SAP Test Object Identification Plug-in

Version 1.0

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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.
SAP test object identification - Plug in

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.:

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Family members</td>
<td>SAPGuiSession</td>
<td>SAPGuiWindow</td>
<td>Family members</td>
<td>SAPGuiEdit</td>
<td>Date Selection Period</td>
</tr>
<tr>
<td>2</td>
<td>a</td>
<td>SAPGuiSession</td>
<td>SAPGuiWindow</td>
<td>Family members</td>
<td>SAPGuiEdit</td>
<td>Employment status</td>
</tr>
<tr>
<td>3</td>
<td>a</td>
<td>SAPGuiSession</td>
<td>SAPGuiWindow</td>
<td>Family members</td>
<td>SAPGuiEdit</td>
<td>Employment status</td>
</tr>
<tr>
<td>4</td>
<td>a</td>
<td>SAPGuiSession</td>
<td>SAPGuiWindow</td>
<td>Family members</td>
<td>SAPGuiEdit</td>
<td>School type</td>
</tr>
<tr>
<td>5</td>
<td>a</td>
<td>SAPGuiSession</td>
<td>SAPGuiWindow</td>
<td>Family members</td>
<td>SAPGuiEdit</td>
<td>Certificate</td>
</tr>
<tr>
<td>6</td>
<td>a</td>
<td>SAPGuiSession</td>
<td>SAPGuiWindow</td>
<td>Family members</td>
<td>SAPGuiEdit</td>
<td>Personal subarea</td>
</tr>
<tr>
<td>7</td>
<td>a</td>
<td>SAPGuiSession</td>
<td>SAPGuiWindow</td>
<td>Family members</td>
<td>SAPGuiEdit</td>
<td>Education and training</td>
</tr>
<tr>
<td>8</td>
<td>a</td>
<td>SAPGuiSession</td>
<td>SAPGuiWindow</td>
<td>Family members</td>
<td>SAPGuiEdit</td>
<td>Person selection period</td>
</tr>
<tr>
<td>9</td>
<td>a</td>
<td>SAPGuiSession</td>
<td>SAPGuiWindow</td>
<td>Family members</td>
<td>SAPGuiEdit</td>
<td>Type of family membership</td>
</tr>
<tr>
<td>10</td>
<td>a</td>
<td>SAPGuiSession</td>
<td>SAPGuiWindow</td>
<td>Family members</td>
<td>SAPGuiEdit</td>
<td>SAP List Viewer</td>
</tr>
</tbody>
</table>

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

E.g.:

A1: [Family member]

A2: SAPGuiSession Session SAPGuiWindow Family members
A3: a SAPGuiSession Session SAPGuiWindow Family members SAPGuiEdit Date Selection Period
A4: a SAPGuiSession Session SAPGuiWindow Family members SAPGuiEdit Employment status
A5: a SAPGuiSession Session SAPGuiWindow Family members SAPGuiEdit School type
A6: a SAPGuiSession Session SAPGuiWindow Family members SAPGuiEdit Certificate
A7: a SAPGuiSession Session SAPGuiWindow Family members SAPGuiEdit Personal subarea
A8: a SAPGuiSession Session SAPGuiWindow Family members SAPGuiEdit Education and training
A9: a SAPGuiSession Session SAPGuiWindow Family members SAPGuiEdit Person selection period
A10: a SAPGuiSession Session SAPGuiWindow Family members SAPGuiEdit Type of family membership
A11: a SAPGuiSession Session SAPGuiWindow Family members SAPGuiEdit SAP List Viewer
A12: Education
A13: a SAPGuiSession Session SAPGuiWindow Education and training SAPGuiEdit Employment status
A14: a SAPGuiSession Session SAPGuiWindow Education and training SAPGuiEdit School type
A15: a SAPGuiSession Session SAPGuiWindow Education and training SAPGuiEdit Certificate
A16: a SAPGuiSession Session SAPGuiWindow Education and training SAPGuiEdit Cost center
A17: a SAPGuiSession Session SAPGuiWindow Education and training SAPGuiEdit Personal subarea
A18: a SAPGuiSession Session SAPGuiWindow Education and training SAPGuiEdit Education and training
A19: a SAPGuiSession Session SAPGuiWindow Education and training SAPGuiEdit Person selection period
A20: a SAPGuiSession Session SAPGuiWindow Education and training SAPGuiEdit Other period
A21: a SAPGuiSession Session SAPGuiWindow Education and training SAPGuiEdit Today
A22: a SAPGuiSession Session SAPGuiWindow Education and training SAPGuiEdit Up to today
A23: Education Back

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• ‘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:

```vba
Function Family_member()
SAPGuiSession("Session").SAPGuiWindow("SAP Easy Access").Maximize
SAPGuiSession("Session").SAPGuiWindow("SAP Easy Access").SAPGuiTree("TableTreeControl").ActivateNode
"ZAP 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.:
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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