

User Platform Client usage

Software Quality Team

ABSTRACT

This usage guide document will briefly introduce the usage of TMP Client for software verification, this document will include following areas:

- a) Client preparations
- b) Client installs
- c) Client initial setting
- d) Client run and result check

REVISION HISTORY

REVISION	RELEASE DATE	COMMENTS
V1.0	9/10/2016	Initial draft
V1.1	4/11/2017	Jason Wang
V1.2	5/10/2019	Jason Wang
V1.3	03/05/2020	Update based on Client version 2.09.xx
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1 Preparation for TMP Client

1.1 What is TMP Client

TMP (Test Management Platform) Client is used to receive and run test case from TMP server, on the meanwhile client also support test suite run locally.

1.2 System requirements

1.2.1 Operation System requirements

The following are tested OS and we don't guarantee OS not list here

Window:

Win 7 or later.

Linux:

RedHat 6 or later

CentOS 7 or later

OpenSUSE 42 or later

Ubuntu 16 or later

1.2.2 Hardware suggestion

CPU core number: 4

Physical memory: 8G

1.3 System setting (Linux only)

TMP Client will launch many test cases concurrently (Depends on user setting in Menu → Setting → Preference → Max Threads) which will exceed the default user open files limitation (1024).

To avoid this limitation, we need to add following two lines into file `/etc/security/limits.conf`.

```
* soft  nofile  32768
```

```
* hard  nofile  65536
```

To verify this modification, you can type: `ulimit -a`

1.3 Dependent software and version

1.3.1 Python

TMP Client will invoke core script to launch every detail test case. Core script was built by Python software, so we need Python ready on your machine.

And some Python packages were required for some specific tasks.

Source:

\\sh-smb02\sw\qa\qa_store\TMP_tools\depend_software\python_and_packages

Install Python:

1. Double click: `python-3.8.7-amd64.exe` (Windows) or unzip `Python-3.8.7.tar.xz` (Linux)
2. Put Python install path into environment 'PATH' variable

Install Python packages:

1. Copy 'offline' folder to your local machine
2. Go into 'offline' folder
3. Run following commands in console:
 - a. `python -m pip install --no-index --find-links . psutil==5.8.0`

- b. `python -m pip install --no-index --find-links . JIRA==2.0.0`
- c. `python -m pip install --no-index --find-links . openpyxl==3.0.7`
- d. `python -m pip install --no-index --find-links . pymysql==1.0.2`

Check:

Run following commands in console:

1. `python` -- Python should be run with a correct version
2. `import psutil` -- Python package imported, no crash
3. `import jira` -- Python package imported, no crash
4. `import openpyxl` -- Python package imported, no crash
5. `import pymysql` -- Python package imported, no crash

1.3.2 Subversion

In most case our core script and user case were stored in subversion. So TMP client need subversion ready on your machine.

Subversion version large than 1.6 is required.

Source:

\\sh-smb02\sw\qa\qa_store\TMP_tools\depend software

Install:

1. Double click: Setup-Subversion-1.6.6.msi (Windows)
2. Put SVN install path into environment 'PATH' variable

Check:

Run following commands in console:

1. `svn --version` --SVN should report correct version

2 Install TMP Client

2.1 Export TMP Client build

TMP Client build will follow the name rules as:

`Tmp_client_a.bb_installer_ccc_ddd.dd`

a: Public release version

b: Internal release version

ccc: bin/src, binary package or source package

ddd.dd: install platform which can be:

- 1) `linux.run`: package for Linux with install wizard.
- 2) `windows.exe`: package for windows with install wizard.
- 3) `all.tar.gz`: package for all platform with manually install.

For example:

- 1) `tmp_client_2.14_installer_bin_linux.run`:
Build version 2.14 for Linux (RedHat, Ubuntu, SUSE) install with wizard available.
- 2) `tmp_client_2.14_installer_bin_windows.exe`:
Build version 2.14 for Windows (win7 or later) install with wizard available.
- 3) `tmp_client_2.14_installer_src_all.tar.gz`:
Build version 2.14 for all platforms install without install wizard (manually install).

Please export the build according to your requirements:

See appendix for build location

2.2 Install TMP Client build

Source:

\\\\lsh-smb02\\sw\\qa\\qa_store\\TMP_tools\\client_software

2.2.1 Install with wizard

TMP Client package offer general GUI setups, so you can simply follow with the wizard to install it.

Step 1: Double click install package.

