TEST REPORTER

User Guide

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Revision No.	Date	Description
1	09/13/2019	Licensing Dongle is introduced for product licensing. (only for local applications usage)
2	09/17/2019	One user - one session: One user can be able to login with only one session.
3	09/30/2019	Licensing Info page added to the Test Reporter portal which will show all the license related details.
4	10/03/2019	User Password will be set by Super-admin and given to the users in the system. The user will be activated once the user is added.
5	10/04/2019	The Super admin has a provision to change his email address.
6	12/11/2019	Offline Mode : Email notifications will not work in this mode. Super Admin needs to add the user to the system.

Revision History

7	12/12/2019	Guide for Remote Update Management System(RUMS) will be used by the end-user to update the licensing dongle after the license expires.
8	01/28/2020	A detailed guide for the Installation of the Docker and Test Reporter. This will address the user how to install and use the Test Reporter using docker.
9	02/07/2020	Procedure for Auto Start of the Docker and Test Reporter when the system is turned on added in the Appendix.
10	05/22/2020	Included a new Dashboard feature to the Test Reporter portal. Users are able to view the summary of the Test Reporter portal on a single page.
11	08/10/2020	Added new Identify feature to the device page. Devices with their names and key values are shown in the single view table and device comparison table.
12	08/25/2020	In the Test system view, the table is developed with the list of systems along with the timestamp of the machine with a pass or fail status of the last result. The purpose is to identify whether the test system is running or stopped.
13	09/21/2020	In the Non-template view, csv and log files are displayed which do not have templates. Users can download the whole zip folders of non-template records or he/she can download a single file or folder as well.
14	10/05/2020	Added the trigger job status to parse identify binary files and to sync non template files.
15	10/07/2020	Added Incomplete count in Test Result Statistics on Dashboard.
16	10/15/2020	Set Number of days filter in General Settings And Set Refresh Interval time

17	10/22/2020	Addition of text fields to device, Test result and Test suites page
18	10/23/2020	Group suites and version in Test Version Filter on Test Result page

1. Introduction

1.1 Scope and Purpose

Ulink test reporter is a web application for displaying and comparing the Devices Test Results.

The key features of this application are to display the devices' test result details.

The ability to compare the test results with other devices belonging to the same Test Suite having the same or different versions.

It has a dashboard and user list feature. The users can create and view test suite template versions which are then used to review the test results and comparison for the given test suite.

The purpose of this user guide is to provide the user with the know-how of the different functionalities, the data upload process, the sync description, and the CSV file requirement for generating the Test Suite Template.

It is assumed that the user of this application has previous knowledge and experience of executing ULINK device storage test suites and understanding its corresponding log and CSV files.

1.2 Process Overview

The user puts the required folder (containing CSV and log files) in the specific path of the application server.

The system syncs and grabs the files which are then parsed and persisted in the application.

The user logs in the application and is able to view the device result details in the devices section of the application. He can click on the test performed column and will be able to compare the same device against different versions of the same test suite.

The user can go to the results module of the application to filter and select the device test result for comparison.

By using the template module, the user can generate and view the different test suite and its corresponding versions.

Through the settings module, the user can trigger jobs such as syncing and parsing of files. The user can also configure the sessions time out through this section.

The following are the high-level components of the application.

- High-Level Components
 - Login

- Dashboard
- Devices
- Result
- Test Suite
- Test System View
- Non Template View
- Users
- Template
 - Generate
 - View
- Settings
 - Trigger Job
 - Session Settings

2. Installation

This section will guide the user to do the Installation of the Licensing Dongle, Docker, and Test Reporter Application.

2.1 Dongle Installation

End-User needs the licensing Dongle to use and install the test reporter application. To install Licensing Dongle users need to double click on the setup file named as CBUSetup.exe, which users will receive during Test Reporter purchase. Double-clicking the exe will install the necessary drivers onto the Windows system.

2.2 Docker Installation

Docker is a set of the platform as a service (PaaS) products that use OS-level virtualization to deliver software in packages called containers.

Docker Toolbox installation on Windows

1. To install the Docker toolbox, the system should be set with the following configuration.

- It is preferable to have an Intel chipset motherboard to avoid difficulties in the installation process.
- **Hyper-V** must be disabled.
 - Go to the "Control Panel/Turn Windows Features on or off
 "window and uncheck "Hyper-V" as shown below.

🛃 Wind	lows Features	14 <u>-</u> 14		×
Turn V	Vindows features on or off			?
To turn check b	a feature on, select its check box. To turn ox. A filled box means that only part of th	a feature o ne feature	off, clear is turned	its on.
±	.NET Framework 3.5 (includes .NET 2.0	and 3.0)		^
H	.NET Framework 4.8 Advanced Service	5		
	Active Directory Lightweight Directory	Services		
	Containers			
	Data Center Bridging			
± 🗌	Device Lockdown			
	Guarded Host			
•	Hyper-V			
	Internet Explorer 11			
• 🗆	Internet Information Services			
	Internet Information Services Hostable	Web Core	-	
πΠ	Legacy Components	19 8	~	~
		OK	Can	cel
		UN	Can	CCI

Note: Windows 10 Home edition does not support Hyper-V. Whereas, Windows 10 Pro and Enterprise edition can support Hyper-V.

• Virtualization must be enabled.

Users can check the Virtualization in the Performance tab of "**Task Manager**" as shown below.

cesses Performance	App history	Start-up User	s Details	Services		
CPU 5% 1.04 GHz	:	CPU % Utilisation	Intel(R)	Core(TM) <mark>i</mark>	5-4210M CPU @	2.60G
Memory 3.8/7.9 GB (4	8%)					
Disk 0 (C:))	60 seconds Utilisation	Speed		Maximum speed:	0 2.60 GHz
Bluetooth Not connect	ed	5% Processes	1.04 C	GHz Handles	Sockets: Cores: Logical processors:	1 2 4
Ethernet Not connect	ed	101 Up time	1736	40779	Virtualisation: L1 cache: L2 cache:	Enabled 128 KB 512 KB
WiFi	~	1:21:10	:01		L3 cache:	3.0 MB

- 2. If the virtualization is disabled, then you need to enable the virtualization from BIOS settings. Note that each BIOS has its own interfaces and ways to set the virtualization. For example, see below for one of the common methods to set virtualization in BIOS.
 - a. Press the "Restart" option from your system (or you can also do while power on), while the system is restarting press and hold F2 or DEL to get into system BIOS.
 - b. Go to the "**Advanced**" settings menu and there you will see the **Virtualization** option.
 - c. Set the Virtualization option to **Enable** and then save the changes and exit the settings. Refer to the snapshot given below.

Aptio Setup Utility Advanced	– Copyright (C) 2018 Ameri	can Megatrends, Inc.
Hyper Threading Technology Intel VT-x Technology Intel SMX Technology 64-bit EIST Technology CPU C3 state CPU C6 state CPU C7 state CPU C8 state	Not Supported Supported Supported Supported Supported Supported Supported Supported Supported	 When enabled, a VMM can utilize the additional hardware capabilities provided by Vanderpool Technology
L1 Data Cache L1 Code Cache L2 Cache L3 Cache Active Processor Cores Intel Virtualization Technology Hardware Prefetcher Adjacent Cache Line Prefetch CPU AES Boot performance mode Intel(R) Speed Shift Technology Intel(R) SpeedStep(tm) Turbo Mode	32 kB x 4 32 kB x 4 256 kB x 4 8 MB [A11] [Enabled] [Enabled] [Enabled] [Max Non-Turbo Performance] [Disabled] [Enabled] [Enabled]	<pre>++: Select Screen 11: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F5: Optimized Defaults F10: Save Changes & Reset F12: Print Screen ESC: Exit</pre>

3. For installing docker and other setup files click on the link given below. <u>http://document.ulinkreporter.com/InstallationFiles.zip</u>

The above link will download the "InstallationFiles.zip", which consist of following files:

- a. Docker Toolbox setup.
- b. Oracle VM VirtualBox setup.
- c. create_folder_script.bat
- d. docker-compose.yml

Once downloaded extract the zip file and double click on the Docker Toolbox setup file and initiate the docker installation process.

Important: Please install Docker in **\Users\<XXX>\Documents\Docker Toolbox** as shown below, where **<XXX>** is the current user system's name. And copy all the extracted files to this folder.

etup - bocker loolbox			
elect Destination Location			
Where should Docker Toolbox be installed?			
Setup will install Docker Toolbox into the followin	g folder.		
To continue, click Next. If you would like to select a differ	ent folder, o	lick Brov	vse.
C:\Users\ <xxx>\Documents\Docker Toolbox</xxx>		Bro	wse
At least 140.2 MB of free disk space is required.			

While installing the docker make sure you have checked all the checkboxes in the 'Select Additional Tasks' step as shown below.

Select Additiona Which additiona	al Tasks al tasks should be pe	erformed?		
Select the addit Toolbox, then o	tional tasks you wou click Next.	ld like Setup to perfor	rm while installing Do	ocker
🗹 Create a d	esktop shortcut			
Add docke	r binaries to PATH			
✓ Upgrade B	oot2Docker VM			
🖌 Install Virt	ualBox with NDIS5 dr	river[default NDIS6]		

- Once the docker installation process is complete, double click on "Oracle VM VirtualBox" setup file for installation of the latest VirtualBox VM.
 Note: For AMD chipset, please refer to section 2.4 #3 before proceeding.
- 5. Next, we need to follow a few steps to create docker-machine with USB support,

Create docker-machine with default configurations.

Launch "Docker Quickstart Terminal" from the desktop. Wait for a few minutes and the "Default" VirtualBox will be created.

This will automatically create the docker-machine with default configurations and once the docker is started you can be able to see the Docker icon on the Docker Quickstart Terminal as shown in the screenshot below.



Note: If the docker symbol did not appear on the screen then there can be some problem in starting docker.

Please check **section 2.4 Troubleshooting** to address the problem.

If the docker is started properly, verify the created docker-machine using the following command *docker-machine ls*

The commands execution in the PowerShell/git bash/docker terminal is as shown below.



- 6. To run the vboxmanage command you must add **PATH** (**"C:\Program Files\Oracle\VirtualBox"**) to System variables.
- To add the System variable(Path) go to "Control Panel\System and Security\System" click on "Advanced system settings". Then in the System Properties click on "Environment Variables".

🗧 🔶 🗹 🛧 🖳 > Control 🛙	Panel > System and Security > System v 🗸	ē	,○ Search Control Panel
Control Panel Home	View basic information about your computer		
Device Manager	Windows edition	1	
Remote settings	System Properties X		
System protection	Computer Name Hardware Advanced System Protection Remote	V	indows 10
Advanced system settings	You must be logged on as an Administrator to make most of these changes.		
	Performance Visual effects, processor scheduling, memory usage, and virtual memory	3.5	9 GHz
	Settings	or	
	User Profiles	spiay	
	Desktop settings related to your sign-in	-	
	Settings		Change settings
	Startup and Recovery		
	System startup, system failure, and debugging information		
	Settings	-	
	Environment Variables		Change product ke
See also	OK Court Auctor		
Security and Maintenance	UN Cancel Apply		

Once you click the Environment variables window will be opened and in that search for the **Path** in section **"System variables**". Double click on the **Path** variable and click **"New**" button to add new paths (**C:\Program Files\Oracle\VirtualBox; C:\Program Files\Git\cmd;**

C:\Users\<XXX>\Documents\Docker Toolbox) as shown in the screenshot given below.

System variables		
Variable	Value	^
ComSpec	C:\WINDOWS\system32\cmd.exe	
DriverData	C:\Windows\System32\Drivers\DriverData	
NUMBER_OF_PROCESSORS	4	
OS	Windows NT	
Path	C:\ProgramData\Oracle\Java\javapath;C:\Program Files (x86)\Intel\	
PATHEXT	.COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;.JSE;.WSF;.WSH;.MSC	
PROCESSOR ARCHITECTURE	AMD64	¥

Edit environment variable

Х

C:\ProgramData\Oracle\Java\javapath	New
C:\Program Files (x86)\Intel\Intel(R) Management Engine Component	
C:\Program Files\Intel\Intel(R) Management Engine Components\iCLS\	Edit
%SystemRoot%\system32	
%SystemRoot%	Browse
%SystemRoot%\System32\Wbem	
%SYSTEMROOT%\System32\WindowsPowerShell\v1.0\	Delete
C:\Program Files (x86)\Intel\Intel(R) Management Engine Component	
C:\Program Files\Intel\Intel(R) Management Engine Components\DAL	
C:\Program Files (x86)\Intel\Intel(R) Management Engine Component	Move Up
C:\Program Files\Intel\Intel(R) Management Engine Components\IPT	
%SYSTEMROOT%\System32\OpenSSH\	Move Down
C:\Program Files\Git\cmd	
C:\Program Files\Oracle\VirtualBox	
C:\Users\DTM13_3\Documents\Docker Toolbox	Edit text

Click "**OK**" when it's done. **Note**: Do not add the path if it is already present in the variable.

8. Now go back to "**Docker Quickstart Terminal**" and follow the next steps.

You need to enable USB support in VirtualBox for your VM default. For that, you have to stop the docker-machine and then add USB support. So to stop the docker-machine use the following command *docker-machine stop*

Then use the following to add USB support to the virtual box. *vboxmanage modifyvm default --usb on*

Use the following command to set the RAM memory of the virtual machine. *vboxmanage modifyvm default --memory 4096*

Once this is done start the docker-machine again *docker-machine start*

Refer to the snapshot given below for the results when you hit the above commands into the docker terminal.



- 9. Now connect your dongle to the system and follow steps to add a USB filter to the virtual box.
 - **a**. Open the "**Oracle VM VirtualBox**" (from your desktop) and click on the settings as shown in the snapshot below.

9	Oracle VM VirtualBox Manag	jer – 🗆 🗙		
File Machine Help	🍅 🍪 🧄 🎝 -			
default ↔ Running =	New Settings Discard Show Image: Setting System: default Operating System: Linux 2.6 / 3.x / 4.x (64-bit)	Preview		
	System Base Memory: 1024 MB Boot Order: Optical, Optical, Hard Disk Acceleration: VT-x/AMD-V, Nested Paging, PAE/NX, KVM Paravirtualization			
	Display Video Memory: 8 MB Graphics Controller: VBoxVGA Remote Desktop Server: Disabled Recording: Disabled			
	Storage Controller: SATA SATA Port 0: [Optical Drive] boot2docker SATA Port 1: disk.vmdk (Normal, 19.53 G	.iso (56.00 MB) B)		

b. In the Settings, click on the "USB" option. The window shown below will be displayed.

Then click on the add button and click on the 'Marx USB' as shown in the screenshot below.

General	USB		
System	Enable USB Controller		
Display	USB 1.1 (OHCI) Controller USB 2.0 (EHCI) Controller		
Storage	USB 3.0 (xHCI) Controller		
Audio	USB Device Filters		
P Network			
Serial Ports		4	Intel Corp. [0001]
A			MARX USB CrypToken [0203]
VSB		e	PixArt USB Optical Mouse [0100]
Shared Folders		G	Cheng Uei Precision Industry Co., Ltd (Foxlink) [011
. University of the			
User Interface			

c. Once you select the USB you will be able to see the name of the USB in the USB Device Filters section as shown below.

	default - Settings	?	×
General	USB		
📕 System	Enable USB Controller		
Display	USB <u>1</u> , 1 (OHCI) Controller USB 2.0 (EHCI) Controller		
Storage	USB 3.0 (xHCI) Controller		
Audio			
Network	MARX USB CrypToken [0203]		C C
📎 Serial Ports			4
SB USB			Contraction of the second seco
Shared Folders			É
User Interface			
	ОК	Can	cel

Once you have done, click OK. The dongle USB is now configured with a virtual box.

10. Activate the correct environment to use the Docker Machine in VM default. Use the following command to do so.

eval "\$(docker-machine env default)"

Note: Do not copy and paste, quotes in the command should be typed manually.

11. Before going to the next step, add the following to the '**config.json**' which is located in the folder

C:/Users/<*usersystemName*>/.docker/machine/machines/default/conf ig.json.

In that file, find for **"InsecureRegistry":[]** and edit as follows **"InsecureRegistry": ["docker.ulinkreporter.com:80"]** Refer to the snapshot given below.

Note: Do not copy and paste, quotes in the command should be typed manually.

🔰 l 💽 🚺 = l		🕮 l 🔝 🏷 e 🖛 l	config - Wo	ordPad	- 🗆 🗙
File Home	Share View	File Home View		-	^ ()
Copy Paste Paste	by path te shortcut	Paste Clipboard	 11 · A · A · 僅僅 徑 □ ×, x² 2 · A · ■ ■ ■ Font Paragrap 	h Picture Paint Date and Insert Insert	A Find a Replace Select all Editing
 ➢ Favourites Desktop Downloads Recent place: ֎ Homegroup I This PC Desktop Documents Downloads Music Pictures Videos Local Disk (C: Network 	Name default boot2docker ca.pem cet.pem cet.pem disk id_rsa id_rsa id_rsa,pub key.pem server.key.pem	}, "Swa	<pre>, Ipv6": false, InsecureRegistry": ["docker.ulinkreporte , Labels": [], IsgLevel": "", StorageDriver": "", StorageDriver": ", Isverify": true, RegistryMirror": [], InstallURL": "https://g mOptions": { IsSwarm": false, Address": "", Discovery": "n, Agent": false, Master": false, Host": "tep://0.0.0.0:3 Image": "swarm!latest", Strategy": "spread",</pre>	r.com:80" et.docker.com" 376",	~
11 items 1 item sel	ected 2.98 KB			100% 🕞 🦳	• 🕀 💮 🔒

Save the .json file and enter the command given below in the git bash window to stop the docker machine:

docker-machine stop

Once the docker machine is stopped then double click and open Docker QuickStart Terminal again from your Desktop.

- 12. You need to do some additional configuration for port forwarding on your local system. To configure the ports follow the steps given below.
 - a. Open the "**Oracle VM VirtualBox**" (from your desktop) and click on the settings.

b. In the Settings window click on the Network menu from the left side menu bar and expand the 'Advanced' option. Then click on the Port Forwarding button to add the ports to be forwarded.

)		default - Settings	? 💙
💻 General	Network		
📕 System	Adapter 1 Adapter 2	Adapter 3 Adapter 4	
Display	🗹 Enable Network Adap	ter	
Storage	Attached to:	NAT 🔻	
🕨 Audio	Name: Advanced		Ŧ
Network	Adapter Type:	Intel PRO/1000 MT Desktop (82540EM)	¥
Serial Ports	Promiscuous Mode:	Deny	¥
SB USB	MAC Address:	080027EB9BA8	G
Shared Folders User Interface	1	Cable Connected Port Forwarding	
		ОК	Cancel

c. Add the parameters to the Port Forwarding Rules as shown in the snapshot given below. Ignore the 'ssh' port details from the screenshot as that is by default created by the system and Host port values may be different for different PCs.

General	P		Port Fo	orwarding Ru	ules	?	×
System	Name	Protocol	Host IP	Host Port	Guest IP	Guest Port	
Display	nginx	ТСР		6001		5001	
Storage	ssh	ТСР	127.0.0.1	49337		22	
Audio	testjar	ТСР		6003		5003	
Network	userjar	ТСР		6002		5002	
Serial Ports							
USB							
Shared Folder							
User Interface	6						
					OK	Cance	el

12. We need to create the folder structure in our system to process the test comparator data. For that, double click on the "**create_folder_script.bat**" file which is downloaded with Docker setup file in Step3.

