



HP ALM Total Quality Control

USER MANUAL

Program : SingTel-Optus

Project : Optus – IVS BBAU

Document Identification

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1. Introduction

The HP ALM TQC tool is an excel-macro workbook developed with VBA and SQL programming language. The tool fetches passed and failed Test Case Execution Records (TCER) data from selected Test Lab folders, and identifies test cases that do not have attachments or not linked to defects. The tool also fetches all defects data from selected Test Plan folders, and identifies defects that do not have attachments or not linked to test cases. The tool suggests corrective actions to be performed to the user for such test cases and defects.

Purpose

The purpose of this document is to:

1. Demonstrate how the tool can be used by the user
2. Explain how the tool works
3. Provide an overview of all worksheets present in the tool

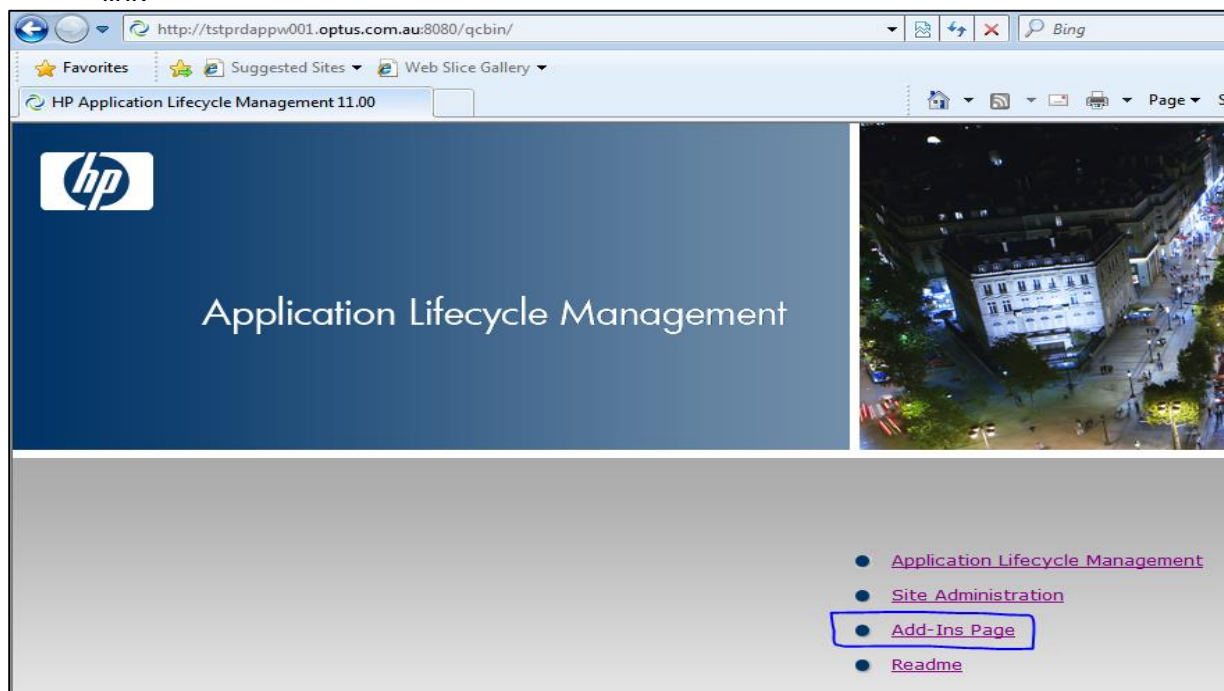
2. Prerequisites

The tool will work only if following conditions are met:

