



Installation & Configuration Guide

Version 4.4

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1. Introduction

1.1. About the TAF Pro Framework

TAF Pro is a hybrid automated testing framework that combines elements of data-driven and keyword-driven frameworks and adopts a role-based approach to test development and execution.

The key objectives of an automation framework are:

- To enable reuse and sharing of automation scripts to improve efficiency and scalability;
- To reduce the test maintenance overhead;
- To provide a non-technical user interface for business users;
- To capture and leverage the domain knowledge of business users into a set of regression tests that can be executed repeatedly without requiring the business representative to be present.

The key functions within TAF Pro are:

- Execution of tests built with Test Automation Tools such as IBM Rational Functional Tester;
- Easing data handling challenges for data being used during testing;
- The linking of tests to form scenarios and suites of associated tests.

TAF Pro has been developed with a focus on:

- Minimizing the impact of the framework on script development;
- Approaching test execution from a business perspective (as opposed to purely technical testing);
- Providing flexibility in data association and selection.

1.2. Intended Audience for this Guide

The TAF Pro Installation and Configuration Guide is intended for System Administrators and technical users who have the knowledge and system access rights to install software in their systems environment. This document pre-supposes a level of knowledge in the reader to enable them to locate the information needed to complete the configuration of the TAF Pro software to integrate with the test management toolset, the databases and the email servers being used in their implementation.

1.3. Other TAF Pro Documentation

The **TAF Pro User Guide** contains information for Test Analysts who will set up and use TAF Pro to execute their testing.

The **TAF Pro Scripting Guide** is written to guide technical analysts who will develop scripts in one of the test management tools that is supported by TAF Pro. The Scripting guide provides the information to enable the scripts to be integrated into a TAF Pro environment.

All the TAF Pro documentation is included in the TAF Pro distribution package.

2. Installation Pre-Requisites

2.1. System Requirements

Supported Operating Systems:

1. Windows 7 32 and 64 bit
2. Windows 8 64 bit
3. Windows server 2003 32 and 64 bit
4. Windows Server 2008 R2 64 bit

RAM: 4 GB minimum

CPU: 2.1GHz.

Hard drive: 20GB consisting of the following:

1. Java Development Kit (JDK) minimum Version 7.17 (32bit) - 75MB (required for both 32 bit and 64 bit operating systems)
2. Java Development Kit (JDK) minimum Version 7.17 (64bit) - 67MB (required for 64 bit installations only)
3. Apache ANT Version 1.8.3 - 39MB
4. Adobe Reader - 38MB
5. IBM Rational Functional Tester (Functional Tester) minimum Version 8.3 - 1.3GB
6. Database – one of:
 - 6.1. MySQL Server minimum Version 5.5.33 - 31.2 MB
 - 6.1.1. MySQL Workbench 5.2.44 - 26.3 MB
 - 6.2. SQL Server minimum 2008 R2
7. TestPro Automation Framework Version - 25MB
8. Additional suggested storage to allow for database growth and for data, results and test script storage will depend on how many tests are run in TAF Pro. Suggested 20GB, but should be monitored as TAF Pro is used and increased if necessary.

2.2. Software Requirements

The following applications must be available on the system where TAF Pro is to be installed. The new Pre-requisite Setup Wizard can assist users in setting up some of this software before installing TAF Pro.

1. MS Excel – to build datasheets for TAF Pro
2. Java Developers Kits
 - 2.1. Required for the underlying technology on which TAF Pro is built and will run Command Line Interface capabilities
3. ANT Apache from <http://ant.apache.org/bindownload.cgi>
 - 3.1. Required for underlying technology on which ANT command line execution is built
4. IBM Rational Functional Tester V8.x (refer IBM installation guides)
 - 4.1. Required for the underlying Scripting tool on which TAF Pro is built
5. Database
 - 5.1. Required for the underlying database containing TAF Pro data and Configuration settings
 - 5.1.1. MySQL-essentials and MySQL tools from <http://dev.MySQL.com/downloads/>
 - 5.1.2. SQL Server from <http://www.microsoft.com>
6. Adobe Reader from <http://get.adobe.com/reader/otherversions/> - required to view all printed matter for TAF Pro, the User Manual, End User Licence Agreement, Installation Guide and Release Notes
7. TAF Pro Solution – application for managing test execution and data

3. Install Required Software

3.1. Install Java Development Kit

The new Pre-requisite Setup Wizard in TAF Pro v4.4 can assist users in setting up Java correctly for use with TAF Pro. It is suggested that this setup wizard be used rather than attempting to manually setup Java. If however the user wishes to make the changes themselves, please follow the instructions below carefully.

