



HP ALM Report

USER MANUAL

Program : SingTel-Optus

Project : Optus – IVS BBAU

Document Identification

Document Name	Author	Version	Issue Date
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Contents

1. Introduction	3
Purpose.....	3
2. Prerequisites.....	3
Instructions to install HP ALM Add-Ins.....	3
3. How to use the tool	6
1. Worksheet 1-ALM Login	6
2. Worksheet 2-TCER Summary	9
3. Worksheet 3-Defects Summary	11
4. Worksheet 4-Metrics.....	12
5. Worksheet 5-Plan vs Actual.....	14
6. Worksheet 6-Tester Effort.....	16
7. Worksheet TCER Data	16
8. Worksheet Defects List.....	17
4. How the tool works.....	17
5. Error Handling.....	18
6. References	19

1. Introduction

The HP ALM Reporting tool is an excel-macro workbook developed with VBA and SQL programming language. The tool fetches Test Case Execution Records (TCER) data from Test Lab folders and Defects data from Test Plan folders to an excel worksheet. These data are stored as master data and used to generate different types of summary reports and metrics in other worksheets.

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

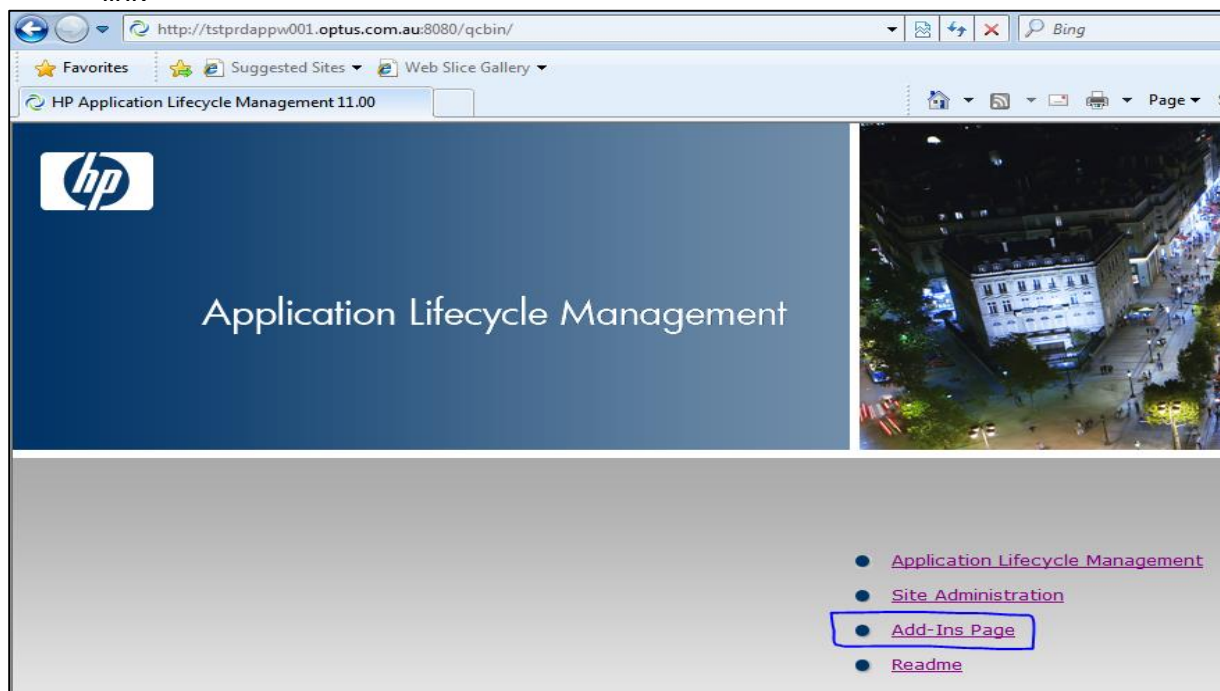
2. Prerequisites

The tool will work only if following conditions are met:

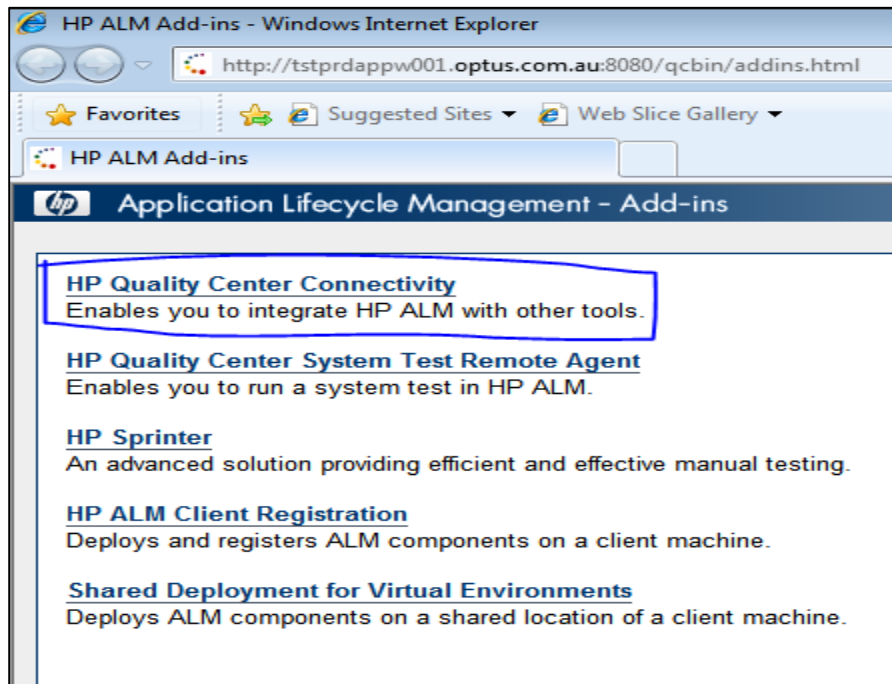
1. HP ALM Add-Ins “HP Quality Center Connectivity” and “HP ALM Client Registration” are installed in your machine.
2. The excel workbook is not changed by deleting rows/columns or by renaming any worksheet.

Instructions to install HP ALM Add-Ins

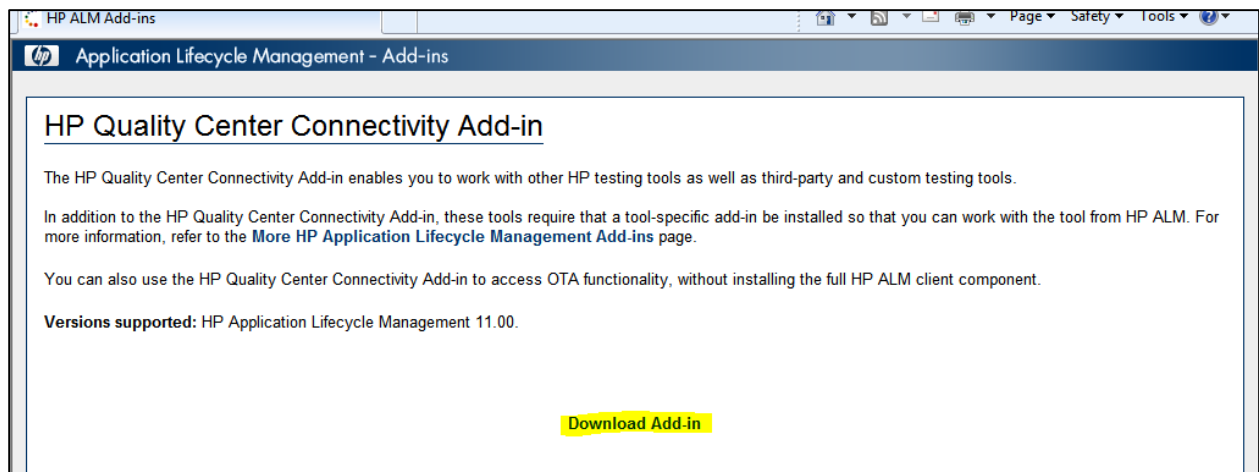
1. Go to the url <http://tstprdappw001.optus.com.au:8080/qcbin/> , and click Add-Ins Page link



