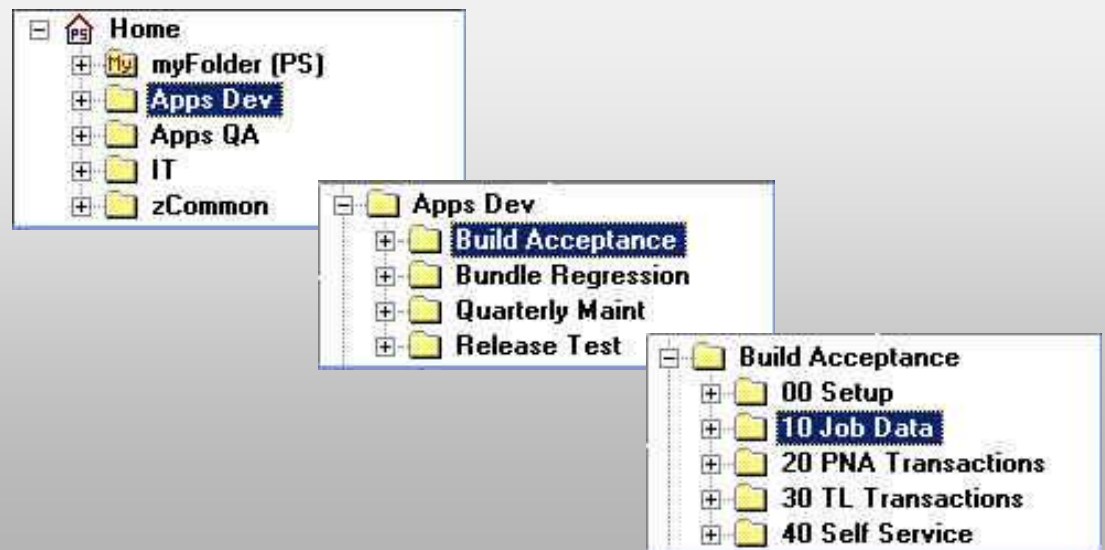
Best Practice: Keep your Desktop Simple

- Close all applications except PTF and PIA
- Be especially aware of any applications that send alerts
- Automation is already multi-tasking



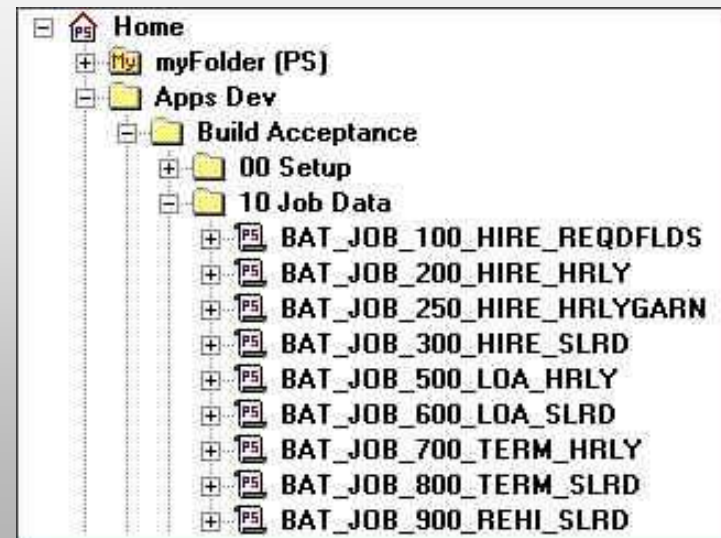
Best Practice: Adopt Folder and Test Naming Conventions

- Folder naming limitations
- Attributes to consider in folder structure:
 - Test owner
 - Product / feature
 - Execution frequency
 - Order of execution