Note: If you double-click the create_folder_script.bat file, the command window will be opened and closed executing all the commands in it.

This will create the folder structure in the "C:\ulink_TR\Documents\" folder and you are ready to process data for test cases.

Go to "C:\ulink_TR\Documents\ulink" folder and verify that all the folder structures are created successfully.

13. Now click on the Shared Folders option on the left menu of 'Settings' of Oracle VM VirtualBox (refer Step 11). We have to add a new shared folder here as shown in the snapshot below. Add the Folder Path as "C:\ulink_TR" which is your folder created after Step 12 and add the Folder Name as

"c/ulink_TR". Keep the Auto-mount and Make permanent checkboxes as shown in the snapshot.

🧾 General	Shar	ed Folders					
System	Shared I	<u>Folders</u>					
Display	Nam	0	Edit Share	? ×	Auto-mount	Access	
Storage	-	Folder Path:	C: Vulink TR	~	Yes	Full	
Audio	т	Folder Name:	c/ulink_TR		Yes	Full	
Network			Read-only Auto-mount				
Senal Ports			I Make Permanent				
Shared Folders			ОК	Cancel			
User Interface							
						-	1

This will complete the docker installation and other configuration setups on the Windows system.

Now, restart the system to apply all the changes which you have made.

2.3 Test Reporter(TR) Installation

- 1. We need the docker-compose file to start the application. The "docker-compose.yml" is downloaded in Step 3 along with the setup files. **Notes:**
 - Please make sure the file is stored in .yml extension only.
 - Make sure the docker-compose.yml file is placed in the location \Users\<XXX>\Documents\Docker Toolbox, where <XXX> is the current user system's name and the location where Docker Toolbox is installed.
- **2. Connect the licensing dongle** to the system and start the Docker Quickstart terminal if you haven't done so. Type the following command to start installing Test Reporter.

docker-compose up -d

Note: Wait for at least 5 minutes to start the server and then proceed to the next steps.

- Once the installation is completed, go to the web browser and type in <u>localhost:6001</u> or <<u>PC's IP>:6001</u> to go to the Test Reporter Portal. Users typing in <<u>PC's IP>:6001</u> in their browser are able to go to the ULINK Test Reporter page of the said server and log in (if login is created by the admin to the user).
- 4. Now, you will have the Test reporter application up and running. You can use the login credentials to log in to the portal.

Please contact the company management for the login credentials.

Note: Should you have a problem logging in after waiting, close the terminal, TR browser and restart your computer and start with step 2 above again.

5. Once you click on the login button then you will be driven to the Product Configuration page. **Here you need to enter the product key (16 alphanumeric**

characters) and password (8 alphanumeric characters) which was given by the ULINK team.

6. You will be able to access the portal once you finish the above steps.

Note: If the dongle is not connected before you perform Step 2 of TR Installation. Or if you have disconnected the dongle in between any operation and if the Test reporter portal is asking for the licensing dongle connection then reconnect the dongle and restart the application.

To restart the application you need to first stop the application using the below command

docker-compose down

and then start by using the command given in step 2.

 You can add the Csv and Log files in the syncData folder which was created in Step 13 of the Docker Toolbox installation on Windows. Please refer below document for folder structure.

http://document.ulinkreporter.com/FolderStructure Setup-ULINK TR.pdf

2.4 Troubleshooting

- 1. You may face a few challenges while pulling the images from the server which may be due to network issues.
 - Get http://docker.ulinkreporter.com:80/v2/: net/http: request canceled while waiting for connection (Client.Timeout exceeded while awaiting headers)
 - Error pulling image configuration: Get http://docker.ulinkreporter.com:80/v2/testjarimage/blobs/sha256:cdb883 e486844eae0c90fdd1a264b4e3f612fdc4675ce076176fad2e120da77a: dial tcp 3.15.1.5:80: i/o timeout
 - Get http://docker.ulinkreporter.com:80/v2/userjarimage/manifests/1.0: dial tcp 3.15.1.5:80: i/o timeout

The following is the solution for the above challenges:

Solution: You need to stop the docker container and restart again. To stop the docker container use below command

docker-compose down

To start the docker container using the command given below. It is also given in step 2 of the Test Reporter installation.

docker-compose up -d

2. Error in creating machine : If you have a problem in starting the docker as shown in the snapshot given below use the following steps to resolve the problem.



Make sure you have turned on the Virtualization and turned off the HyperV of the system(Refer Step1 of Docker Toolbox Installation).

If you have done both the settings of HyperV and Virtualization incorrectly, then please make sure the Oracle VM Virtualbox is installed properly.

You can uninstall the VirtualBox and install the latest version which is provided in the InstallationFiles.zip file(Refer Step 3 of Docker Toolbox Installation).

3. Troubleshooting with AMD chipset, Ryzen processor:

If you get an error while starting the docker as shown in the snapshot below. It generally occurred with AMD.



To resolve the problem, follow the steps given below:

First, make sure that you have turned on the Virtualization and turned off the HyperV.

If you are still facing the problem then you need to disable the VT-X check. To disable this, follow the below steps.

- a. Go to the "Docker Toolbox" folder, and find the start.sh file.
- b. Right click the start.sh file and open it as a notepad file.
- c. Once the file is opened, find for the section as shown in the snapshot below.



d. You need to modify the last line (marked in red colored box in the previous snapshot) and add the following in the existing command as shown in the snapshot below.



Once you update the line, save the file and start the docker by double clicking the "Docker Quickstart Terminal" icon on desktop.

2.5 Test Reporter(TR) updates in case of bug fix/feature improvement

We can implement the following method to update the TR application in case of a bug fix or any feature update.

Step1: Stop the running server.

Note: Perform this step only if you are running the previous version of the server in docker.

Go to the folder where docker-compose.yml is located and stop the running server using the following command:

docker-compose down

Step2: Pull the new image using the same image name.

When we have a bug fix or any feature improvements in the TR application then the updated version of the TR application can be obtained by using the docker pull method. The syntax for the docker pull is given below.

Check the existing images using the following command.

docker images

MINGW64:/c/Users/agsuser/Desktop/test/docker files							
agsuser@ags-p-170 MINGW64 ~/Desktop/test/ \$ docker images	docker files			^			
REPOSITIORY docker.ulinkreporter.com:80/nginx docker.ulinkreporter.com:80/userjarimage mysql docker.ulinkreporter.com:80/testjarimage	TAG 1.0 1.0 5.7 1.0	IMAGE ID 5bca89bc38ea 6b2dcb0b64f3 1e4405fe1ea9 675c53ee241a	CREATED 5 days ago 6 days ago 10 days ago 2 weeks ago	SIZE 77.3MB 734MB 437MB 561MB			
agsuser@ags-p-170 MINGW64 ~/Desktop/test/d \$	docker files						
				▼			

You will see all the images available in the system as shown in the above snapshot.

Now use the docker pull command to pull the new image from the repository. **docker pull docker.ulinkreporter.com:80/userjarimage:1.0**

<pre>agsuser@ags-p-170 MINGW64 ~/Desktop/test/docker files \$ docker pull docker.ulinkreporter.com:80/userjarimage:1.0 1.0: Pulling from userjarimage 22e816666fd6: Already exists 079b6d2ale53: Already exists 11048ebae908: Already exists 12804023a2e: Already exists 7c327fc92a57: Pulling fs layer cd64ee3074f9: Pulling fs layer 520aa200e12c: Waiting cd64ee3074f9: Verifying Checksum 520aa200e12c: Download complete 7c327fc92a57: Download complete 7c327fc92a57: Pull complete cd64ee3074f9: Pull complete e83b225c7d03: Verifying Checksum e83b225c7d03: Pull complete</pre>	-	MINGW64:/c/Users/agsuser/Desktop/test/docker files	 ×
	agsuser@ags-p- \$ docker pull 1.0: Pulling f 22e816666fd6: 079b6d2ale53: 11048ebae908: c58094023a2e: 7c327fc92a57: cd64ee3074f9: e83b225c7d03: 520aa200e12c: cd64ee3074f9: cd64ee3074f9: cd64ee3074f9: 520aa200e12c: 7c327fc92a57: 7c327fc92a57: 7c327fc92a57: cd64ee3074f9: e83b225c7d03: e83b25c7d03	<pre>170 MINGW64 ~/Desktop/test/docker files docker.ulinkreporter.com:80/userjarimage:1.0 rom userjarimage Already exists Already exists Already exists Already exists Pulling fs layer Pulling fs layer Pulling fs layer Pulling fs layer Waiting Verifying Checksum Download complete Verifying Checksum Download complete Pull complete Pull complete Pull complete Pull complete Pull complete Pull complete Pull complete</pre>	^

Note: The image name should be the same as that of the previous image. Please refer to the above snapshot.

Once userjarimage is pulled successfully use the following commands to pull the remaining images from the repository.

Test - image:

docker pull docker.ulinkreporter.com:80/testjarimage:1.0

Nginx - image:

docker pull docker.ulinkreporter.com:80/nginx:1.0

Step3: Start the server.

Once the new images are pulled, Go to the folder where docker-compose.yml is stored and then use the following command to start the TR server. **docker-compose up**

3. Features

3.1 Login

The user can log in to the application by going to the home page and clicking on the 'sign in' button which will prompt the user to put in the email and password to go to the application.

3.1.1 Landing page



The above is the welcome page of the ULINK Test Reporter project. On this page Contact-Us, Privacy and Policy, and Terms of Use links are available.

For any queries/support contact on tr.support@ulinktech.com

3.1.1.1 Contact-Us page

HOURE	Producte	Customers	Library	Contact Us	Company	ULINK Teat List	Login	Welcome	
Contact	Ua		ULINK T	echnology, Inc					
								111	
			US Offic ULINK T 3120 De Suite 111 Santa Ci Tel: 408. Fax: 775	e echnology inc. La Cruz Bivd ara, CA 95054 446.8455 .796.8472					
			Talwan (美丽字波 新竹縣竹 14F., No Zhubel C Tel: +886 Email: co	Office 科技有限公司 创 北市允明六路景 257, Dong Sec :ity, Hsinchu Co 6 (03) 668.1770 ontact(at)ulinkte	8 湾分公司 (一般257號148 - 1, Guangming unty 302, Tahw ch.com	§ j6th Rd., an			
			Please e	nter the inform	nation below t	o contact us.			
			Your Na Your Em Product	me all	: Sale	s/Product info]-	ŀ	
			Subject		:		-	1	
			Message	e Body	43			11-	
			Upload F	ile File No file o	Send]			

When users click on the Contact-Us link, the page will navigate to the Ulink contact-us page. Here users can put his information to contact.
3.1.1.2 Privacy and Policy

PRIVACY POLICY

Last Updated: May 27, 2019

1. INTRODUCTION

Ulink Technology, Inc. ("Ulink," "us," or "we") respects the privacy of the visitors to the Ulink websites which include ulinktech.com, ulinkda.com, and ulinkreporter.com ("websites" or "sites"). This privacy policy ("privacy policy" or "policy") is an agreement between Ulink and you, as the user of the Ulink websites ("you"). This agreement tells you when this policy is effective, what information we collect from you, how we might use it, how you can review or change the personal information you provided to us, how we may change this policy, and the steps we take to ensure that your personal information is protected.

2. AGREEMENT TO TERMS OF PRIVACY POLICY AND TERMS OF USE

All activities in which you may engage on the websites are voluntary. You are not required to provide any personal information to us unless you choose to access features on the sites which require the information. If you do not agree with the terms of this policy or other terms of use on the websites, then you should immediately exit the websites and discontinue using the sites. If you do not agree with the terms of our privacy policy and our terms of use posted at ulinktech.com, please do not provide us with personal information, and leave the websites. The terms of use of the sites are expressly incorporated herein by reference and made a part of this policy. By using the Ulink websites, you signify that you agree to the terms of this privacy policy as well as to our terms of use.

3. EFFECTIVE DATE OF AND CHANGES TO PRIVACY POLICY

This privacy policy is effective as of May 27, 2019, and will remain in effect except with respect to any of its provisions that are changed in the future, in which case the changes will become effective when an updated privacy policy is posted on the websites. We reserve the right to change this privacy policy at any time. Changes, modifications, additions, or deletions will be effective immediately on their posting to the sites. You should check this policy periodically as its terms may change from time to time. Your continued use of the sites after we post any such modifications will constitute your acknowledgment of the modified policy and your agreement to

After clicking the **"Privacy and Policy"** link, users will be directed to the above page. The above page demonstrates all Policies and Agreements.

3.1.1.3 Terms of Use

TERMS OF USE

1. BINDING EFFECT. Welcome to the Ulink Websites, which include Ulinktech.com, ulinkreporter.com, ulinkda.com (each, a "Site" and collectively the "Sites") or any services provided in connection with the Sites (the "Services"), you agree to abide by these Terms of Use. These Terms of Use may be amended by Ulink Technology, Inc. ("Company") from time to time in its sole discretion. Company will post a notice on the Sites any time these Terms of Use have been changed or otherwise updated. It is your responsibility to review these Terms of Use periodically, and if at any time you find these Terms of Use unacceptable, you must immediately leave the Sites and cease all use of the Services and the Sites.

2. GENERAL. Company does not warrant that the contents of the Sites are error-free. Information on the Sites may contain technical inaccuracies and/or typographical or other types of errors and may be changed or updated at any time without notice. Company may also make improvements and/or changes in the products and/or programs described on the Sites at any time without notice. Company will use reasonable efforts to place accurate and up-to-date information on the Sites but makes no warranty of its accuracy, completeness and/or timeliness. You acknowledge that your use of any information available through the Sites is at your own risk.

3. PRIVACY POLICY. Company respects your privacy and permits you to control the treatment of your personal information. A complete statement of Company's current privacy policy can be found posted at [URL or hyperlink to posted privacy policy]. Company's privacy policy is expressly incorporated into this Agreement by this reference.

4. REGISTRATION. When you are required to open an account to use or access the Sites or Services. you must complete the registration process by providing the complete

After clicking the **"Terms of Use"** link, the user will be navigated to the above page. The above page demonstrates all Terms of Use.

3.1.2 Sign-in Page

SIGN IN	
Email	
xyz@gmail.com	
Password	
	Ø)
FORGOT PASSWORD?	LOGIN

Users who have already registered for the ULINK Web Application can sign in by: Entering their Email-Id and Password

Thereafter click the Login button to go to the next screen and begin using the application.

The user is not allowed to log in to the application with the same email id if he/she has already an existing session. One user can have only one session at a time(provided the server they are using is the same).

• Forgot Password

If a user forgets the password, then the user can click on the 'Forgot Password ?' link to reset it. The process is described below:

3.1.2.2 Accept Terms and Conditions

⊌	ULINK Tech Terms	n ology Inc. Of Use	
1. BINDING EFFEC	т		
Welcome to t ulinkreporter.com any services prov to abide by these Technology, Inc. Company will po been changed or Terms of Use pe unacceptable, you Services and the S	the Ulink Websites, w , ulinkda.com (each, a "Site ded in connection with the Terms of Use. These Terms of ("Company") from time at a notice on the Sites any otherwise updated. It is your iodically, and if at any time a must immediately leave to sites.	which include Ulinkte e" and collectively the "S e Sites (the "Services"), yo of Use may be amended H to time in its sole dis y time these Terms of U our responsibility to revie the you find these Terms the Sites and cease all us	ch.com, ites") or u agree by Ulink cretion. se have w these of Use e of the
2. GENERAL Company does r Information on typographical or o time without noti in the products a notice. Company information on th and/or timelines	iot warrant that the content the Sites may contain other types of errors and ma ce. Company may also mak nd/or programs described of will use reasonable efforts t e Sites but makes no warran s. You acknowledge that	ents of the Sites are en technical inaccuracies ay be changed or updated in improvements and/or of on the Sites at any time to place accurate and up- nty of its accuracy, compl your use of any info	ror-free. and/or d at any changes without to-date eteness rmation
 I accept the Pr I have read the 	ivacy Policy Terms Of Use Beta User Agreement	CANCEL	ACCEPT

When the user Log-in to the portal for the first time then the **"Accept Terms and Conditions"** page will pop-up.

3.1.3 Usage Mode (Online/Offline)

There are two modes to use the Test Reporter Application. The one is online mode and the other is offline mode.

The online mode is the mode when the user's system is connected to the internet. When connected to the internet, end-users will be able to receive the mails(activation, forgot password, and so on) which are described in the subsequent sections. While in the offline mode the super admin will be given the privilege to handle the end-users profile, in case the user faces any trouble using the application.

3.1.4 Forgot Password Page

FORGOT	PASSVO	ΧD
mail		
xyz@gmail.com		

When the user clicks **"Forgot password?"** the link he/she comes to the Forgot Password page.

By entering his/her registered email id, the user is able to reset the password through the reset password link sent via email. The mail can be sent only when the user is in online mode.

Unlike forgot password in online mode, users do not have any provision to reset the password when working in offline mode. The only available option is to delete the existing user and create a new user.

3.1.5 Notification Email Template



The above is a snapshot of the Forgot Password Email Template which is received in the user's inbox once the user puts the email address for resetting the password.

Note: In the case you are accessing the Test Reporter from some other network then you need to enter the Host System IP address instead of the URL as mentioned in above snapshot. The following is the example for your information:

Replace "http://localhost:6001/resetPassword/KqASrdwZiP" with the IP address as "http://192.168.1.1:6001/resetPassword/KqASrdwZiP".

3.2 Dashboard

The dashboard page consists of the following contents.



3.2.1 Timelines

In the timeline(days), all-time data from start to current date is displayed.

Operations: Count/number of days from the day of the application was installed

till the current date.

Data Logging: Count from the earliest data date to the current date.

3.2.2 Drives/Devices

Drives/Devices contains the counts of interface types.

TOTAL - Contains total counts of interface types.

SATA - It shows total counts of SATA devices and when clicked on the SATA link, the page redirects to the devices screen with sorted results of SATA devices.

SAS - It shows total counts of SAS devices and when clicked on the SAS link, the page redirects to the devices screen with sorted results of SAS devices.

NVMe - It shows total counts of NVMe devices and when clicked on the NVMe link, the page redirects to the devices screen with sorted results of NVMe devices.

3.2.3 Data Size

Data size, size of the CSV, and the log files displayed as well as the current database size are also displayed.

All Data- It shows the data of all file sizes.

Raw Data- It shows the total size of CSV files and log files.

Database size- It shows the current database size.

3.2.4 Records Info

All the Raw records, Completed Records, Error, Visible, and Deleted records are displayed in record info.

Raw Records- It shows the count of all raw records.

Complete Records- It shows the count of completed records and when clicked on the link of complete records the page redirects to the test result page with the sorted completed records.

Visible Records- It shows the count of visible records and when clicked on the link of visible records, the page redirects to the test result page with sorted visible records.

Error Records- It shows the count of error records.

Deleted Records- It shows the total count of deleted records and when clicked on the deleted records link, the page redirects to the recycle bin page and displays the deleted records.

3.2.5 Parsed Test Results

Count of parsing test results of interface types displays in parsed test results.

Total Count - It shows the total count of interface types- SAS, SATA, and NVMe.

SATA - It shows the total count of parsed test results when clicked on the SATA interface link page redirects to the test result page and displays the records of the SATA interface.

SAS - It shows the total count of parsed test results when clicked on the SAS interface link, page redirects to the test result page, and displays the records of the SAS interface.

NVMe - It shows the total count of parsed test results of the NVMe interface and when clicked on the NVMe interface link, the page redirects to the test result page and displays the records of the NVMe interface.