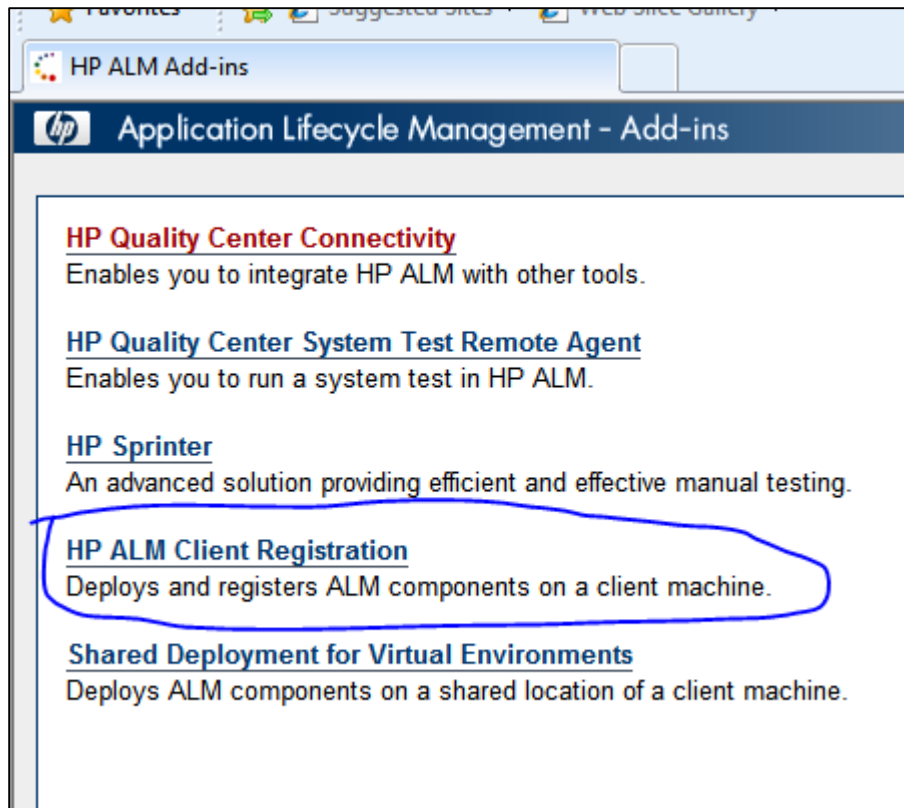
2. Click the “HP Quality Center Connectivity” Add-in



- 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):	

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

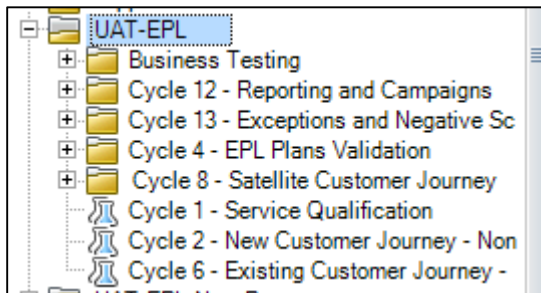
Enter your HP ALM credentials:-	
HP ALM Url:	http://tstprdappw001.optus.com.au:8080/qc (eg: http://tstprdappw001.optus.com.au:8080/qcbin)
Login Name:	anand acharya (eg: anand acharya)
Password:	optus123 (eg: optus123)
Domain:	ACTIVE_PROJECTS (eg: ACTIVE_PROJECTS)
Project:	TG004_EPL (eg: TG004_EPL)
Test Lab Folder Id (for TCER report):	(click "Test Lab Folder Id" button and enter the required folder Id eg: AAAAABAAD or AAAAABAAD%)
Test Plan Folder Id (for Defects report):	(click "Test Lab Folder Id" button and enter the required folder Id eg: AAAAAPAAN or AAAAAPAAN%)

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

Microsoft Excel
 All test lab folders fetched

- 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	AAAAABAABAADAAAB
3	Regression	AAAAABAABAADAAAC
4	3B	AAAAABAABAADAAAD
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://tstprdapw001.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

Enter your HP ALM credentials:-

HP ALM Url:	http://tstprdapppw001.optus.com.au:8080/qc	(eg: http://tstprdapppw001.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 report):	AAAAABAAC%	(click "Test Lab Folder Id" button and enter the required folder Id eg: AAAAABAAD or AAAAABAAD%)
Test Plan Folder Id (for Defects report):		(click "Test Plan Folder Id" button and enter the required folder Id eg: AAAAAPAAN or AAAAAPAAN%)

Test LAB Folder Id Reset All Re

Test PLAN Folder Id

Microsoft Excel

All folders fetched

OK

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

1-ALM Login 2-TCER Summary 3-Defects Summary 4-Metrics 5-Plan vs Actual 6-T...

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

49 EPL Pre-Order	AAAAAPAAG
50 Mobile	AAAAAPAAGAAA
51 Fixed	AAAAAPAAGAAB
52 MBB	AAAAAPAAGAAC
53 ET to SDP IC	AAAAAPAAGAAD
54 UAT-EPL	AAAAAPAAH
55 Cycle 1 - Service Qualification	AAAAAPAAHAAA
56 Cycle 2 - New Customer Journey - Non-	AAAAAPAAHAAB
57 Cycle 6 - Existing Customer Journey - N	AAAAAPAAHAAC
58 Cycle 4 - EPL Plans Validation	AAAAAPAAHAAD
59 EPL Subscription Flow Validation	AAAAAPAAHAADAAA
60 EPL Eligible Plan Validation - (Only SOS	AAAAAPAAHAADAAAB

Find and Replace

Find Replace

Find what: UAT-EPL

Find All Find Next

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 additional 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 Summary](#): Generate TCER Summary report for selected test lab folder test sets