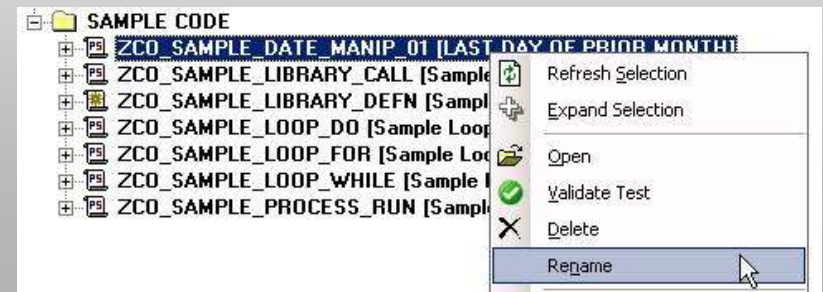
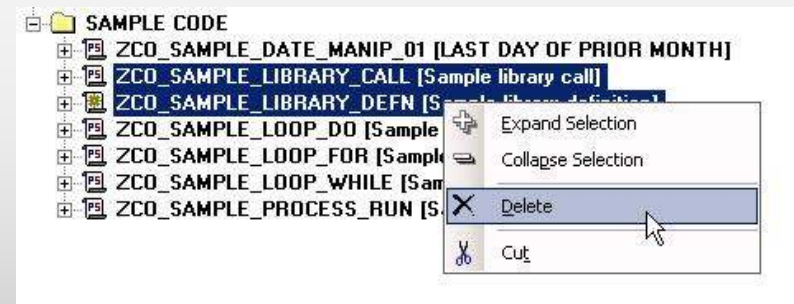
Best Practice: Adopt Folder and Test Naming Conventions

- Folder structure not visible in all views / reports
- Test naming limitations
- Consider same attributes used in folder naming convention, e.g., order of execution



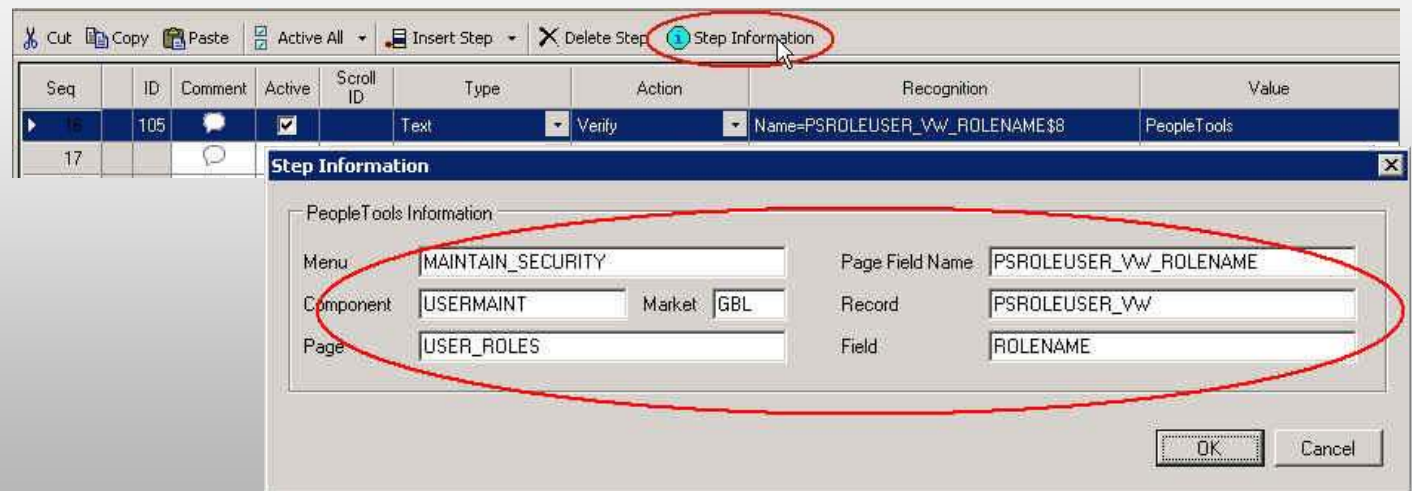
Best Practice: Adopt Folder and Test Naming Conventions