3.2.6 Parsing Statistics

Parsing statistics show the current state of the file i.e idle, syncing, and parsing.

3.2.7 Parsing summary card

In parsing summary, Complete, Incomplete, and error count displays.

Completed Count: It shows the total count of completed parsed records as per the selected value in the dropdown.

Incompleted Count: It shows the total count of incompleted parsed records as per the selected value in the dropdown.

Error count: It shows the total count of error parsed records as per the selected value in the dropdown.

Non-template records: It shows the total count of non-template records as per the selected value in the dropdown.

3.2.8 User Summary

In the user summary, count of the public user, admin user, and the total number of users are displayed.

Total User - It shows the total number of users of the system.

Admin user - it shows the total number of admin users.

Public user - It shows the total number of public users.

3.2.9 Test Result Statistics

It shows the count of Pass and Fail results as well as total results. Users can select the Days/Months/Year from the drop-down of test result statics. As per the user's selection the count of Pass and Fail results get displayed.

Pass Results:- By clicking on the count of pass result, the page navigates to the Test result view page and displays the count of Pass results.

Fail Results:- By clicking on the count of Fail results, the page navigates to the Test result view page and displays the count of Fail results.

Total Result:- By clicking on the count of Total Results, Page navigates to the Test result view page and displays the count of total results.

3.3 Users

The **"Users"** page provides a listing of Active, Last Logged, and all users.

3.3.1 Users Page- Active Users

🗉 🕼 UI İNK	8				X	/ersion: TR v4.3.0	Poonam Gaikwad 🔺
	2						
🚯 Dashboard	ACTIVE USERS LAST LOGGED	IN ALL USERS					
္ Users	Show 500 V Entries						😭 🚉 😭
🖨 Devices	NO. FIRST NAME +	LAST NAME +	EMAIL ÷	COUNTRY \$	TIMEZONE +	ROLE	
📋 Result	1 Sourabh	3	jsourabh@agsft.com	INDIA	IST	ADMIN	
Tart Suite	2 Poonam	Gaikwad	gpoonam@agsft.com	INDIA	IST	ADMIN	
	3 lan	Chen	ian.chen@ulinktech.com	TAIWAN	TST	ADMIN	
Test System View	4 Shweta	Desai	dshweta@lagsft.com	INDIA	IST	ADMIN	
Non Template View	S Allen	Tseng	allen.tseng@ulinktech.com	USA	PST	ADMIN	
	6 Edwin	Kuo	edwin.kuo@ulinktech.com	USA	PST	ADMIN	
Script Template	7 Joseph	Chen	joseph.chen@ulinktech.com	USA	PST	ADMIN	
Settings >							
🔑 Support							
			©2020 ULINK Technolog	w.inc.		Priv	acy Policy Terms of Use

After logging into the ULINK Web Application, the user will go to the ULINK Home Page or Users.

3.3.2 Active Users and Last Logged In Tabs

The dashboard contains both Active Users and last logged in users' information. By selecting the Active users' tab, the user is able to see all active users' information like First name, last name, email, country, timezone, and role.

Sorting

The sorting functionality is applicable to the First name Last name, Email, Country, and Timezone columns.

Download

Through the Download option, the user is able to download both active as well as last logged in users in PDF, CSV, and Excel format(s).

3.3.3 Users Page- Last Logged In User

≡ ⊌ ULİNK						Version: TR v4.3.0	Poonam Gaikwad 💧
🚯 Dashboard	ACTIVE USERS LAST LOGGED	DIN ALL USERS					
സ്സ Users	Show 500 V Entries						📬 🗟 🛱
🖨 Devices	NO. FIRST NAME +	LAST NAME +	EMAIL ¢	COUNTRY \$	TIMEZONE \$	ROLE	LAST LOGIN \$
📋 Result	1 Akshay	Khaire	kakshay@agsft.com	INDIA	IST	ADMIN	2020-08-10 3:19:25 PM
Tact Suite	2 Yudy	Syukur	yudy.syukur@ulinktech.com	USA	PST	PUBLIC	2019-05-22 1:08:23 AM
i i i i i i i i i i i i i i i i i i i	3 Joe	Chen	joe.chen@tjc.org	USA	PST	ADMIN	2019-06-26 5:25:30 AM
Test System View	4 Gina	Hsu	gina.hsu@ulinktech.com	USA	PST	ADMIN	2019-05-28 9:57:15 PM
Non Template View	5 Gracie	Chen	gracie.chen@ulinktech.com	USA	PST	ADMIN	2019-05-24 3:34:48 AM
	6 Herin	Herin	herin@yopmail.com	INDIA	IST	PUBLIC	2019-07-12 2:15:50 PM
Script Template >	7 Nilesh	Waikar	nwaikar@agsft.com	INDIA	IST	ADMIN	2020-05-19 4:54:48 PM
Settings >	8 Helen	Shi	helen.shi@ulinktech.com	USA	PST	ADMIN	2019-09-10 10:45:35 PM
Support	9 Meiying	Yang	meiying.yang@ulinktech.com	USA	PST	ADMIN	2019-05-24 3:31:57 AM
- Support	10 00 1			i ser k		everie .	

Last logged in

By selecting the last logged in tab, the user is able to see the last logged In user information like First name Last name, Email, Country, Timezone, Role, and Last Login Time.

3.4 Users Page

■ ULİNK								Version: TR v4.3.0	Poonam Gaikwad 🔺
🚯 Dashboard	ACTIVE								
92. Lisers	Search	SERS EAST LOO	O						
	Jearci								ADD USER
	Show	500 V Entries						0000	No. 22120121
] Result	NO.	FIRST NAME O	LAST NAME \$	EMAIL ©	COUNTRY \$	TIMEZONE ¢	STATUS	ROLE	
Test Suite	1	IestReporter	ULINKIECh	supportigitestreporter.uiinktecn.c	USA	PSI	ACTIVE	ADMIN	
1 Test System View	3	Lawrence	Lua	lawrence luaßulinktech.com	TAIWAN	TST	ACTIVE	ADMIN	© ff
Non Tamplata View	4	Joseph	Chen	joseph.chen@ulinktech.com	USA	PST	ACTIVE	ADMIN	 i
Non remplace view	5	Edwin	Kuo	edwin.kuo@ulinktech.com	USA	PST	ACTIVE	ADMIN	
Script Template	6	Yudy	Syukur	yudy.syukun@ulinktech.com	USA	PST	ACTIVE	PUBLIC	 Image: Image: Ima
Settings >	7	Gina	Hsu	gina.hsu@ulinktech.com	USA	PST	ACTIVE	ADMIN	۰ 🖻
Support	8	Gracie	Chen	gracie.chen@ulinktech.com	USA	PST	ACTIVE	ADMIN	
	9	Nilesh	Waikar	nwaikar@agsft.com	INDIA	IST	ACTIVE	ADMIN	
				1.1.1.1.1.1.1.1	1.10° 2		A (1999) 1. 199	A. 495 A. 114 A	A A .
				02	020 ULINK Technology,	Inc.		P	rivacy Policy Terms of Use

The **"Users"** page shows all active and pending user information. It contains fields such as First name, Last name, Email, Country, Timezone, Status, Role.

The action column has a **View** and **Delete** option.

Search: Search is on the basis of content within the First Name and Email-id.

Sorting: Sorting is available on this page as well as we have on the Active Users page[See 3.2.1].

3.4.1 Add User

USER				×
	First Name *			
	Last Name *			
	Email *			
	Role*	ADMIN	٣	
	Country*		Ŧ	
	Timezone *		•	
		CAN	NCEL	ADD

Users will be asked to enter or select the following information (all items in red are required):

- First Name, Last Name
- Email: Need to enter the user's valid email address as the activation link will be sent to the email address.
- Password(Only for Offline Mode): Password will be asked for the super admin user only when the user is working in offline mode. The Super admin needs to enter the password which will be later shared with the user.
- Role: By default role is Admin

- Country: Select Country from the drop-down list.
- Timezone: As per selected country timezone gets applied.

Add - Select "Add" to submit the registration information and continue to the next screen.

After adding the new user, the account activation link is sent to the entered email id. If the new user is added in the offline mode, then the account will be activated directly and the user can log in once he knows the password.

3.4.2 User Activation Template



The above is a snapshot of the Activation Template which is received in the user's inbox once the user gets to register.

Note: In the case you are accessing the Test Reporter from some other network then you need to enter the Host System IP address instead of the URL as mentioned in above snapshot. The following is the example for your information:

Replace "http://localhost:6001/activateUser/TNAByXgwtj" with the IP address as "http://192.168.1.1:6001/activateUser/TNAByXgwtj".

First Name*	TestReporter	
Last Name *	ULINKTech	
Email	support@testreporter.ulinktech. com	
New Email		
Country*	USA •	
Timezone	PST •	
	UPDATE	

3.4.3 Account Settings Page- Update User information and password

ACCOUNT SETTINGS

The following fields can be modified if the user needs to update his/her user profile: The user will be able to update the information such as First name, Last name, and Country through the account settings page(Top right corner).

Change Your Password:

The user can update the password through the Change Your Password hyperlink. After password updating, the session continues as it is.

Change Your Email Address:

The functionality to change the email address is only for the Super admin user. Super admin can change the mail address and also update the other information given on the page.

USER			×
	First Name	Demo	
	Last Name	User	
	Email	nwaikar@agsft.cor	
	Role	PUBLIC	
	Country	TAIWAN	
	Timezone	TST	
		CANCEL	

3.4.4 View User Page

View Users:

To view the user's information, one can select a view option from the Action drop-down menu.

3.4.5 User Delete Confirmation Page

								Version: TR v4.3.0	Poonam Gaikwad 🛔
🏦 Dashboard	ACTIVE		ED IN ALL USERS	Delete Confirmati	on	×			
兴 Users		8 C	2	Are you sure you want to del	ete the user 'Demo	User'?			ADD USER
Devices		500 🗸 Entries			CANCEL	DELETE			
🗋 Result	NO.	FIRST NAME	LAST NAME \$				STATUS	ROLE	ACTIONS
Test Suite	16	Mein		meinluo@ulinktech.com					
Test System View		Nilesh	Publice	waikamilesh999k@gmail.com			ACTIVE		
Test System View	18	Weipeng		weipeng.jih@ulinktech.com					•
🖺 Non Template View	19	Akshay	Khaire	kakshay@agsft.com			ACTIVE		
		• Joe	Chen	joe.chen@tjc.org					
Script Template		 Shweta 	Desai	dshwetaGagsft.com					•
Settings >		Herin	Herin	herin@yopmail.com			ACTIVE		•
		Sourabh		jsourabh@agsft.com			ACTIVE		• •
		Demo	User	demouser@yopmail.com					
									U

Delete User:

To delete a particular user, select the delete option from the Action dropdown menu.

3.5 Devices

The Devices section provides the details such as the Device Id, its capacity, Interface(I/F) type, First date(The first test results start date), Last date(The Last test results start date), the count of test performed on this device along with the option to delete the device row.

3.5.1 Devices View Page

🗏 🌢 ULİNK							Versior	1: TR v4.3.5	Poonam Gaikwad 🔺
🚯 Dashboard	Search		٩	DEVICE VIEW	(i)	s	iet Refresh Interval Never	~	🛱 🗟 🛱
္ Users	I/F Type		✓ Select Date Range Days	APPLY	DEVICE	INFO			
🖨 Devices	Show 500	✓ Entri	es						
📋 Result	NO.	69	DEVICE ID +	CAPACITY \$	I/F TYPE ¢	FIRST DATE \$	LAST DATE \$	COUNT \$	ACTION
Test Suite	1		WDS100T2X0C-00L350_181147620367	1000 GB	NVMe	2019-08-15 02:31:37 P	2019-08-15 02:31:37 P	1	2 🗇 🚺
	2		KINGSTON SKC2000M81000G_50026B72822FFF0D	1000 GB	NVMe	2019-07-16 05:31:55 P	_ 2019-07-16 05:31:55 P_	1	8
Test System View	3		ADATA 5X8200PNP_214920107008	512 GB	NVMe	2019-07-03 05:55:09		1	2 0
🎦 Non Template View	4		10030010	1000 GB	SATA/ATA	2019-05-16 12:01:25 P	M 2019-05-16 12:01:25 PM	1	(2
Script Template >	5		100300C0	256 GB	SATA/ATA	2019-05-15 12:07:41 P	M 2019-05-15 12:07:41 PM	1	2 🗇
(A contract of the second seco	6		PCIE SSD_8D7807940A8000000030	7681 GB	NVMe	2019-05-15 09:19:35 A	2019-05-15 09:19:35 A	1	2
er setungs	17		HS-SSD-C2000_30002847097	1024 GB	NVMe	2019-04-01 05:45:43	2019-04-01 05:45:43	1	2 🗇
🎤 Support	8		WDC1_Dev1	128 GB	NVMe	2019-03-26 03:46:16 .	2019-03-26 03:46:16	1	2 🖻
	9		WDC WDS120G1G0A-00SS50_173173801657	120 GB	SATA/ATA	2019-03-26 10:27:27 A	2019-03-26 10:27:27 A.	1	۵ 🕲
	10		SAMSUNG SSD 970 EVO 250GB_S465NX0KB20730X	250 GB	NVMe	2019-03-15 03:55:38 F	2019-03-15 03:55:38 P	1	2
				©2020 ULINK Technology, Inc.				Priv	acy Policy Terms of Use

The devices' view section acts as a repository of all the devices belonging to the device database.

It has the option to view and delete the devices.

The user can perform the device search, filter on date range, sort, and download of the device list through this section.

Search - Text search can be performed on the device Id column on the basis of the device name.

Date Range - The device can be filtered on the date range which is applied on the first date and last date column of the device page.

Download

Through the Download option, the user is able to download all devices in PDF, CSV, and Excel format(s).

Set refresh Interval - User can select the refresh page time by selecting the time from drop down. After selecting the time from drop down, the page will get refreshed in the specified time.

Device details consist of the following fields which have been extracted and persisted in the application on the basis of the uploaded CSV test result files.

- Device Id
- Capacity
- Interface(I/F) type
- First Date
- Last Date
- Test performed This depicts the count of total test results performed. Through this section, the user should be able to see the details of the test performed.
- Action Column Through this column users are able to delete the device. User can add the comments by clicking on the edit icon.

3.5.2 Device Delete Confirmation

	b								
8	Search		٩	Delete Confirmation				t M R	
~	UF Type		v Select Date Range Day	Are you sure you want to delete th	e device 'WDC				
8	Show 500 🗸 Entries			Note: Deleting the device will also	delete it's corresponding				
0	NO.	89	DEVICE ID \$	test results and comparison data.		FIRST DATE \$	LAST DATE \$	COUNT ¢	ACTION
			WDC WD5500G2B0C-00PXH0_20042680B482			020-02-25 1159:28 AM			B 0
			SAMSUNG SSD 970 EVO 500GB_S5H7NC0MB44653			020-02-25 02:37:35 PM		4	۵.
<u>, a</u>				500 GB				4	B
	4			250 GB					Ô
m				6 1600 GB	NVMe				
				120 GB				6	
@}					NVMe		2020-09-05 09:39:45 PM		
F	8			250 GB	NVMe				
				512 GB	NVMe				
				120 GB	NVMe			28	
				256 CB	NVMe				
				020201	JLINK Technology, Inc.			Pri	vacy Policy Terms of Use

When the user goes to delete a particular device, the confirmation pop-up comes up. It prompts for confirmation with a required message before deletion.

3.5.3 Device Test Result View

Œ	Search		Q		DEVICE	TEST F	RESULT VIEW	(i)				0
	Device II Model No)).	INTEL SSDPEDMD400G4	4_PHFT634400 4	DAU400BGN		Ca Se	pacity rial No.	400 GB PHFT634400AU40	DBGN		
Test Suite	9	×	Test Suite Version	~	Test S/W Version	v	FW Revision	~	Path	v	Visibility-ALL	٠
Status-AL	LL	٣	Select Date Range		Days					APPLY	COMPARE	DELETE
Show	500 •	Entries										
NO.	E.	TEST SUITE \$	SUITE VER \$	S/W VER \$	FW REV \$		START DATE \$	F	ATH \$	•	ACTION	
1		NVMe-RGS	Script REV 2.0	DM 7.1.1300	8DV10171		2018-03-09 03:56:29 PM	U	TL / Log	0		
2		NVMe-RGS	Script REV 2.0	DM 711300	8DV10171		2018-02-22 12:07:59 PM	U	TL/Log	0	 (1) (2) (3) (4) (5) /ul>	

By clicking on the Test performed count, the user is able to go to the Device Test Result View page.

Search - Text search can be performed on the Test suite, Suite version, FW revision, Path, and Software(S/W) version column.

This page displays all the information related to device and test results performed on that device such as:

- Device id
- Capacity
- Model no.
- Serial no.

It contains Test result information such as :

- Compare This feature is used to compare the test results within the same Test suites only.
- Test Suite

- Test Suite Version
- Test Software(S/W) Version
- Firmware(FW) Revision
- Start Date
- Status- This column shows the Complete or Incomplete file status.
- Action Column It consists of the following items
 - 1. Visibility As per status, the file will be available for comparison. The user can change file visibility to visible or invisible.
 - 2. Source It shows the path of the test result file.
 - 3. The source path has file preview and download option
 - 4. View Through this column the user is able to see the test result view.
- Delete test result- Through this column user is able to delete the test result The deleted test results will show in recycle-bin and through the recycle-bin, the user is able to either restore test results or purge test results.

The Device test result view page contains filters as well as sorting functionality.

Filters are applied to the following parameters:

- Test Suite
- Test Suite Version
- Test Software(S/W) Version
- Firmware(FW) Revision
- Source Path(Machine Path)
- Visibility- Visible, invisible. Default is all.
- Status-Complete or Incomplete file status. Default is all.
- Date range(Start date and End date)
- Days(Time since 'n' days)
- Result(Result Status Pass/Fail) Default is All

Note - When the user selects the date range then the days' filter will show days as per the dates and vice versa.

 CRTInfo RFInfo Abort.log Async.log Compare.log CrtDelQ.log CrtrlCap.log 	 RFInfo Abort.log Async.log Compare.log CrtDelQ.log 	
DSM.log	CtrlrCap.log	

3.5.4 Test Result Directory View Structure

By clicking on the source icon within the Action column, the user is able to see the directory view structure.

Preview/Download- Through this section, the user is able to preview and/or download the particular file.

Zip Download- Through this section user is able to download the whole folder as .zip format

3.5.5 File Preview



By clicking on a particular file within the directory structure, the user is able to preview the file first and then able to download(if required).

3.5.6 Test Result Single View

Test Status 🗸	TEST RESULT VIEW 📷 🛽), 📑
Legend PASS FAIL WARN NA - Not Applicable NC - Not Complete NM - Not Match	≥ ±	≞
Test Suite	NVMe-RGS	(
Test Version	Script REV 2.0	
Device Id	INTEL SSDPEDMD400G4_PHFT634400AU400BGN	
Capacity	400 GB	
Tested	7	
1. MD5	Pass	
2. NVM Write/Read & Data Compare w/Queue	PASS	
3. JedecWL_Client	Pass	
4. JedecWL_ENT	Pass	
5. Power Cycle with Random Commands	Pass	
6. Power Cycle with Data Compare	Pass	
7. Power Cycle with FullDisk Scan	Pass	

This page shows the test result view of the file.

Through the view on the action column of the Device Test Result View page the user comes to the screen (as shown above).