- Click “Generate Report” button to display a summary of the test case status updated in ALM

	A	B	C
1	click "Generate Report" button to show TCER summary		
2	Generate Report		
3			
4	Test Execution Summary		Test Status ▼
5	Test Folder/Test Cycle ▼		Grand Total
6	⊕		
7	Grand Total		
8			

click "Generate Report" button to show TCER summary

Generate Report

Test Execution Summary		Test Status					
Test Folder/Test Cycle		No Run	Failed	Passed	Blocked	Not Completed	Grand Total
Business Testing		4					4
Business Testing		4					4
Cycle 12 - Reporting and Campaigns		57	13	80			150
IDW_ADW		1	13	51			65
IDW_Satellite				29			29
Reporting		56					56
Cycle 13 - Exceptions and Negative Scenarios		11		8			19
Negative Scenarios		11		8			19
Cycle 4 - EPL Plans Validation		9		116	1	1	127
EPL Eligible Plan Validation - (Only SOS/CMBS)		1		106			107
EPL Subscription Flow Validation		8		10	1	1	20
Cycle 8 - Satellite Customer Journey		10	4	176			190
Email/ SMS Verification				5			5
SAP (Satellite cancellation) and Angus Queue				10			10

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

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

Test Execution Summary		Test Status					
Test Folder/Test Cycle		No Run	Failed	Passed	Blocked	Not Completed	Grand Total
Business Testing		4					4
Business Testing		4					4
Cycle 12 - Reporting and Campaigns		57	13	80			150
IDW_ADW		1	13	51			65
IDW_Satellite				29			29
Reporting		56					56
Cycle 13 - Exceptions and Negative Scenarios		11		8			19
Negative Scenarios		11		8			19
Cycle 4 - EPL Plans Validation		9		116	1	1	127
EPL Eligible Plan Validation - (Only SOS/CMBS)		1		106			107
EPL Subscription Flow Validation		8		10	1	1	20
Cycle 8 - Satellite Customer Journey		10	4	176			190
Email/ SMS Verification				5			5
SAP (Satellite cancellation) and Angus Queue				10			10
SDP to SNOW				10			10
SNOW to SDP				10			10
Satellite Exception				4			4
Satellite Billing				8			8

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

click "Generate Report" button to show TCER summary

Generate Report							
Test Execution Summary							
Test Status							
Test Folder/Test Cycle	Passed	Failed	Blocked	Not Completed	No Run	Grand Total	
Business Testing					4	4	
Cycle 12 - Reporting and Campaigns	80	13			57	150	
Cycle 13 - Exceptions and Negative Scenarios	8				11	19	
Cycle 4 - EPL Plans Validation	116		1		1	9	127
Cycle 8 - Satellite Customer Journey	176	4			10	190	
UAT-EPL	287	3	2		22	38	352
Grand Total	667	20	3		23	129	842

3. Worksheet 3-Defects Summary: Generate Defects Summary for the selected test plan folder test sets

- Click "Generate Defects Report" button to display a summary of the defects list updated in ALM

click below button to show defects summary

Generate Defects Report		Note: Refer sheet
TEST_PHASE	(blank)	
Count of Defects	Status	
(blank)	(blank)	(blank) Total
Severity	(blank)	Grand Total
(blank)		
Grand Total		

click below button to show defects summary

Generate Defects Report		Note: Refer sheet "Defects List" for all defect details after clicking generate report button													
TEST_PHASE	(All)														
Count of Defects	Status														
(blank)	(blank)	(blank) Total	Closed	Withdrawn	Verified	Reopened	Closed Total	Open	Assigned	Accepted	Not Fixed	New	Ready to Test	Open Total	Grand
(blank)	(blank)														
3 - Medium			10	48					6		1		1	8	
2 - High			23	89					18	2		6		26	
1 - Critical			5	11								1		1	
4 - Low				3					1					1	
Grand Total			38	151					25	2	1	7	1	36	

Microsoft Excel

All Defects fetched

OK

- Filter out the blank status to change the view of the report

Count of Defects	Status	Select field:
(blank)	(blank)	STATUS
Severity	(blank)	A↓ Sort A to Z
(blank)		Z↓ Sort Z to A
3 - Medium		More Sort Options...
2 - High		Clear Filter From "STATUS"
1 - Critical		Label Filters
4 - Low		Value Filters
Grand Total		Search
		<input checked="" type="checkbox"/> (Select All)
		<input type="checkbox"/> (blank)
		<input checked="" type="checkbox"/> Closed
		<input checked="" type="checkbox"/> Open

click below button to show defects summary

Generate Defects Report		Note: Refer sheet "Defects List" for all defect details after clicking generate report button									
TEST_PHASE	(All)										
Count of Defects Status											
Severity		Closed			Closed Total	Open				Open Total	Grand Total
Withdrawn		Verified	Rejected		Assigned	Accepted	Not Fixed	New	Ready to Test		
3 - Medium		10	48	5	63	6		1		1	71
2 - High		23	89	13	125	18	2		6		151
1 - Critical		5	11	3	19				1		20
4 - Low			3	1	4	1					5
Grand Total		38	151	22	211	25	2	1	7	1	247

