

UFT and Battalion



"We Are Not Alone"

UFT provides various tools to support the automation but this is one of the least explored area. We will explore these small utility tool and their features.

1 Let's run test from remote machine - AQTRmtAgent.exe

This utility allow you to run the test on remote machine for example if we want to run test from ALM or run the test by object model on different machine. Remember you need valid UFT licence on remote machine with UFT (or UFT server) installed.



Example

```
Dim qtApp '
Set qtApp = CreateObject("QuickTest.Application","KrishaPC") ' Create the object on remote
qtApp.Launch ' Start QuickTest (with the correct add-ins loaded)
qtApp.Visible = True ' Make the QuickTest application visible
Set qtApp = Nothing ' Release the Application object
```

Before running the above code these two process need to register by command prompt.

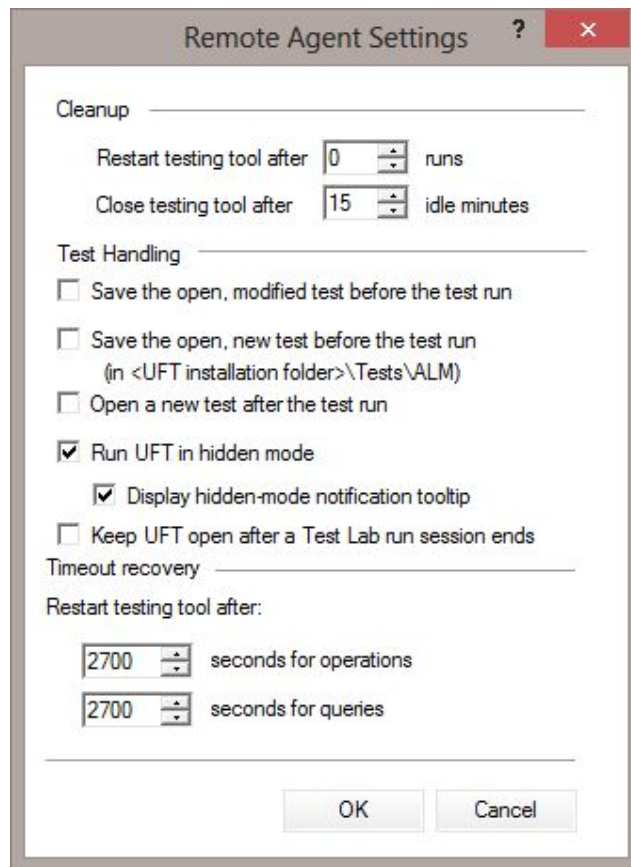
```
<UFT_bin_folder>\AQTRmtAgent.exe" /regserver
<UFT_bin_folder>\QTAutomationAgent.exe" /regserver
```

Exercise – Understanding Remote Agent settings

STEP1: Open Remote Agent Setting wizard



*Go to UFT bin directory (by default it is C:\Program Files (x86)\HP\Unified Functional Testing\bin)
/ Double click on AQTRmtAgent.exe / Go to right lower pane on PC / Right click on remote agent/
Settings*