The Test Result View page contains all the information related to Test Results such as Meta Info, Summary and Key and its corresponding value.

Test Status filter - Users can apply the filter on the basis of value such as Pass, Fail, ND, NM, NC, Warn, and so on.

Download:

As per filter selection, the user will be able to download the test result in CSV and Excel format.

Alignment:

The test result view page has alignment adjustment functionality.

The user can change alignment to align left, align center, and align right so that the corresponding cases(test case,subcase1,subcase2) test result values within each row are aligned accordingly.

It is applicable for excel file download also.

3.5.7 Device Info

This is an important feature of the application where the selected device is displayed in a table format with Devices as the column and Identify keys as values.

🗏 🌢 ULİNK							Version		Poonam Gaikwad	۵
🚯 Dashboard			Q	DEVICE VIEW	i				t 🔍 🛒	1
<mark></mark> Users	I/F Type		Select Date Range Days APPL	e -	DEVICE INFO	D				
🔒 Devices	Show 500	← Entri	es NVMe 3							
📋 Result	NO.	⊡ .⇒	DEVICE ID ¢	CAPACITY \$	I/F TYPE \$	FIRST DATE \$	LAST DATE \$	COUNT \$	ACTION	
🗮 Test Suite	1		WDC WDS500G2B0C-00PXH0_200426808482	500 GB	NVMe	2020-02-25 11:59:28 A.,	2020-09-28 11:38:25	10	Û	٥
	2		SAMSUNG SSD 970 EVO 500GB_S5H7NC0MB44653B	500 GB	NVMe	2020-02-25 02:37:35	2020-09-28 <mark>11:32:39</mark>	4		
L lest system view	3		WDC WDS500G2B0A-005M50_194894802840	500 GB	SATA/ATA	2020-02-19 03:37:30	2020-09-28 11:27:42	4	0	
🎦 Non Template View	4		WDC WDS250G2B0B-00YS70_173087421985	250 GB	SATA/ATA	2017-08-18 12:31:56 PM	2020-09-13 06:34:49	26	Û	
🚺 Script Template 🔷 🔸	5		SAMSUNG MZPLLIT6HEHP-00003_S3HBNA03A01896	1600 GB	NVMe	2020-09-10 04:01:25	2020-09-10 04:01:25 _	1	۵	
	6		SANDISK SDSSDX120GG25_124140406624	120 GB	SATA/ATA	2020-07-17 07:15:35 P	2020-09-06 09:43:08	6		
	7		SEAGATE FIRECUDA 520 SSD ZP500GM30002_7QF00BV7	500 GB	NVMe	2020-07-22 03:34:50	2020-09-05 09:39:45	10	Û	
🌽 Support	8		SAMSUNG SSD 960 EVO 250GB_S3ESNX0HB072613	250 GB	NVMe	2017-04-28 04:52:25	2020-09-05 09:02:01	32	•	
	9		PC601 NVME SK HYNIX 512GB_SI8BQ02611010BQBA	512 GB	NVMe	2019-01-23 04:23:11 PM	2020-09-05 09:01:00	25	Û	
	10		FORCE MP500_171079560001233808CC	120 GB	NVMe	2017-07-13 12:17:27 PM	2020-09-05 08:23:20	28		
	n	\Box	SANDISK NVME DISK_160997640048	256 GB	NVMe	2020-06-12 05:41:43	2020-09-05 08:19:42	5	۵	1

Clicked on a single device interface displays the single view table with identify values and device id along with the download options.

By switching the tab IDFY_CTR and IDFY_NS for the NVMe device displays the .bin file's data in the form of a table.

.≡ ⊌ULİNK				Version: TR v4.3.0 Poonam Gaikwad 🛓
🚳 Dashboard	€		DEVICE INFORMATION	
兴 Users	BYTE	BIT	DESCRIPTION	WDC WDS500G280C-00PXH0_200426808482 [2020-09-28 0638:25
A Devices	00 - 01		PCI Vendor ID (VID)	15B7h
	02 - 03		PCI Subsystem Vendor ID (SSVID)	15B7h
📋 Result	04 - 23		Serial Number (SN)	200426808482
🛅 Test Suite	24 - 63		Model Number (MN)	WDC WDSS00G2B0C-00PXH0
Tost Sustem Mau	64 - 71		Firmware Revision (FR)	211070WD
L Test system view	72		Recommended Arbitration Burst (RAB)	04h
🎦 Non Template View	73 - 75		IEEE OUI Identifier (IEEE)	001B44h
Script Template	76		Controller Multi-Path I/D and Namespace Sharing Capabilities (CMIC)	00h
		7:4	are reserved	0000b
Settings >		3	is reserved	0b
🔑 Support		2	1 = is associated with an SR-IOV Virtual Function. 0 = is associated with a PCI Function	06
		1	1 = the NVM subsystem may contain two or more controllers. 0 = the NVM subsystem contains only a single controller	06
		0	I = the NVM subsystem may contain two or more physical PCIExpress ports. O = the NVM subsystem contains only a PCIExpress port	06
	77		Maximum Data Transfer Size (MDTS)	07h
	78 - 79		Controller ID (CNTLID)	0001h
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3.5.8 Device Comparison

By selecting multiple devices with the same interface type (other devices get disable) and clicking on the device info button, the page redirects to the Device comparison page where the table displays with the device id and identifies key values and its description for selected devices.

It contains below features:

- 1. **Compare**: By enabling the switch button above every device name and clicking on the compare button, only the enabled devices are displayed for comparison.
- 2. **Reset**: Enabled devices for comparison can be reset to the original page once clicked on the reset button.
- **3. Remove:** Enabled devices can be removed by clicking on the remove button.
- 4. **IDFY_CTR :** Enabled IDFY_CTR displays .bin file data of NVMe devices.
- 5. **IDFY_NS** : Enabled IDFY_NS displays .NS file data of NVMe devices.

Note: We get IDFY and IDFY_LOG buttons on SATA devices which display the Identify bin and Identify Log bin file data for the device respectively.

🗏 🌒 ULİNK					Ve	rsion: TR v4.3.0 Poonam Gaikwad 💧
🚯 Dashboard	•		DEVIC	CE COMPARISON		
유 Users						COMPARE RESET REMOVE
🖨 Devices	BYTE	BIT	DESCRIPTION	WDC WDS500G280C-00PXH0_200426808482 [-	SAMSUNG MZPLLIT6HEHP-00003_S3HBNA0JA_	SEAGATE FIRECUDA 520 SSD ZP500GM30002_7
📋 Result	00 - 01		PCI Vendor ID (VID)	15B7h	144Dh	1881h
Test Suite	02 - 03		PCI Subsystem Vendor ID (SSVID)	15B7h	144Dh	1881h
	04 - 23		Serial Number (SN)	200426808482	S3HBNA0JA01896	7QF00BV7
Test System View	24 - 63		Model Number (MN)	WDC WDS500G2B0C-00PXH0	SAMSUNG MZPLLIT6HEHP-00003	Seagate FireCuda 520 SSD ZP500GM30002
📙 Non Template View	64 - 71		Firmware Revision (FR)	211070WD	GPNA5B3Q	STNSC014
Corint Tomolata	72		Recommended Arbitration Burst (RAB)	04h	08h	01h
	73 - 75		IEEE OUI Identifier (IEEE)	001B44h	002538h	0024CFh
Settings >	76		Controller Multi-Path I/O and Namespace Sharing Capabilities (CM	00h	18h	ODh
🔑 Support		7:4	are reserved	0000ь	0001b	00006
		3	is reserved	06	1b	Ob
		2	1 = is associated with an SR-IOV Virtual Function. 0 = is associated with a PCI Function	06	Ob	0ь
		15	1 = the NVM subsystem may contain two or more controllers. 0 = the NVM subsystem contains only a single controller	Ob	ОЬ	Оь
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3.6 Test System View

In this feature, the table is developed with the list of systems along with the timestamp of the machine with a pass or fail status of the last result.

The purpose is to identify whether the test system is running or stopped.

The page contains the following elements:

- 1. **Search box** Users can search for the system name by entering the name in the search box.
- 2. **Date Range** Users can filter the system names based on the specified date. This filter works with the last date column available on the table.
- 3. **Group Name** Group name of the system is displayed.
- 4. **System Name** System/Machine name is displayed.
- 5. **First Date** It is the date when the system starts.

- 6. **Last Date** It is the date of the latest system status to determine as to when the system is running or stopped(i.e. It is the Date and Time when the system has provided the last update).
- 7. Status The status is Running/Stopped/Stopped_Today. If the system is running the status will display as 'Running' and if the system is stopped and if it does not have an update for more than a day then the status will display as 'Stopped'. 'Stopped_Today' will be displayed when the system is stopped operating on the same day.
- 8. **Last Status** The last status can be Pass/Fail/Unknown. If the Status of the system is 'Running' and if the system has not produced any test result file yet then the Last Status will be 'Unknown'. The Last status 'Unknown', is also shown when we do not have any result available for the particular system which is irrespective of the Status of the system. Whereas, If the Status of the system is 'Stopped' then the Last Status will be either Pass or Fail depending on the last test result.
- 9. **Test Count** It shows the count of test results for the Test System and by clicking on that count we will be redirected to the Result page where users can see which results are associated with that Test System.
- 10. **Action** The download icon in the Action column provides the download functionality. Users can download the last result produced by the system.

🍤 ULINK								Version: TR v4.3.0	Poonam Gaikwad
Dashboard	Searc	h Q	l i		TEST SYST	EM VIEW			
n Users	Show	500 ¥ Entries		Select Date Range		APPLY			
Devices	NO.	GROUP NAME \$	SYSTEM NAME \$	FIRST DATE \$	LAST DATE \$	STATUS \$	LAST STATUS \$	TEST COUNT \$	ACTION
Result	((1)	Test_log	DTM3_13	2015-05-08 3:37:28 PM	2020-09-30 6:18:48 PM	STOPPED	UNKNOWN	72	*
Test Suite	2	Test_log	DTM4_13	2013-04-24 1:48:24 PM	2020-09-30 6:14:04 PM	STOPPED	UNKNOWN	96	<u>*</u>
	3	Test_log	DTM2_14	2015-01-11 4:17:06 AM	2020-09-30 6:13:56 PM	STOPPED	FAIL	62	٨
Test System View	4	Test_log	DTM2_7	2012-10-23 9:25:48 PM	2020-09-30 6:09:05 PM	STOPPED	UNKNOWN	117	۸.
Non Template View	5	Test_log	DTM2_6	2013-04-24 1:48:24 PM	2020-09-30 6:08:37 PM	STOPPED	UNKNOWN	40	.≜
Corint Template	6	Test_log	DTM4_2	2011-05-27 12:33:45 AM	2020-09-30 8:09:47 AM	STOPPED	FAIL	41	*
nperempiate -	7	Test_log	.tmp.drivedownload	2018-09-24 6:32:04 PM	2020-09-29 10:16:06 PM	STOPPED	UNKNOWN	0	۸.
ttings >	8	Test_log	DTM3_11a	2017-07-28 10:49:08 PM	2020-09-29 12:29:03 PM	STOPPED	PASS	48	۸.
upport	9	Test_log	DTM2_13	2012-10-23 7:25:48 AM	2020-09-29 8:44:38 AM	STOPPED	FAIL	75	*
	10	Test_log	DTM3_5	2014-12-24 6:36:47 AM	2020-09-25 7:55:32 AM	STOPPED	FAIL	89	۸.
	n	Test_log	DTM_7	2013-02-07 8:39:11 AM	2020-09-24 10:51:11 PM	STOPPED	FAIL	44	1
	1.1	Test las	DIME 7	2014 OR 14 24E-1E DM	2020 00 24 10 44 07 04	STODDED	TAU.	76	*

3.6.1 Sync DriveMaster files to Test Reporter

Users need to sync the files from the DriveMaster Log folder to the Data Repository Log folder of the test system to know the status of the system in the Test System View. The two snapshots given below show the source and destination path of the folder which the user needs to sync.

→ ~ ↑	« Progran	n Files (x86) > ULINK DM8 NVD NET > v1500	> LOG	رت ب	Search LOG	م
ASUS	• • • • • • • • •	Name	Date modified	Туре	Size	-
Common	Files	AutoSave_2020_Aug_13_11_50_53_PM	8/14/2020 12:41 AM	Text Document	t 34 KB	
Intel		AutoSave_2020_Aug_13_11_50_53_PM	8/14/2020 12:41 AM	TRC File	167 KB	
📙 Internet E	xplorer	AutoSave_2020_Aug_13_12_36_16_AM	8/13/2020 1:37 AM	Text Document	t 27 KB	
Microsoft	.NET	🗏 AutoSave_2020_Aug_13_12_36_16_AM	8/13/2020 1:37 AM	TRC File	167 KB	
TeamViev	/er	AutoSave_2020_Aug_17_07_16_23_PM	8/19/2020 2:36 AM	Text Document	t 5 KB	
	18 NVD N	🗏 AutoSave_2020_Aug_17_07_16_23_PM	8/19/2020 2:36 AM	TRC File	167 KB	
	ion ve	🗋 cmd.trace	8/19/2020 2:36 AM	TRACE File	167 KB	
VI300		PSPA_PWCur_V33.bin	8/14/2020 12:45 AM	BIN File	8 KB	
Docun	nents	PSPA_PWCur_V33	8/14/2020 12:45 AM	CSV File	42 KB	
📙 LOG						
> NVMe	Driver					
> PSPA_I	Driver					
Report	s					
> SATAC	triPanlin					
> Scripts						
USBKe	yDriver_/					
Mindaus	Defende					

Quick Copy Past	e Paste	path Move Copy Shortcut to to to to to to to to to to to to to	New Tolder	Properties History	Select none
Clipboa	ird	Organize	New	Open	Select
→ × ↑ 📴 ›	This PC \rightarrow	New Volume (D:) > Log Sync > Test_log > D	0TM2_14 → LOG		
Quistana	^	Name	Date modified	Туре	Size
Quick access		AutoSave_2020_Aug_17_12_36_32_AM.log	8/20/2020 5:26 PM	Text Document	238 KB
Desktop	R	AutoSave_2020_Aug_17_12_36_32_AM.trc	8/20/2020 5:26 PM	TRC File	174 KB
Downloads	×	Cmd.trace	8/20/2020 5:26 PM	TRACE File	174 KB
Documents	A	AutoSave_2020_Aug_12_01_57_40_PM.log	8/13/2020 7:37 PM	Text Document	8 KB
Pictures	*	AutoSave_2020_Aug_12_01_57_40_PM.trc	8/13/2020 7:37 PM	TRC File	174 KB
FileSyncLog	*	AutoSave_2020_Jul_17_06_44_39_PM.trc	7/27/2020 6:04 PM	TRC File	174 KB
Log Sync	*	AutoSave_2020_Jul_17_06_44_39_PM.log	7/27/2020 6:34 AM	Text Document	38,782 KB
FreeFileSync		AutoSave_2020_Jun_27_10_04_13_PM.trc	7/6/2020 4:24 PM	TRC File	174 KB
DMTest	~	AutoSave_2020_Jun_17_05_25_23_PM.trc	6/26/2020 8:55 PM	TRC File	174 KB
		AutoSave_2020_Apr_28_04_40_43_PM.log	5/20/2020 2:51 PM	Text Document	1 KB
GEN_CrucialCT24	0M500	AutoSave_2020_Apr_28_04_40_43_PM.trc	5/20/2020 2:51 PM	TRC File	1 KB
Test_log		AutoSave_2020_Mar_24_04_15_18_PM.trc	4/7/2020 12:35 AM	TRC File	174 KB
Test_Results		AutoSave_2019_Dec_24_10_10_01_PM.log	2/13/2020 7:00 PM	Text Document	275 KB
OneDrive		AutoSave_2019_Jan_25_03_31_06_PM.log	1/29/2019 9:01 PM	Text Document	7 KB
oneonve		AutoSave_2019_Jan_25_12_11_08_PM.log	1/25/2019 3:27 PM	Text Document	0 KB
This PC		AutoSave_2018_Oct_25_06_42_35_PM.log	1/18/2019 12:53 PM	Text Document	16 KB
3D Objects		AutoSave_2018_Nov_27_05_04_07_PM.log	1/11/2019 8:23 PM	Text Document	7 KB
Desktop		PSPA_PWCur_V33.csv	1/9/2019 12:14 PM	CSV File	42 KB
Documents		AutoSave_2018_Oct_15_10_15_33_AM.log	10/17/2018 4:25 PM	Text Document	227 KB
Downloads		AutoSave_2018_Sep_26_03_55_49_PM.log	9/27/2018 10:25 AM	Text Document	18 KB
Downloads		AutoSave_2018_Sep_25_01_23_16_PM.log	9/25/2018 3:03 PM	Text Document	15 KB
Music		AutoSave_2018_Sep_21_04_40_22_PM.log	9/24/2018 9:10 PM	Text Document	12 KB
Pictures		PSPA_PWCur_V12.csv	9/4/2018 12:12 PM	CSV File	17 KB
Videos		AutoSave_2018_Jun_29_05_40_45_PM.log	7/16/2018 7:51 AM	Text Document	9 KB
Local Disk (C:)		AutoSave_2018_Jun_07_06_50_36_PM.log	6/24/2018 5:00 AM	Text Document	9 KB
3.6.2 Steps to sync files

Step 1-

The snapshot below shows the Sync settings along with the file paths in the Test PC and the local server which needs to be synced.



Step 2-

Shown below is a step to save sync settings as a Batch Job by clicking on the relevant icon.

Create a batch file t task planner: FreeFi	for unattended synchroniza ileSync.exe <job name="">.ffs_</job>	tion. To start, double-click this f batch	ile or schedule in a
Progress dialog: V Run minimized Auto-close	 Show error dialog Cancel 	When finished:	
How can I schedule a batch	njob?		

Step 3 -

This step shows how to create a basic task of the sync settings batch file. Browse and choose the relevant Batch file for sync settings.

Create Basic Task Wizard			×
Create a Basic Task Trigger	Program/script:		
Daily	C:\SyncSettings.ffs_batch		Browse
Start a Program Finish	Add arguments (optional): Start in (optional):		
		< Back	Next > Cancel

Step 4 -Refer below snapshot to schedule the sync setting batch script.

Edit Trigger						Х
Begin the task: Settings	On a schedule			~		
 One time Daily Weekly Monthly 	Start: 7/ 9/2019 Recur every: 1		19 PM		e across time zones	
Advanced setti	ngs for up to (random delay)	: 1 hour	~			
Repeat task	c every: 5 minutes all running tasks at end	of repetition du	fo	r a duration of: In	definitely 🗸	
Stop task if	it runs longer than:	3 days	\sim			
Expire: 7	/ 9/2020	7 PM 🗘	C	Synchronize acro	iss time zones	
🗹 Enabled						
				C	K Cancel	

Once this batch file is created. We can schedule this batch file in the Windows Task Scheduler to execute it periodically.

3.7 Non-Template View

In this feature, csv and log files are displayed which do not have templates. Users can download the whole zip folders of non-template records or he/she can download a single file or folder as well.

- 1. **Search box-** Users can search the system by entering the system name in the search box.
- 2. **Date Range** User can filter the systems based on the specified date.
- 3. **Group Name-** Group names of systems are displayed in the group name column.
- 4. **System Name-** System names are displayed in the system name column.
- 5. **Path** Path of the system displayed in path column.
- 6. **Date-** Last updated date and time of the folder is displayed in the Date column.
- 7. **Action -** When clicked on the action icon, the directory structure of the selected system is displayed with collection of folder and files. Users can download the whole zip folder or single file or folder by clicking on the download icon.

