

eCATT Part 4 – Modularizing Script



Applies to:

SAP 5.0

Summary

In the Part I of eCATT series, we covered the introduction to eCATT, its prerequisites, features, when to go for SAP GUI mode recording and eCATT's main objects. In the Part 2 of eCATT we covered just the recording and replay of the script. In the Part 3 of eCATT article learnt as to how to parameterize a script.

In this article we learn as to how to modularize a script, call another script with the use of REF command and use of SAPGUI (Attach) command.

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Objective

In this document, we will explore the following features of eCATT:

- Calling another script with the use of REF command.
- Modularizing a script.
- Use of SAPGUI (Attach)

Prerequisites

You have gone through the following:

1. eCATT Part 1 - An Introduction
2. eCATT Part 2 - Recording a Scenario
3. eCATT Part 3 - Parameterization of Script

Scenario

The scenario which we will consider in this document is the updation of the CRM Product description. To update a product, we first need to **search** the product and then **update** it. In case if we need to update multiple items, then search a product becomes a common step which we need to use and in this article we will see how this is achieved.

Let's create two scripts *Z09_DemoUpdateProduct* and *Z09_DemoSearchProduct* and also parameterize them. Ensure that you use the same variable I_PRODUCT_ID and I_PRODUCT_DESC. The Steps to be followed are given below for each of the script for recording.

First let's create the *Z09_DemoSearchProduct* test script. The steps are given below and you can refer the article **eCATT Part 2 - Recording a Scenario** as to how to record a script.

1. Login to SAP CRM system. Enter transaction = COMMPR01.
2. Enter the Product ID = z09_ecatt1. Click on Start Button.
3. In the resultant, click on the product ID. The Material Change screen opens up. Just leave it at this stage. Do NOT close the screen.

Now, let's create the *Z09_DemoUpdateProduct* test script. The steps are given below and you can see that the last two steps are the only different steps when compared to the steps mentioned in the test script *Z09_DemoSearchProduct*.

Z09_DemoUpdateProduct

1. Login to SAP CRM system. Enter transaction = COMMPR01.
2. Enter the Product ID = z09_ecatt1. Click on Start Button.
3. In the resultant, click on the product ID. The Material Change screen opens up.
4. Update the Product Description in the Description field.
5. Click on Save Button.

Procedure

Lets start now recording the Z09_DemoUpdateProduct script.

1. Login to the SAP CRM System. Enter the Transaction = SECATT.
2. Enter the Test Script = Z09_DemoUpdateProduct and click on Create Object Button or Press F5 Key.
3. In the Attributes-->General Tab, enter the following:
 - Title = Demo to Update a product.
 - Component = CRM-MD-PRO.
 - System Data Container = Z09_DEMOUPDATEPRODUCT
 - Target System = NONE.
4. Click on Pattern Button.
 - Choose Group = Test Script References.
 - Command = REF
 - Test Script = Z09_DEMOSEARCHPRODUCT.
 - Interface = Z09_DEMOSEARCHPRODUCT_1.
 - Target System = None.

5. Click on Continue Button. Click on Parameter<-->Command Interface button and the Command Editor screen refreshes and the REF command is included as shown in figure.

Command Interface	Description	Value	Group	Ref. Ty...	Reference
Z09_DEMOSEARCHPRODUCT_1	Z09_SEARCHPRODUCT	<INITIAL>	REF	R	Z09_DEMOSEARCHPRO...

6. Click on Edit-->Predefine Target System Instance. Choose the RFC destination. This would depend on the RFC destination defined in your landscape. (Note if you don't do this step you will run into error like ' RFC:You have no authorization to create destination ecatt_fm sap994_510_e ')

7. Now let's execute the script Z09_DEMOSEARCHPRODUCT so that the Material Edit screen opens up and we can continue our further recording of the script on the same session. When we execute the Z09_DEMOSEARCHPRODUCT script we will ensure that the execution of the above script doesn't close that session. Hence follow the steps carefully now.
8. Click on Execute the Script Button. (Press F8 Key)
9. In the Start Options - Test Script : Z09P_DemoUpdateProduct screen click on UI Control and choose the option Do NOT Close created session.