- Multi-select and rename actions now supported on the PTF explorer tree



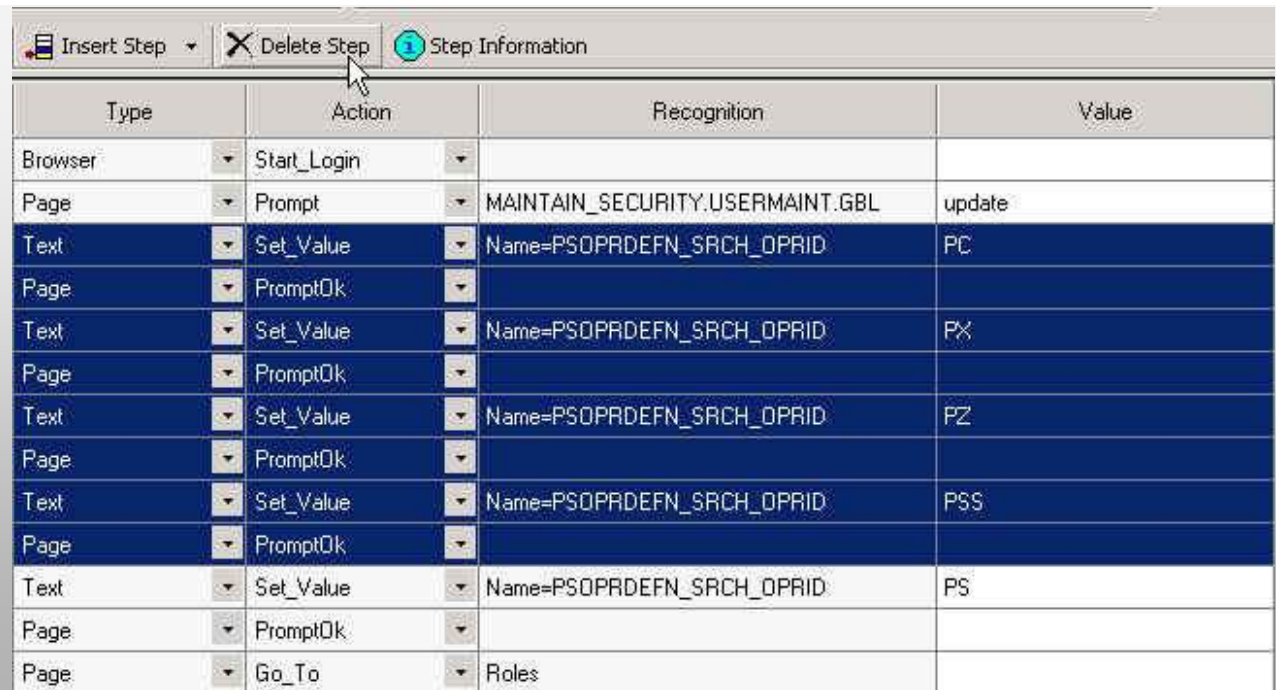
Best Practice: Record Rather than Code from Scratch

- More accurate
- Captures meta data which can be used later to maintain tests



Best Practice: Clean up Tests

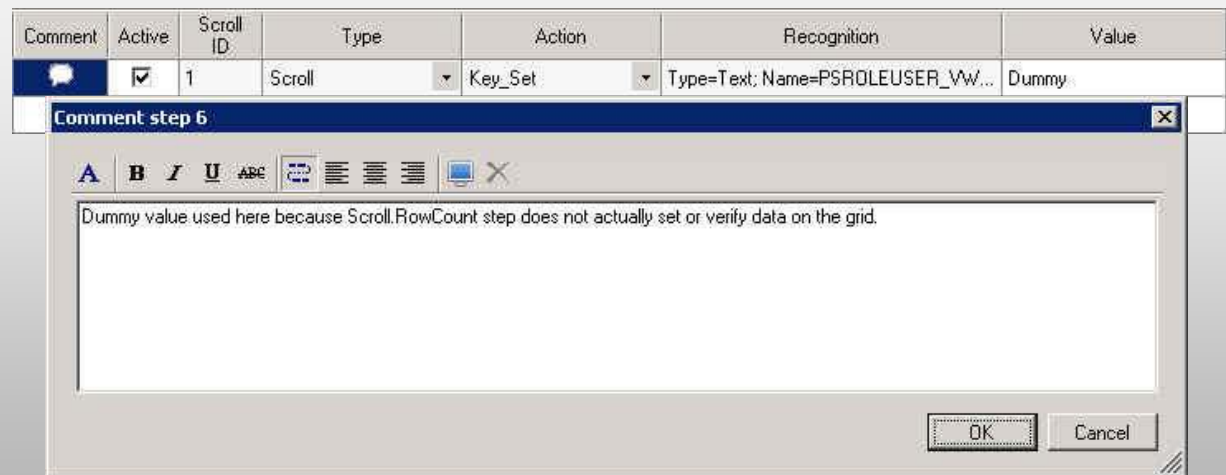
- Remove typos and recording errors from Tests immediately after recording