Java Development Kit is required when implementing TAF Pro with Command Line execution capability. **Note:** 32 bit machines need 32 bit java installed. 64 bit machines need only 64 bit java installed.

For 32 and 64 bit installations:

1. Using Windows Explorer go to **C:\Program Files\Java** (64bit) or **C:\Program Files(x86)\Java** (32bit). If there is already a JDK Directory, go to the next section. Do not install again;
2. If installing for the first time, download the JDK from www.oracle.com/java. The recommended version is **JDK 7 Update 25**;
3. Click on the downloaded **jdk-xuxx-windows-i586** (32 bit Java) and **jdk-xuxx-windows-x64** (64 bit Java) to install;
4. Follow the instructions on the screen to complete the installation;
5. Accept default settings and click **NEXT** to install;
6. When installation has finished click **FINISH** to complete.

3.2. Install Apache Ant

The new Pre-requisite Setup Wizard in TAF Pro v4.4 can assist users in setting up Ant correctly for use with TAF Pro. It is suggested that this setup wizard be used rather than attempting to manually setup Ant. If however the user wishes to make the changes themselves, please follow the instructions below carefully.

1. Download Apache Ant version 1.8.3 from <http://ant.apache.org/bindownload.cgi>
2. Scroll down the page until you find the Old Ant Releases link to download the recommended version
3. Right Click on the downloaded **apache-ant-1.8.3-bin.zip** compressed file and select **EXTRACT ALL**
4. Follow the instructions on the screen to unzip.

5. Set Destination Path to a path that preferably does not have embedded spaces and is not under User Access Control, e.g. **C:\Ant**
6. Click **Extract** to extract Apache Ant

3.3. Install Adobe Reader

Adobe Reader is used to display the following documents:

- Various licenses of the Open Source components used within TAF Pro
- TAF Pro User Guide
- TAF Pro Installation Guide
- End User License Agreement

To download and install Adobe Reader access the following web site:

<http://get.adobe.com/reader/otherversions/>

To install the software:

1. **Check** if the PC being installed has Adobe installed and move to next section if Adobe is already available.
2. From the above listed website **Select** the Operating system and Language according to where TAF Pro will be installed
3. Click **Continue**
4. Download by clicking the **Download Now** button and save the file to your hard disk.
5. Double-click the **AdbeRdrxxx_en_US.exe** on your hard disk to start the Setup program.
6. Follow the instructions on the screen to complete the installation.
7. If connected to the Internet, Adobe may search for and install any updates.

3.4. Install IBM Rational Functional Tester

The new Pre-requisite Setup Wizard in TAF Pro v4.4 can assist users in setting up RFT correctly for use with TAF Pro. It is suggested that this setup wizard be used rather than attempting to manually setup RFT. If however the user wishes to make the changes themselves, they can refer to the IBM installation guide provided with the IBM software.

3.5. Install TAF Pro Database

TAF Pro currently executes with SQL Server and MySQL databases. The Trial TAF Pro software will install and configure MySQL by default. Depending on the database to be used, go to the relevant section in this guide that applies. Internal company procedures should be adhered to when creating the TAF Pro Database. This section only applies to database installations. For upgrade of existing databases refer to the TAF Pro Upgrade Guide and bypass this section.

3.5.1. Install MySQL

The new Pre-requisite Setup Wizard in TAF Pro v4.4 can assist users in setting up MySQL correctly for use with TAF Pro. It is suggested that this setup wizard be used rather than attempting to manually setup MySQL. If however the user wishes to make the changes themselves, please follow the instructions in the following sections carefully.

The TAF Pro installation assumes that the user performing the installation not only has the authority to install the DBMS, but also access to the DBA authority to create the database, load the tables and define the user authorities to the database.