Start Options - Test Script: Z09_DEMOUPDATEPRODUCT (1)

Test Script

Shared Parameter UI Control Breakpoints

TCD

Start Mode for Command TCD

Start Mode Overwrites Mode If TCD Is Run

SAPGUI

Execution of All SAPGUI Commands in a Single Session per Destination

Highlight the Called GUI Elements

Minimize eCATT GUI

Processing Mode for SAPGUI

Error Mode for SAPGUI

Stop When

Stop in Debugger

Close GUIs

Save Screenshots

10. Click on Execute Button. (Press F8 Key).
11. A saplogon popup appears saying "A script is trying to attach to the GUI". Click on OK Button. The Z09_DEMOSEARCHPRODUCT test script plays back and it opens the Material Edit Page. Also the eCatt log says successful. Click on Back button (F3 Key) twice and go back to the Test Script Z09_DEMOUPDATEPRODUCT.

12. Click on Pattern Button.
 - Choose Group = UI Control.
 - Command = SAPGUI (Attach)
 - Interface = [Generated]

Insert statement

Group: UI Control

Command: SAPGUI (Attach)

Interface: [[GENERATED]]

✓ ✗ ?

13. Click on Continue Button. The Record SAP GUI Command screen appears.

Record SAP GUI Command

Generation of SAPGUI Commands: Manual / Automatic

Manual Generation

Automatic Generation

Per Dialog Step After Every Screen Change

For Each Transaction For Each Session

Start Recording Cancel

14. Click on Start Recording Button.
15. A saplogon popup appears saying "A script is trying to attach to the GUI". Click on OK Button.
16. Now the Select Sessions for Current System pops up. Click on the Record Button. and click on Continue button further.

Select Sessions for Current System

Select the Sessions to Be Recorded

Display	Record	SAP System	Session ID	Session ID for Script	Connection	Connection ID for Script	Is Loadbalanced	Message Server	Logon Group	Appl
☞	<input checked="" type="checkbox"/>	PCR	ses[1]	ses[1]	/app/con[0]	/app/con[0]				fms

Continue Cancel

17. A saplogon popup appears saying "A script is trying to attach to the GUI". Click on OK Button.

18. Go to the previously opened Material Edit Screen and change the Product Description and save the Product and close the session.

Material Change: Z09_ECATT1

Material: Z09_ECATT1
Description: z09_eCatt1 Updated

Product Status

Status	Active/Inact.
To archive	<input type="checkbox"/>
Locked	<input type="checkbox"/>
Deleted	<input type="checkbox"/>

Descriptions

Language	Product Description
English	z09_eCatt1 Updated

19. Click on Stop Recording. Observe the Command Editor gets updated.

Editor Attributes

Command Interface	Description	Value	Group	Ref. Ty...	Reference
SAPGUI_1	COMMPR01 - SAPLBUS_LOCAT	<INITIAL>	SAPGUI	G	
Z09_DEMOSEARCHPRODUCT_1	Z09_SEARCHPRODUCT	<INITIAL>	REF	R	Z09_DEMOSEARCHPRO...

REF (Z09_DEMOSEARCHPRODUCT , Z09_DEMOSEARCHPRODUCT_1).
SAPGUI (SAPGUI_1).

20. Now Parameterize the Product Description field and your script is ready to be played back !.

eCATT Log Display 000000103

000000103 Test Script Z09_DEMOUPDATEPRODUCT Version 1 - SECATT [W/o Interruption] [40 sec]

- ▶ PCR 510 RKJAIN E 700 fmsap994 Windows NT MSSQL 10/06/2007 23:19:11
- ▶ eCATT Identification of Caller
- ▶ Startprofil XML-DATA-01
- ▼ Z09_DEMOUPDATEPRODUCT [40.14 sec] Version 1 Z09_DEMOUPDATEPRODUCT
 - ▶ Target Sys Direct Entry of RFC Destination->PCR510->PCR510 (PCR 510 RKJAIN E 700 fmsap994 Windows
 - ▶ Zielsystem Direct Entry of RFC Destination->PCR510->PCR510 Exception: DESTINATION_NOT_EXIST
 - ▶ ▶ IMPORT Z09_DEMOUPDATEPRODUCT 23:19:11
 - ▶ REF Z09_DEMOSEARCHPRODUCT VERSION 1 [24.73 sec] Z09_SEARCHPRODUCT
 - ▶ SAPGUI SAPGUI_1 [10.91 sec]
 - ▶ ▶ EXPORT Z09_DEMOUPDATEPRODUCT 23:19:47

Result

You have modularized the script and also seen how it can be called from another script.

Related Content

http://help.sap.com/saphelp_nw2004s/helpdata/en/8e/df9f40eb72371be10000000a1550b0/frameset.htm

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