Type	Action	Recognition	Value
Browser	Start_Login		
Page	Prompt	MAINTAIN_SECURITY.USERMAINT.GBL	update
Text	Set_Value	Name=PSOPRDEFN_SRCH_OPRID	PC
Page	PromptOk		
Text	Set_Value	Name=PSOPRDEFN_SRCH_OPRID	PX
Page	PromptOk		
Text	Set_Value	Name=PSOPRDEFN_SRCH_OPRID	PZ
Page	PromptOk		
Text	Set_Value	Name=PSOPRDEFN_SRCH_OPRID	PSS
Page	PromptOk		
Text	Set_Value	Name=PSOPRDEFN_SRCH_OPRID	PS
Page	PromptOk		
Page	Go_To	Roles	

Best Practice: Document Your Tests

- Describe application functionality and explain automation techniques that might not be obvious to the next user

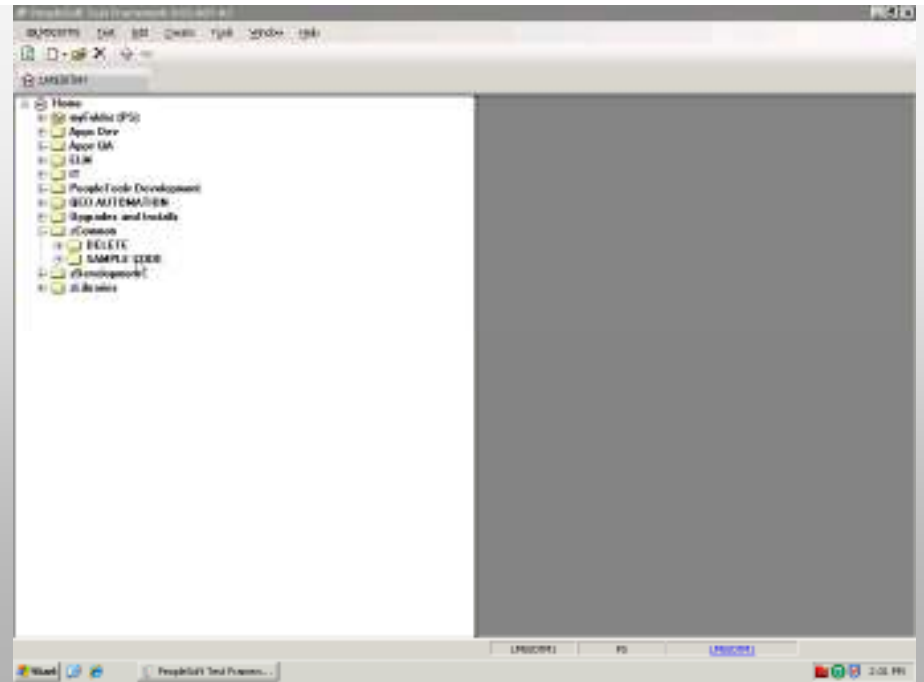


Use Case: Verify Role

- Verify that PS user profile has the PeopleTools role; if it does not have the role, add it.
- Conditional scenario illustrates how best practices are often in knowing when to “record and playback” and when to optimize
- Exemplifies standard that the best automation is repeatable
- Shows off several key PIA-specific features of PTF

Use Case: Verify Role

- Recording reflects basic best practices
 - Use naming conventions
 - Keep desktop simple
 - Record first
- Does not exploit PIA-specific features or best practices



Best Practice: Use Execution Options

- Gives administrator control over environments that PTF tests can be executed against
- Takes environment-specific info out of your PTF tests
- Makes tests more portable

Execution Options

Insert Delete Accept Cancel

Options | Advanced Options | PeopleTools

Name: PROD_NT_02

Prompt for Options: No

Application

URL: http://rtdc78249qaemt.us.oracle.com/psp/Im920tm1nt/EMPLOYEE/

User ID: PS

Password: ..