To download and install MySQL access the following web site: <http://dev.MySQL.com/downloads/>

From the above listed website:

1. Select **MySQL Community Server** from List in the Left Column
2. Select the Platform to suit your Operating System (Microsoft Windows)
3. Save the MSI File to your local disk
4. Double-click the **MySQL Server** executable file on your hard disk to start the Setup program.
5. Continue clicking **Next** as the installation wizard starts
6. If prompted to check for latest updates, click on the **Execute** button to continue installation
7. When prompted select the default selection in the Setup Type window
8. Continue clicking **Next** until prompted to install
9. Click **Execute** to begin the installation. If prompted to, **uncheck** the “Register the MySQL Server now” option
10. Click **NEXT** through the Configuration Overview section
11. Enter a password for the database root account, usually defaulting to **root**
12. Accept default settings by clicking **NEXT**
13. Click **Finish** to complete the installation

If using MySQL Server version 5.5.33, you will be required to install MySQL Workbench. Newer versions of MySQL Server are packaged to include MySQL Tools. Access the following web site: <http://dev.MySQL.com/downloads/> to download and install MySQL Tools separately.

From the above listed website:

1. Select **MySQL Workbench & Utilities (GUI Tool)** from List in the Left Column
2. Select **Archives** on the Downloads tab
3. Select **MySQL Workbench**
4. Select the Platform to suit your Operating System (Microsoft Windows)
5. Download Microsoft Windows 32 (Windows Installer Format)
6. Save the MSI File to your local disk

7. Double-click the **MySQL-workbench- gpl-5.2.44-win32.msiprogram** file on your hard disk to start the Setup program.
8. Follow the setup wizard clicking **NEXT** prompts until the setup completes. Accept all the program defaults.
9. Click **INSTALL** to begin the installation
10. Click **FINISH** to complete MySQL Workbench installation

3.5.2. Create MySQL database

To create the database, insert the TAF Pro Installation CD or navigate to the uncompressed contents of the installation zip file provided.

1. Start SQL Workbench: Start – Programs – MySQL – MySQL Workbench
2. A new database connection needs to be established.
 - 2.1. Open **Database** ➔ **Connect to Database** window
 - 2.2. Accept default parameters for hostname and port
 - 2.3. Login as the root database account (password created during installation process), click OK.
 - 2.4. Click on the **CREATE A NEW SCHEMA icon** in the Object Browser panel
 - 2.5. Enter **TAFDB** as the Database Name in the new schema window
 - 2.6. Click **APPLY** to create the TAF Pro database
 - 2.7. Click Apply again from the resultant pop up window
 - 2.8. Click **FINISH** to close the new-Schema window
 - 2.9. Close New Schema window when completed
3. Set schema created in 2.4 above to default schema.
 - 3.1. Select **TAFDB** under Schemas in the Object Browser panel
 - 3.2. **RIGHT CLICK** and **SELECT Set as Default Schema**. Once set as default schema, the name should be highlighted in **bold**.
4. Click **File > Open SQL script**.
5. Click on the **tafdb_420** SQL File on your installation CD
6. Click **OPEN** to display the script in the window editor
7. Click **EXECUTE** (lightning bolt icon will only take seconds to complete)
8. Click **REFRESH icon in Schemas section of left menu** to display the table list in the database
9. Close MySQL Workbench, database setup is complete
10. When the database is setup the following details need to be provided to the person installing TAF Pro:
 - 10.1. Database name

- 10.2. Schema Name (will be same as database name for MySQL)
- 10.3. Port
- 10.4. Instance (Not Required for MySQL)
- 10.5. TAF Pro Database user name and password - The username should have Select, Insert, Update and Delete access to the TAF Pro Database

3.5.3. Create SQL Server Database

TAF Pro assumes that SQL Server is already installed and that an SQL Server DBA will create the database, load the tables and set initial authorities.

The DDL to perform these tasks can be found on the installation CD in folder TAF Prodb\SQL Server. These SQL's need to be applied in the following order:

1. TAF Prodb.sql – to define the TAF Pro database
2. TAF Prodb_tables.sql – to define the database username, tables, indexes and foreign keys
3. TAF Prodb_authorities.sql – to grant authorities on the tables to the database username
4. TAF Prodb_inserts.sql – to load the tables with initial required data
5. When the database is setup the following details need to be provided to the person installing TAF Pro:
 - 5.1. Database name
 - 5.2. Schema Name
 - 5.3. Port
 - 5.4. Instance
 - 5.5. TAF Pro Database user name and password - The username should have Select, Insert, Update and Delete access to the TAF Pro Database