4. [Worksheet 4-Metrics](#): Different metrics for the total TCER and Defects are automatically calculated

Sr. No	Testing Metric	TCER Data		Test Sets Report					
1	Total Test Cases	842		TEST_CYCLE					
2	Total Valid Test Cases	842							
3	Total Test Cases Passed	678	81%						
4	Total Test Cases Failed	20	2%						
5	Total Test Cases Blocked	3	0%						
6	Total Test Cases Not Completed	23	3%						
7	Total Test Cases No Run	118	14%						
8	Total Test Cases N/A	0	0%						
9	Total Test Cases Retest	0	0%						
10	Total Test Cases Deferred	0	0%						
11	Total Test Cases Executed	698	83%						
12	Total Test Cases Not Executed	144	17%						
13	Total Identified Defects	247							
14	Total Valid Defects	187	76%						
15	Total Open Defects	36	15%						
16	Total Closed Defects	211	85%						
17	Total Severity 1&2 Defects	171	69%						
18	Total Severity 3&4 Defects	76	31%						
19	Total Rejected Defects	60	24%						
20	Average Defect Age	24.45	days						

[2-TCER Summary](#)
[3-Defects Summary](#)
[4-Metrics](#)
[5-Plan vs Actual](#)
[6-Tester effort](#)
[TC ...](#)

Click "Test Sets Report" button to generate summary for each test set in below format.

TCER Data	Test Sets Report									
842	TEST_CYCLE	%COMPLE	TOTAL TCs	TOTAL EXE	PASSED	FAILED	BLOCKED	NOT COM	NO RUN	DESCOPE
842	Business Testing	0%	4	0	0	0	0	0	4	0
678	IDW_ADW	98%	65	64	51	13	0	0	1	0
20	IDW_Satellite	100%	29	29	29	0	0	0	0	0
3	Reporting	0%	56	0	0	0	0	0	56	0
23	Negative Scenarios	100%	19	19	19	0	0	0	0	0
118	EPL Eligible Plan Val	99%	107	106	106	0	0	0	1	0
0	EPL Subscription Flo	50%	20	10	10	0	1	1	8	0
0	EMail/ SMS Verificat	100%	5	5	5	0	0	0	0	0
0	SAP (Satellite cancel	100%	10	10	10	0	0	0	0	0
0	SDP to SNOW	100%	10	10	10	0	0	0	0	0
0	SNOW to SDP	100%	10	10	10	0	0	0	0	0
698	Satellite Exception	100%	4	4	4	0	0	0	0	0
144	Satellite Billing	100%	8	8	8	0	0	0	0	0
247	Satellite Configurati	91%	85	77	75	2	0	0	8	0
187	Satellite OrderProvi	100%	13	13	13	0	0	0	0	0
36	Satellite Provisionin	100%	25	25	25	0	0	0	0	0
211	Satellite Servicing	80%	10	8	8	0	0	0	2	0
171	Satellite Smart Card	100%	10	10	8	2	0	0	0	0
76	Cycle 1 - Service Qua	72%	130	93	93	0	0	0	37	0
60	Cycle 2 - New Custor	76%	94	71	68	3	2	20	1	0
24.45	Cycle 6 - Existing Cus	98%	128	126	126	0	0	2	0	0
days	TOTAL	83%	842	698	678	20	3	23	118	0

[Index](#)
[1-ALM Login](#)
[2-TCER Summary](#)
[3-Defects Summary](#)
[4-Metrics](#)
[5-Plan vs Actual ...](#)

Click “Defect sub report” button to generate defects report in below format.