Step 2: Confirm install build and click “Next”

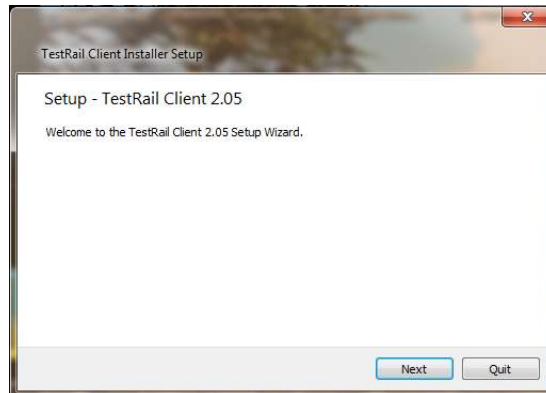


Figure1: Confirm install build

Step 3: Select install type

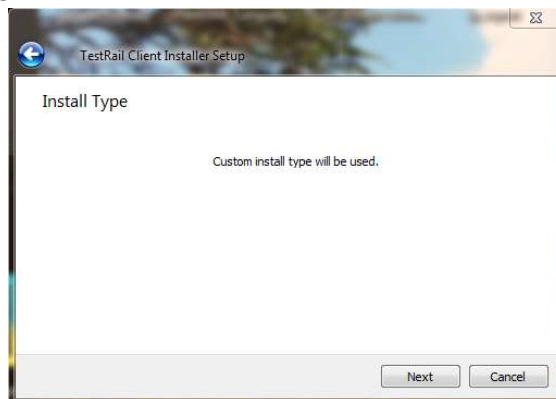


Figure2: Select install type

Step 4: Select install folder

The default install path will be <User home>/TestRail_Client. You can select another path with “Browse” button.

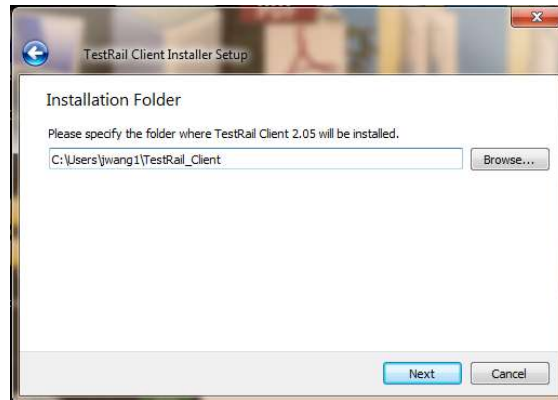


Figure3: Select install folder

Step 5: Select install components

Please select install components, the core component “TMP core component” is the must item to install.

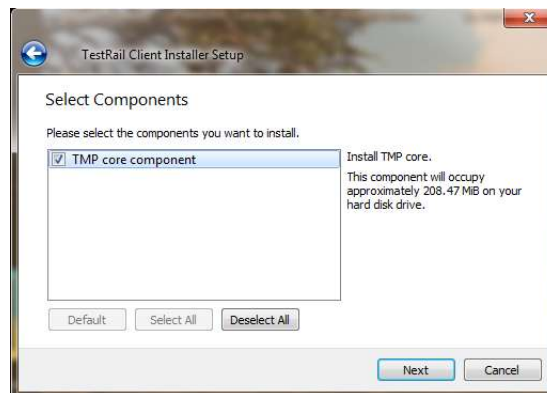


Figure4: Install components select

Step 6 License agreement

Please accept the license before next step.

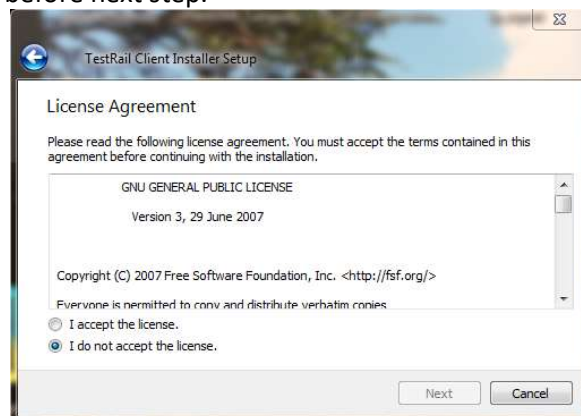


Figure5: Accept the license

Step 7 Create Start Menu shortcuts (Windows)

On Windows platform, setup wizard will create shortcuts in “Start Menu” for your future launch.

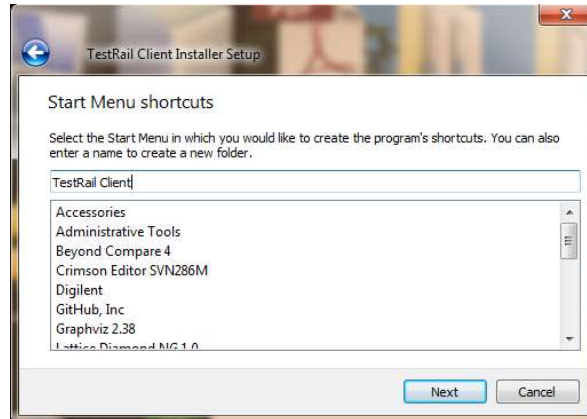


Figure6: Start Menu shortcut create

Step 8 install

Click “install” button to install software.