4. Install TestPro Automation Framework

4.1. Installation Media

1. Insert the TAF Pro Installation Media CD/DVD or extract the zip file provided.
2. Open Windows Explorer and expand the CD/DVD icon.
3. The following files will be displayed:
 - 3.1. setup.exe – the installation executable
 - 3.2. TAFdb – a folder containing the database DDL
 - 3.3. TAF Pro Installation Guide (this document)
 - 3.4. TAF Pro User Guide
 - 3.5. TAF Pro Scripter Guide
 - 3.6. Readme
 - 3.7. TAF Pro Release Notes
 - 3.8. EULA – End User Licence Agreement

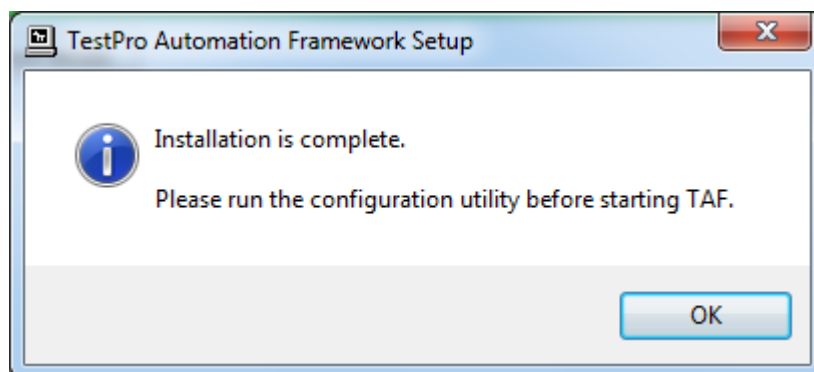
Where an earlier version of TAF Pro is installed on a PC, refer to the TAF Pro Upgrade Guide to update the existing database and application.

4.2. Default Paths

Installation Directory	C:\Program Files (x86)\TestPro\TestProAutomation Framework
Lib directory	C:\Program Files (x86)\TestPro\TestProAutomation Framework\lib
TAF Administration	C:\Users\Public\TestPro\Test Pro Automation Framework
TAF Datastore	C:\Users\Public\TestPro\Test Pro Automation Framework
TAF Logs	C:\Users\Public\TestPro\Test Pro Automation Framework\logs
TAF Output	C:\Users\Public\TestPro\Test Pro Automation Framework\OutputFiles
RFT Executable	C:\Program Files(x86)\IBM\SDP\Functional\Tester\bin\rational_ft.exe

4.3. Install from setup disk

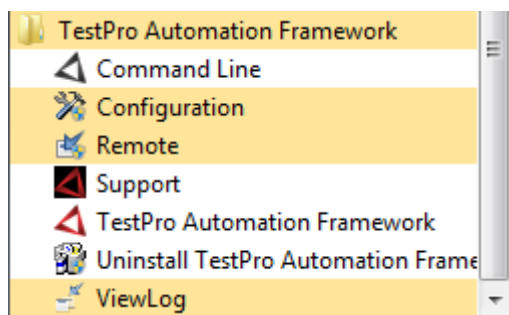
1. Double-click the **setup.exe** program file on your TAF Pro Installation Disk to start the TAF Pro Setup
2. Select the Installer Language then click **OK**
3. The TAF Pro splash screen will display, followed by the Installation Welcome screen
4. Follow the setup wizard clicking **Next** prompt to display Licence Agreement
5. Read Licence Terms and click **I Agree** to accept the terms of the licence agreement
6. For the Trial software, the user will be prompted to follow a set of mandatory pre-requisite software configuration steps.
7. For the Full licensed software, the user will be prompted to choose either the Pre-requisite software wizard or the Full TAF Pro installation. If the pre-requisite software has not been installed on the target machine, then it should be completed before continuing with the TAF Pro installation.
8. Once the pre-requisite setup wizard is complete, select a **Destination folder** in which to install TAF Pro
 - 8.1. The default is the C:\Program Files directory, but can be changed to another location
9. Click the **Next** button
10. Choose Additional Locations screen will display showing the default paths for the TAF Pro project (DataStore) and log directories
 - 10.1. The default is C:\Users\Public\TestPro\TestPro Automation Framework, but can be changed to another location
 - 10.2. DataStore Path holds all the TAF Pro enabled files which enable RFT projects to work with TAF Pro.
 - 10.3. Log Path holds all the TAF logs when running TAF
11. Once the paths are set, click the **Next** button
12. Click **Install** on the Start Menu Folder window
13. Wait while TAF Pro installs
14. Click **Finish** at the Completing TestPro Automation Framework Setup Wizard window
15. An information dialogue will display prompting the User to launch the Configuration process
 - 15.1. Click **OK** on the information dialogue
 - 15.2. The installation routine is now complete



4.4. Configure TAF database connection

Where possible, the user should allow the TAF Pro installation wizard to assist with the database setup and configuration, however if for some reason the setup wizard was not used to configure the database, please follow the steps below carefully to configure the database. This will mainly apply to users installing the Full licensed version of TAF Pro. The Trial version sets up a MySQL database by default.

