



SAP Test Object Identification Plug-in

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1 Purpose of the Document

This document explains the necessity and the usage of SAP object smoke test script.

1.1 Scope

The following are in scope of this document:

- Overview of 'SAP object smoke test'
- Guidelines to work on 'SAP object smoke test'

1.2 Overview

In a SAP application, most of the object properties change with the changes in the environment. During automation regression, the test scripts fail if the object properties do not match with the object properties in the repository. Identification of the objects with changed properties and updates to these objects in the shared object repository requires effort and rework. Due to this, the overall efficiency of the automation will get reduced.

To overcome the object identification issue and to improve the automation efficiency, the missing objects needs to be identified before running the regression test scripts. 'SAP test object identification' add-in script is a smoke test developed for this purpose. This script will identify the missing objects and report them to the user before running the regression test scripts. User will have to add these missing objects in the shared object repository before executing the regression test scripts.

SAP object smoke test script can be used for running the smoke test on object repository with SAP objects, with the following features

- The script ensures that all the objects present in the object repository are looked for in the run time application.
- It generates the missing objects report at the end of the execution for objects with changed properties.
- This script is generic to all the SAP applications and can be used for SAP GUI and SAP HTML applications.

2 Module of SAP object smoke test

2.1 Test object identification script

Test object identification script will take the object information from the keywords present in the global data sheet of QTP. The script ensures that the objects present in object repository are available in the SAP application. If not, it will generate the missing objects report.

2.2 Shared object repository

Shared object repository should be associated with the test.

2.3 Keywords

Object description should be included in the test in the global datasheet in the form of keywords.

The keyword format is described in the guideline section.



3 Guidelines to work on SAP object smoke test

3.1 Object keywords

To prepare the keywords for all the objects present in the shared object repository, export the shared object repository to XML format. Convert the shared object repository which is in XML format to excel by using Excel-XML add-in. The spreadsheet generated will display the objects as keywords.

E.g.:

SAPGuiSession	Session	SAPGuiWindow	Family members		
SAPGuiSession	Session	SAPGuiWindow	Family members	SAPGuiEdit	Data Selection Period
SAPGuiSession	Session	SAPGuiWindow	Family members	SAPGuiEdit	Personnel Number
SAPGuiSession	Session	SAPGuiWindow	Family members	SAPGuiEdit	Employment status
SAPGuiSession	Session	SAPGuiWindow	Family members	SAPGuiEdit	Person selection period
SAPGuiSession	Session	SAPGuiWindow	Family members	SAPGuiRadioButton	Current month
SAPGuiSession	Session	SAPGuiWindow	Family members	SAPGuiEdit	Type of family membersh
SAPGuiSession	Session	SAPGuiWindow	Family members	SAPGuiEdit	SAP List Viewer
SAPGuiSession	Session	SAPGuiWindow	Education and training	SAPGuiEdit	Employment status
SAPGuiSession	Session	SAPGuiWindow	Education and training	SAPGuiEdit	Person selection period
SAPGuiSession	Session	SAPGuiWindow	Education and training	SAPGuiEdit	School type
SAPGuiSession	Session	SAPGuiWindow	Education and training	SAPGuiEdit	Certificate
SAPGuiSession	Session	SAPGuiWindow	Education and training	SAPGuiEdit	Cost center
SAPGuiSession	Session	SAPGuiWindow	Education and training	SAPGuiEdit	Personnel subarea
SAPGuiSession	Session	SAPGuiWindow	Education and training	SAPGuiEdit	Education and training
SAPGuiSession	Session	SAPGuiWindow	Education and training	SAPGuiRadioButton	Current month
SAPGuiSession	Session	SAPGuiWindow	Education and training	SAPGuiRadioButton	Other period
SAPGuiSession	Session	SAPGuiWindow	Education and training	SAPGuiRadioButton	Today
SAPGuiSession	Session	SAPGuiWindow	Education and training	SAPGuiRadioButton	Up to today

In the spreadsheet, rearrange the keywords with 'a' in the first column or function name as shown below.