It does three operations

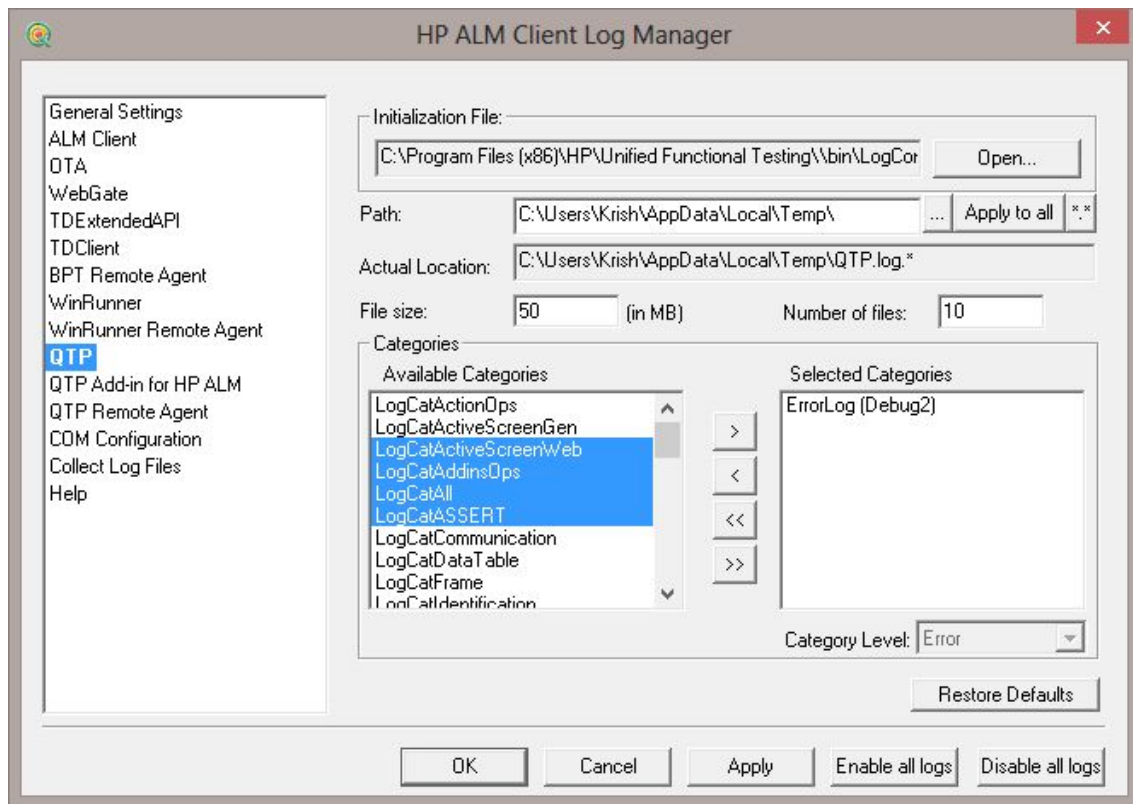
Clean up – by restarting or closing the tool

Test Handling – run the updated test. It can also instruct UFT to run in hidden mode. If this option selected then you will not see UFT on remote machine.

Timeout recovery – It restart the UFT after specific duration if UFT hit any issue.

2 Let's trace our footprints – ClientLogs.exe

The ALM Client Log Manager allows management of the ALM client logs. Below screenshot of the utility shows the options available that can enable or disable.



	Modules	Description
1	ALM Client Log Manager	It allows to manage the ALM Client logs. Client is application to access the ALM server. We can enable or disable all of the client logs. These logs can be collate in a ZIP file
2	OTAClient Module	OTA is Open Test Architecture that allows to manipulate ALM programatically. This module contains the log settings for the OTAClient. The settings are maintained in the HKEY_LOCAL_MACHINE\SOFTWARE\Mercury Interactive\OTA key in the registry.
3	WebGate	WebGate provide information about ALM usage. You can find it on <a href="http://<YOUR SERVER NAME>/qcbn/Apps">http://<YOUR SERVER NAME>/qcbn/Apps This module contains the log settings for the WebGate Client.
4	TDExtendedAPI	This module contains the log settings for TDExtendedAPI. It requires when ALM integrate with 3rd party system.
5	TDClient	This module contains the log settings for the TDClient.
6	BPT Remote Agent	This module contains the log settings for the BPT Remote Agent.
7	Winrunner	That is old automation tool replaced by QTP (Now UFT). This module contains the log settings for WinRunner.
8	Winrunner Remote Agent	This module contains the log settings for the WinRunner Remote Agent.

9	QTP	This module enables UFT logs. The settings are maintained in the mic.ini file in QuickTest Professional's bin directory.
10	QTP Add-In for HP ALM	This module contains the log settings for the QuickTest Professional Add-in for ALM. The settings are maintained in the mic.ini file in UFT Add-in's bin directory.
11	QTP Remote Agent	This module contains the log settings for the QuickTest Professional Remote Agent. The settings are maintained in the mic.ini file in UFT's bin directory.
12	COM Configuration	This module allows you to configure the way COM servers are loaded. You can configure the server to run in-process or out-of-process. This is an advanced setting, and it is not recommended to make changes to this module without consulting HP support first.
13	Collect Log Files	This module allows you to collate and compress logs to a ZIP file, and mail it via Outlook.
14	Help	It provide description of various logs in client.exe

3 Hide the Secrete – Password Encoder CryptonApp.exe

STEP1: Open CryptonApp.exe



*Go to UFT bin directory (by default it is C:\Program Files (x86)\HP\Unified Functional Testing\bin)
/ Double click on CryptonApp.exe | Provide "KrishanShukla" | Generate | Copy*

4 Awe-Wow the movie - Free_HPSR_Player.exe

UFT capture the sequence of action in .fbr movie file. Free_HPSR_Player plays the UFT logs movies.