Process Server: PSNT

Date Format: MM/DD/YYYY

Output

LogFolder: PROD

Verbose: Yes

Debugging

Skip PageSave: No

Skip RunRequest: No

Best Practice: Use Page Prompting

- Removes menu navigation from tests
- Makes tests repeatable by adapting to data
- Recommended mode: add update



User Profiles

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

▼ Search Criteria

User ID:

Description:

Best Practice: Use Scroll Handling

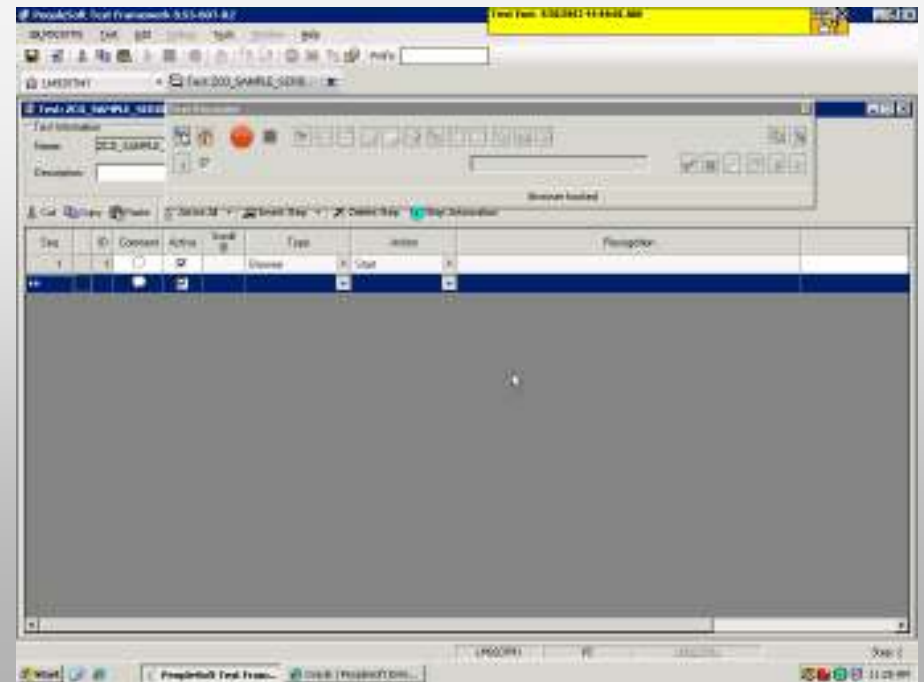
- Searches for data by key, not position on page
- Makes tests repeatable by adapting to data
- Recommended mode: upd+
- Parameter help available



Role Name	Description	Dynamic	Route Control	View Definition		
LMLELM_Learning_Adr	Learning Administrator	<input type="checkbox"/>	Route Control	View Definition	+	-
LMLELM_Learning_Env	Learning Environment Admin	<input type="checkbox"/>	Route Control	View Definition	+	-
LMLELM_Manager	Manager	<input type="checkbox"/>	Route Control	View Definition	+	-
LMLELM_Roster_Admi	Roster Administrator	<input type="checkbox"/>	Route Control	View Definition	+	-
PAPP_USER	Enterprise Portal User	<input type="checkbox"/>	Route Control	View Definition	+	-
PTF Administrator	PTF Administrator	<input type="checkbox"/>	Route Control	View Definition	+	-
PeopleSoft Administrator	PeopleSoft Admin Privileges	<input type="checkbox"/>	Route Control	View Definition	+	-
PeopleSoft User	PeopleSoft User	<input type="checkbox"/>	Route Control	View Definition	+	-
PeopleTools	PeopleTools	<input type="checkbox"/>	Route Control	View Definition	+	-
Portal Administrator	Portal Administrator	<input type="checkbox"/>	Route Control	View Definition	+	-