E.g.:

A1	Family_member()						
	A	B	C	D	E	F	G
1	Family_member()						
2	a	SAPGuiSession	Session	SAPGuiWindow	Family members		
3	a	SAPGuiSession	Session	SAPGuiWindow	Family members	SAPGuiEdit	Data Selection Period
4	a	SAPGuiSession	Session	SAPGuiWindow	Family members	SAPGuiEdit	Personnel Number
5	a	SAPGuiSession	Session	SAPGuiWindow	Family members	SAPGuiEdit	Employment status
6	a	SAPGuiSession	Session	SAPGuiWindow	Family members	SAPGuiEdit	Person selection period
7	a	SAPGuiSession	Session	SAPGuiWindow	Family members	SAPGuiRadioButton	Current month
8	a	SAPGuiSession	Session	SAPGuiWindow	Family members	SAPGuiEdit	Type of family membersh
9	a	SAPGuiSession	Session	SAPGuiWindow	Family members	SAPGuiEdit	SAP List Viewer
10	FamilyBack()						
11	Education()						
12	a	SAPGuiSession	Session	SAPGuiWindow	Education and training	SAPGuiEdit	Employment status
13	a	SAPGuiSession	Session	SAPGuiWindow	Education and training	SAPGuiEdit	Person selection period
14	a	SAPGuiSession	Session	SAPGuiWindow	Education and training	SAPGuiEdit	School type
15	a	SAPGuiSession	Session	SAPGuiWindow	Education and training	SAPGuiEdit	Certificate
16	a	SAPGuiSession	Session	SAPGuiWindow	Education and training	SAPGuiEdit	Cost center
17	a	SAPGuiSession	Session	SAPGuiWindow	Education and training	SAPGuiEdit	Personnel subarea
18	a	SAPGuiSession	Session	SAPGuiWindow	Education and training	SAPGuiEdit	Education and training
19	a	SAPGuiSession	Session	SAPGuiWindow	Education and training	SAPGuiRadioButton	Current month
20	a	SAPGuiSession	Session	SAPGuiWindow	Education and training	SAPGuiRadioButton	Other period
21	a	SAPGuiSession	Session	SAPGuiWindow	Education and training	SAPGuiRadioButton	Today
22	a	SAPGuiSession	Session	SAPGuiWindow	Education and training	SAPGuiRadioButton	Up to today
23	EducationBack()						

- 'a' should be entered in the first column (Column A) of spreadsheet to execute the row.

Application related function (e.g. Family member()) should be entered in the first column of the spreadsheet to execute the function. This will bring the application to the respective screen in which objects needs to be verified.