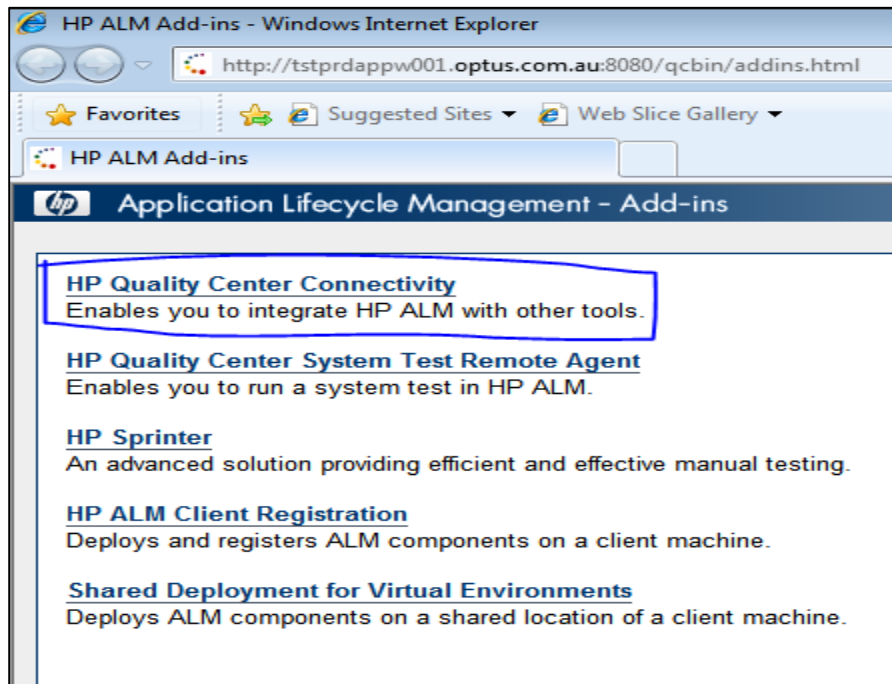
1. HP ALM Add-Ins “HP Quality Center Connectivity” and “HP ALM Client Registration” are installed in your machine.
2. The excel workbook is not changed by deleting rows/columns or any worksheet.

Instructions to install HP ALM Add-Ins

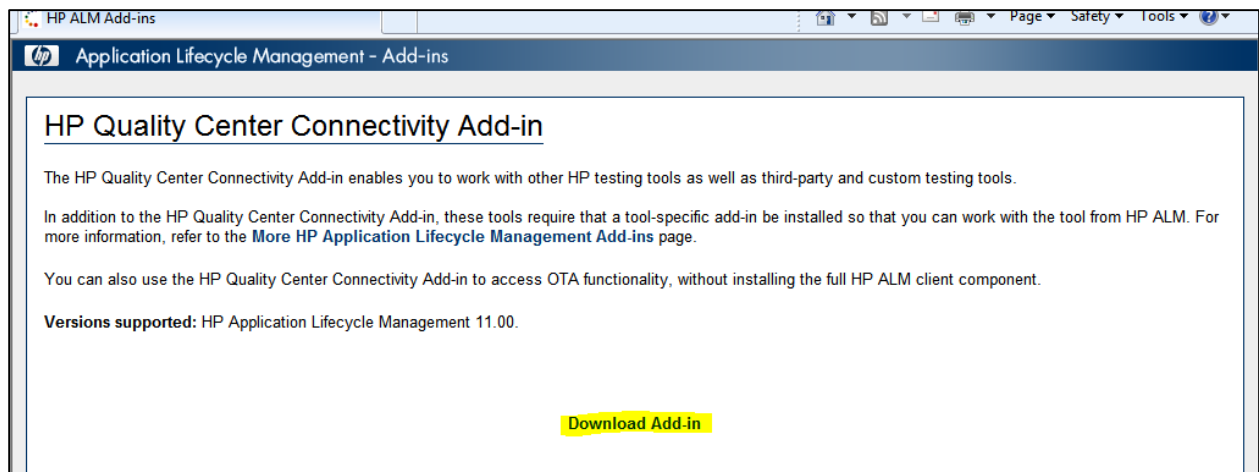
1. Go to the url <http://tstprdappw001.optus.com.au:8080/qcbin/> , and click Add-Ins Page link