Date and time of the creation of the folder is displayed in front of every folder and file.

🗏 🌒 ULİNK	æ				Version: TR v4.3.0	Poonam Gaikwad 🧂
🚳 Dashboard	Search	Q		NON TEMPLATE VIEW		
兴 Users	Show 50	00 🗸 Entries	Select Date Range	Days APPLY		
E Devices	NO.	GROUP NAME \$	SYSTEM NAME \$	PATH	LATEST DATE	ACTION
📋 Result	1	Test_log	DTM2_7	F:\UlinkServerData\nonTemplateData\Test_log\DTM2_7	2020-10-01 9:56:38 AM	ø
📕 Test Suite	2	Test_log	DTM2_14	F:\UlinkServerData\nonTemplateData\Test_log\DTM2_14	2020-10-01 9:43:59 AM	6
💻 Test System View	3	Test_log	DTM2_6	F\UlinkServerData\nonTemplateData\Test_log\DTM2_6	2020-10-01 4:49:01 AM	ion i
	4	Test_log	DTM4_2	F\UIInkServerData\nonTemplateData\Test_log\DTM4_2	2020-09-30 8:09:47 AM	a
Non lemplate view	5	Test_log	DTM3_11a	F:\UlinkServerData\nonTemplateData\Test_log\DTM3_I1a	2020-09-29 12:29:03 PM	w
Script Template >	6	Test_log	DTM2_13	F:\UlinkServerData\nonTemplateData\Test_log\DTM2_13	2020-09-29 8:44:38 AM	Ø
🚯 Settings 🔷 🔸	7	Test_log	DTM_8	F:\UlinkServerData\nonTemplateData\Test_log\DTM_8	2020-09-29 7:51:40 AM	Ø
🌽 Support	8	Test_log	DTM3_5	F:\UlinkServerData\nonTemplateData\Test_log\DTM3_5	2020-09-25 7:55:32 AM	Ø
	9	Test_log	DTM_7	F:\UlinkServerData\nonTemplateData\Test_log\DTM_7	2020-09-24 10:51:11 PM	Ø
	10	Test_log	DTM3_3	F\UlinkServerData\nonTemplateData\Test_log\DTM3_3	2020-09-24 10:44:07 PM	Ø

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3.8 Test Result 3.8.1 Test Result View

🗏 🌢 ULİNK												5 Poonam	Gaikwad	•
🚯 Dashboard	Search	h	Q	t Suite		TEST RESU	LT VIEW	(i)	Set R	efresh Interval Never	*	-th	٥	
兴 Users	Vicibil	itu ALI	V 100	tue All	· · ·	Select Date Dange	· .	Dave Desult		evision		COMPARE		
🖨 Devices	VISION	ILY-ALL	• 3to	US-ALL	v	Select Date Range		Result	ALL V		APPLT	COMPARE	DELETE	
📋 Result	Show	500	✓ Entries											
Test Suite	NO.	69	DEVICE ID \$	FW REV \$	I/F TYPE \$	TEST SUITE ¢	SUITE VER \$	S/W VER \$	START DT \$	PATH \$	5	ACTION		
Test System View	1		WDS100T2X0C-00L350_181.	101020WD	NVMe	TCG Certification	Script REV 3.5	DM 7.1.1300	2019-08-15 02:31:	TestLog / DTM_105	0	C) 📷 🗹		U
Non Template View	2		KINGSTON SKC2000M810	S2681101	NVMe	NVMe-RGS	Script REV 2.5	DM 711300	2019-07-16 05:31:	TestLog / DTM_105	0	C) 📷 🖉		
	3		ADATA SX8200PNP_21492	R0906I	NVMe	NVMe-RG5	Script REV 2.5	DM 7.1.1300	2019-07-03 05:55	TestLog / DTM_105	0	C) 📷 🖉		
Script Template >	4		10030010		SATA/ATA	TCG Certification	Script REV 3.4a	DM 7.1.1300	2019-05-16 12:01:	TestLog / DTM_105	0	()		
Settings >	5		100300C0		SATA/ATA	TCG Certification	Script REV 3.4	DM 7.1.1300	2019-05-15 12:07:	TestLog / DTM_105	0	C) 📷 🖉		
🎤 Support	6		PCIE SSD_8D7807940A80	ECEMJ2T2	NVMe	NVMe-RGS	Script REV 2.5	DM 7.1.1300	2019-05-15 09:19	TestLog / DTM_105	8	OD 📷 🖉		
	7		HS-SSD-C2000_30002847	ECFM12.1	NVMe	NVMe-RGS	Script REV 2.0	DM 7.1.1300	2019-04-01 05:45	TestLog / DTM_105	0	The second seco		
	8	\Box	WDC1_Dev1		NVMe	TCG Certification	Script REV 3.2	DM 7.1.1300	2019-03-26 03:46	TestLog/DTM_105		• 💽 📷	\Box	
	e.					©2020 U	LINK Technology,	Inc.				Privacy Policy Ter	rms of Use	

By clicking on the Results module within the menu section(located at the left side of the screen) the user is navigated to the Test Result View screen.

This is one of the most important features of the application. It is used to compare the test results within the same Test Suites. **"Test Result View"** page shows all parsed CSV files whose template is available.

Search - Text search can be performed on the Device Id, Test suite, Suite version, I/F type, FW revision, Path, and S/W version column.

Set refresh Interval - User can select the refresh page time by selecting the time from drop down. After selecting the time from drop down, the page will get refreshed in the specified time.

It contains the Test result information as detailed below:

- Compare This feature is used to compare the test results within the same Test Suites only.
- Device Id Please note that If the device id is not available in the CSV file, then the device id is generated on the basis of the combination of model and serial number.
- Test Suite
- Test Suite Version
- Test Software(S/W) Version
- Firmware(FW) Revision
- Start Date
- Status Column shows the Complete or Incomplete file status
- Action Column -
 - 1. As per status, the file will be available for comparison. The user can change file visibility to visible or invisible.
 - 2. Src path- It shows the source path of the Test Result file. The source path has a file preview and download option.
 - 3. Edit icon- User can add comments for the test result by clicking on the edit icon.
- Delete Through this column the user is able to delete the test result.

Filters:

As per filter selection, the user is able to filter all test results.

Filters are applied to the following parameters:

- Interface(I/F) Type
- Test Suite
- Test Suite Version
- Test Software(S/W) Version
- Firmware(FW) Revision
- Path(Machine Path)

- Date Range
- Days(Time since 'n' days) Note - When the user selects the date range then the days' filter will show days as per the dates and vice versa.
- Status Filter shows 'Complete' or 'Incomplete' and the default is 'All'.
- Visibility Visible, Invisible, and the default is 'All'.
- Result- Pass, Fail and the default is 'All'.

3.8.2 Recycle Bin

🗏 🌒 ULİNK											Version: TR v4.3.	D Po	onam Gaikwad 🛔
Dashboard	Search		Q				RE	CYCLE B	IN 🛈				٥
兴 Users	I/F Type		✓ Te	st Suite	~	Test Suite Version	n v	Test S/W V	ersion 🗸 🗸	FW Revision	¥ F	ath	×
Devices	Visibility	-ALL	✓ Sta	atus-ALL	~	Select Date Ran	ige	Days	Result-ALL V		APPLY	RESTO	DRE DELETE
C Result	Show 5	500	♥ Entries										
🧮 Test Suite	NO.		DEVICE ID \$	FW REV \$	I/F TYPE \$	TEST SUITE \$	SUITE VER \$	S/W VER 🗢	START DT 🗢	DELETE DT 🗢	PATH \$	•	ACTION
Test System View	1		PC601 NVME SK HYNIX 512.	80000111	NVMe	NVMe-RG5	Script REV 2.6	DM 8.0.1400	2020-01-10 06:36:40 PM	2020-02-07 12:30:25 P	Test_log \DTM4_1	0	
Non Template View	2		PC601 NVME SK HVNIX 512.	80000111	NVMe	NVMe-RG5	Script REV 2.6	DM 8.0.1400	2020-01-10 06:30:56 PM	2020-02-07 12:30:25 P	Test_log \DTM4_1	8	
	3		SKHYNIX PEGIIO NVME 4T	11030G00	NVMe	NVMe-RGS	Script REV 2.6	DM 8.0.1400	2020-01-10 06:17:32 PM	2020-02-07 12:30:25 P	Test_log\DTM4_3	0	
Script Template	4		SKHYNIX PEGIIO NVME 4T	11030G00	NVMe	NVMe-RGS	Script REV 2.6	DM 8.0.1400	2020-01-10 05:31:35 PM	2020-02-07 12:30:25 P	Test_log\DTM4_3	8	
Settings >	5		SKHYNIX PEGIIO NVME 4T	11030G00	NVMe	NVMe-RGS	Script REV 2.6	DM 8.0.1400	2020-01-10 04:47:47 PM	2020-02-07 12:30:25 P	Test_log \ DTM4_3	0	
🔑 Support	6		SKHYNIX PEGIIO NVME 4T	11030G00	NVMe	NVMe-RGS	Script REV 2.6	DM 8.0.1400	2020-01-10 04:23:10 PM	2020-02-07 12:30:25 P	Test_log\DTM4_3	0	
	7		SKHYNIX PEGIIO NVME 4T	11030G00	NVMe	NVMe-RGS	Script REV 2.6	DM 8.0.1400	2020-01-10 03:51:48 PM	2020-02-07 12:30:25 P	Test_log\DTM4_3	8	
	· · ·	\cap	EVIDANC DEEDA KRAIE /T	1070500	A.11.24.4	60.04 - Por r	CI-+ 001/07	DM 0.01/00	2020 01 10 32 (0.00 44)	1010 01 01 11 10 0C 0	T 11 PTLIF 7	-	

This page shows all deleted test results along with filters.

Through this page, the user is able to restore all/selected test results or permanently delete them by selecting the checkbox.

Filters applied to the parameters are the same as that we have in Test Result View[See 3.5.1].

3.8.3 Delete Test result

🗏 🌢 ULİNK										Version: TR v4.3 (D Pool	nam Gaikwadi 🛔
🚳 Dashboard		٩		Delete	Confirmati	on		× (i)				٥
, Users	VF Type	∼ Te	st Suite	Are you sure	you want to dele	ete the selected To	est Results?	<u>×</u>	FW Revision		ath	×
	Visibility-ALL	✓ Sta		Note: Deleti	ng the Test Resul	ts will permanent	ly delete	Result-ALL 🗸		APPLY	RESTOR	DELETE
🖞 Result		✓ Entries	0	records. This implies database an	that the records	will be deleted fro	om the					
📕 Test Suite	NO.	DEVICE ID ¢	FW REV 0					START DT .	DELETE DT 🕈	PATH \$	*	ACTION
Test System View	1 🛛					CANCEL	DELETE	0-09-28 11:38:25 AM		Test_log\DTM4_13	8	
				NVMe	NVMe-RCS	Script REV 2.6	DM 8.0.1400	2020-01-10 06:36:40 PM		Test_log \ DTM4_1	0	
Non template view				NVMe	NVMe-RGS					Test_log\DTM4_1	0	
Script Template	4			NVMe	NVMe-RGS					Test_log\DTM4_3	0	
Settings >				NVMe	NVMe-RGS					Test_log\DTM4_3	8	
🖋 Support				NVMe	NVMe-RGS					Test_log\DTM4_3	0	
				NVMe	NVMe-RGS					Test_log\DTM4_3	0	
											-	~
						02020 ULINK Technolo	aw Inc.				Privacy Polic	V Terms of Use

When the user goes to delete a particular/all test result, the confirmation pop-up comes up. It prompts for confirmation with a required message before deletion.

3.8.4 Test Result Comparison

Select more than 10 records and click on the compare button, the user is navigated to the Test Result Comparison screen as shown below.

🗏 🅑 ULİNK	•			Version: TR v4.3.0	Poonam Gaikwad 🔺			
🚯 Dashboard		TEST	RESULT COMPARISON		E ± 5			
	Test Status V APP	Ľ ₩		COMPARE	RESET REMOVE			
a Users	Legend PASS FAIL WARN NA - Not Applicable NL - Not Complete NU - Not Letined NM - Not Match							
A Devices	Selected/Deselected Column	1	2 🔵	3	4 🔵			
	Test Suite	ATA-RGS	ATA-RGS	ATA-RGS	ATA-RGS			
📋 Result	Test Version	Script REV 5.9	Script REV 5.9	Script REV 5.9	Script REV 5.9			
	Device Id	WDC WDS250G2B0B-00YS70_1730	SAMSUNG SSD 850 EVO 250GB_S2	CRUCIAL_CT275MX300SSD4_17511A	WDC WDS250G2B0A-00SN			
📒 Test Suite	Capacity	250 GB	250 GB	275 GB	250 GB			
	Tested	19	21	19	19			
Test System View	Passed	10	13	12	10			
	Failed	1	0	1	1			
Non Template View	Not tested	1	1	1	1			
Coriet Template	Passed with Waiver	0	0	0	0			
	Start Date	2020-09-13	2020-08-19	2020-08-19	2020-08-19			
Settings >	Start Time	06:34:49 PM	08:53:55 PM	08:52:18 PM	08:50:40 PM			
G occurry	End Date	2020-09-15	2020-08-22	2020-08-21	2020-08-21			
🔑 Support	End Time	05:46:17 PM	05:04:16 AM	11:45:55 PM	07:12:37 PM			
	Test Time	47:11:18	56:09:53	50:53:31	46:21:50			
	OS Type	x64	x86	х64	x64			
	Software Version	8.1.1500	8.1.1500	8.1.1500	8.1.1500			
	Model Number	WDC WDS250G2B0B-00YS70	SAMSUNG SSD 850 EVO 250GB	CRUCIAL_CT275MX300SSD4	WDC WDS250G2B0A-00SN			
	Serial Number	173087421985	S2R5NB1HA20279E	17511A28072E	182655807039			
	Firmware Revision	X61130WD	EMT02B6Q	MOCR060	X61190WD			
	Total LBA	488397168	488397168	537234768	488397168			
	Device Interface	SATA+NET	SATA+NET	SATA+NET	SATA+NET			
		©2020 ULINK T	echnology, Inc.	P	rivacy Policy Terms of Use			

The page shows the comparison among the selected test results as per the keys and its corresponding values(Pass, Fail, ND, NM, NA, Warn, and so on).

If the selected records are more than 10 then by using Select Range dropdown user is able to see all the records.

Example: If 12 records are selected for comparison then on 1st page 10 records are shown by default and the Select Range dropdown has a sequence like 1-10, 11-12. Once the user selects the range say, 11-12, the rest of the two records are shown.

Test Status Filter- Users can apply the filter on the basis of value such as Pass, Fail, ND, NM, NC, Warn, and so on.

Download- As per the test filter selection, the user is able to download the records in CSV or Excel format.

The User can download all the records by selecting download All as CSV or Excel.

The User can download only a few of the records which are on the current page.

Selected/Deselected Column- This column has a Toggle icon. It is used to select a particular record for comparison. Select a minimum of two records from the same test suite

for comparison. The count of the selected records is also shown in the Test Result Comparison page.

Note: The metadata section also shows the following details.

- Tested (The total count of Test cases Tested)
- Passed (The total count of Test cases Passed)
- Pass With Waiver(The total count of Test cases Waived)
- Failed (The total count of Test cases Failed)
- Not tested (The total count of Test cases Not tested)

The above details usually come up in the CSV test result files.

However, in the CSV result files of those Test Suites in which these details do not appear(for example in NVMe-PTC Test Result), the system calculates and add the counts of Tested, Passed, Failed, Not Tested by looking at the status of Test cases and adding the total counts accordingly.

Similarly, when one downloads the data in the CSV or excel format, one is able to see the total count of Tested, Passed, Failed, and Not Tested Test cases.3.8.5 Test Result Comparison - Selected Records Comparison

Through the toggle icon within the Selected/Deselected column, when the user selects more than one record for comparison it navigates to the below screen.

🗏 🌢 ULİNK				Versior	r: TR v4.3.0 Poonam Gaikwad 🛔
		1	EST RESULT COMPAR	SON SELECTED	3
🚯 Dashboard	Test Status V APPLY				COMPARE RESET REMOVE
은 Users	Legend PASS FAIL WARN NA - Not Applicable	NC - Not Complete ND - Not Define	ed 📕 NM - Not Match		
	Selected/Deselected Column 1		2	3	4
E Devices	Test Suite ATA	A-RGS	ATA-RGS	ATA-RGS	ATA-RGS
P Decult	Test Version Scri	ipt REV 5.9	Script REV 5.9	Script REV 5.9	Script REV 5.9
L Readin	Device Id WD	C WDS250G2B0B-00YS70_17	SAMSUNG SSD 850 EVO 250GB	CRUCIAL_CT275MX300SSD4_175	WDC WDS250G2B0A-00SM50_1
📒 Test Suite	Capacity 250	GB	250 GB	275.CP	250 GB
	Tested 19		21 SAMSUNG SSD 850 EVO 250	0GB_S2R5NB1HA20279E	19
💻 Test System View	Passed 10		13	12	10
	Failed 1		0	1	1
Non Template View	Not tested 1		1	1	1
-	Passed with Waiver 0		0	0	0
Script Template	Start Date 202	20-09-13	2020-08-19	2020-08-19	2020-08-19
A	Start Time 06.3	34:49 PM	08:53:55 PM	08:52:18 PM	08:50:40 PM
wy settings	End Date 202	20-09-15	2020-08-22	2020-08-21	2020-08-21
A Support	End Time 05:4	46:17 PM	05:04:16 AM	11:45:55 PM	07:12:37 PM
	Test Time 47:1	11:18	56:09:53	50:53:31	46:21:50
	OS Type x64		x86	x64	x64
	Software Version 8.1.1	1500	8.1.1500	8.1.1500	8.1.1500
	Model Number WD	C WDS250G2B0B-00YS70	SAMSUNG SSD 850 EVO 250GB	CRUCIAL_CT275MX300SSD4	WDC WDS250G2B0A-00SM50
	Serial Number 1730	087421985	S2R5NB1HA20279E	17511A28072E	182655807039
	Firmware Revision X611	130WD	EMT02B6Q	MOCR060	X61190WD
	Total LBA 488	8397168	488397168	537234768	488397168
	Device Interface SAT	A+NET	SATA+NET	SATA+NET	SATA+NET
	and the second se	6 20201	II INK Technology Inc	te a terrestere te to	Drivercy Dolicy Terms of Line

Compare - By clicking on the **Compare** button the selected records get compared.

Reset - When the user clicks on the **Reset** button, the selected records get refreshed.

Remove - When the user clicks on the **Remove** button then the selected test result will be removed from the comparison.

3.8.5 Pre-Processor Mechanism-

It is a Mechanism to process the SATA-IO template which follows a different template pattern.

3.9 Template 3.9.1 Upload Template

🗏 🌒 ULİNK	Version: TR v4.3.0	Poonam Gaikwad 🤱
🚯 Dashboard	1 Upload Template 2 Case Mapping 3 Compare View 3 Waiver Template View 3 Template Sequence	
兴 Users		
🖨 Devices	Select file to upload Choose File No file chosen	
Result	Description	
📕 Test Suite	Set Keys* as per this Template.	
Test System View	UPLOAD	
Non Template View		
🔲 Script Template 🛛 👻		
> Generate		
> View		
Settings >		
🔑 Support		
	22220 III 01/17/16/16/16/16/16/16/16/16/16/16/16/16/16/	

Select the template menu on the left side of this page to upload the template.