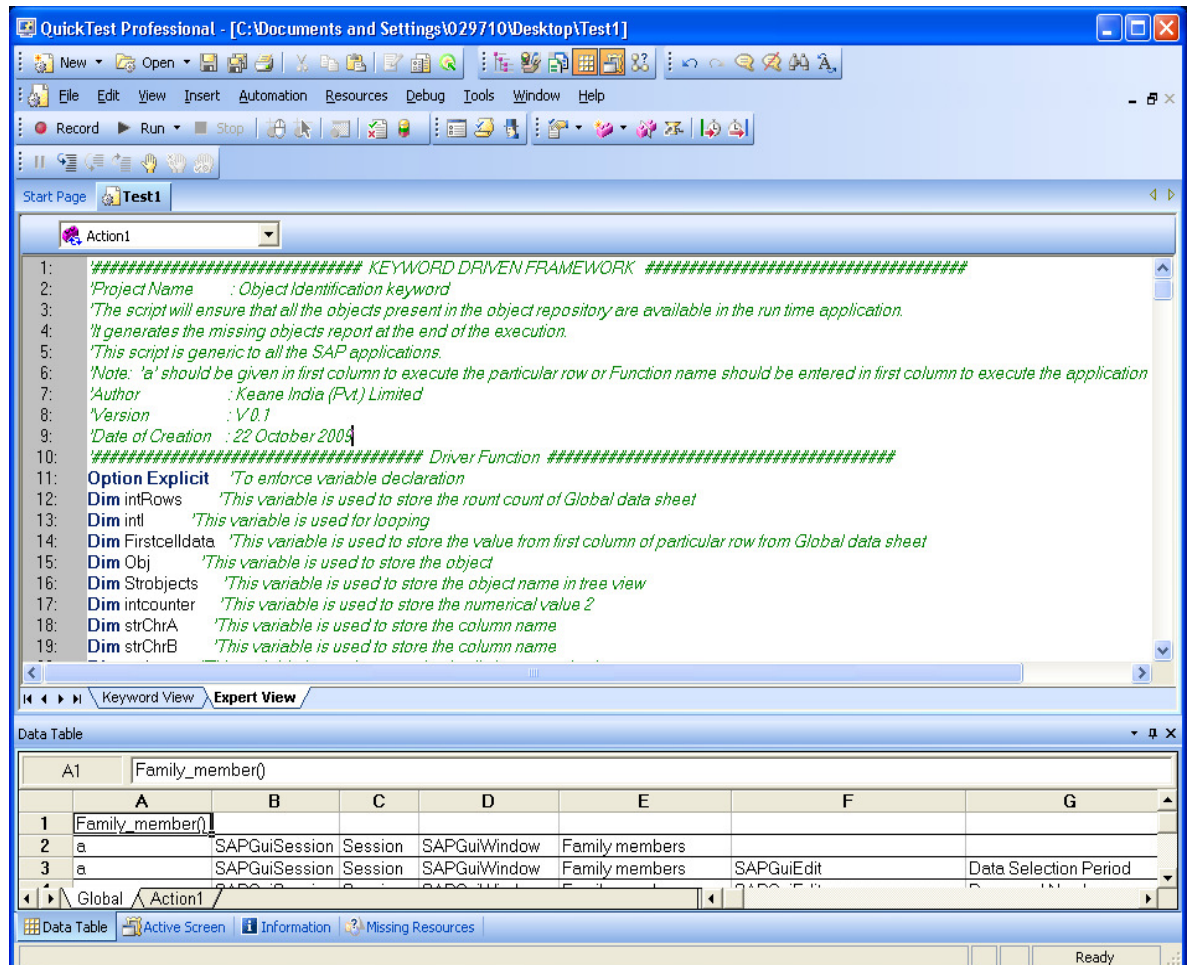
E.g. Family member() function is as shown below :

```
Function Family_member()  
SAPGuiSession("Session").SAPGuiWindow("SAP Easy Access").Maximize  
SAPGuiSession("Session").SAPGuiWindow("SAP Easy Access").SAPGuiTree("TableTreeControl").ActivateNode  
"SAP menu;Human Resources;Information System;Reports;Personnel Management;Administration;Employee;Family  
Members"  
End Function
```

This function is used to navigate from the home page (Session) to Family member screen before verifying for the objects in the 'Family Members' screen.

3.2 Test object identification script

Object identification linear script should be pasted in the expert view window of QTP as shown below.