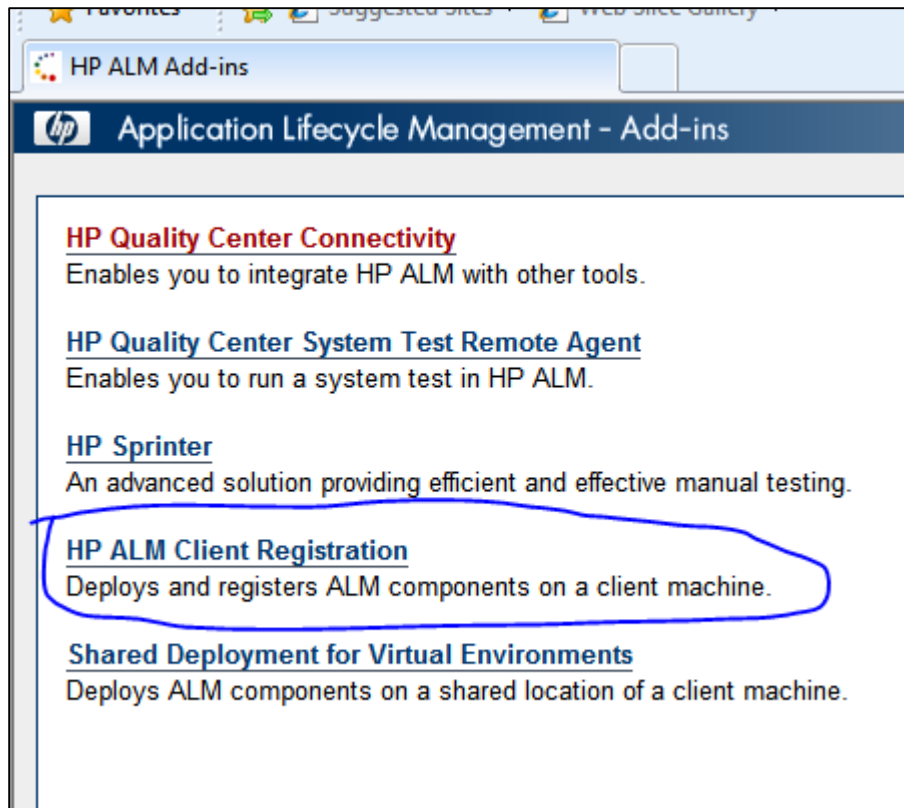
2. Click the “HP Quality Center Connectivity” Add-in



- Click “Download Add-in” to install



3. Once the above add-in is installed then click “HP ALM Client Registration” in the Add-in page



4. Click “Register HP ALM Client”

Required Permissions:

You must have the following file system permissions:

- Full read and write permissions on the **HP\ALM-Platform** deployment folder. This is located at:
 - **Windows Vista and Windows 7:** %ALLUSERSPROFILE%
 - **Windows XP:** C:\Documents and Settings\All Users\Application Data
- Full read and write permissions to the **Temp** (%TEMP% or %TMP%) directory. The installer program writes installation and log files to this directory. This is generally located at C:\Documents and Settings\<username>\Local Settings\Temp.

You must have full read and write permissions on the following registry keys:

- HKEY_CLASSES_ROOT
- HKEY_CURRENT_USER\Software
- HKEY_LOCAL_MACHINE\SOFTWARE

Versions supported: HP Application Lifecycle Management 11.00.

[Register HP ALM Client](#)

Register HP ALM Site Administration Client

Note: Admin user credentials will be required on your machine to install the above add-ins. If you do not have admin access then Tech M TIM team can install the add-ins.

Raise “**Freeware – Pre-approved Software**” Hub request for TIM to install the above Add-Ins.

If you are located at non-techm office, then check with respective technical team for installing the add-ins

3. How to use the tool

Save the macro enabled excel workbook in local drive. Follow the below steps to use the tool:

1. Worksheet 1-ALM Login: To find the required Test Lab Folder Id for your project

- i. Enter your HP ALM credentials, and project info.

Enter your HP ALM credentials:-	
HP ALM Url:	http://tstprdappw001.optus.com.au:8080/qcbin
Login Name:	
Password:	
Domain:	
Project:	
Test Lab Folder Id (for TCER report):	
Test Plan Folder Id (for Defects report):	

Test LAB Folder Id	Reset All	Reset Folder List
--------------------	-----------	-------------------

- ii. Click "Test LAB Folder Id" button to fetch all Folder Ids and name for the project

Enter your HP ALM credentials	
HP ALM URL:	http://tstprdappw001.optus.com.au:8080/qcbin (eg: http://tstprdappw001.optus.com.au:8080/qcbin)
Login Name:	anand acharya (eg: anand acharya)
Password:	optus123 (eg: optus123)
Domain:	ACTIVE_PROJECTS (eg: ACTIVE_PROJECTS)
Project:	TG004_EPL (eg: TG004_EPL)
Test Lab Folder Id (for TCER TQC):	
Test Plan Folder Id (for Defects TQC):	