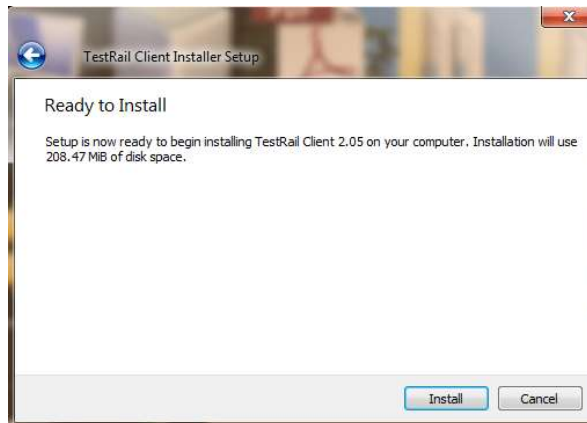


Figure7: Install software

2.2.2 Manually install

If you download a source package like: tmp_client_2.14_installer_src_all.tar.gz

You can use 7zip extract the source code on windows or tar command line (tar -xv -f tmp_client_2.05_installer_src_all.tar.gz) on Linux.

Place the source folder as you want.

3 Launch TMP Client

3.1 TMP Client initial setting (console mode)

This section is for TMP Client run in console mode only. For GUI mode initial setting will be launched after GUI start.

We can find the initial setting file from:

1. First launch: <client_install_path>/conf/default.ini.
2. Future launch:<user_home_path>/client_conf/<machine_name>.ini

The xxx.ini file contains two kinds of sections:

- a) Section without “tmp_” : Client software setting section
- b) Section with “tmp_” : Client setting section.

3.1.1 Software setting section

Please use software name as the section name.

max_insts : used to define the maximum instance number this software can be launched.

scan_dir : Client will automatically scan this path to add new software build path.

version and path pair: user specify the software version and the path manually.

You can specify as much version path pair as you like.

3.1.2 Machine setting section

Group: setting the client group name.

Private: value can be "0" or "1", the default name is "1" if not present.

"0": public client will run assigned and matched task.

"1": private client will run assigned task only.

Terminal: client name setting, client will scan machine name if not present.

Unattended: The value can be "0" or "1". The default value is "0" if option not present.

"0": Attended Mode. SW will do some special work (i.e. SW update) under user's operation.

"1": Unattended Mode. SW will do some special work (i.e. SW update) automatically.

Debug: Client run in debug mode or not.

"0": Client will run in normal mode.

"1": Client will run in debug mode.

3.1.3 Preference setting section

Link_mode: value can be "both", "remote" and "local". Client linked server select.

Max_threads: Maximum threads (test case) can be launched.

Thread_mode: value can be "auto" and "manual"

Task_mode: auto, serial and parallel.

Auto: client will take top priority level tasks and run parallel these tasks.

Serial: client will run task one by one according to the task priority

Parallel: client will run tasks in parallel mode

Work_space: client workspace, client will download and run case in this folder.

Save_space: client result save space. If not, present client will skip copy case runtime results.

3.2 launch from Start Menu (Windows)

On Windows platform we can launch TMP client from start menu.

Please click "Start Menu" → "All Programs" → "TestRail Client" → "client"

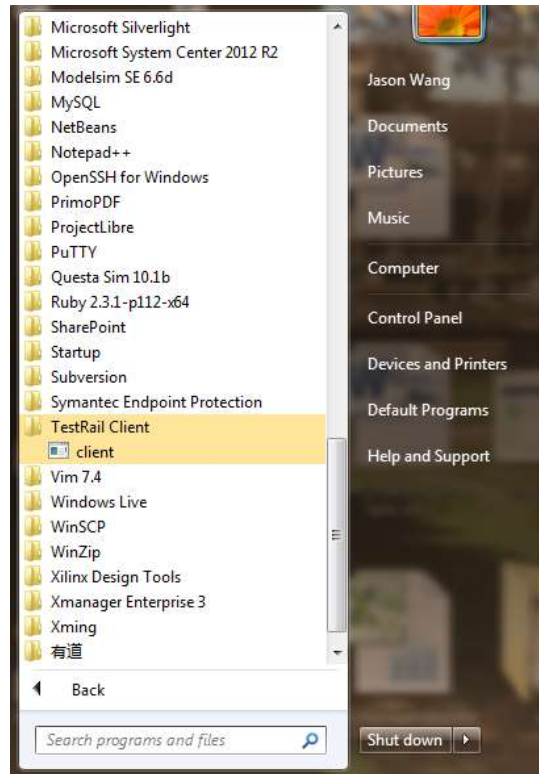


Figure8: Launch from start menu

3.3 launch from command line

Please use following command lines to launch client:

- 1) `<client_install_path>/bin/clientc.exe -c` (console mode)
- 2) `<client_install_path>/bin/client.exe` (GUI mode)
- 3) `Java -jar <client_install_path>/bin/client.jar -c` (console mode)
- 4) `Java -jar <client_install_path>/bin/client.jar` (GUI mode)