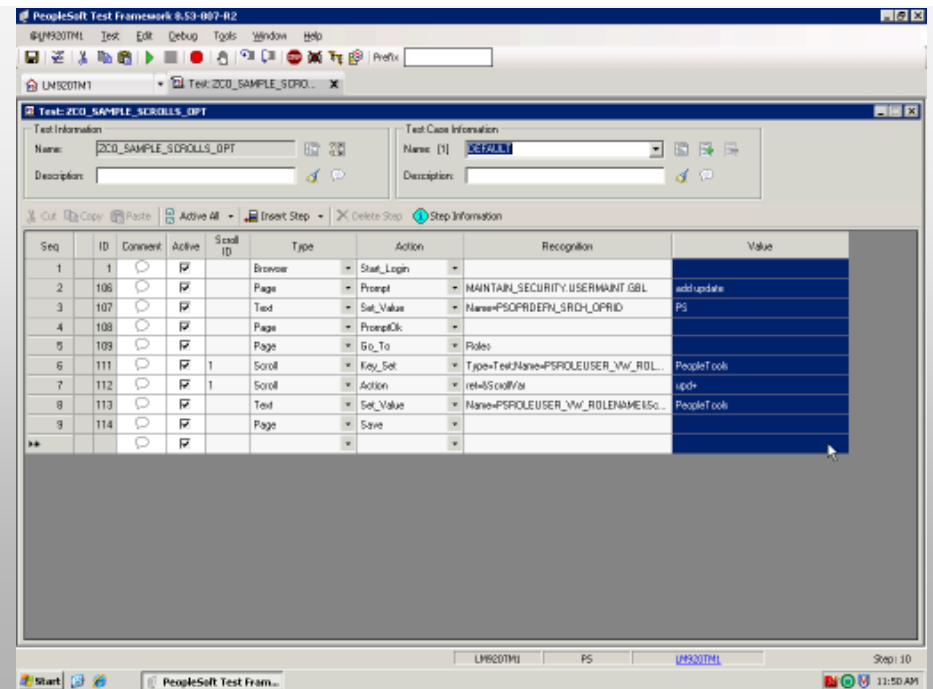
Use Case: Verify Role (Exploiting PIA-Specific Features)

- Execution Option bypasses User ID and Password
- Page Prompting bypasses menu navigation
- Scroll features handle data-dependent actions