1. Click **Start** → **Programs** → **TestPro Automation Framework**
2. The following program entries will display



2.1. Figure 1 : Start > All Program > Testpro Automation Framework menu

3. Click **Configuration**.
 - 3.1. A process similar to the installation will commence
4. Select the Installer Language then click **OK**.
5. The TAF Pro start screen will display, followed by the Installation Welcome screen
6. Follow the setup wizard clicking **Next**
7. The Database Connection Parameters Screen is displayed to configure the connection to the TAF Pro Database. The following entries should be made:
8. **Type:** Select the database type from the drop-down selection list
9. **User:** Enter the Database Login and Password that will be used to connect to the Database

10. **Connection Parameters:** Enter the details to establish a connection to the TAF Pro Database system
 - 10.1. **Server:** the name of the server on which the database resides; defaults to "localhost" for installations on the local PC.
 - 10.2. **Instance:** this value is only required for SQL Server databases and only if the DBA has created a database instance. For MySQL, this value will be blank.
 - 10.3. **Port:** the port number of the database (default ports are: MySQL 3306, SQL Server 1433). Please enter the port number advised by your DBA
 - 10.4. **Schema:** For MySQL the schema name should be left blank as it defaults to the database name. For SQL Server, the TAF Pro database user name is the default. Any other value will be provided by the DBA.
 - 10.5. **Database:** Defaults to TAF db for all database types. Any other value will be provided by the DBA.
11. Click **Next**
 - 11.1. If the Schema field is left blank, an information dialogue will appear informing you that the Schema will be set to the database name.
12. Click **OK**
13. A screen with Driver and Dialect dropdowns will be displayed.
14. Select the driver name from the drop down list. The settings provided are the defaults.

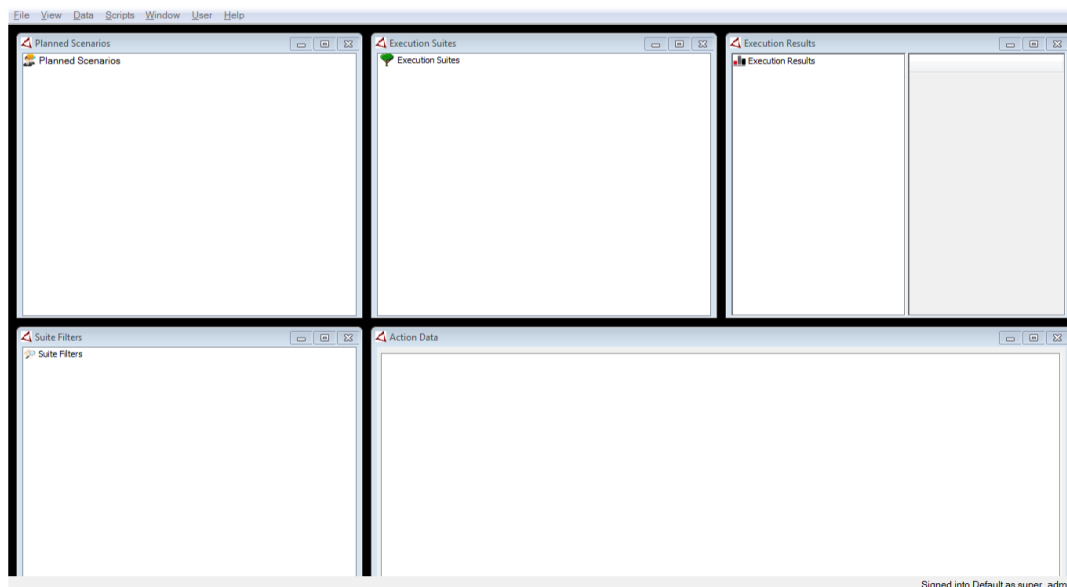
Database	Driver	Dialect
MySQL	com.MySQL.jdbc.Driver	MySQLInnoDialect
SQL Server	com.microsoft.sqlserver.jdbc.SQLServerDriver	SQLServerDialect