3.4 TMP Client initial setting (GUI mode)

3.4.1 Welcome setting

You will be prompted a welcome setting dialog like following:

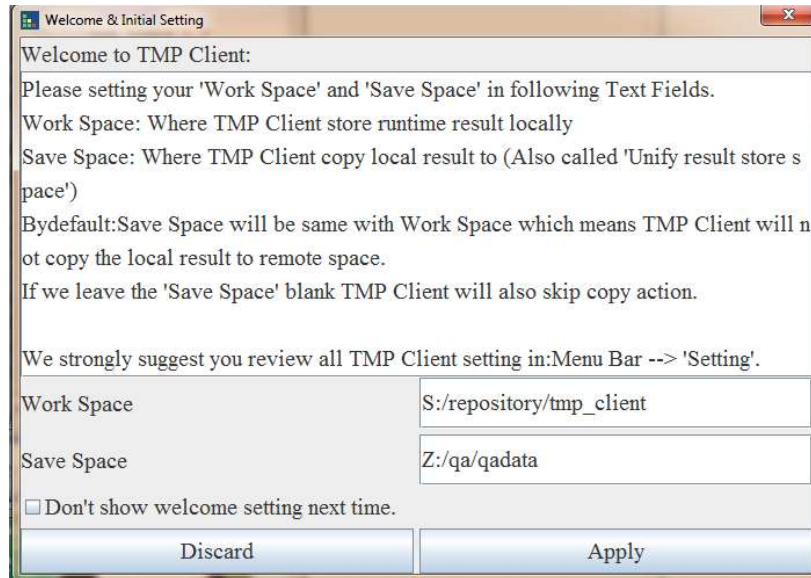


Figure9: Welcome setting

You can specify 'work space' and 'save space' and click 'Apply' button to finish the setting. Also you can click the "Don't show welcome setting next time" check box to disable this dialog prompted next time.

3.4.2 Client setting

Click "Setting" → "Client..."

Run client setting in GUI way. Please refer [3.1.2](#) for details option descriptions.



Figure10: Client Setting

3.4.3 Software setting

Click "Setting" → "Software..."

Run software setting in GUI way. Please refer [3.1.1](#) for details option descriptions.

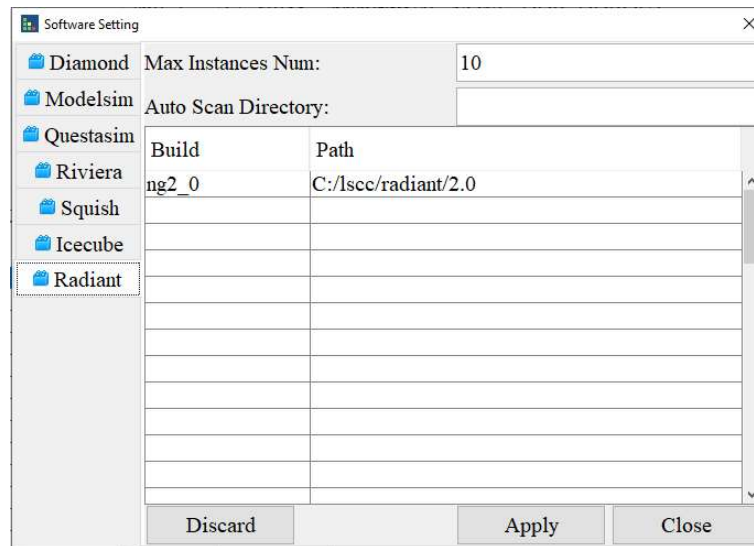


Figure11: Software Setting

3.4.4 Preference setting

Click "Setting" → "Preference..."

Run Preference setting in GUI way. Please refer [3.1.3](#) for details

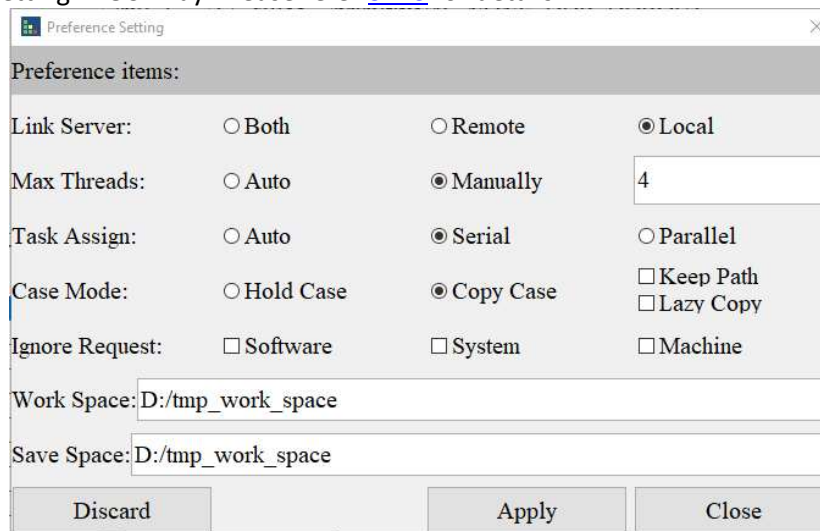


Figure12: Preference Setting

4 TMP Client usage

4.1 Main window introduction

4.1.1 Overview

Client main view constructed by 5 sections:

- 1) Menu bar
- 2) Rejected queue panel
- 3) Captured queue panel
- 4) Watching task panel

5) Status bar

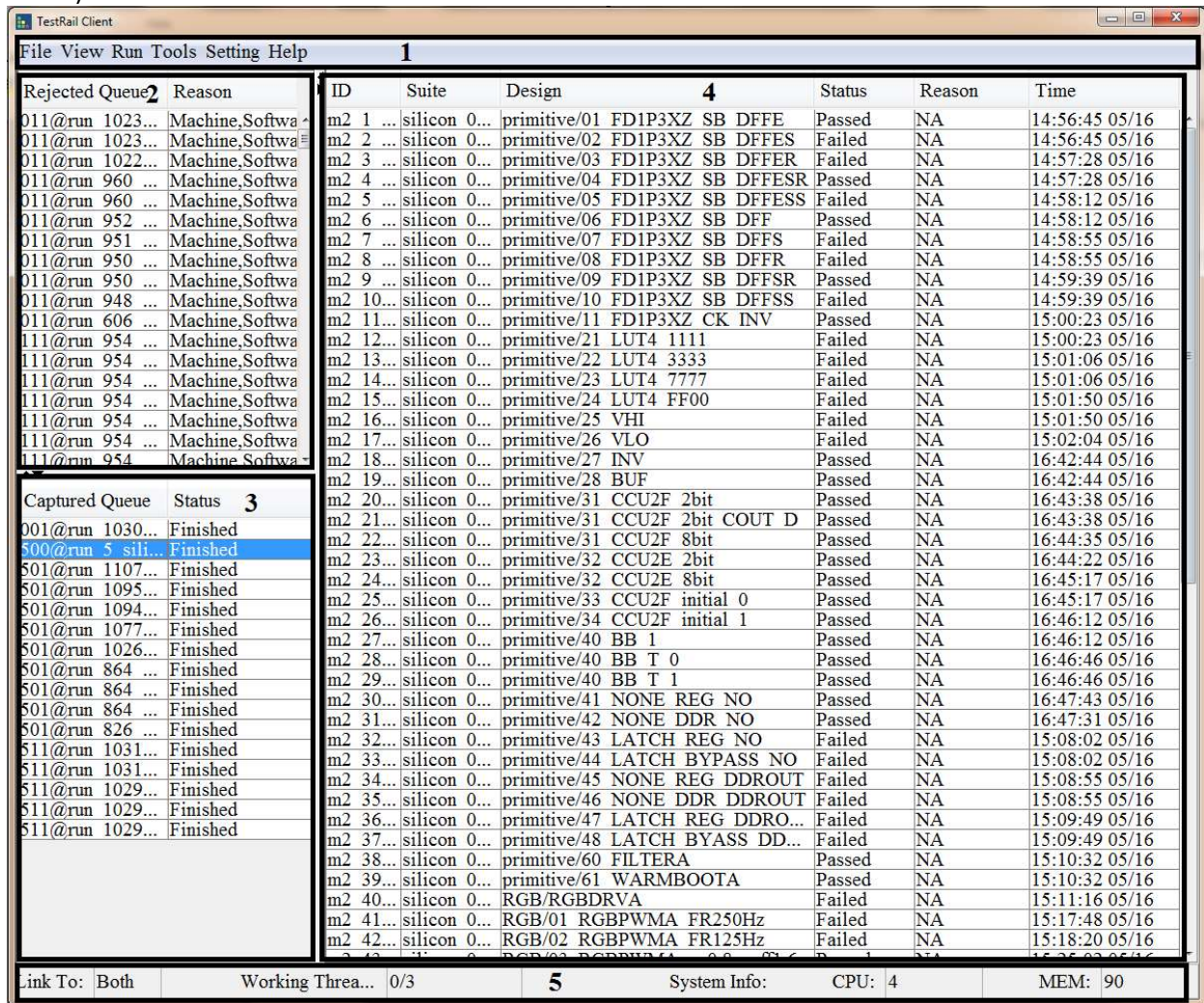


Figure13: Client main view

4.1.2 Menu bar

4.1.2.1 File menu

“Import...”: Allow you import and run a standard test suite (suite Excel file, suite path)

“Export...”: Export test report.

“Exit”: Exit/Close software. (If you just click close button on the main view, client will just close the window and hide. You can re-open the client window from system tray.)