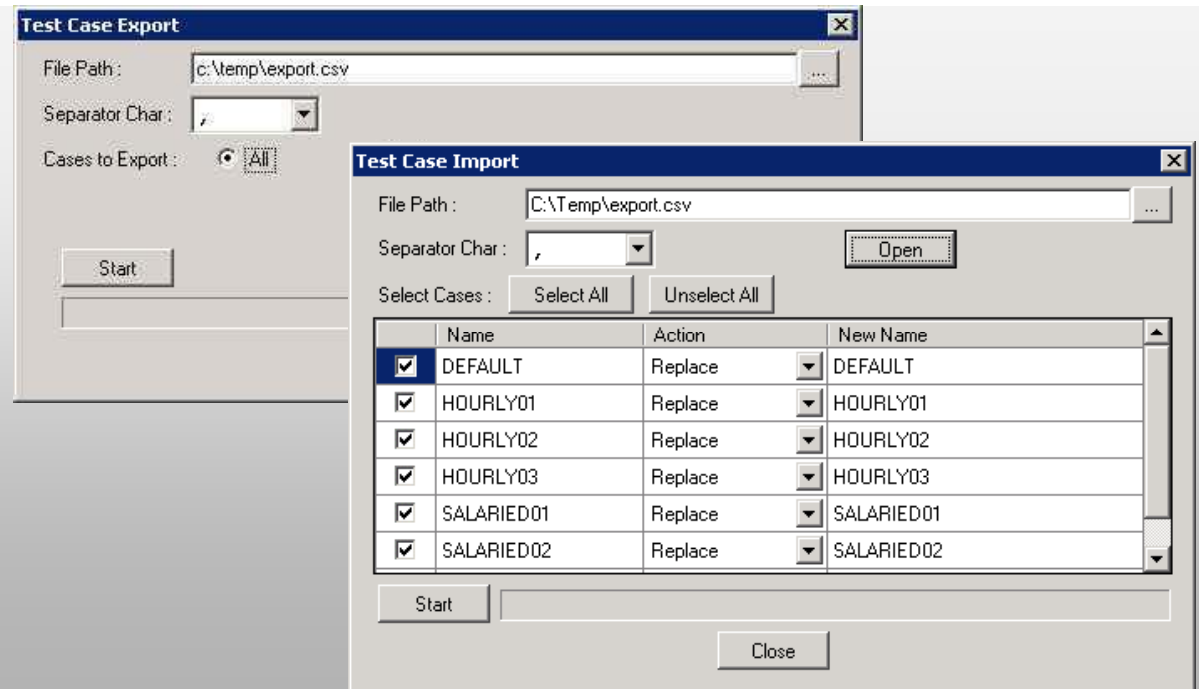
Best Practice: Use Test Cases

- Logic is saved in Test
- Data is saved in Test Case
- Use case: verify that VP1 user profile also has PeopleTools role (and add if needed):
 - Test Case Save As
 - Link Tests in a Shell



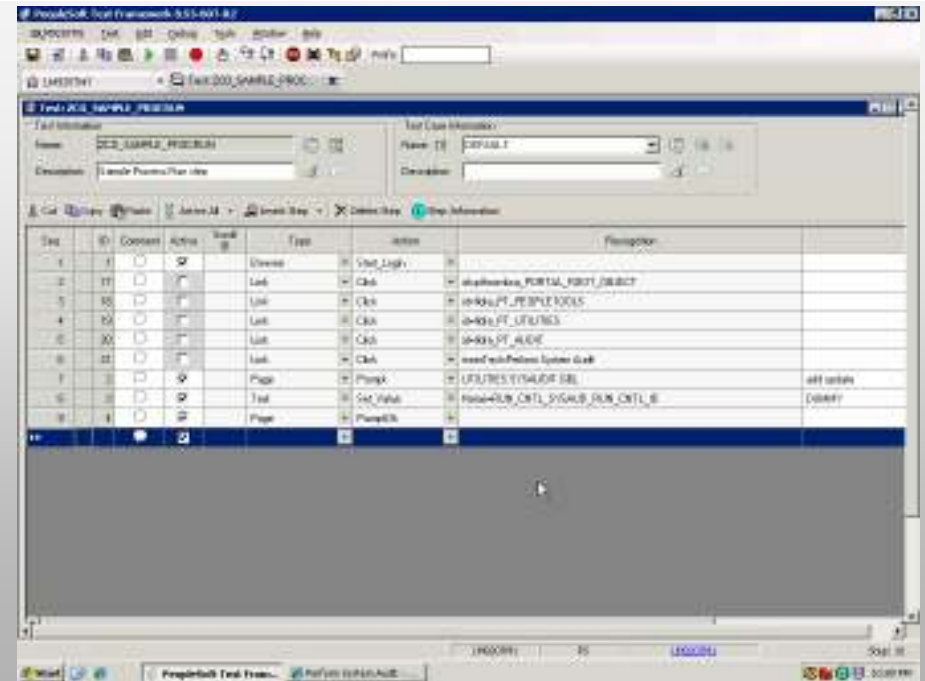
Best Practice: Use Test Cases

- Ability to ignore, overwrite, or rename test cases during import, esp. to resolve conflicts between test case names appearing in both DB and flat file



Best Practice: Use the Process.Run Step

- Replace an impractical number of clicks and updates with a single step
- Use Wait=true to wait for status
- Help with parameters
- Default on PTF record tool bar



Best Practice: Make Tests Dynamic

- **Reserved words**, such as #TODAY, furnish values that can't be known prior to execution
- **Global variables** allow information to be captured in one area of the application and applied to another
- **System variables**, such as %eo.url% and %pid%, provide information on your environment
- **Libraries** allow general-purpose PTF code to be re-used

Best Practice: Use Conditional Logic

- Logical constructs allow users to build additional conditional and repetitive handling into a PTF Test:
 - **Conditional.If_Then**
 - **Loop.Do**
 - **Loop.For**
 - **Loop.While**

Best Practice: Use Log Messaging and MsgBox Step

- Provide run-time data to tester
- Define custom conditions for log statuses
- Capture screen shots without interrupting execution