Choose File:

Select 'Choose File' to browse for the template file on your computer.

Upload:

Select the 'Upload' button to upload the file selected in the Choose File box.

Description:

This text box is about to put some comments about the version template(Short description about version template)

Set Keys* as per this Template:

It represents the cases that can be displayed based on the version template which is being uploaded. **Note: The latest master templates of each suite will be installed when installing Test Reporter.**

🗏 🌢 ULİNK	Version: TR v4.3.0	Poonam Gaikwad 🛔
Dashboard	Upload Template O Case Mapping Case Mapping Compare View O Waiver Template View O Template Sequence UPLOAD TEMPLATE X	
	Test Suite: SATA-IO IL DEV Rev 15 DGT_ULINK_TW_green02.csv Test Version: Script REV 3.0 DGT_ULINK_TW_green02.csv	
🗋 Result	Note: Template with given test suite & version already exists. Do you want to update ? YES CANCEL	
Test System View Non Template View		
Script Template Generate		
> View		
🏓 Support		
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After Clicking on the upload button, the above modal appears.

Modal contains the Test suite and Test version name. If the particular Test Suite and Test Version are already uploaded, then the following note is displayed.

Note: Template with the given test suite & version already exists. Do you want to update?

If 'Yes' is selected then the already existing Template is updated. In case if the Test Suite and Version does not exist, then the new template/version will be created based on the selected file upload.

Select 'Cancel' to return to the template upload page.

3.9.2 Case Mapping

≡ ⊌ULİNK_		Version: TR v4.3.0 Poonam Gaikwad 🛓
🚳 Dashboard	Upload Template 2 Case Mapping Compare	View 🖉 Waiver Template View 🖉 🕄 Template Sequence 👔
സ്സ Users	RESET	NEXT CANCEL
Devices		
📋 Result	MASIER TEMPLATE	Script REV 3.0 Total rest cases: / Not Mapped: 0
📕 Test Suite	Itemization	Itemization 2
🖵 Test System View	General Test Requirements	General Test Requirements Cancel Content Cont
Non Template View	Native Command Queuing	Native Command Queuing
🚺 Script Template 🛛 👻	Asynchronous Signal Recovery	Asynchronous Signal Recovery
> Generate	• Software Settings Preservation	 Software Settings Preservation
> View	Interface Power Management	Interface Power Management
🔞 Settings 💦 👌	Digital Optional Features	Digital Optional Features
🔑 Support		
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Once the Template is uploaded, the user is able to come to the screen as shown above.

- This will help to have test cases, subcases with different description but the same test criteria in nature so to be able to compare
- The user will have an interface in which he will be able to see the master and the version template side by side.
- The left side depicts the master template
- The right side depicts the version template
- Through this page, the user will be able to index/map the test cases/subcases (having a different description) manually within different versions of the same test suite.

Indexing/Mapping process:

- The user will browse the template file to upload and then click on submit.
- When the user is uploading a new version template, the user will be able to see the master template and the contents of the new version side by side.

- The contents of the new version will already have most of the mapping done as compared with the master template based on the application key.
- User has the option to map the cases by dragging and dropping of the test cases/subcases of the master template to the version template

This section will comprise of 3 buttons namely: Validate, Reset, and Next

- Reset: This button will reset the version template to the initial values which were there during template upload.
- Next: The next button will be clicked by the user once he has done the validation from his side and it is ok that the template can now go to the Compare view.
- Cancel It will cancel the process
- At each test case/subcase level also, there will be an option to reset the test case/subcase back to its original value which was existing at the time of template file upload.

This page has an info icon:

This will help the user to identify or use the icons and symbols used on this page.

3.9.3 Compare View

■ WULINK		Vers	iion: TR v4.3.0 Poonam Gaikwad 💧
🚳 Dashboard	1 Upload Template 2 Case Mapping	3 Compare View 3 Vaiver Template View 5 Template Sequer	i
္ Users		BACK NEXT CANCEL	
Devices	MASTER TEMPLATE	Script REV 3.0	
C Result	Itemization General Test Requirements GTR-0: Software Reset	Itemization General Test Requirements GTR-01:Software Reset	
📕 Test Suite	GTR-02: Gen-2 or above Signaling Speed Backwards Compatibility GTR-03: DMA Protocol Support GTR-04: General SATA Support	GTR-02: Gen-2 or above Signaling Speed Backwards Compatibility GTR-03: DMA Protocol Support GTR-04: General SATA Support	
📮 Test System View	GTR-05: Unrecognized FIS receipt Native Command Queuing	GTR-05: Unrecognized FIS receipt Native Command Queuing	
Non Template View	NCQ-02: Read Log Ext Log 10h support NCQ-03: Intermix with Legacy and NCQ commands	NCQ-02; Read Log Ext Log 10h support NCQ-02; Read Log Ext Log 10h support NCQ-03; Intermix with Legacy and NCQ commands	
🔲 Script Template 🛛 👻	NCQ-04: Device response to malformed NCQ command sub 1: Specified LBA is cut of the device supported range sub 2: Duplicate Tay value for outstanding NCQ command and 8: 7: Device it is an efficience surgered example.	NCQ-04: Device response to mailformed NCQ command sub 1: Specified LBA is out of the device supported range sub 2: Duplicate Tag value for outstanding NCQ command sub 3: The value in is suit fails the duplican supported source.	
> Generate	NCQ-OS: DM Setup Auto-Activate Asynchronous Signal Recovery	NCQ-05: DMA Setup Auto-Activate Asynchronous Signal Recovery	
> View	ASR-01: COMINIT response interval ASR-02: COMRESET/COMINIT OOB interval	ASR-01: COMINIT response interval ASR-02: COMIESE T/COMINIT OOB interval	
🚯 Settings 🔷 👌	Software Settings Preservation SSP-00: Initialize Device Parameters SSP-02: Read Stream Error Log SSP-03: Security Mode State	Software Settings Preservation SSP-0: Initialize Device Parameters SSP-02: Read Stream Error Log SSP-03: Security Mode State	
🌽 Support	B. Construction of the second seco		
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When the user clicks the **NEXT** button then it will navigate to compare view.

Here, the user can review the mapping and click on 'Back'. It will go to the previous page for map cases or 'Next' to go to the next screen/page.

3.9.4 Waiver Template

🗏 🌢 ULİNK	Version: TR v4.3.0	Poonam Gaikwad 💧
🆚 Dashboard	Upload Template O Case Mapping O Compare View O Waiver Template View O Template Sequence O	
읬 Users	BACK SUBMIT CANCEL	
Devices	Meta Info	
🖰 Result	Itemization	
📕 Test Suite	Ceneral Test Requirements	
Test System View Non Template View	Native Command Queuing	
Script Template	Asynchronous Signal Recovery	
> Generate	Software Settings Preservation	
> View	Interface Power Management	
Ø Settings >	Digital Optional Features	
🎤 Support		

When the user clicks on the Next button it will come to this screen. This will have the template view where the user can change the waiver switch button (wherever and if required)

Back: By clicking on this button user will go back to the compare view

Submit: After clicking this button the template gets uploaded.

Cancel: It will cancel the whole process.

3.9.5 Reparse Test Results

🗏 🌒 ULİNK				
🚳 Dashboard	1 Upload Templ	ate 3 Case Mapping 3 Compare View 2 Waiver Template View 3 Temp	late Sequence (i)	
<mark>유</mark> Users		INCEL		
Devices	🕒 Meta Info	Do you want to Reparse the Test Results?		
🗋 Result	Itemization	per this Version Template. 'NO' will not Reparse the Test Results.		
Test Suite Test System View	General Test Requirements	YES NO		
Non Template View	Native Command Queuing			
C Script Template 👻	Asynchronous Signal Recovery			
> Generate	Software Settings Preservation			
> View	Interface Power Management			
🚯 Settings 🔷 👌	Digital Optional Features			
🎤 Support				
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While uploading the version template which already exists the page asks for the "Do you want to Reparse the Test Results? as per this version template. " Once the user clicks on the 'yes' it will reparse the test results and 'no' will remain the test result as it is.

3.9.6 Template Sequence

🗏 🌢 ULİNK	Vers	ion: TR v4.3.0	Poonam Gaikwad 💧
🚳 Dashboard	Upload Template O Case Mapping O Compare View O Waiver Template View O Template Sequence	i	C
유 Users	SUBMIT		
Devices	Itemization		
🛱 Result	General Test Requirements		
📕 Test Suite	Native Command Queuing		
💻 Test System View	Asynchronous Signal Recovery		
Non Template View	Software Settings Preservation		
Script Template >	Interface Power Management		
 Settings > Support 	Digital Optional Features		
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After the template gets submitted, the user is able to navigate to the Template sequence page.

- By dragging and dropping users can change the sequence of the test cases as required.
- This reset icon will reset the template to the initial values which were there during template upload.

3.9.7 Template List

🗏 🌒 ULİNK						Version: TR v4.3.0	Poonam Gaikwad 💧
🚳 Dashboard	Search	٩	TEMPLATE LIST	i			
兴 Users	Show 500 🗸	Entries					
🖨 Devices	NO.	TEST SUITE \$			VERSION		ACTIONS
Result	1	ATA-PTC			View		C 💼
Trate Contra	2	ATA-RGS			View		2 1
Test Suite	3	Dell			View		2 💼
🛄 Test System View	<u>.</u> 4	NVMe-PTC			View		C 🛍
Non Template View	5	NVMe-RGS			View		2 🛈
	6	SATA-IO IL DEV Rev 1.5			View		2 🖻
Script lemplate *	7	SCSI-PTC			View		2 0
> Generate	8	SCSI-RGS			View		2 ሰ
> View	9	TCG Certification - OPAL			View		2 1
	10	TCG Compliance			View		2 0
🚳 Settings 🔷 👌	n	TCG_AppNote			View		2 ሰ
Support	12	Test_Suite_ABC			View		2 1
	13	ULINK TCG Enterprise			View		2 0
	14	ULINK TCG/1667 - OPAL			View		2 1
4			©2020 ULINK Technology, Inc.			Pr	ivacy Policy Terms of Use

Once the template gets uploaded then its Master and Version template gets generated. Select the View menu on the left side of the page to view the uploaded template.

Grid view: Grid view contains the Test suite name, Master view, its version, and action column.

Master view: To see the master template, select the test suite name hyperlink from the master view column.

Version: To see the uploaded version of that particular test suite, select view hyperlink from the version column.

Action: It has the provision of an update sequence and deletes the template.

3.9.7.1 Update Sequence

🗏 🌒 ULİNK		Version: TR v4.3.0	Poonam Gaikwad 💧
🚯 Dashboard	TEMPLATE SEQUENCE	(i)	e
္ Users	Image: Image:		
Devices	SATA Features Enabled (Default State)		
C Result	Set Features w/SATA features		
📕 Test Suite	MandatoryCmds		
I Test System View	Write Cache Flush Time (ms)		
Non Template View	Read/Write Boundary Check		
🔲 Script Template 🛛 👻	ATA Command Test		
> Generate	DCO Identification		
> View			
🚱 Settings 💦 🔸	SUBMI		
🔑 Support			
	000011111075-sheelers tes		
	ezozo ocivik wchiology, nc.	Phy	acy Policy Terms or Use

Through this page, the user is able to rearrange the sequence of the test cases.

3.9.7.2 Delete Master Template

🗏 🌢 ULİNK	(*) 			N	Version: TR v4.3.0 Poonam Gaikwad 🖌
🚳 Dashboard	Search	٩	DELETE CONFIRMATION *		
<mark>牉</mark> Users	Show 500 🗸	Entries	Are you sure you want to delete the Test Suite 'ATA-PTC'?		
Devices	NO.	TEST SUITE .	Note: Deleting the Test Suite will also delete it's	VERSION	ACTIONS
🖹 Result	1				2 🗎
	2		CANCEL DELETE		1
Test Suite	3				2 🖻
💻 Test System View	4				2 🗊
Non Template View	5				2 🗎
	6				1
🛄 Script Template 💉	7				2 🖻
> Generate	8				2 0
	9				2 🖻
1 NPM	10				2 🕯
🚱 Settings 🔹 👌	π				2 🖻
6 c	12				2 1
Jupport -	13	ULINK TCG Enterprise			2 🗈
	14				1

When the user goes to delete a particular template, the confirmation pop-up comes up. It prompts for confirmation with a required message before deletion.

3.9.8 Master Template View

🗏 🌢 ULİNK	Version: TR v4.3.0	Poonam Gaikwad 💧
	E TEMPLATE VIEW	
🏠 Dashboard	Test Cases [Format Used : Test Case subcase]	
읝 Users		
E Devices		
C Result	SATA Features Enabled (Default State) Device Steep enabled Device Steep	
III Test Suite	Uevice Automatic Faritai to summer transitions enabled software settings preservation enabled In-order data deliver enabled	
😐 Test System View	device initiating interface power management enabled DMA Setup Auto-Activate optimization enabled	
📔 Non Template View	non-zero buffer offsets in DMA Setup FIS enabled Set Features w/SATA features	
🚺 Script Template 🛛 👻	Enable non-zero buffer offsets in DMA Setup FIS Disable non-zero buffer offsets in DMA Setup FIS	
> Generate	Enable DMA Setup Auto-Activate optimization Disable DMA Setup Auto-Activate optimization Enable DMA Setup Auto-Activate optimization Enable davide. bitting instruction access meansament	
> View	Endure device initiating interface power initialigement Disable device initiating interface power management Enable in-order data deliverv	
Settings >	Disable in-order data delivery	
🔑 Support		
	COOD III IN Y Technology (Inc. Doing)	Defent Terms of the

The master template view contains consolidated cases of the uploaded version.

3.9.9 Template Version List Page

🗏 🌒 ULİNK			Version	TR v4.3.0 Poonam Gaikwad 🔺
🐴 Dashboard	€	TEMPLATE VERSION LIST Test Suite: ATA-PTC	Ū	
유 Users	Search			Show 🗸
	Show 500 🗸 Entries			
	NO. TEST SUITE VERSIONS \$	DESCRIPTION	DATE 🗢	ACTIONS
📒 Test Suite	1 Script REV 6.8		2020-08-27 5:24:53 AM	🛓 🏠 👁 🕑 🗎
💻 Test System View	2 Script REV 6.6		2020-05-05 1:29:48 PM	🛓 🕁 🕐 🗭 💼
🎒 Non Template View	3 Script REV 6.7		2020-05-01 6:19:16 AM	🛓 ★ 💿 🗭 🗎
	4. Script REV 6.4		2020-01-13 1:29:08 PM	🛓 🏠 👁 🕑 💼
	5 Script REV 5.6		2020-01-13 1:26:05 PM	🛓 🏠 👁 🗭 💼
> Generate	6 Script REV 6.0		2020-01-13 1:18:07 PM	🛓 🏠 💿 🗭 💼
> View	7 Script REV 6.5		2020-01-13 12:59:50 PM	📥 ★ 💿 🗭 💼
	8 Script REV 6.3		2020-01-13 12:55:15 PM	📥 🏠 💿 🗭 💼
Settings >	9 Script REV 6.2		2020-01-13 12:52:44 PM	🛓 🏠 💿 🗭 💼
🔑 Support	10 Script REV 6.1		2020-01-13 12:49:51 PM	🛓 🏠 💿 🗭 💼
		OZUZU ULINK TECHNOLOGIJ, Inc.		Privacy Policy Terms of Use

The template version list page shows the uploaded test suite version name and the option to view the template version.

Description: The description column shows a short description of the version template.

Action: The column consists of the following features:

- After clicking on the download icon user is able to download the uploaded version template
- Clicking on the Favorite/Unfavorite icon user is able to mark the template as Favorite/Unfavorite
- Clicking on the view icon, the user will be able to see the meta info, as well as cases & subcases of the given template.
- Clicking on the update waiver icon, the user will have the option of marking/unmarking the particular test case as waivered
- Clicking on the delete icon user is able to delete the particular template.

3.9.10 Version Template View

🗏 🚯 ULINK			Version: TR v4.3.0	Poonam Gaikwad 💧
Ð		TEMPLATE VIEW		
a Dashboard	Description			-
유 Users	Meta Information			-
	Test Suite	ATA-PTC		0
🗛 Devices	Test Version	Script REV 6.8		Ĭ
	Software Version	8.1.1500		-
P Result	Drive Master Type	Tested by ULINK DriveMaster Professional		-
		CATA AFT		
Tank Casilin	Test Cases [Format Used : Test Case su	ibcasel subcase2]		
lest Suite	SATA Features Enabled (Default State)			0
1	Device Sleep enabled			-
Test System View	Device Automatic Partial to Slumber transitions enable	d		
	software settings preservation enabled			_
칠 Non Template View	in-order data delivery enabled			
	device initiating interface power management enabled			
🗋 Script Template 🗸 🗸	DMA Setup Auto-Activate optimization enabled			
	non-zero buffer offsets in DMA Setup FIS enabled			
	Set Features w/SATA features			
> Generate	Enable non-zero buffer offsets in DMA Setup FIS			
	Disable non-zero buffer offsets in DMA Setup FIS			
> View	Enable DMA Setup Auto-Activate optimization			
	Disable DMA Setup Auto-Activate optimization			
	Enable device initiating interface power management			
w settings	Disable device initiating interface power management			
And the second se				
J Support				
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The template view contains Meta Information, Summary, and Cases(Keys). For cases, the following formats are taken into consideration:

- For Test Case, it is represented in Bold format
- For Subcase1, it is represented in Normal format
- For Subcase2, it is represented in the Italic format

3.9.10.1 Update Waiver

🗏 🌒 ULİNK		Version: TR v4.3.0	Poonam Gaikwad 💧
ঞ Dashboard 兴 Users 급 Devices	UPDATE WAIVER		
 Result Test Suite Test System View Non Template View Script Template ~ Cenerate View 	 Meta Info SATA Features Enabled (Default State) Device Sleep enabled Device Automatic Partial to Slumber transitions enabled software settings preservation enabled in-order data delivery enabled device initiating interface power management enabled DMA Setup Auto-Activate optimization enabled non-zero buffer offsets in DMA Setup FIS enabled Set Features w/SATA features 		
(∰ Settings →	UPDATE ©2020 ULINK Technology, Inc.	Pri	vacy Policy Terms of Use

Clicking on the update waiver icon, the user navigates to this page. The page has the option of marking/unmarking the particular test case as waivered.

3.9.10.2 Delete Version Template

🗏 🌢 ULİNK			Version: TR v4.3	.0 Poonam Gaikwad 🛔
🚳 Dashboard	©	DELETE CONFIRMATION *	•	
, Users	Search	Are you sure you want to delete the Version 'Script REV 6.7'?		Show
		Note: Deleting the Test Version will also delete it's corresponding Test Desult		
🖹 Result	Show 500 V Entries			
III Test Suite	NO. TEST SUITE VERSIONS \$	CANCEL DELETE	DATE \$	ACTIONS
LL Test System View				
Non Template View	3 SCHEREV 6.7			
Script Template 🔹	 Script REV 6.4 			
	5 Script REV 5.6			± û ● Ư ®
> Generate				≟ ☆ ⊚ 🖉 📋
> View				📩 ★ 👁 🗹 🗎
	B Script REV 6.3			🕹 🕁 👁 🗭 🗎
Settings >	9 Script REV 6.2		2020-01-13 12:52:44 PM	🛓 🕁 👁 🗭 💼
🌽 Support	10 Script REV 61			📥 🏠 👁 🗭 📋
		©2020 ULINK Technology, Inc.		Privacy Policy Terms of Use

When the user goes to delete a particular version template, the confirmation pop-up comes up. It prompts for confirmation with a required message before deletion. Note that deleting the test version will also delete its corresponding test results.