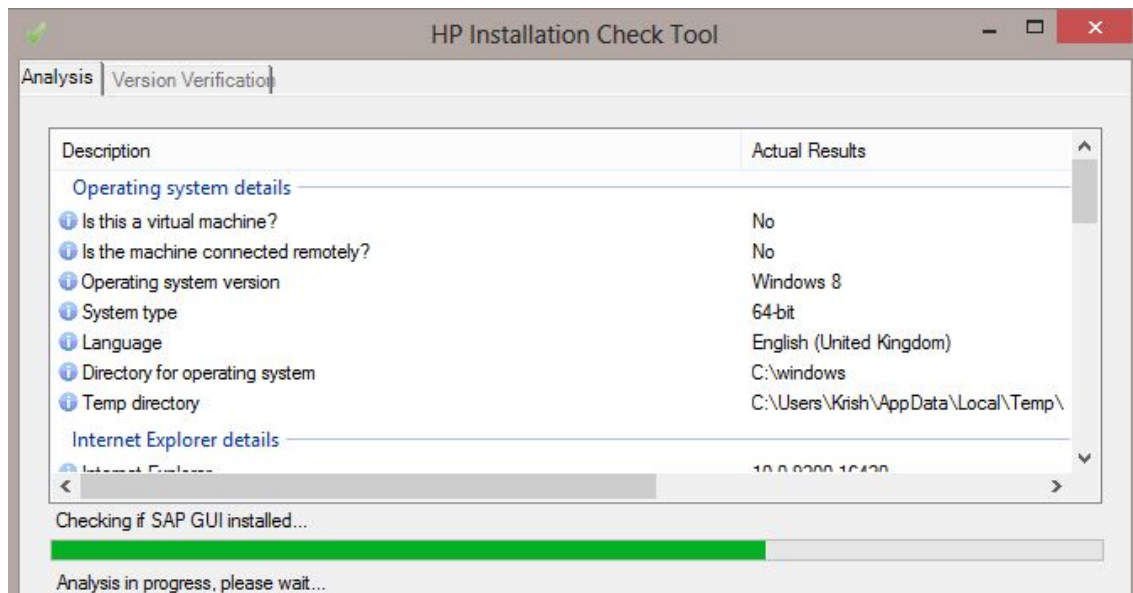
STEP1: Open CryptonApp.exe



*Go to UFT bin directory (by default it is C:\Program Files (x86)\HP\Unified Functional Testing\bin)
/ Double click on Free_HPSR_Player.exe | Select any .fbr file*

5 Knowing our soul - HP Installation Check Tool

If we hit any issue then we need to find out the detail of our environment, installed add-ins, browser and product information, integration with other HP products, patches detail



STEP1: Run HP Installation Check Tool.exe



Go to UFT bin directory (by default it is C:\Program Files (x86)\HP\Unified Functional Testing\bin) / Double click on HP Installation Check Tool.exe

6 Install the Licence - inst_key.exe

STEP1: Run HP Installation Check Tool.exe



Go to UFT bin folder / Double click on inst_key.exe

You can activate, view, and manage license key1s and create a company profile to track your license assets from the following site:

<https://webware.hp.com/welcome.asp>

STEP2: Validate the Licence by licensehelpdlg.exe



Go to UFT bin folder / Double click on licensehelpdlg.exe

7 Once Upon a Time - QTRReport.exe

STEP1: Run QTRReport.exe



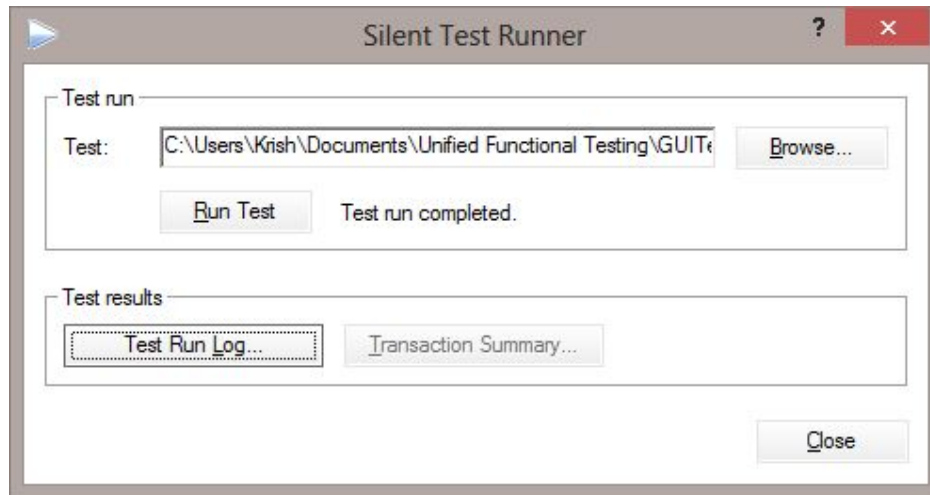
Go to UFT bin folder / Double click on QTRReport.exe