15. Click **Continue**
16. A Popup will be displayed to create super_admin user
17. Creates the Administration User in TAF Pro to enable the initial login and creation of other users and environments in TAF Pro.
18. Accept the user name as super_admin
19. ENTER a password for the super_admin user. (The password must be at least 6 characters long)
20. RE-CONFIRM entered password
21. Click CREATE to create the super_admin user
22. Click OK to confirm creation
23. Click **NEXT** to continue
24. Click **Finish** to complete the installation.

5. Set-Up Administration preferences in TAF Pro

This section applies to the Full license version of the software only. The Trial version of TAF Pro does not give the user access to Administrative functions.

1. From the desktop, double-click **TestPro Automation Framework** icon
2. **Enter** the super_admin username and password created previously
3. Select **Default** for the Environment (The super_admin user only uses the Default Environment)
4. Click on **Details** Button to set the Paths for TAF Pro.
 - 4.1. **DATASTORE:** This is where TAF Pro finds the TAF Pro Project for Rational Functional Tester Scripts. This will be the default location used when the user registers scripts in TAF Pro. Defaults to the Install Path for TAF Pro. For TAF Pro installations on multiple PC's this may be a centrally located remote repository. E.g. C:\Users\Public\TestPro\TestPro Automation Framework or \\[shared drive]\TAF Pro Enabled Projects\projectname
 - 4.2. **OUTPUTPATH:** When the export or import options for data groups is used in TAF Pro. This is the default location that will be accessed to find or create the files. Default is to set this to the user's local directory or if files need to be accessed by many machines a central shared drive that all users can access. E.g. C:\Users\Public\TestPro\TestPro Automation Framework\Output Files or \\[shared drive]\TAF Pro Enabled Projects\projectname\Output Files\[Username]
 - 4.3. **LOG PATH:** All TAF Pro Logs and execution logs will be added to this directory. This should be a local path on the PC that all users can access, or alternatively on a Shared Drive but a different directory for each TAF Pro User E.g. C:\Users\Public\TestPro\TestPro Automation Framework\Logs or \\[shared drive]\TAF Pro Enabled Projects\projectname\Logs\[Username]
 - 4.4. **TEST PROGRAM:** This is where Rational Functional Tester is installed and where the eclipse.exe is located. E.g. C:\Program Files\IBM\SDP\eclipse.exe
5. After successful login, TAF Pro Main Window will display as follows:



6. Set the **JAVA PATH**
 - 6.1. Go to **User → Preferences**
 - 6.2. Select **JAVA** from the Menu Tree
 - 6.3. Set **Java Program** to JRE in the Rational Functional Tester Installation Path. E.g. C:\Program Files\IBM\SDP\jdk\jre\BIN\JAVA.exe
7. Set up **Email Capability** to allow results from TAF Pro to be emailed to a recipient. In order to enable the SMTP service, a generic TAF Pro test email account should be set up on your mail server. This account is only used to validate the SMTP service and individual email addresses can later be added to tailor messages without the need to save email passwords.
 - 7.1. Go to **User → Administration → SMTP service Setup**
 - 7.2. **SERVER**: Outgoing email Server name
 - 7.3. **PORT**: Email Port (server and port details can be obtained from the Mail Administrator)
 - 7.4. **ADDRESS**: enter the generic email account name to be used to email results from TAF Pro
 - 7.5. **PASSWORD**: enter the email password

5.1. Configure TAF Pro Command Line Execution

This setup is completed by default when running the Pre-requisite setup wizard. It is recommended that users utilise this wizard as part of the installation process to avoid issues. If for some reason users wish to configure the settings manually, please follow these steps carefully.

The following steps must be completed prior to running TAF Pro with Command Line Execution for the first time.