3.10 System Settings3.10.1 Trigger Job - Sync and Parse Files

🗏 🌢 ULİNK	Version: TR v43.0	Poonam Gaikwad 💧
🚯 Dashboard	TRIGGER JOB ①	
兴 Users	No. Job Name Action	
🖨 Devices	1 Sync Files EXECUTE	
📋 Result	2 Parse Sync Files EXECUTE	
📕 Test Suite	3 Parse Unparse Files' For those unprocessed files whose template not uploaded earlier. EXECUTE	
Test System View	4 Parse Identify Binary Files" For those processed files whose Binary files were not parsed earlier. EXECUTE	
Non Template View	S Sync Non-Template Files* For those unprocessed files whose templates are not uploaded . EXECUTE	
Script Template		
Settings		
🔑 Support		
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Please refer the above snapshot for the trigger job

Currently, the application performs 3 jobs(running in the background) namely:

- 1. Sync File Through this job all the files get synced
- 2. **Parse file** Once the parse job is performed successfully, the user is able to view all the test results whose template is uploaded (process status is FILE_PARSE_DONE) within the application.
- 3. **Parse * For those unprocessed files whose template was not uploaded earlier -**Through this job, the system will parse all those files whose template was not uploaded previously.
- 4. **Parse Identify Binary Files-** For those processed files whose Binary files were not parsed earlier.
- **5. Sync Non-Template Files -** For those unprocessed files whose templates are not uploaded in the system.

3.10.2 Sessions Settings

The page has a tab for configuring the login session time.

🗏 🌒 ULİNK	Version: TR v430	Poonam
Dashboard		
A Users	CONFIGURE LOGIN SESSION TIMEOUT ()	
Result	Current Session Timeout 1 WEEK	
📒 Test Suite	Set Session Timeout VINUTE V	
Test System View		
Non Template View	SAVE	
🚺 Script Template 🔹 🔸		
Settings ×		
> Trigger Job		
 Session Settings 		
🔑 Support		
	62020 ULINK Technology, Inc. Drive	roy Policy Terr

Every application will have its own expiration time. Through the Configure Application Session Timeout, the user can set the session time out duration.

≡ ⊌ULİNK	Version: TR v4.35	Poonan
Dashboard		
뽔 Users	CONFIGURE GENERAL SETTING	
E Devices		
🗋 Result	Current Days O Days	
Test Suite	Set default days for Test Result 4ci 0	
Test System View	To remove the Days Filter, enter '0' days in this field	
🎦 Non Template View	SAVE	
Script Template		
Settings ~		
> Trigger Job		
 Session Settings 		
General Settings		
🖋 Support		
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3.10.3 Configure General Settings

User can set the default days in a text box. Added default days will filter the test result data.

3.11 Delete Functionality Process

3.11.1. Delete Device

- **a**. Go to the **Devices** menu, and click on the delete icon.
- b. Once a user performs the delete device action, the device gets deleted.
- c. Deleting the device will also delete its corresponding test results. The records/data from the database is marked deleted. The test results in the GrabData and SyncData folder do not get deleted.

Note:

- Once the device gets deleted, one cannot restore that device and its corresponding test results.
- As a user, there is no option to reinsert the device once it's deleted. However, as a platform owner, one who has access to the database can trace the device at the database level because the devices and their corresponding test results are soft-deleted.
- The device gets re-inserted once the corresponding Test Results associated with the device gets parsed again.

3.11.1. Delete Test Result

- a. Go to the **Result** menu, and select the checkbox(s) from the delete column, after that click on the Delete button.
- b. Once the delete action is performed, the test result gets deleted. The deleted test result goes to the Recycle Bin. From the recycle bin, one can restore all deleted test results.
- **c**. Through the recycle bin, the user will also be able to delete the test result. However, deleting the Test Results will permanently delete records from the system. The deleted result cannot be restored.

3.11.2. Delete Master Template

a. Go to the **View** menu under **Script Template**. In this section, the user can delete the Master Template by clicking on the delete icon.

b. Once the user clicks on the delete icon, the test suite gets deleted. Deleting the Test Suite will also delete its corresponding versions and its test results.

3.11.3. Delete Version Template

- a. Users can also delete the specific version of that test suite by clicking on the version view.
- b. Once the version gets deleted its corresponding test result also gets deleted. **Note:** After re-uploading the version template, we can parse the deleted test results again

For Example: Consider we have a test suite as-TCG Certification - OPAL and its corresponding versions like Script REV 2.7, Script REV 2.8, and Script REV 2.9. Now, we have a master template of that Test suite and version template of given versions.

If we delete the master template(TCG Certification - OPAL) then all its corresponding versions will get deleted along with test results.

However, please note that once the user re-uploads the version template of TCG Certification - OPAL, then the corresponding Test Results data belonging to that Test Suite/Version gets parsed again.

If we delete only the Script REV 2.9 version, then only its corresponding test results get deleted. After re-uploading the version template, the corresponding Test Results data belonging to that specific Test Suite Version gets parsed again.

4. License Information

By clicking on the login icon(besides the user name on the top right corner), the user will have options of Account, Licensing Info, and Logout. When a user clicks on the Licensing Info option, then the user will be navigated to the Licensing info page as shown in the snapshot below.

← → C (i) localhost:6001	/licenseInfo		🕒 Guest 🚦
🗏 🌢 ULİNK		Version: TR v3.1.01	TestReporter ULINKTech 💧
읝 Users	LICENS	SING INFO	AccountLicensing Info
🖨 Devices	Expiry Date	12/12/20, 12:00 AM	[→ Logout
📋 Result	Days Left	351	
🗮 Test Suite	Product Version	1.0	
Script Template >	Total Users Limit	3	
Settings >	Active License Dongle Users	3	
🔑 Support			
	Copyright ©2019 www.ulinktech.com. All	Dights Deserved	Privacy Policy Torms of Use

The page shows the following information of License:

a. Expiry Date:

The expiry date field shows the duration of the license will expire. After this date, the user will not be able to access the Test Reporter Portal until the licenses are reactivated.

b. Days Left:

This is the days count for the number of days remaining for the license to expire.

c. **Product Version:**

The product version of the License Test Reporter will be shown here.

d. Total User Limit:

This field shows the total number of users that can be added to the Test Reporter system.

e. Active License Dongle Users:

This field shows the number of users added to the system. The active users' field will be helpful to add the users to the portal.

5. Remote Update Management System(RUMS)

A remote Update is a tool that provides a convenient way to perform the updates of licensing data objects(expiry date) programmed inside the CRYPTO-BOX(CBU) remotely. There are certain steps to be followed if end-users are willing to update the licensing with the ULINK- Test Reporter.

5.1 Initiate Remote Update at End-User side

End-user needs to initiate the remote update request to update the plan or extend the expiry of the licensing. Steps to initiate the remote updates are given below.

- 1. To initiate the remote update for the Licensing Dongle, the end-user needs to launch the Remote Update Utility Tool which he/she has received from ULINK during the Licensing Dongle's handover.
- 2. Double click on the RUpdate_XXX.exe file and open the Remote Update Utility Tool.
- 3. Then the end-user needs to attach the Licensing Dongle which is to be updated and click on the 'Generate Transaction Request' button as shown in the snapshot given below.
| - | Remote Update Tool | |
|--------------------------------|--|--|
| EAMERCEION
ET
CONTRACTOR | Welcome to Remote Update Tool !
To initiate remote update procedure click on
Request" button. Save generated request int
software vendor.
Generate
To activate remote update click on "Execute
Load Activation Code from file received from y
Execu | "Generate Transaction
o file and send to your
Transaction Request
Activation Code" button.
your software vendor.
te Activation Code |
| Copyright@ 2002-2015 / | MARX® Crypto Tech I P | Evit |

- 4. The generated request will be in the .rutr file format. End-user needs to save the .rutr file to some location.
- 5. End-user needs to send this request file to the ULINK to update the Licensing Dongle.

5.2 Executing the Activation Code at End-User side

Once the requested file is received by the ULINK Team, they will update and create an activation code that needs to be executed at the end-user's side. To renew the Licensing Dongle end-user needs to follow the steps. Once these steps are executed the end-user may have the updated Licensing Dongle.

- 1. Once the activation code is received by the end-user, only then a Remote update of the Licensing Dongle can be performed.
- 2. The end-user needs to connect the Licensing Dongle and launch the Remote Update Tool and click on the "Execute Activation Code" button as shown below.

-	Remote Update Tool	×
RAMEACT BY	Welcome to Remote Update Tool ! To initiate remote update procedure click on Request" button. Save generated request in software vendor.	"Generate Transaction to file and send to your
	Generat To activate remote update click on "Execute Load Activation Code from file received from	e Transaction Request Activation Code" button. your software vendor.
Copyright [®] 2002-201	5 MARX® Crypto Tech LP	Exit

- 3. Browse and click on the activation code file(with .ruac extension) and click 'Open'. The activation file will be executed and loaded into the Licensing Dongle.
- 4. Reconnecting the Licensing Dongle and end-user is good to go with his updated Licensing Dongle.

This completes the Remote Update for the Licensing Dongle which has been requested by end-users.

Appendix A - Template Generation Guidelines

1. The template should start with meta information

Meta Info	Remarks
TCG Certification - OPAL Test Result,Script REV 2.7 (License ULINK)	 Meta info must start with the test suite and version details The meta info first line should provide details such as test suite and test version The test suite and test version should be separated with a comma "," The license Part should be enclosed in brackets after the test version e.g (License ULINK) Pattern: Test Suite Name, Test Suite Version Name (License Name)
Tested by ULINK DriveMaster Professional (SATA+NET) (x64) Version 7.1.1200 (6,2,1,0)	 The device interface should be enclosed inside a bracket e.g (SATA+NET) O.S bit type should be after the device interface enclosed inside the bracket e.g (x64)
HBA NAME: INTEL(A),BUS=0 DEV=23 FUNC=0,VID=8086 DID=A102 ADDR=DFA4B000	HBA name pattern should have> HBA NAME:
Register ID:, Micron_2.7g_0FFh	Device ID pattern should start as Register ID : Or may have a combination of keys Model Number: Serial Number: Note: Any one of the patterns must be required to get device details
Start Date: Fri, August 11, 2017	Start Date pattern> Start Date: should be in the format of the day, month date, Year

	Start Time must be after the start date row with the pattern> Time:
Time: 06:41:34 PM	time should be in the format hh:mm:ss PM/AM
Total LBA:, 1465149168 (0x575466F0)	Total LBA Pattern should be Total LBA: LBA NAME
Capacity:, 750 G	Capacity pattern should be Capacity: _Capacity Value

2. Empty separate line/row after Meta Information & before the first Test case/prerequisite

Tested by ULINK DriveMaster Professional (SATA+NET) (x64) Version 7.1.1200 (6,2,1,0)	Meta Info Started
HBA NAME: INTEL(A),BUS=0 DEV=23 FUNC=0,VID=8086 DID=A102 ADDR=DFA4B000	
Register ID:, Micron_2.7g_0FFh	
Start Date: Fri, August 11, 2017	
Time: 06:41:34 PM	
Total LBA:, 1465149168 (0x575466F0)	
Capacity:, 750 G	Meta Info Ends
	Empty Line
Check PSID support,PASS	Test case Title First Test case started
Start Session - AdminSP, PASS	subcase1
Sync Session - AdminSP, PASS	subcase1
Next Request - Authority table, PASS	subcase1
Next Response - Authority table, PASS	subcase1
Check the PSID support, PASS	subcase1
End Session - Request, PASS	subcase1
End Session - Response, PASS	The first test case ends

3. Everv	Test case	should	be separated	l with an	empty line
of Brery	I COL CUDC	onouna	be beputatet	a writin an	empty me

4.3 Level 0 Discovery,PASS	Test case started
DMA: IF-RECV(Level 0 Discovery) with SP=01h; Spcf=01h; Xfer=01h: Pass, PASS	
Check the returned values from Level 0 Discovery, PASS	Test case ends
	Test case separator line
4.4 Properties,PASS	Test Case Started
DMA: Properties with Host properties; Response - Pass, PASS	
Check the returned Host and TPer properties from Properties method, PASS	Test case ends
	Test case separator line
4.5 Taking Ownership of an SD,PASS	Test case started
4.5 Taking Ownership of an SD,PASS StartSession - Admin SP; Sync Session: Pass, PASS	Test case started
4.5 Taking Ownership of an SD,PASSStartSession - Admin SP; Sync Session: Pass, PASSGet Request - C_PIN_MSID; Get Response: Pass, PASS	Test case started
4.5 Taking Ownership of an SD,PASSStartSession - Admin SP; Sync Session: Pass, PASSGet Request - C_PIN_MSID; Get Response: Pass, PASSEnd Request - Admin SP; End Response: Pass, PASS	 Test case started
4.5 Taking Ownership of an SD,PASSStartSession - Admin SP; Sync Session: Pass, PASSGet Request - C_PIN_MSID; Get Response: Pass, PASSEnd Request - Admin SP; End Response: Pass, PASSStartSession with MSID's PIN as SID - Admin SP; Sync Session: Pass, PASS	Test case started
4.5 Taking Ownership of an SD,PASSStartSession - Admin SP; Sync Session: Pass, PASSGet Request - C_PIN_MSID; Get Response: Pass, PASSEnd Request - Admin SP; End Response: Pass, PASSStartSession with MSID's PIN as SID - Admin SP; Sync Session: Pass, PASSSet the password for SID as <sid_password>; Set Response: Pass, PASS</sid_password>	Test case started
4.5 Taking Ownership of an SD,PASSStartSession - Admin SP; Sync Session: Pass, PASSGet Request - C_PIN_MSID; Get Response: Pass, PASSEnd Request - Admin SP; End Response: Pass, PASSStartSession with MSID's PIN as SID - Admin SP; Sync Session: Pass, PASSSet the password for SID as <sid_password>; Set Response: Pass, PASSEnd Request - Admin SP; End Response: Pass, PASS</sid_password>	Test case started

Set the password for Admin1 as <adminsp_admin1_password>; Set Response: Pass, PASS</adminsp_admin1_password>	
End Request - Admin SP; End Response: Pass, PASS	Test case ends
	Test case separator line

4. If a Test case has sub-steps then it should have a consistent pattern

- The test subcase1 indentation pattern should be similar to the first line after the test case.
- If Test subcase1 again has some sub-steps (i.e subcase2) then that should follow a consistent indentation pattern.

4.1 Test case start with the first line and then the below test subcase1 start with indentation as a single space

4.5 Taking Ownership of an SD,PASS	Test case started
StartSession - Admin SP; Sync Session: Pass, PASS	subcase1 start with indentation
Get Request - C_PIN_MSID; Get Response: Pass, PASS	subcase1 start with indentation
End Request - Admin SP; End Response: Pass, PASS	subcase1 start with indentation
StartSession with; Sync Session: Pass, PASS	subcase1 start with indentation
Set the password for SID as Response: Pass, PASS	subcase1 start with indentation
End Request - Admin SP; End Response: Pass, PASS	subcase1 start with indentation
StartSession with SP; Sync Session: Pass, PASS	subcase1 start with indentation
Set the password for Admin1 Set Response: Pass, PASS	subcase1 start with indentation
End Request - Admin SP; End Response: Pass, PASS	subcase1 start with indentation Test case end

4.2 Test case start with the first line and then the below test subcase1 start with indentation as a single space followed by some substeps(subcase2) which start with double space

WRITE,PASS	Test Case Title
Write SLBA = Valid;LR=0,PASS	Test case 1st subcase1 Note: As the first line starts with a single space this line is considered as test subcase1 and below that, all line which is following a similar pattern consider as other test subcase1
Write SLBA = Valid;LR=1,PASS	2nd subcase1
Write SLBA = Valid;LR=2,PASS	3rd subcase1
Write SLBA = Valid;LR=3,PASS	4th subcase1
Write SLBA = Valid;LR=4,PASS	5th subcase1
Write w/Pattern,PASS	6th subcase1
Read and Compare, PASS	7th subcase1
Write SLBA = Valid;NLB = Valid; LR = 1;,PASS	8th subcase1
Write w/Pattern,PASS	The 1st subcase2 of 8th subcase1 Note: Pattern changes here as double space indentation. This step will be considered as a substep(subcase2) of the subcase1 above this step.
Read and Compare,PASS	The 2nd subcase2 of 8th subcase1
Write SLBA = Valid; NLB = Valid; LR = 0;,PASS	9th subcase1
Write w/Pattern,PASS	The 1st subcase2 of 9th subcase1 Note: Pattern changes here as double space indentation. This step will be considered as a substep(subcase2) of the subcase1 above this step.
Read and Compare,PASS	The 2nd subcase2 of 9th subcase1
Write SLBA = Valid; NLB = Valid; LR = 1;,PASS	10th subcase1
Write w/Pattern,PASS	The 1st subcase2 of 10th subcase1
Read and Compare,PASS	The 2nd subcase2 of 10th subcase1

5.3 Test case starts with the first line and below test subcase1 starts without indentation

Keys	Remarks
4.5 Taking Ownership of an SD,PASS	Test case started
StartSession - Admin SP; Sync Session: Pass, PASS	subcase1 start without indentation Note: subcase1 start without indentation
Get Request - C_PIN_MSID; Get Response: Pass, PASS	subcase1 start without indentation
End Request - Admin SP; End Response: Pass, PASS	subcase1 start without indentation
StartSession with MSID's PIN as SID - Admin SP; Sync Session: Pass, PASS	subcase1 start without indentation
Set the password for SID as <sid_password>; Set Response: Pass, PASS</sid_password>	subcase1 start without indentation
End Request - Admin SP; End Response: Pass, PASS	subcase1 start without indentation
StartSession with <sid_password> as SID - Admin SP; Sync Session: Pass, PASS</sid_password>	subcase1 start without indentation
Set the password for Admin1 as <adminsp_admin1_password>; Set Response: Pass, PASS</adminsp_admin1_password>	subcase1 start without indentation
End Request - Admin SP; End Response: Pass, PASS	Test case end

Revert LockingSP,PASS	Test result last test case title	
Start Session with HostChallenge - AdminSP, PASS		
Sync Session - AdminSP, PASS		
LockingSP.Revert - Request, PASS		
LockingSP.Revert - Response, PASS		
End Session - Request, PASS		
End Session - Response, PASS	Test result last test case end	
Test Result Summary	Test Case summary start indication	Compulsory
# Tested ,57	Pattern should be -> # Tested,Number	Optional
# Passed ,53	Pattern should be -> # Passed,Number	Optional
# Failed ,4	Pattern should be -> # Failed,Number	Optional
# Not Tested, 3	Pattern should be -> # Tested,Number	Optional
Script End Date: Fri, August 11, 2017	The pattern should be -> Script End Date:_date The date format should be day,month date, Year	Compulsory
Time: 06:56:49 PM	Pattern should be -> Time: _time Note: _time format should be hh:mm:ss	Compulsory
Total Runtime:, 0:15:03	Pattern should be -> Total Runtime:, _time	Compulsory

5. Test result summary should have a consistent pattern at end of the file

6. Horizontal representation of data not to be considered for Template generation

• If the template consists of the horizontal representation of data then that portion will not be considered to generate the dynamic template

A13: Set() - Byte Table Grammar check,	Test Case title
(A13-2-1-2-5) DataStore OptParams-where: Set with the limit of the byte table; Set response - pass,PASS	subcase1
(A13-2-1-2-6) DataStore OptParams-where: Set with 'Where' > limit of the table; Set response - Status Code: 0Ch (Invalid_Param),PASS	subcase1
(A13-2-1-2-9) DataStore OptParams-where: Set without 'Where' parameter; Set response - Pass,PASS	subcase1
(A13-2-1-3-5) DataStore OptParams-value: Set with data whthin limit of the table; Set response - Pass,PASS	subcase1
(A13-2-1-3-9) DataStore OptParams-value: Set with length = 0 for 'Values' parameter; Set response - Pass,PASS	subcase1
(A13-2-1-2-6) MBR OptParams-where: Set with 'Where' > limit of the table; Set response - Status Code: 0Ch (Invalid_Param),PASS	subcase1
(A13-2-1-2-9) MBR OptParams-where: Set without 'Where' parameter; Set response - Pass,PASS	subcase1
(A13-2-1-3-5) MBR OptParams-value: Set with data within limit of the table; Set response - Pass,PASS	subcase1
(A13-2-1-3-6) MBR OptParams-value: Set with data without limit of the table; Set response - Status Code: 0Ch (Invalid_Param),PASS	subcase1
, DataStore, MBR,	Horizontal representation of above data Note : This horizontal representation data will not be considered for dynamic template
A13-2-1-2-5 , PASS, PASS, PASS	not consider
A13-2-1-2-6 , PASS, PASS, PASS	not consider

A13-2-1-2-9 , PASS, PASS, PASS	not consider
A13-2-1-3-5 , PASS, PASS, PASS	not consider
A13-2-1-3-6 , PASS, PASS, PASS	not consider
A13-2-1-3-9 , PASS, PASS, PASS	not consider

Appendix B - Sample CSV

Below is the link for sample CSV which can be referred to make the csv file templates to be uploaded in the system.

http://document.ulinkreporter.com/sampleCSVfile.csv

Appendix C - Folder Structure Hierarchy

Below is a snapshot of the folder structure and also the paths for syncing and grabbing the data.