8 Hide and Seek – Silent Test Runner

STEP1: Run SilentTestRunner.exe



Go to UFT bin folder / Double click on SilentTestRunner.exe / Browse any test / Run Test / Test Run Log




9 Brace the All Mighty – Convert SOAP Test to UFT API Test

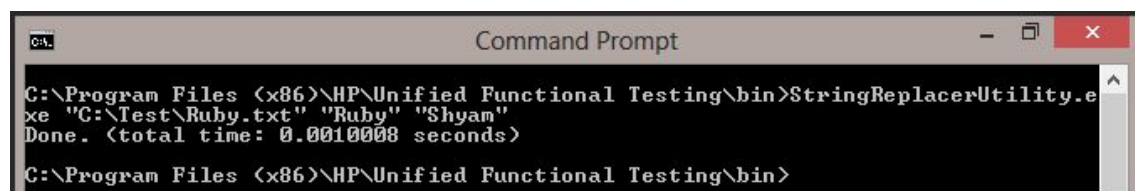
STEP1: Run soapUI2APITest.exe

 [Go to UFT bin folder | Double click on soapUI2APITest.exe | Browser any SOAP Test | Convert](#)

10 Rewrite the History - Replace String by StringReplacerUtility.exe

STEP1: Run StringReplacerUtility.exe

 [Go to "C:\Test" | Create "Ruby.txt" | Write text "Ruby Language, Ruby on rail" | Open Command Prompt | Navigate to UFT bin Folder | run command StringReplacerUtility.exe "C:\Test\Ruby.txt" "Ruby" "Shyam"](#)



But what is the purpose of having it? Can't we just open the file and do the same? The purpose of this utility provide great value during run time when manual intervention is not possible. We can run command by UFT script and manipulate file without creating filesystem object.

The specification of StringReplacer:

StringReplacer <filename> <"find string"> <"replace string">

11 Erase the bulky History – Delete old result TestResultsDeletionTool.exe

STEP1: Run TestResultsDeletionTool.exe



Go to UFT bin folder | Double click on TestResultsDeletionTool.exe | Browser any already ran test | Delete | Yes | Connect | If you have HP ALM then provide server URL | Connect | Open Test | Delete

When UFT run test (full or partial) it create results in user defined (res by default) folder. Sometime the result count go in two or three digits. These results consume memory and confuse in future. The feature of this utility seems obvious but it shows test result with timestamp to judge the unnecessary results folders correctly. It also work well with ALM to clean up the old result mess.

12 All under one Umbrella - Batch Runner UFTBatchRunner.exe

STEP1: Run UFTBatchRunner.exe



Go to UFT bin folder | Double click on UFTBatchRunner.exe | Tests | Navigate to already created test | Add other Tests | Save batch | Run Batch

13 Prepare for War – Configure IE, DCOM & Licence by UFTInstallReqs.exe

STEP1: Run UFTInstallReqs.exe (You need Administrator right on machine)



Go to UFT bin folder | Double click on UFTInstallReqs.exe | OK | Run

This utility configure the UFT prerequisite setting for browser, DCOM and licence utility. When we install the UFT then this program runs to make your journey smooth in automation world but if things mess up later onward then this utility can resolve these setting issues.

14 Council Vs. Counsel – File/Dir difference by wdiff.exe

STEP1: Run wdiff.exe



Go to UFT bin folder | Double click on wdiff.exe | File | Select File/Directories | Left | Select any file | Right | Select any file | OK

This is one of the most helpful utility. Not only has it found the delta between file but also in directories.

15 Be a Marco Polo – Commuter Licencing

STEP1: Run WCommute.exe



Go to UFT bin folder | Double click on WCommute.exe

Suppose you have concurrent licence and you must plugged with organizational licencing server. But what if you may need to roam outside that network e.g. out of office etc. You may check out licence via Wcommute on your machine. This will enable UFT to run test without connecting to the network.