Windows Configuration:

1. Open Control Panel then open the System utility
2. Click the Advanced Settings and select Environment Variables
3. Add a new System Variable called ANT_HOME, value is where you unzipped and saved Apache ANT
4. Click OK
5. Add a new System Variable called JAVA_HOME, value is where you installed the JDK, e.g. C:\Program Files (x86)\Java\jdk1.7.0_25\bin
6. Click OK
7. Select the Path variable and click the edit button
8. At the end of the line add “;%ANT_HOME%\bin;%JAVA_HOME%\bin”
9. Click OK and close window

6. Connect TAF Pro to a Rational Functional Tester Project

When using Rational Functional Tester for the first time, the user will need to setup and configure TAF Pro to see the RFT project and access the scripts within it. If the user has an existing RFT project during TAF Pro installation, then provide the project location at that time. Otherwise, follow the steps below to setup and configure RFT for first time use.

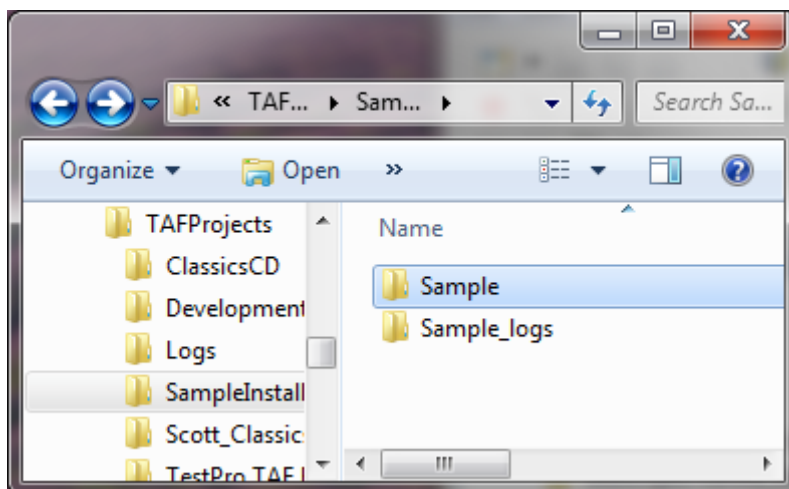
RFT projects should be copied to a separate directory before being connected to TAF Pro because TAF Pro modifies the contents and structure of the Project. For example, if the RFT project is stored as X:\RFTProjects\ClassicsCD you could copy it to X:\TAFProjects\ClassicsCD. Both the project directory and the project logs directory should be copied. Do not copy the RFT workspace across.

Users require the same access rights in the TAFProjects directory as in the RFTProjects directory.

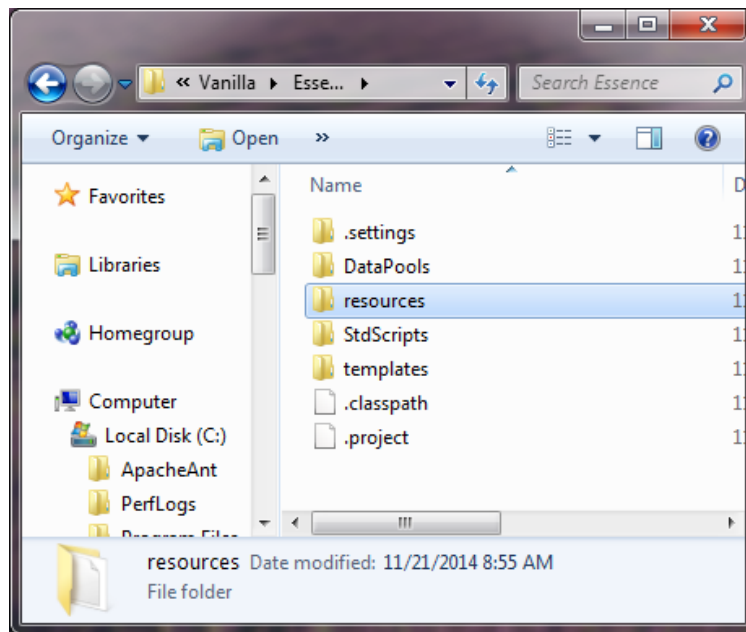
NB: The instructions in this section should be implemented for each RFT project that will be executed. Configure TAF Pro to existing RFT project RFT Repository

Copy the RFT project to the TAF Project directory.