4.1.2.2 View menu

Actions for “watching task panel (4)”:

“All”: Show all task cases in this task.

“Waiting”: Show waiting task cases in this task.

“Processing”: Show processing task cases in this task.

“Failed”: Show failed task cases in this task.

“Passed”: Show passed task cases in this task.

“TBD”: Show TBD task cases in this task.

“Timeout”: Show timeout task cases in this task.

4.1.2.3 Run menu

Actions for “Captured queue panel (3)” and “watching task panel (4)”

“Play”: action for “Captured queue panel (3)”, when there is a captured task selected, “Play” will restart this task.

“Pause”: action for “Captured queue panel (3)”, when there is a captured task selected, “Pause” will pause this task.

“Stop”: action for “Captured queue panel (3)”, when there is a captured task selected, “Stop” will stop this task.

“Retest” action for “watching task panel (4)”. Retest the test case in watching task according with the condition selected.

4.1.2.4 Tools menu

4.1.2.4.1 Upload

Integration tool allow you to update standard test suite to TMP server.

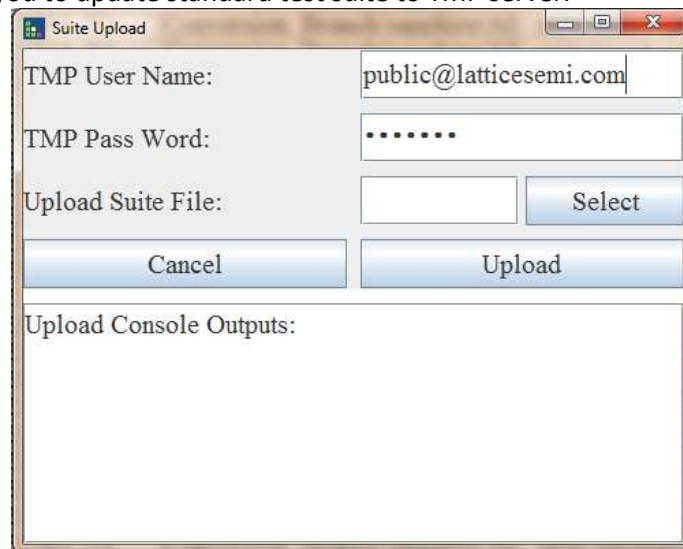


Figure14: Suite upload dialog

Please input your user name and pass word given by TMP admin.

Use “Select” button to select test suite you want to upload to server.

Click “Upload” button to start upload.

All output lines will be shown in “Upload Console Outputs” window.

4.1.2.4.2 Keygen

Integration tools allow you generate encryption code for your account and password which will be show on TMP website (auth_key = xxx)



Figure15: Key generate

4.1.2.5 Setting menu

Client setting, refer to [3.4](#) section

4.1.2.6 Control menu

Client control, we shutdown/restart client or host machine.

4.1.2.7 Help menu

“Usage”: show this help document and some demo usage.

“Contact”: create email and send to Client developer.

“About”: show client version information

4.1.3 Rejected queue panel

All rejected tasks will be shown here with queue name and rejected reason.

You can select one queue and make a right click to popup a “popup menu”, click “Details” to show details information:

Detail info for 511@run_961_040717_170101:		
Item	Request Value	Available Value
Software.diamond	3.9	d38_p1,d39_p2,3.9.0.48
Machine.terminal	D50523,D27409	D27639
Machine.group	test_sp1	rna_regression_group
*: Client work in Private Mode: Olny 'Assigned' task will be run.		

Figure16: Detail rejects view

You will be shown request values and current client value.

4.1.4 Captured queue panel

All captured tasks will be shown here with queue name and current status.

You can select one queue and make a right click to popup a “popup menu” like following:

ID	Suite	Design	Status	Reason	Elapsed Time
m0 1...	T+ analy...	SDC cases/02 create generated c...	Passed	ERROR - ...	0h 0m 12s
m0 1...	T+ analy...	SDC cases/03 set clock latency/f...	Passed	ERROR - ...	0h 0m 12s
m0 1...	T+ analy...	SDC cases/03 set clock latency/n...	Passed	ERROR - ...	0h 0m 12s
m0 1...	T+ analy...	SDC cases/03 set clock latency/r...	Passed	ERROR - ...	0h 0m 12s
m0 1...	T+ analy...	SDC cases/03 set clock latency/r...	Passed	ERROR - ...	0h 0m 12s
m0 1...	T+ analy...	SDC cases/03 set clock latency/s...	Passed	NA	0h 0m 22s
m0 1...	T+ analy...	SDC cases/03 set clock latency/s...	Passed	ERROR - ...	0h 0m 12s
m0 1...	T+ analy...	SDC cases/09 set min delay/fall...	Passed	ERROR - ...	0h 0m 12s
m0 1...	T+ analy...	SDC cases/09 set min delay/fall...	Passed	NA	0h 0m 21s
m0 1...	T+ analy...	SDC cases/09 set min delay/fro...	Passed	NA	0h 0m 21s
m0 1...	T+ analy...	SDC cases/09 set min delay/fro...	Passed	NA	0h 0m 21s
m0 1...	T+ analy...	SDC cases/02 create generated c...	Passed	NA	0h 0m 21s
m0 1...	T+ analy...	SDC cases/09 set min delay/fro...	Passed	NA	0h 0m 21s
m0 1...	T+ analy...	SDC cases/09 set min delay/fro...	Passed	NA	0h 0m 21s
m0 1...	T+ analy...	SDC cases/09 set min delay/fro...	Passed	NA	0h 0m 21s
m0 1...	T+ analy...	SDC cases/09 set min delay/fro...	Passed	NA	0h 0m 21s
m0 1...	T+ analy...	SDC cases/09 set min delay/thro...	Passed	NA	0h 0m 21s
m0 1...	T+ analy...	SDC cases/09 set min delay/to c...	Passed	NA	0h 0m 21s
m0 1...	T+ analy...	SDC cases/09 set min delay/a...	Passed	NA	0h 0m 21s
m0 1...	T+ analy...	SDC cases/09 set min delay/b...	Passed	NA	0h 0m 21s
m0 1...	T+ analy...	SDC cases/09 set min delay/cl...	Passed	NA	0h 0m 21s
m0 1...	T+ analy...	SDC cases/09 set min delay/cl...	Passed	NA	0h 0m 21s
m0 1...	T+ analy...	SDC cases/09 set min delay/cl...	Passed	NA	0h 0m 21s
m0 1...	T+ analy...	SDC cases/14 new featur	Failed	NA	0h 0m 21s
m0 1...	T+ analy...	SDC cases/14 new featur	Waiting	NA	0h 0m 21s
m0 1...	T+ analy...	SDC cases/14 new featur	Processing	ERROR - ...	0h 0m 11s
m0 1...	T+ analy...	SDC cases/14 new featur	Failed	NA	0h 0m 21s
m0 1...	T+ analy...	SDC cases/14 new featur	Passed	NA	0h 0m 21s
m0 1...	T+ analy...	SDC cases/14 new featur	Passed	NA	0h 0m 20s
m0 1...	T+ analy...	SDC cases/14 new featur	Passed	NA	0h 0m 31s
m0 1...	T+ analy...	SDC cases/15 wildcard v	TBD	NA	0h 0m 41s
m0 1...	T+ analy...	SDC cases/15 wildcard v	Timeout	NA	0h 0m 40s
m0 1...	T+ analy...	SDC cases/15 wildcard v	Halted	NA	0h 0m 40s
m0 1...	T+ analy...	SDC cases/04 set clock t	ERROR - ...	ERROR - ...	0h 0m 10s
m0 1...	T+ analy...	SDC cases/13 DRC/01 create cl...	Passed	ERROR - ...	0h 0m 15s
m0 1...	T+ analy...	SDC cases/13 DRC/01 create cl...	Passed	ERROR - ...	0h 0m 15s
m0 1...	T+ analy...	SDC cases/13 DRC/01 create cl...	Passed	ERROR - ...	0h 0m 15s
m0 1...	T+ analy...	SDC cases/13 DRC/01 create cl...	Passed	NA	0h 0m 20s
m0 1...	T+ analy...	SDC cases/00 jedi/create clock	Passed	NA	0h 0m 36s
m0 1...	T+ analy...	SDC cases/00 jedi/create generat...	Passed	NA	0h 0m 31s
m0 1...	T+ analy...	SDC cases/00 jedi/set clock gro...	Passed	NA	0h 0m 36s
m0 1...	T+ analy...	SDC cases/00 jedi/set clock late...	Passed	NA	0h 0m 31s

Figure18: Task panel popup menu

“Retest”: will retest this case.

“Terminate”: will terminate the running case.

“View”: same function as [4.1.2.2](#) view menu.

“Details”: Show test case detail information.

“Results”: open the task case result folder.

4.1.6 Status bar

Status bar will show you current running threads number and current system info like MEM and CPU.

4.2 Launch a local test suite

Step 1: make sure your client not running in remote mode (Setting → Preference → link server)

Step 2: click File → import...