Test Lab Folder	Reset Folders	Reset A
Test Plan Folder		

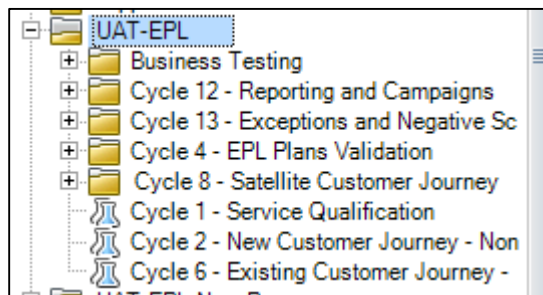
Test Lab Folder Name	Folder Id
deleted	AAAAAA
Business Testing	AAAAAAA
UAT	AAAAAAAAB
Test	AAAAAAAAC
GSMIS Changes	AAAAAAAAD
Baseline	AAAAAAAADAAA
Regression	AAAAAAAADAAB
Progression	AAAAAAAADAAC
Cycle 1 - Apollo Extract	AAAAAAAADAE
Cancelled Monthly	AAAAAAAADAF
Close Monthly	AAAAAAAADAG
Cycle 2 - Apollo Extract	AAAAAAAADAH

Microsoft Excel
All test lab folders fetched
OK

Index 1-ALM Login 2-TCER TQC 3-Defects TQC TCER data ...

- iii. Search the test lab folder Id for the folder name

For example, if you want folder id of the folder “UAT-EPL” in test lab, then search with that folder name in the folder list fetched in excel



0	Release_3_UAT	AAAAABAABAAD
1	MAC	AAAAABAABAADAAA
2	InRoom_Viewing	AAAAABAABAADAAB
3	Regression	AAAAABAABAADAAC
4	3B	AAAAABAABAADAAD
5	UAT-EPL	AAAAABAAC
6	Cycle 4 - EPL Plans Validation	AAAAABAACAAA
7	Cycle 12 - Reporting and Campaigns	AAAAABAACAAB
8	Cycle 13 - Exceptions and Negative S	AAAAABAACAAC
9	Cycle 8 - Satellite Customer Journey	AAAAABAACAAD
0	Business Testing	AAAAABAACAAE
1	UAT-EPL-New Prep	AAAAABAAD
2	Cycle 5 - EPL Registration and EPL El	AAAAABAADAAA

Find and Replace

Find Replace

Find what: UAT-EPL

Find All

The folder id for the required test lab folder is “AAAAABAAC”. Enter this folder id in the credentials section.

If there are many folders with same name, then check that the subfolders below the main folder are same as present in Test Lab to ensure that correct main folder id is selected

Enter your HP ALM credentials:-	
HP ALM Url:	http://tstprdappw001.optus.com.au:8
Login Name:	anand acharya
Password:	optus123
Domain:	ACTIVE_PROJECTS
Project:	TG004_EPL
Test Lab Folder Id (for TCER report):	AAAAABAAC%
Test Plan Folder Id (for Defects report):	
Test LAB Folder Id	

Append the folder id with “%” to fetch test sets of all the subfolders too. If “%” is not appended then test sets of only the main folder will be fetched.

- iv. Similarly, click “Test PLAN Folder Id” button to fetch all test plan folder Ids and name for the project

Test Plan Folder Name	Folder Id
Subject	AAAAAP
EPL SMB Satellite	AAAAAPAAA
BRT	AAAAAPAAAAK
SNOW	AAAAAPAAAAKAAA
UAT	AAAAAPAAAAAL
Release_3_UAT	AAAAAPAAAAALAI
MAC	AAAAAPAAAAALAIAB
In_Room_Viewing	AAAAAPAAAAALAIAC
Regression	AAAAAPAAAAALAIAD
3B	AAAAAPAAAAALAIAD

- v. Search the test plan folder id for the folder name and enter it in the credentials section

Test Plan Folder Name	Folder Id
EPL Pre-Order	AAAAAPAAG
Mobile	AAAAAPAAGAAA
Fixed	AAAAAPAAGAAB
MBB	AAAAAPAAGAAC
ET to SDP IC	AAAAAPAAGAAD
UAT-EPL	AAAAAPAAH
Cycle 1 - Service Qualification	AAAAAPAAHAAA
Cycle 2 - New Customer Journey - Non-	AAAAAPAAHAAB
Cycle 6 - Existing Customer Journey - N	AAAAAPAAHAAC
Cycle 4 - EPL Plans Validation	AAAAAPAAHAAD
EPL Subscription Flow Validation	AAAAAPAAHAADAAA
EPL Eligible Plan Validation - (Only SOS	AAAAAPAAHAADAAB

Enter your HP ALM credentials:-	
HP ALM Url:	http://tstprdappw001.optus.com.au:80
Login Name:	anand acharya
Password:	optus123
Domain:	ACTIVE_PROJECTS
Project:	TG004_EPL
Test Lab Folder Id (for TCER report):	AAAAABAAC%
Test Plan Folder Id (for Defects report):	AAAAAPAAH%

NOTE: The main parent folder id will be always 9 characters. Subfolders of the parent folder will be 12 characters, and subfolders of the subfolder will be 15 characters and so on. So, 3 characters are added to the folders hierarchy. This way you can identify your required test lab and plan folders/sub-folders.