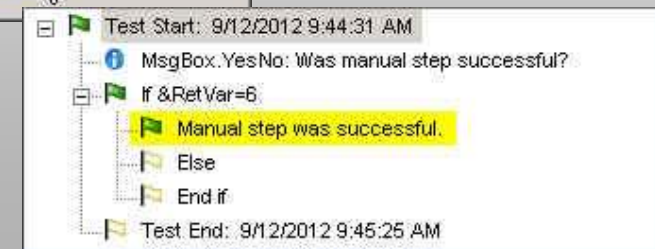
Type	Action	Recognition
CheckBox	Get_Property	Name=PSROLEUSER_VW_DYNAMIC_SW\$0;ret=&DisabledVar;prop=disabled
Conditional	If_Then	&DisabledVar="True"
Log	Pass	The checkbox is NOT dynamic = OK.
Log	SnapShot	Here is what the page looks like.
Conditional	Else	
Log	Fail	The checkbox IS dynamic = NOT OK.
Conditional	End_If	

CheckBox.Get_Property [Name=PSROLEUSER_VW_DYNAMIC_SW\$0]
Name=PSROLEUSER_VW_DYNAMIC_SW\$0 [CheckBox]. The property disabled was found, and it is True
If &DisabledVar="True"
The checkbox is NOT dynamic = OK.
Screenshot: Here is what the page looks like.
Else
End if

Best Practice: Use Log Messaging and MsgBox Step

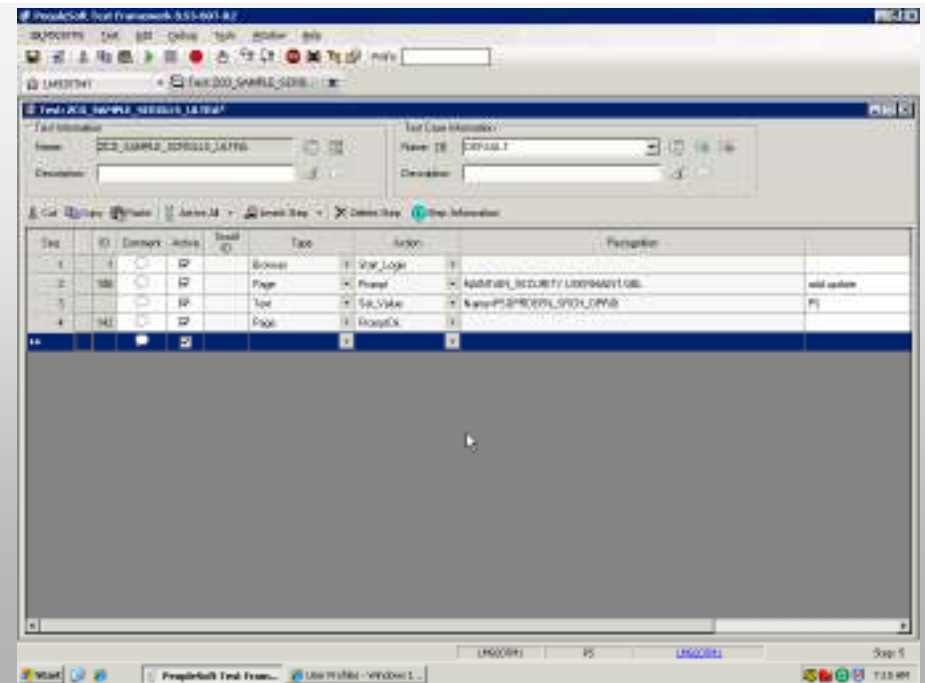
- New MsgBox step allows run-time information to be presented to tester
- Ideal for debugging
- Can also be used to incorporate manual steps into a PTF test

Type	Action	Recognition
MsgBox	YesNo	prompt=Was manual step successful?.ret=&RetVar
Conditional	If_Then	&RetVar=6
Log	Pass	Manual step was successful.
Conditional	Else	
Log	Fail	Manual step was NOT successful.
Conditional	End_If	



Use Case: Conditional Action on Every Item in a Scroll

- Verify that user PS has no dynamic roles
 - GetProperty action
 - Scroll.RowCount
 - Loop.For
 - Conditionals
 - log messaging



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