	Description	Folder Name	Alias Name Override	Comments
Level 1	Group Folder	Group Name, eg, Lab 1, Lab2, etc.	Yes	
Level 2	System Folder	System ID	Yes	
Level 3	Test Results Folder	Test Results Tree, eg. DMTest, MyTest, etc.	No	
		Test Status, eg. Log folder	No	"Log" name is reserved
Level 4-n	Test Log and CSV Folder	Log folder and CSV folder	No	All logs should add in Log folder and all CSV file is in the CSV folder with the name of log folder

- The 1st level will be Group Folder
- The 2nd will be system id or secondary group name
- The 3rd level will have a Test Results Tree, eg. DMTest, MyTest, etc. Note: log folder may be optional.
- and the next level will be the Log and CSV folder parallelly.



Sync data folder(For e.g)- F:\dataRepository\Test_log\DTM4_2\DMTest\Ptc

Following is the folder structure hierarchy in details:

- dataRepository- Sync data folder
- Test_log- Group name folder
- DTM4_2- System folder
- DMTest\Ptc- Part of Test Results Folder tree. Within Ptc, you will have CSV and Log folder in parallel
- CSV- All CSV files.
- Log- All log folders with the name of CSV.

In the Test_log folder, add folders/files which users want to parse. The files in this folder will be grabbed by the trigger "**Sync Files**" job.

	∓ ∣ grab	Data									- 0	×
File Hon	me S	Share	View									^ 🔞
Pin to Quick Co access	opy Pa	iste	Cut Copy path Paste shortcut	Move to * to * Organize	New if New folder	em • ccess • Proper	ties Open -	Select all Select none Invert selection Select				
← → • •	↑ 🚺 I	F:\UlinkS	erverData\grabD	lata					ٽ ~	Search grabData		P
and the second			Name	54	Date modified	Туре	Size					^
🖈 Quick ac	ccess		DTM100 6		2/4/2010 10-24 PM	File folder						
Deskto	pp	1	MI-Test		1/3/2019 10:43 PM	File folder						
🕹 Downlo	oads	#	DTM 7		1/3/2019 10:43 PM	File folder						
🗎 Docum	nents	A	DTM8 3		1/3/2019 10:42 PM	File folder						
Picture	es		DTM8 2		1/3/2019 10:40 PM	File folder						
07Jan			DTM6_2		1/3/2019 10:39 PM	File folder						
bin			DTM8_1		1/3/2019 10:39 PM	File folder						
test co	omnarato	N.	DTM6_1		1/3/2019 10:39 PM	File folder						
uliate	mparato		DTM4_9		1/3/2019 10:39 PM	File folder						
ulink			DTM4_8		1/3/2019 10:39 PM	File folder						
ConeDrive	'e		DTM4_5		1/3/2019 10:39 PM	File folder						
This PC			DTM4_4		1/3/2019 10:39 PM	File folder						
20 Obi	laste		DTM4_3		1/3/2019 10:39 PM	File folder						
30 Obj	Jects		DTM4_2		1/3/2019 10:38 PM	File folder						
Deskto	pp		DTM4_14		1/3/2019 10:38 PM	File folder						
Docum	nents		DTM4_13		1/3/2019 10:37 PM	File folder						
🕹 Downlo	oads		DTM4_12		1/3/2019 10:37 PM	File folder						
👌 Music			DIM4_10		1/3/2019 10:36 PM	File folder						
E Picture	es		DIM4_11		1/3/2019 10:36 PM	File folder						
Videos			DTM4_1		1/3/2019 10:30 PM	File folder						
🛀 OS (C:))		DTM3_11a		1/3/2019 10:35 PM	File folder						
- New Vo	olume (E	:)	DTM3_11		1/2/2019 10:35 PM	File folder						
F (F:)			DTM2 6		1/3/2019 10:33 PM	File folder						
			DTM2 5		1/3/2019 10:26 PM	File folder						
New Vol	lume (E:)		DTM14 6		1/3/2019 10:26 PM	File folder						
Network	k		DTM13_2		1/3/2019 10:25 PM	File folder						
			DTM13_1		1/3/2019 10:25 PM	File folder						
			DTM12_7		1/3/2019 10:25 PM	File folder						
			DTM12_1		1/3/2019 10:25 PM	File folder						
			DTM12_2		1/3/2019 10:25 PM	File folder						~
76 items											18	-

Grab data folder- F:\UlinkServerData\grabData

The grabbed files will be parsed into the ulink test reporter once the "**Parse Sync Files**" job is triggered.

Once syncing and parsing is completed successfully, the data will be made available in the Test Reporter Application.

Folder Structure Setup

The standard folder structure which will be created during the installation process is given below.

We require the folder structure to do the operations in the Test Reporter(TR) application such as download, upload, sync and parse. Follow the document to know the folder structure required for the ULINK-TR application. Creating the folder is a one-time activity, that is once the folder structure is created you need not create again when you run the application.

When you start the application you need the folder structure which is shown in the snapshot below.

\leftarrow	→ → ↑ → This PC → OS (C:) → ulink_TR → Documents →	→ ulink →
>	ProgramData	^
	Recovery	
>	ulink_server	
~	ulink_TR	
~	Documents	
	🛩 📃 ulink	
	📙 downloadReport	
	files	
	grabData	
	nonTemplateData	
	> syncData	
	> ulink_server	
	ulinkConfig	
	> ulinkfile	
	Upload	
	zipDownload	
5		
Ś		
2	Windows	
1	New Volume (Fr)	
	E (C)	
2.	• F (F:)	
10 +	Now Volume (Er)	v 1
10.10		

syncData Folder: End-user needs to copy all the data into the syncData folder as shown above. The sub-folders in the syncData should be in the same pattern of Csv and Log folders. The path should be syncData/<Lab_Name>/<Computer_Name> (Example: Test_log/DTM_1) and then in this folder, you must have CSV and Log folders parallel to each other.

The test results whose respective CSV and Log files are not found will not be parsed in the Test Reporter application.

grabData Folder: Once the data is synced, all the necessary files(log) from the syncData will be copied to grabData. Redundant data or the CVS files whose log folder is not available will be discarded.

ulink_server: This folder will maintain the logs for the user_management and test_comparator services.

All other folders will be required for download and upload the files which will be processed in the Test reporter application.

nonTemplateData: This folder will maintain the non template files. All the non template data from the syncData folder will sync to this folder. CSV and Log files are displayed which do not have templates.

Appendix D - Installation of Docker on Linux(Debian and Ubuntu)

This section is for Linux users. Docker can also be installed on the Linux system, the following are the steps to install the docker.

- 1. Docker installation on the Linux system is easy as compared to the windows system.
- 2. Open the terminal on your system.

- 3. Enter the following command to Update: sudo apt-get update -y
- 4. Install the additional packages which are required for docker using the command : sudo apt-get install -y linux-image-generic-lts-trusty *linux-headers-generic-lts-trusty*
- 5. If you use Ubuntu Trusty, Wily, or Xenial, install the linux-image-extra kernel package:

sudo apt-get update -y && sudo apt-get install -y linux-image-extra-\$(uname -r)

6. After you finish the above steps, enter the command given below to install the docker in the system.

sudo apt-get install docker-engine -y

- 7. Once the docker is installed Start the docker using sudo service docker start
- 8. To verify the docker installation hit the following command which will run the simple hello-world code. sudo docker run hello-world

Appendix E - Steps to Auto Start Docker and Test Reporter

The following are the steps to configure the autostart script:

1. Download the sh file(link given below) and then copy & replace the start.sh file in the docker toolbox folder("\Users\<XXX>\Documents\Docker Toolbox" where <XXX> is the current user system's name).

http://document.ulinkreporter.com/start.sh

Create a New Folder in "\Users\<XXX>\Documents\" and rename the folder as batFiles. Download the scriptFiles.zip and copy the docker-compose file(see the user guide for this file) to the same folder. Extract all script.zip files(link given below) in the batFiles folder.

http://document.ulinkreporter.com/scriptFiles.zip

- **Note**: i. Create the **batFiles** folder parallel to the **Docker ToolBox** folder under "\Users\<XXX>\Documents\".
 - ii. Make sure that this zip file contains following batch files:
 - a. main-startup batch file
 - b. docker-start batch file
 - c. reporter-start batch file
 - d. create_folder_structure batch file

iii. Keep all the batch files and the docker compose file in the same folder. And make sure the folder is not located in C:\Program Files or C:\Program Files (x86).

3. Once the files are copied, right-click the **main-startup.bat** file and 'Edit' to configure the path(shown in the snapshot below) in the file. Change the path to the current file location (\Users\<XXX>\Documents\batFiles) as you have that file in the same folder.



Note: The 'GuestUser' in the snapshot is the system name, this may be different for each user.

You can close the editor window once done.

4. The next step is to 'Edit' the **docker-start.bat** file and modify the start.sh path to the path where you have installed the Docker Toolbox(that is, \Users\<XXX>\Documents\Docker Toolbox)

		docker-start.bat - Notepad	- 🗆 ×
File Edit Forma	t View Help		
@echo off #Start docke "C:\Program	Giles\Git\bin\bash.exe"	login -i "C:\Users\GuestUser\Documen	ts\Docker Toolbox\start.sh"
<			<

Note: The 'GuestUser' is the system name in the snapshot, this may be different for each user.

5. Now, right-click and 'Edit' the **reporter-start.bat** file and modify the path to the current folder path(\Users\<XXX>\Documents\batFiles) as shown in the snapshot below.

reporter-start.bat - Notepad	-	×	
<u>File E</u> dit F <u>o</u> rmat <u>V</u> iew <u>H</u> elp			
<pre>@echo off cd "C:/Users/GuestUser/Documents/batFiles" docker-compose up -d</pre>			~
			~
C		>	11

Note:

i. The 'GuestUser' is the system name in the snapshot, this may be different for each user.

ii. Make sure you have copied the docker-compose.yml to the **batFiles** folder.

- 6. Once this is done, right-click main-startup.bat and select "Run with Administrator ". (Check that the mysqldata folder is created in the same location. That is in '\Users\<XXX>\Documents\batFiles' location). This will run the script file.
- 7. Now to schedule the script on system start/restart, you need to configure the script in the Windows Task Scheduler.
- 8. Steps to schedule the batch file into the Windows Task Scheduler:
 - **a**. Click on Start and under search, type in **Task Scheduler** click open the Task Scheduler.

rograms (1)	
Task Scheduler	
Control Panel (20))
🔔 Taskbar and Sta	rt Menu
Perform recomm	mended maintenance tasks automatically
🕎 View running pr	ocesses with Task Manager
L Auto-hide the ta	askbar
L Customize the t	askbar
🔔 Group similar w	indows on the taskbar
See more results	
See more results	

b. Select **Create Basic Task** from the **Action** pane on the right of the window.

Tas	k Scheduler (Local)	-
	Connect to Another Computer	
0	Create Basic Task	
•	Create Tass.	
	Impour Tasc	
(1)	Display All Running Tasks	
	Enable All Tasks History	
	AT Service Account Configuration	
	View	•
Q	Refresh	
?	Help	

c. Under **Create Basic Task**, type in the name you like and click **Next**

•	Task Scheduler – 🗖	×
File Action View Help		_
*	Create Basic Task Wizard	
Create a Basic Ta	ik	
Create a Basic Task Trigger	Use this wizard to quickly schedule a common task. For more advanced options or settings such as multiple task actions or triggers, use the Create Task command in the Actions pane.	
Action	Name: DockerStart	
Finish	Description:	•
	< Back Next > Cancel	

d. From the **Trigger** select the option you like and click **Next**.We need to schedule the task when we restart/start the system, therefore select the option **When I log on**.

		Task Scheduler	-		×
File		Create Basic Task Wizard		×	<u> </u>
Ta >	Task Trigger				•
	Create a Basic Task Trigger Action Finish	When do you want the task to start? Daily Weekly Monthly One time When the computer starts When I log on When a specific event is logged <pre> Keekly</pre>	Cance		
-	11		1		

e. Then click on **Start a Program** and click **Next**.

•	Task Scheduler	-		×
File	Create Basic Task Wizard		×	
Action				•
Create a Basic Task Trigger	What action do you want the task to perform?			
Finish	 Start a program Send an e-mail (deprecated) Display a message (deprecated) 			•
	< Back Next >	Cancel		
P				

f. Now click on **Browse...** and select the batch file you like to run.

File Create Basic Task Wizard Image: Start a Program Create a Basic Task Trigger Program/script: Action C:\USers\GuestUser\Documents\batFiles\main-startup.bat Browse Start a Program Add arguments (optional): Start in (optional): Start in (optional): Start in (optional): Start in (optional): Start in (optional):	e		Task Scheduler	-		×
Start a Program Create a Basic Task Trigger Action C:\Users\GuestUser\Documents\batFiles\main-startup.bat Browse Start a Program Add arguments (optional): Start in (optional): Start in (optional): * Ocuments\batFiles\ * Back Net > Create a Basic Task Trigger Program/script: Action C:\Users\GuestUser\Documents\batFiles\main-startup.bat Browse Start in (optional): * Back Net >	File		Create Basic Task Wizard		×	-
Create a Basic Task Trigger Action C:\Users\GuestUser\Documents\batFiles\main-startup.bat Browse Start a Program Finish Add arguments (optional): Start in (optional): ser\Documents\batFiles\ < Back	Ta	5tart a Program				-
Action C:\Users\GuestUser\Documents\batFiles\main-startup.bat Browse Finish Add arguments (optional): Start in (optional): ser\Documents\batFiles\ ser\Documents\batFiles\ ser\Documents\batFiles\ Cancel		Create a Basic Task Trigger	Program/script:			
Finish Add arguments (optional): Start in (optional): >er\Documents\batFiles\ > 		Action Start a Program	C:\Users\GuestUser\Documents\batFiles\main-startup.bat	Browse		
< Back Next > Cancel		Finish	Add arguments (optional): Start in (optional): :er\Docume	nts\batFiles∖		
jr			< Back Next >	Cancel		
			1			

Note: The path can differ for each end-user.

In the 'Start in (optional)' field add the path till the batFiles as shown in the above snapshot.

g. Finally, click on **Finish** to create the Task.

Now that we have created a Task, we have to make sure it runs with the highest privilege. Since we have UAC settings we have to make sure that when you run the file it should not fail if it does not bypass the UAC settings. So click on the *Task Scheduler Library*.

٩	Task Scheduler	- 🗆 🗙
File Action View Help	Task Scheduler Name Status Triggers DockerStart Ready At log on of any user GoogleUpda Ready Multiple triggers defined GoogleUpda Ready At 5:26 PM every day - After triggered, repeated McAfee Re Ready When the task is created or modified - After McAfee Re Ready When computer is idle Optimize Sta Disabled When computer is idle User_Feed_S Ready At 4:14 PM every day - Trigger expires at 1/2 User_Feed_S Ready At 8:44 PM every day - Trigger expires at 5/2	Actions Task Scheduler Libr Create Basic Task Create Task Import Task Display All Running Enable All Tasks His New Folder View Refresh
	General Triggers Actions Conditions Settings History (disabled) Name: DockerStart Location: \ Arthon Sar. p. 170) Services	 Help Selected Item Run End Disable Export Properties Delete

Double click on the task 'DockerStart' which you have recently created.

h. In the **General** menu click on **Run with Highest Privileges**.

•	Task Scheduler		-		×
File Action	O DockerStart Properties (Local Computer)		×	-	
🕑 Task Sch > 📸 Task	General Triggers Actions Conditions Settings History (disabled) Name: DockerStart			br : ng His	• ^
	Security options When running the task, use the following user account: Run only when user is logged on Run whether user is logged on or not Do not store password. The task will only have access to local computer resources	ge User or Group			
	Configure for: Windows Vista™, Windows Server™ 2008	Cancel			
	IV				

i. Click on the **Triggers** and make sure that you have configured the script **At log on** and the status is Enabled with **At log on of any user** in the Details.



If you do not see the above configuration then select the entry and click **Edit**(Or double click the trigger item). Then choose the option **At log on** from 'Begin the task' and click **Any user** from the 'Settings' then click **OK** with **Enable** option check at the bottom.

			Ed	it Trig	gger			
Begin the task:	At log o	on			*			
Settings								
Any user								
O Specific u	ser:	ags	-p-170\agsus	er		Chai	nge User	
Advanced sett	ings							
Delay task	for:	15 minute	es 🗸					
Repeat tas	k every:	1 hour	~		for a duration of:	1 day	~	
Stop	all runni	ng tasks at	end of repetit	ion du	ration			
Stop task i	f it runs l	onger than:	3 days		4			
Activate:	2/ 6/20	20 🔲 –	3:33:44 PM	*	Synchronize	across time	zones	
Expire:	2/ 6/20	21 🔲 🕆	3:33:44 PM	*	Synchronize	across time	zones	
Enabled								
✓ Enabled						_		

j. Now click on the **Actions** menu and check the following script is configured in the **Action** list

•		Task Scheduler	-	
File Action))	DockerStart Properties (Local Computer)	x	
Task Sch	General Triggers Act When you create a ta	ions Conditions Settings History (disabled) sk, you must specify the action that will occur when your task starts. Details		<u> </u>
	Start a program <	C:\Users\GuestUser\Documents\batFiles\main-startup.bat		,
		OK Cancel		
	//	line		¥

Path in the Details may differ for different users.

- k. Once done then click **OK**. You have scheduled the script successfully.
- 9. This finishes the configuration, the script will now run on every system start/restart. This will start the docker and the TR application automatically when we start/restart the system.