Defect sub report				
SUBJECT	SEV-1	SEV-2	SEV-3	SEV-4
Cycle 2 - New Cu	1	22	1	0
Cycle 1 - Service	0	5	0	0
UAT-EPL	6	43	10	2
EPL Eligible Plan	1	5	0	0
EPL Subscription	1	2	0	0
Cycle 4 - EPL Plan	1	4	1	0
Cycle 12 - Report	0	0	4	0
Cycle 5 - EPL Elig	0	19	11	0
Cycle 6 - Existing	0	0	1	0
Cycle 8 - Satellite	2	2	0	0
Satellite Provisio	0	0	1	0
RDSL	8	42	41	3
Cycle 7 -Existing	0	6	1	0
Cycle 3 - New Cu	0	1	0	0
TOTAL	20	151	71	5

5. **Worksheet 5-Plan vs Actual**: can be used to create a plan to estimate count of daily test cases to execute, show count of actual test cases executed daily, and compare the count of plan and actual test cases on any day.

i. Enter planned/actual test execution start date, end date, and count of total test cases

Test Execution Start Date	16-May-16 (MM/DD/YY)	Reset All	Note: - After generating report in sheet 2, enter planned/actual execution start and end date, and t - Click Create Plan button to get estimate count of test cases to execute from start to end date - Click Show Actual button to get count of test cases executed from start to end date - Enter Date and click Plan Vs Actual button to get comparison of planned and actual test case
Test Execution End Date	1-Aug-16 (MM/DD/YY)		
Total Test cases	842		
Total Days	77		
Total Work Days	56		
Create Plan			

ii. Click “Create Plan” button, and a plan is displayed for the daily test cases to be executed from start to end date to complete the total number of test cases

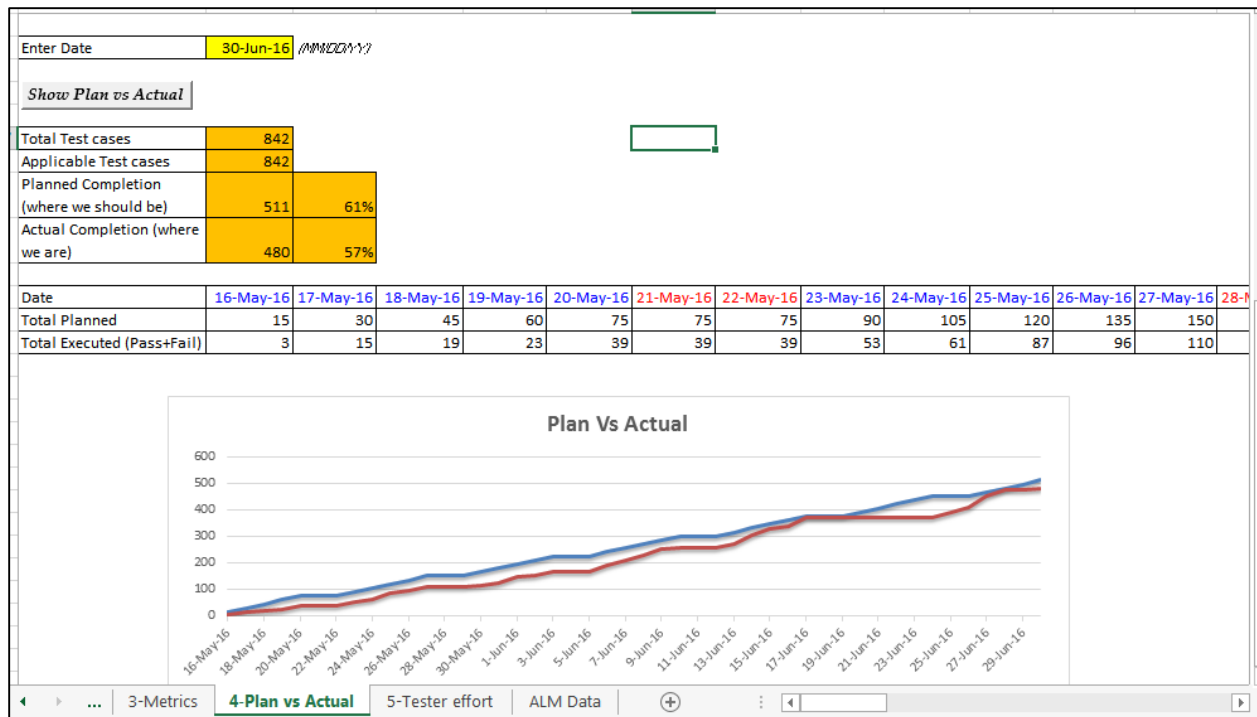
8													
9	Create Plan												
10													
11	Date	16-May-16	17-May-16	18-May-16	19-May-16	20-May-16	21-May-16	22-May-16	23-May-16	24-May-16	25-May-16	26-May-16	27-
12	Daily Planned	15	15	15	15	15	0	0	15	15	15	15	
13	Total Planned	15	30	45	60	75	75	75	90	105	120	135	
14													

- | | | | | | | | | | | | | | |
|----|-------------|--|--|--|--|--|--|--|--|--|--|--|--|
| 6 | Show Actual | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | |

- iv. To compare plan vs actual till a particular date, enter the required date and click “Show Plan vs Actual”

Enter Date				(MM/DD/YY)			
<div>Show Plan vs Actual</div>							
Total Test cases	842						
Applicable Test cases	842						
Planned Completion (where we should be)	#N/A	#N/A					
Actual Completion (where we are)	#N/A	#N/A					

Plan Vs Actual										
1.2										
1										



6. Worksheet 6-Tester Effort: Test cases executed daily by a tester are displayed

Below table shows the records of test cases updated in QC by the tester:

Count of Test cases Executed	Execution	5/16/2016	5/17/2016	5/18/2016	5/19/2016	5/20/2016	5/23/2016	5/24/2016	5/25/2016	5/26/2016	5/27/2016	5/28/2016	5/29/2016
Tester													
④ suresh bommasani							7	4		2	7		
④ sharnav sengupta													
④ shraddha javaria		1			2	2	1	2	4		1	1	
④ shyam sundar					2								
④ pradeep nayak				1							7		
④ vinay kumar yuvaraj		2	12			13		1	22	6			
④ neha mishra													
④ anand acharya										2			
④ puneeth byatha						2	2		3	1			
④ sindhu prasad									2				
④ bharathi c						1	5	1					
Grand Total		3	12	4	4	18	15	8	31	11	15	1	

3-Metrics 4-Plan vs Actual 5-Tester effort ALM Data

7. Worksheet TCER Data: contains all the TCER data 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 or renamed. Any manual changes done to this sheet may result in error while running the tool.

1	Test_Folder	Test_Cycle	Test_Status	Tester	Plan_Executio	Actual_Execution	Test_Priorit	Test_Name
2	Business Te	Business Te	No Run				High	TC_EPL_UAT_EPL_Provisioning_SOS_Mobile_EPL_Included_Plan
3	Business Te	Business Te	No Run				High	TC_EPL_UAT_Satellite_Provisioning_SOS_Mobile_EPL_Included_Plan
4	Business Te	Business Te	No Run				High	TC_EPL_UAT_Satellite_Provisioning_SOS_Mobile_EPL_Excluded_Plan
5	Business Te	Business Te	No Run				High	TC_EPL_UAT_EPL_Provisioning_SOS_Mobile_EPL_Excluded_Plan
6	Cycle 12 - Re	IDW_ADW	Failed	suresh bommasani		5/26/2016 0:00	High	TC_EPL_UAT_IDWADW_35
7	Cycle 12 - Re	IDW_ADW	Failed	suresh bommasani		5/26/2016 0:00	High	TC_EPL_UAT_IDWADW_24
8	Cycle 12 - Re	IDW_ADW	Failed	suresh bommasani		5/27/2016 0:00	High	TC_EPL_UAT_IDWADW_37
9	Cycle 12 - Re	IDW_ADW	Failed	suresh bommasani		5/27/2016 0:00	High	TC_EPL_UAT_IDWADW_38
10	Cycle 12 - Re	IDW_ADW	Passed	suresh bommasani		5/27/2016 0:00	High	TC_EPL_UAT_IDWADW_49
11	Cycle 12 - Re	IDW_ADW	Failed	suresh bommasani		5/27/2016 0:00	High	TC_EPL_UAT_IDWADW_36
12	Cycle 12 - Re	IDW_ADW	Passed	suresh bommasani		5/27/2016 0:00	High	TC_EPL_UAT_IDWADW_22