2. Worksheet 2-TCER TQC: Generate TCER TQC report for passed and failed test cases for the selected test lab folder test sets

- i. Click "Generate TCER TQC" button to display all test cases that do not have attachments or not linked to defects, and display report of different actions to be performed.

A	B	C	D	E	F	G	H	I	J	K
Generate TCER TQC			TEST_CYCLE	TEST_ID	TEST_NAME	TESTER	TEST_STATU	ATTACHMEN	DEFECT_IL	DEFECT_S'A
TEST_CYCLE	(All)									
TEST_STATUS	(All)									
Row Labels	Count of ACTIONS									
(blank)										
(blank)										
Grand Total										

Generate TCER TQC		TEST_CYCLE	TEST_ID	TEST_NAME	TESTER	TEST_STATU	ATTN
TEST_CYCLE	(All)	Cycle 10 - Exi	4888	TC_UAT_NBI	shyam sunda	Passed	
TEST_STATUS	(All)	Cycle 10 - Exi	4889	TC_UAT_SMI	shyam sunda	Passed	
Actions / Testers		Cycle 10 - Exi	4890	TC_UAT_SMI	shyam sunda	Passed	
Count of ACTIONS		Cycle 10 - Exi	4891	TC_UAT_CMI	shyam sunda	Passed	
(blank)		Cycle 10 - Exi	4894	TC_UAT_CMI	shyam sunda	Passed	
(blank)		Cycle 10 - Exi	4897	TC_UAT_CMI	shyam sunda	Passed	
Add attachment to test case or test step		Cycle 10 - Exi	4899	TC_UAT_CMI	shyam sunda	Passed	
vinay kumar yuvaraj		Cycle 10 - Exi	4901	TC_UAT_SMI	shyam sunda	Passed	
shyam sundar		Cycle 10 - Exi	4905	TC_UAT_CMI	shyam sunda	Passed	
puneeth byatha		Cycle 10 - Exi	4540	TC_UAT_EPL	shyam sunda	Passed	
bharathi c		Cycle 10 - Exi	4541	TC_UAT_EPL	shyam sunda	Passed	
sindhu prasad		Cycle 10 - Exi	4544	TC_UAT_EPL	shyam sunda	Passed	
anand acharya		Cycle 10 - Exi	4548	TC_UAT_EPL	shyam sunda	Passed	
Link defect to test case		Cycle 11 - Bill	4550	TC_UAT_EPL	shyam sunda	Passed	
vinay kumar yuvaraj		Cycle 11 - Bill	4551	TC_UAT_EPL	shyam sunda	Passed	
sindhu prasad		Cycle 11 - Bill	4552	TC_UAT_EPL	shyam sunda	Passed	
Update test case status to Passed or link new defect		Cycle 11 - Bill	4554	TC_UAT_EPL	shyam sunda	Passed	
bharathi c		Cycle 11 - Bill	4555	TC_UAT_EPL	shyam sunda	Passed	
Update status of linked defect to closed		Cycle 11 - Bill	4556	TC_UAT_EPL	shyam sunda	Passed	
shyam sundar		Cycle 11 - Bill	4557	TC_UAT_EPL	shyam sunda	Passed	
anand acharya		Cycle 11 - Bill	4558	TC_UAT_EPL	shyam sunda	Passed	
Grand Total		Cycle 11 - Bill	4562	TC_UAT_EPL	shyam sunda	Passed	
		Cycle 11 - Bill	4563	TC_UAT_EPL	shyam sunda	Passed	
		Cycle 11 - Bill	4566	TC_UAT_EPL	shyam sunda	Passed	

- ii. Filter out the blank actions from the report, and expand/ contract the actions name to get a detail/ compact view of the TCER TQC summary

Generate TCER TQC	
TEST_CYCLE	(All)
TEST_STATUS	(All)
Actions / Testers	
Count of ACTIONS	
+	Add attachment to test case or test step
	221
+	Link defect to test case
	5
+	Update test case status to Passed or link new defect
	1
+	Update status of linked defect to closed
	2
Grand Total	
	229

- iii. Refer the list of test cases populated at the right side for which corrective actions are required.