4.2.1 import a standard suite file

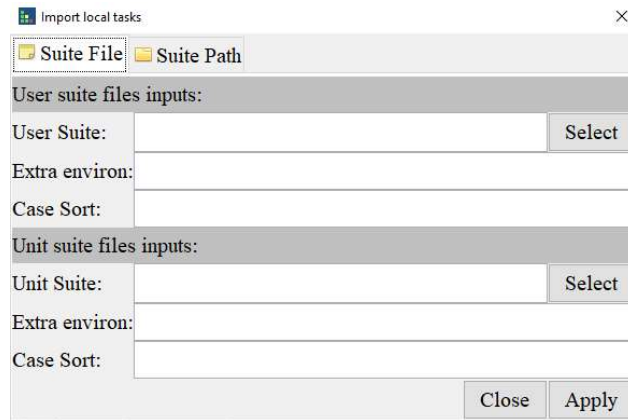


Figure19: Import suite file

Here we have 'User suite files inputs' and 'Unit suite files inputs' the only difference is: When you click 'Select' in 'User suite files inputs' Client will go to '<User home>' directory. When you click 'Select' in 'Unit suite files inputs' Client will go to '<client_install_path>/doc/TMP_EIT_suites' directory.

1. click 'Select' to find the suite file (Excel file)
2. if you have special environment to set, please put it in 'Extra environ'
3. 'Case Sort' used to select test case, demo: 'option1=value1, value2;option2=value1' here option1 and option2 are titles in suite file
4. Click 'Apply' to start testing

4.2.2 import a suite path

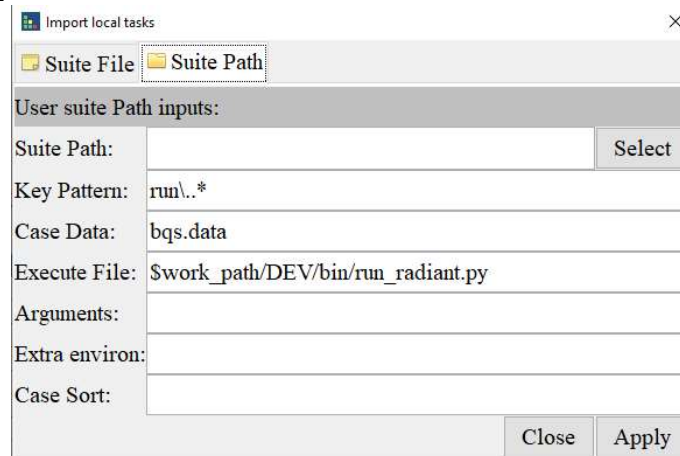


Figure20: Import suite path

Client also supports a suite path import. Client use 'Key Pattern' for test case identification and 'Execute File' for test script.

4.3 Launch remote test suite

Make sure your client not running in local mode (Setting → Preference → link server).

4.4 Report output

click File → Export....

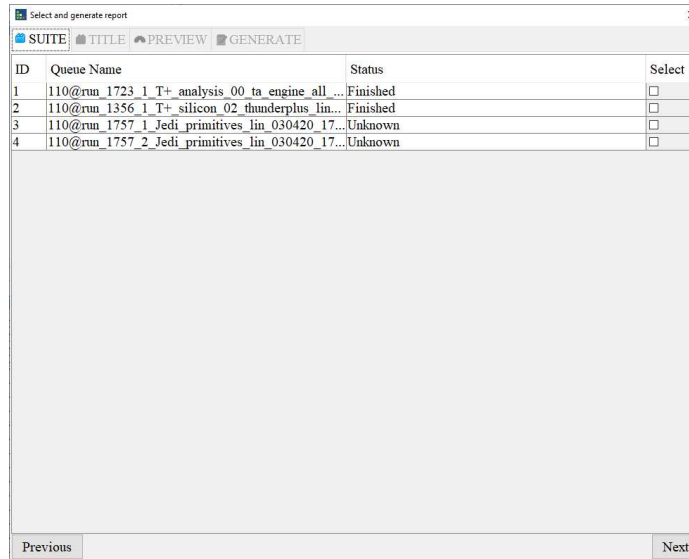


Figure21: Export dialog

Select test queue and the titles for export and generate test report according the wizard.

4.5 Client info and update

Click 'Help' → 'About' you will see following picture.

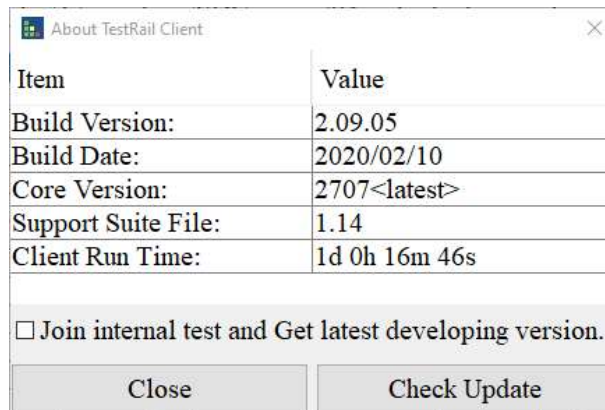


Figure22: About dialog

In this dialog we can see the detail client version and build date.

Click 'Check Update' for new client update.

5 Appendix

Software address: \\lsh-smb02\sw\qa\qa_store\TMP_tools\depend_software

TMP client build: Software QA SVN: /release/tmp_client/