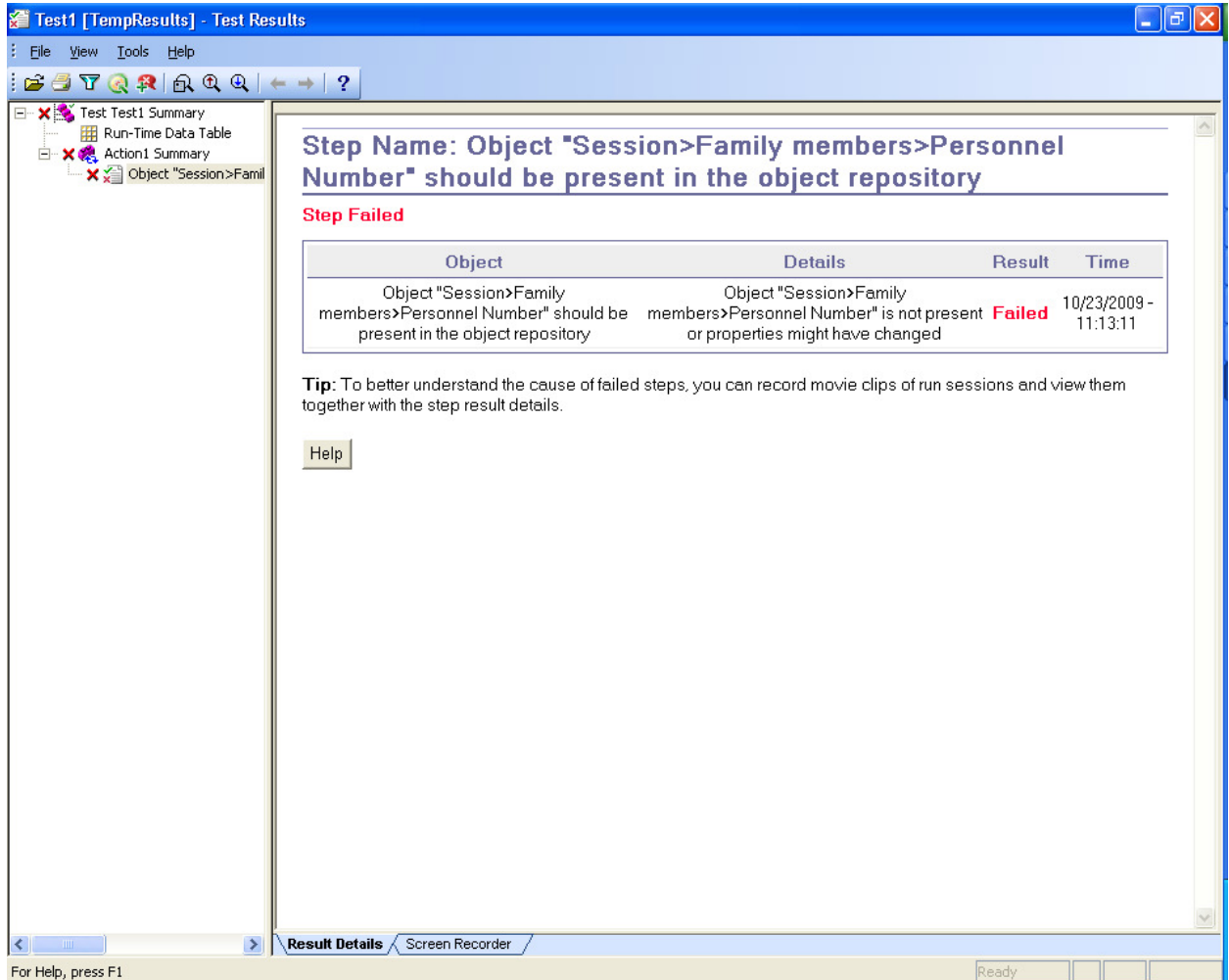
3.3 Shared Object repository

Object repository needs to be associated with the scripts.

3.4 Result

After executing the script, the test results will display the report for all the missing objects in repository (i.e. Object which doesn't exist or objects with the property changed).

E.g.:



Test1 [TempResults] - Test Results

File View Tools Help

Test Test1 Summary
Run-Time Data Table
Action1 Summary
Object "Session>Famili

Step Name: Object "Session>Family members>Personnel Number" should be present in the object repository

Step Failed

Object	Details	Result	Time
Object "Session>Family members>Personnel Number" should be present in the object repository	Object "Session>Family members>Personnel Number" is not present or properties might have changed	Failed	10/23/2009 - 11:13:11

Tip: To better understand the cause of failed steps, you can record movie clips of run sessions and view them together with the step result details.

[Help](#)

Result Details / Screen Recorder

For Help, press F1

Ready

Once the report is generated, only the missing objects need to be added to the repository before executing the regression tests.

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