	B	C	D	E	F	G	H	I	J	K	L	M	N
1			TEST_CYCLE	TEST_ID	TEST_NAME	TESTER	TEST_STATU	ATTACHMEN	DEFECT_ID	DEFECT	ACTIONS		
2			Cycle 10 - Exi	4888	TC_UAT_NBI	shyam sunda	Passed				Add attachment to test case		
3	(All)		Cycle 10 - Exi	4889	TC_UAT_SMI	shyam sunda	Passed				Add attachment to test case		
4	(All)		Cycle 10 - Exi	4890	TC_UAT_SMI	shyam sunda	Passed				Add attachment to test case		
5			Cycle 10 - Exi	4891	TC_UAT_CMI	shyam sunda	Passed				Add attachment to test case		
6	Count of ACTIONS		Cycle 10 - Exi	4894	TC_UAT_CMI	shyam sunda	Passed				Add attachment to test case		
7	221		Cycle 10 - Exi	4897	TC_UAT_CMI	shyam sunda	Passed				Add attachment to test case		
8	5		Cycle 10 - Exi	4899	TC_UAT_CMI	shyam sunda	Passed				Add attachment to test case		
9	1		Cycle 10 - Exi	4901	TC_UAT_SMI	shyam sunda	Passed				Add attachment to test case		
10	2		Cycle 10 - Exi	4905	TC_UAT_CMI	shyam sunda	Passed				Add attachment to test case		
11	229		Cycle 11 - Bill	4540	TC_UAT_EPL	shyam sunda	Passed				Add attachment to test case		
12			Cycle 11 - Bill	4541	TC_UAT_EPL	shyam sunda	Passed				Add attachment to test case		

3. Worksheet 3-Defects TQC: Generate Defects TQC report for defects for the selected test plan folder test sets

- Click "Generate Defects TQC" button to display all defects that do not have attachments and not linked to test cases, and display report of different actions to be performed.

Generate Defects TQC		TEST_PHA	DEFCT_ID	SUMMAR	STATUS	DETECTED SUBJECT	ATTACHM ACTIONS
TEST_PHASE	(All)						
SUBJECT	(All)						
STATUS	(All)						
Row Labels	Count of ACTIONS						
(blank)							
(blank)							
Grand Total							

Generate Defects TQC		TEST_PHA	DEFCT_ID	SUMMAR	STATUS	DETECTED SUBJECT	ATTACHM ACTIONS
TEST_PHASE	(All)	4. UAT	56	Project EP	Closed	Shraddha Cycle 2 - New Custor A	
SUBJECT	(All)	4. UAT	56	Project EP	Closed	Shraddha Cycle 2 - New Custor Li	
STATUS	(All)	4. UAT	60	EPL UAT: C	Closed	vinay kum Cycle 1 - Service Qua A	
		4. UAT	60	EPL UAT: C	Closed	vinay kum Cycle 1 - Service Qua Li	
		4. UAT	62	EPL UAT: C	Closed	sharnav se UAT-EPL	A
		4. UAT	62	EPL UAT: C	Closed	sharnav se UAT-EPL	Li
		4. UAT	73	EPL UAT -	Closed	Pradeep NEPL Eligible Plan Vali A	
		4. UAT	73	EPL UAT -	Closed	Pradeep NEPL Eligible Plan Vali Li	
		4. UAT	76	EPL UAT: C	Closed	Pradeep NEPL Subsci Y	Li
		4. UAT	77	EPL UAT: C	Closed	sharnav se UAT-EPL	A
		4. UAT	77	EPL UAT: C	Closed	sharnav se UAT-EPL	Li
		4. UAT	78	Project EP	Closed	Shraddha UAT-EPL Y	Li
		4. UAT	93	EPL UAT: C	Closed	vinay kum Cycle 1 - S Y	Li
		4. UAT	94	EPL UAT: C	Closed	vinay kum Cycle 1 - S Y	Li
		4. UAT	96	EPL UAT: C	Closed	Pradeep N Cycle 2 - NY	Li
		4. UAT	97	EPL UAT: C	Closed	vinay kum EPL Eligibl Y	Li
		4. UAT	103	EPL UAT: C	Closed	Shraddha Cycle 4 - E Y	Li
		4. UAT	112	Not able t	Closed	vinay kum EPL Eligibl Y	Li
		4. UAT	125	EPL_UAT: C	Closed	vinay kum EPL Eligibl Y	Li
		4. UAT	126	Not able t	Closed	vinay kum EPL Eligibl Y	Li
		4. UAT	127	EPL UAT: C	Closed	Pradeep N Cycle 2 - NY	Li
		4. UAT	128	EPL UAT: C	Closed	sharnav se UAT-EPL	A
		4. UAT	128	EPL UAT: C	Closed	sharnav se UAT-EPL	Li
		4. UAT	132	EPL UAT: C	Closed	Pradeep N Cycle 2 - New Custor A	
		4. UAT	132	EPL UAT: C	Closed	Pradeep N Cycle 2 - New Custor Li	