8. **Worksheet Defects List:** contains all the defect details 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 or renamed. 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
TEST_PHA	DEFECT_ID	SUMMAR	COMPONI	SEVERITY	PRIORITY	STATUS	ASSIGNED	DETECTED	DETECTION_DATE	CLOSING_DATE	ROOT_CA	ROOT_CA	RESOLU
4. UAT	56	Project EP Config - S	3 - Medium	P2 - Mand	Closed		sharnav se	Shraddha	5/17/2016 0:00	5/18/2016 0:00	Invalid De	Test Data	Withdra
4. UAT	60	EPL UAT: COCA	2 - High	P2 - Mand	Closed		vinay kum	vinay kum	5/18/2016 0:00	7/1/2016 0:00	Configura	Configura	Verified
4. UAT	62	EPL UAT: COPOM	2 - High	P2 - Mand	Closed		shyam sur	sharnav se	5/18/2016 0:00	5/27/2016 0:00	Configura	Configura	Verified
4. UAT	73	EPL UAT - CSOS OC	2 - High	P2 - Mand	Closed		pradeep r	Pradeep N	5/19/2016 0:00	5/31/2016 0:00	Configura	Configura	Verified
4. UAT	76	EPL UAT: CSOS OC	1 - Critical	P2 - Mand	Closed		pradeep r	Pradeep N	5/19/2016 0:00	6/3/2016 0:00	Test Envir	Build / Ve	Verified
4. UAT	77	EPL UAT: CSOS SQ	2 - High	P3 - Desir	Closed		sharnav se	sharnav se	5/19/2016 0:00	6/4/2016 0:00	Invalid De	Test Data	Withdra
4. UAT	78	Project EP Config - S	2 - High	P2 - Mand	Closed		shraddha	Shraddha	5/19/2016 0:00	5/24/2016 0:00	Test Envir	Build / Ve	Verified
4. UAT	93	EPL UAT: C Config - S	2 - High	P2 - Mand	Closed		vinay kum	vinay kum	5/20/2016 0:00	6/8/2016 0:00	Configura	Configura	Verified
4. UAT	94	EPL UAT:C Config - S	2 - High	P2 - Mand	Closed		vinay kum	vinay kum	5/20/2016 0:00	5/24/2016 0:00	Invalid De	Not a Req	Rejecte
4. UAT	96	EPL UAT: CSOS OC	2 - High	P2 - Mand	Closed		pradeep r	Pradeep N	5/20/2016 0:00	5/24/2016 0:00	Invalid De	Tester Err	Withdra

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 Summary" and "3-Defects Summary" 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 TCER data of the test sets for entered test lab folder Id is fetched and stored in the "TCER Data" worksheet. Also, all defects data of the test sets for entered test plan folder Id is fetched and stored in the "Defects List" worksheet. These sheets are used to create TCER and defects summary pivot table that is displayed to the user.
- The data in the "TCER Data" and "Defects List" sheets are also used to calculate different metrics displayed in "3-Metrics" sheet, and to create tester effort pivot table displayed in "5-Tester effort" sheet.
- In the worksheet "4-Plan vs Actual" when the Create Plan button is clicked, the start date, end date and total test cases are used to create a plan. When the Show Actual button is clicked, data is fetched from the "TCER Data" sheet from start date to end date. When Plan vs Actual button is clicked, the planned and actual data is compared to display the result till the entered date.

- v. The code used to develop the tool can 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 or if user deletes a contents of a cell with formula, 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:

Test Lab Folder Id

Microsoft Excel

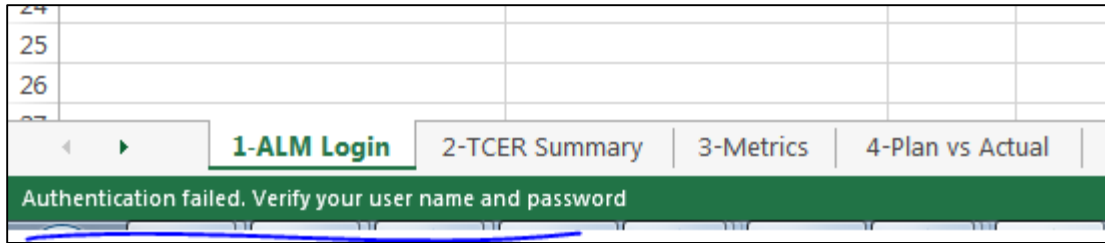
Enter HP ALM Url

Sr. No	Testing Metric	TCER Data	
1	Total Test Cases	842	
2	Valid Test Cases	842	
3	Total Test Cases Passed	667	79%
4	Total Test Cases Failed	0	0%
5	Total Test Cases Blocked	3	0%
6	Total Test Cases Not Completed	23	3%
7	Total Test Cases No Run	129	
8	Total Test Cases N/A	0	
9	Total Test Cases Retest	0	
10	Total Test Cases Deferred	0	
11	Total Test Cases Executed	667	
12	Total Test Cases Not Executed	175	

Sorry, I'm protected.

Do not remove or change formula in cell!

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.



6. References

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

<http://community.hpe.com>

<http://alm-help.saas.hpe.com/>

<http://superuser.com/>

<http://stackoverflow.com>

<http://www.sqaforums.com>

<https://msdn.microsoft.com>

<http://www.learnexcelmacro.com>

<https://community.hpe.com/t5/Quality-Center-ALM-Practitioners/QC-Test-Lab-Export-Test-Result-to-Excel/td-p/4370445>

<https://scn.sap.com/thread/1977710>

<http://superuser.com/questions/813077/execute-sql-query-with-vba-and-fill-sheet-with-data>

<http://stackoverflow.com/questions/22639598/create-a-recordset-object-to-output-query-results-into-excel-cells>

<https://msdn.microsoft.com/en-us/library/office/ee861528.aspx>

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