



E.C.I.NETWORKS

WIFI AUTOMATION - MYSQL: REQUIREMENTS TO IMPLEMENTATION MAPPING

Bell Canada; ATL Lab

Bell

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Revisions

Version	Primary Author(s)	Description of Version	Date Completed
0.1	Arijit Saha	First and Second Deliverables mapped	Jun 26, 2017

Review & Approval

Requirements Document Approval History

Approving Party	Version Approved	Signature	Date

Requirements Document Review History

Reviewer	Version Reviewed	Signature	Date

Reference Documents:

[R1] Robot Automation Installation Guide

[R2] ROBOT Automation User Manual

MySQL Deliverables:

Date / No of Days	Deliverables	Requirements included	Reference – Section in Document
19 Jun 17 / 6 Days	ROBOT Automation Infrastructure	CR0001 – Robot Framework	R1 - 2.7
		CR0002 – MYSQL database	R1 - 4
		CR0003 – Database management	R1 - 4
		CR0004 – Database security	R1 - 6
		CR0006 – Operating system	R1 - 2.2
		CR0007 – Programming/Scripting language	R1 - 2.3
		CR0008 – Python packages	R1 - 2.5, R1 - 2.6
		CR0009 – Virtual machine	Bell to use OpenStack
		CR0010 – Hardware resources	R1 - 2.1
		CR0011 – Installation manual	R1
		CR0015 – Ease of Use	-
26 Jun 17 / 5 Days	MySQL Database Design and creation	FR_Store_0011 – Creating MySQL Database	R1 - 10
		FR_Store_0012 – Creating MySQL Tables	R1 - 10
		FR_Store_0013 – Creating MySQL Views	R1 - 10
17 July 17 / 15 Days	MySQL Store Script	FR_Store_0001 – DUT-Release-auto_conf.bat	R2 - 6
		FR_Store_0002 – Copying .bat file	R2 - 6
		FR_Store_0003 – Result timestamp user input	R2 - 6
		FR_Store_0004 – Fetching data from .bat file	R2 - 6
		FR_Store_0005 – Results_xxx.csv	R2 - 6
		FR_Store_0006 – Copying .csv file	R2 - 6
		FR_Store_0007 – Fetching data from Results_unicast_latency.csv	R2 - 6

		FR_Store_0008 – Fetching data from Results_unicast_maximum_client_capacity.csv	R2 - 6
		FR_Store_0009 – Fetching data from Results_rate_vs_range_s2.csv	R2 - 6
		FR_Store_0010 – Fetching data from Results_unicast_throughput.csv	R2 - 6
		FR_Store_0014 – Storing in MySQL Tables	R2 - 6
		CR0012 – User manual (partial)	R2 - 6
		UI0001 – Executing MySQL Store Result script	R2 - 6
24 July 17 / 5 Days	MySQL Copy and Backup Script	FR_Copy_0001 – User Input for Copy	R2 – 17
		FR_Copy_0002 – Single test case ID	R2 – 17
		FR_Backup_0001 – Automatic backup	R2 – 15
		FR_Backup_0002 – Manual backup	R2 – 15
		UI0002 – Executing MySQL Backup script	R2 – 16
		UI0004– Executing MySQL Copy script	R2 – 18
		CR0005 – Database backup	R2 – 19
31 July 17 / 5 Days	MySQL others	UI0005– MySQL database management	R2 – 20
		UI0006 – MySQL Script execution progress	R2 – 21
		UI0007 – MySQL Script post execution logs	R2 – 22
14 Aug 17 / 4 days	Final Deployment and Training	All Mandatory requirement included	R2

Robot Automation Deliverables:

Date / No of Days	Deliverables	Requirements included	Reference – Section in Document
17-Jul-17	ROBOT Automation Infrastructure change/update	CR0001(From MySQL) – Robot Framework	R1 - 2.7
		CR0002(From MySQL) – MYSQL database	R1 - 4
		CR0003(From MySQL) – Database management	R1 - 4
		CR0004(From MySQL) – Database security	R1 - 6
		CR0005(From MySQL) – Database backup	
		CR0006(From MySQL) – Operating system	R1 - 2.2
		CR0007(From MySQL) – Programming/Scripting language	R1 - 2.3
		CR0008(From MySQL) – Python packages	R1 - 2.5, R1 - 2.6
		CR0009(From MySQL) – Virtual machine	Bell to use OpenStack
		CR0010(From MySQL) – Hardware resources	R1 - 2.1
		CR0011(Robot) – Installation manual	R1
		CR0012(Robot) – User manual	R2
		CR0015(From MySQL) – Ease of Use	-
		CR0016(Robot) – Training	-
		CR0017(Robot) – Frontend instances	R2 - 1
17-Jul-17	Pre-defined test case / suite and user defined test case / suite	FR_LC_0001 – Launching RIDE GUI	R2 -1
		FR_LC_0002 – Loading Bell HomeHub Automation Project	R2 - 2
		FR_LC_0003 – Test Suites and Test Cases	R2 – 3, R2 -4
		CR0018(Robot) – Predefined test cases	R2 - 6
		CR0020(Robot) – Test case management	R2 – 4
		CR0021(Robot) – Test suite management	R2 – 3
		CR0022(Robot) – User Defined test suite	R2 - 7
		CR0023(Robot) – Test case copy and reorder	R2 - 8
		UI0001 – Opening Bell HomeHub Automation	R2 - 2
24-Jul-17	Test case configuration	FR_LC_0004 – Configuring common parameters	R2 - 10
		FR_LC_0005 – “Generate Testcases” Test suite	R2 - 11
		FR_LC_0006 – “Generate_Testcases_ALL” Test case	R2 – 12
		FR_LC_00011 – Configuring test parameters	R2 - 13

		UI0002 – Configuring common parameters	R2 – 13
		UI0003 – Configuring Generate_Testcases_All test parameters	R2 – 13
07-Aug-17	Validating Test case configuration	FR_VG_0001 – Running “Generate_TestCases” test suite	R2 – 23
		FR_VG_0002 – Test parameter validation	R2 – 24
		FR_VG_0003 – Test parameter dependency validation	R2 – 25
21-Aug-17	Generating Test command	FR_VG_0004 – Test command generation directory	R2 – 19
		FR_VG_0005 – Test command generation	R2 – 20
		FR_VG_0006 – TP Test command	R2 – 20
		FR_VG_0007 – Lat Test command	R2 – 20
		FR_VG_0008 – RR Test command	R2 – 20
		FR_VG_0009 – MaxClient Test command	R2 – 20
		UI0006– Generate_Testcases_All test case execution progress	R2 – 21
30-Aug-17	Executing TP Test cases	FR_ES_0001 – Selecting Test cases to Execute	R2 – 22
		FR_ES_0004 – SSH and SCP to Wave Automation Server	R2 – 23
		FR_ES_0005 – Detecting test case completion and failure in Wave Automation	R2 – 24
		FR_ES_0007 – Storing Wave Automation test case execution time	R2 – 25
		FR_ES_0008 – Finding Wave Automation test case execution time	R2 – 26
		FR_ES_0011 – Executing TP test cases (dynamic)	R2 – 27
		UI0005– Selecting Test cases for execution	R2 – 28
		CR0024(Robot) – Test case selection and execution	R2 – 28
05-Sep-17	Integrating MySQL Store Script to TP test case execution	FR_ES_0009 – Getting Wave Automation timestamp result directory name	R2 - 29
		FR_ES_0010 – MySQL Integration	R2 - 30
		CR0026(Robot) – MySQL Script Integration	R2 - 30

12-Sep-17	Executing LAT and RR Test cases including MySQL Integration	FR_ES_0013 – Obtain “Loads” for RR and LAT dynamically	R2 – 31
		FR_ES_0014 – Executing LAT test cases (dynamic)	R2 – 32
		FR_ES_0016 – Executing RR test cases (dynamic)	R2 - 33
18-Sep-17	Executing MaxClient and User defined Test cases including MySQL Integration	FR_ES_0018 – Executing MaxClient test cases (dynamic)	R2 – 34
		UI0008– Creating and selecting user defined test cases for execution	R2 - 35
25-Sep-17	Miscellaneous features	CR0025(Robot) – ROBOT Automation execution time	R2 – 36
		CR0027(Robot) – Saving PCAP files	R2 – 37
		CR0028(Robot) – Enabling Debug	R2 - 38
02-Oct-17	Logs and Reports	UI0007– TP, LAT, RR and MaxClient test case execution progress	R2 - 39
		UI0009– User defined test case execution progress	R2 - 39
		UI0010 – ROBOT Automation post execution logs	R2 - 40
		UI0011 – ROBOT Automation test report	R2- 41
18-Oct-17	Final Deployment and Training	All Mandatory requirement included	R1 , R2