- ii. Filter out the blank actions and expand/contract actions name to change the view of the report

Generate Defects TQC	
TEST_PHASE	(All) ▼
SUBJECT	(All) ▼
STATUS	(All) ▼
Actions / Testers	Count of ACTIONS
+ Add attachment to defect	57
+ Link defect to testcase or testplan or requirement	229
Grand Total	286

- iii. Refer the list of defects populated at the right side for which corrective actions are required.

TEST_PHASE	DEFECT_ID	SUMMARY	STATUS	DETECTED SUBJECT	ATTACHMENTS	ACTIONS
4. UAT	56	Project EP Closed	Shraddha	Cycle 2 - New Custor	Add attachment to defect	
(All) ▼	4. UAT	56	Project EP Closed	Shraddha	Cycle 2 - New Custor	Link defect to testcase or testplan or requirement
(All) ▼	4. UAT	60	EPL UAT: C Closed	vinay kum	Cycle 1 - Service Qua	Add attachment to defect
(All) ▼	4. UAT	60	EPL UAT: C Closed	vinay kum	Cycle 1 - Service Qua	Link defect to testcase or testplan or requirement
	4. UAT	62	EPL UAT: C Closed	sharnav se	UAT-EPL	Add attachment to defect
Count of ACTIONS	4. UAT	62	EPL UAT: C Closed	sharnav se	UAT-EPL	Link defect to testcase or testplan or requirement
57	4. UAT	73	EPL UAT - Closed	Pradeep N	EPL Eligible Plan Vali	Add attachment to defect
229	4. UAT	73	EPL UAT - Closed	Pradeep N	EPL Eligible Plan Vali	Link defect to testcase or testplan or requirement
286	4. UAT	76	EPL UAT: C Closed	Pradeep N	EPL Subsci Y	Link defect to testcase or testplan or requirement
	4. UAT	77	EPL UAT: C Closed	sharnav se	UAT-EPL	Add attachment to defect
	4. UAT	77	EPL UAT: C Closed	sharnav se	UAT-EPL	Link defect to testcase or testplan or requirement

4. **Worksheet TCER data:** contains all the passed and failed test cases for the test sets fetched from HP ALM for selected test lab folder and subfolders. This sheet is the master data sheet and should not be altered. Any manual changes done to this sheet may result in error while running the tool

TEST_CYCLE	TEST_ID	TEST_NAME	TESTER	TEST_STATUS	ATTACHMENT	DEFECT_ID	DEFECT_STATUS	Summary	
2	Cycle 10 -	4888	TC_UAT_N shyam sur	Passed				Total Pass	487
3	Cycle 10 -	4889	TC_UAT_S shyam sur	Passed				Total Pass with attachment	274
4	Cycle 10 -	4890	TC_UAT_S shyam sur	Passed				Total Pass w/o attachment	213
5	Cycle 10 -	4891	TC_UAT_C shyam sur	Passed				Total Fail	10
6	Cycle 10 -	4894	TC_UAT_C shyam sur	Passed				Total Fail with attachment	2
7	Cycle 10 -	4897	TC_UAT_C shyam sur	Passed				Total Fail w/o attachment	8
8	Cycle 10 -	4899	TC_UAT_C shyam sur	Passed				Total Fail w/o linked defect	5
9	Cycle 10 -	4901	TC_UAT_S shyam sur	Passed					
10	Cycle 10 -	4905	TC_UAT_C shyam sur	Passed					
11	Cycle 11 -	4540	TC_UAT_E shyam sur	Passed					
12	Cycle 11 -	4541	TC_UAT_E shyam sur	Passed					

5. **Worksheet Defects data:** contains all the defects and linked defects that are fetched from HP ALM for the selected test plan folder and subfolders. This sheet is the master defects sheet and should not be altered. Any manual changes done to this sheet may result in error while running the tool.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	TEST_PHA	DEFECT_ID	SUMMARY	STATUS	DETECTED	SUBJECT	ATTACHMENT	DEFECT_ID	DETECTED	LINK_TYPE			Summary	
2	4. UAT	56	Project EPL: UAT: S	Closed	Shraddha	Cycle 2 - New Customer Journey - Non		98	Shraddha	TESTCYCL			Total Defects	247
3	4. UAT	60	EPL UAT: Cycle 1 -	Closed	vinay kum	Cycle 1 - Service Qualification		98	Shraddha	TESTCYCL			Defects with attachment	190
4	4. UAT	62	EPL UAT: Cycle 2 -	Closed	sharnav s	UAT-EPL		131	Shraddha	TESTCYCL			Defects w/o attachment	57
5	4. UAT	73	EPL UAT - Cycle2 -	Closed	Pradeep N	EPL Eligible Plan Validation - (Only SC		133	Bharathi C	TESTCYCL			Linked defects count	18
6	4. UAT	76	EPL UAT: Cycle 2 -	Closed	Pradeep N	EPL Subscriptior Y		133	Bharathi C	TESTCYCL			Unlinked defect coun	229
7	4. UAT	77	EPL UAT: Cycle 1 -	Closed	sharnav s	UAT-EPL		133	Bharathi C	TESTCYCL				
8	4. UAT	78	Project EPL: UAT: S	Closed	Shraddha	UAT-EPL	Y	133	Bharathi C	TESTCYCL				
9	4. UAT	93	EPL UAT: Cycle 01	Closed	vinay kum	Cycle 1 - Service Y		139	Puneeth B	TESTCYCL				
10	4. UAT	94	EPL UAT: Cycle 01	Closed	vinay kum	Cycle 1 - Service Y		139	Puneeth B	TESTCYCL				

4. How the tool works

- In worksheet "1-ALM Login" when the Test Lab/Plan Folder Id button is clicked, a connection is established with HP ALM with the entered user credentials. Once connection is successfully established all the Test lab/Plan Folder names and Ids are fetched using SQL query and is displayed in the excel sheet.
- In worksheet "2-TCER TQC" when the Generate Report button is clicked, a connection is established with HP ALM with the entered user credentials. Once connection is successfully established, all passed and failed test cases of the test sets for entered test lab folder Id are fetched and stored in the "TCER data" worksheet. This data is used to check TQC non-compliant test cases and such test cases are copied into "2-TCER TQC" sheet along with corrective actions.
- In worksheet "3-Defects TQC" when the Generate Report button is clicked, a connection is established with HP ALM with the entered user credentials. Once connection is successfully established, defects and linked defects of the test sets for entered test plan folder Id are fetched and stored in the "Defect data" worksheet. This data is used to check TQC non-compliant defects and such defects are copied into "3-Defects TQC" sheet along with corrective actions.
- The code used to develop the tool can be viewed by clicking Visual Basic in Developer tab in the excel workbook. To add Developer tab, go to File → Options → Customize Ribbon → select Developer checkbox in list of main tabs → click OK

5. Error Handling

Different types of validations are incorporated in the tool so that user mistakes are captured. For instance if user does not enter inputs in a mandatory field then warning messages are displayed for such actions.

Enter your HP ALM credentials:-	
HP ALM Url:	
Login Name:	
Password:	
Domain:	
Project:	
Test Lab Folder Id:	

(eg: http://tstprdapw001.opt
(eg: anand acharya)
(eg: optus123)
(eg: ACTIVE_PROJECTS)
(eg: TG004_EPL)
(click "Test Lab Folder Id" butto

Test Lab Folder Id Reset

Microsoft Excel
Enter HP ALM Url
OK

Apart from above validations, if any other type of error occurs then the error type is shown in the status bar of the excel sheet.

24				
25				
26				
27				

1-ALM Login 2-TCER Summary 3-Metrics 4-Plan vs Actual

Authentication failed. Verify your user name and password

6. References

Following are some sites/ forums referred for writing VBA and SQL code to develop the tool:

<http://community.hpe.com>

<http://stackoverflow.com>

<https://msdn.microsoft.com>

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