Your TAF project directory should be similar to this:

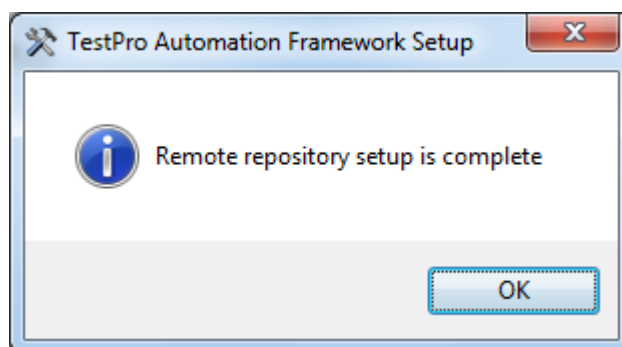


Within the TAF project the RFT project directory should be similar to this:



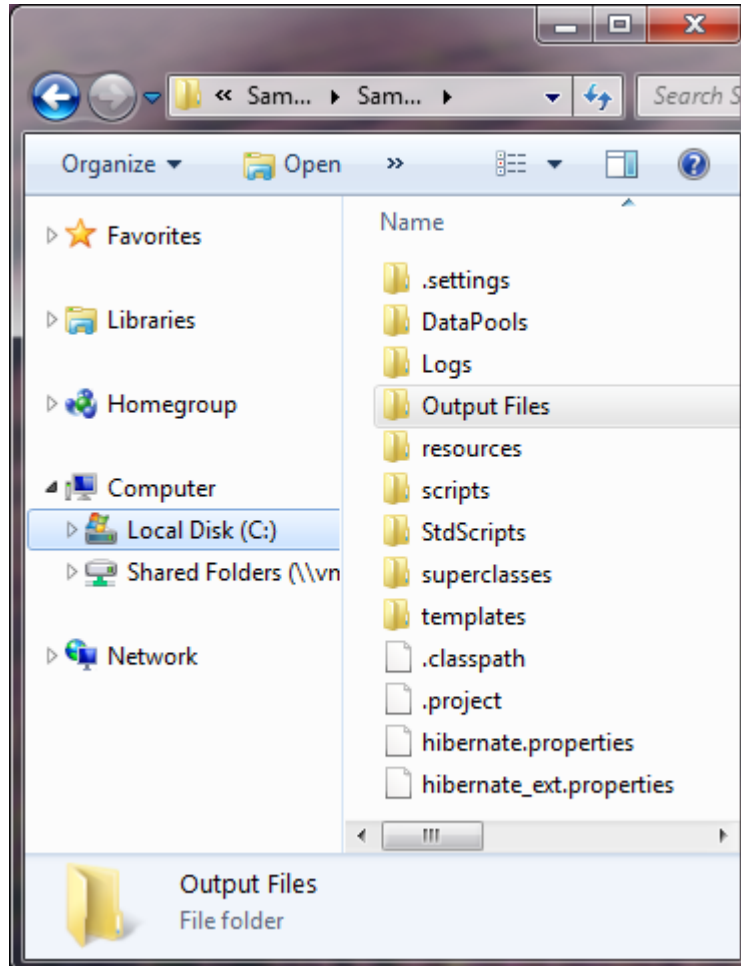
6.1. Configure the TAF Pro connection to the Remote repository

1. Start the Remote Repository Process, Start → All Program → TestPro Automation Framework → Remote
2. Choose the Installer Language and Click **OK**
3. The TAF Pro start screen will display, followed by the Installation wizard Welcome screen
4. Follow the setup wizard clicking **Next**
5. A Browse For Folder Window appears for the Remote RFT Repository
6. Navigate to your Remote Project and select it's top level folder and click **OK**
7. The Remote repository setup is complete dialogue appears



8. Click **OK**
9. Click **Finish** at the Completing the TestPro Automation Framework Setup Wizard screen

10. Configuration of the Remote Repository is now complete.
11. The TAF Project directory should be unchanged
12. The RFT project directory in TAF should now contain additional data.



6.2. Upgrade the RFT project to include the TAF Pro setup

1. Start RFT
2. Click **File** → **Connect to a Functional Test Project**
3. Navigate to the copy of Functional Tester project in the TAF Projects folder
4. Click **Finish**, the RFT project will be loaded into the workspace.

6.2.1. Add TAF Pro jars to the build path

NB: If you are upgrading your installation you should ensure you follow the upgrade instructions supplied which differ from these instructions

1. In RFT right click on project name → Select **Properties** → Select **Libraries** tab

2. Click **Add Library** to create a user library for TAF Pro jars
3. Select **User Library**
4. Select **New**, enter the User Library name as **TAF Pro** and click OK
5. Add external jars from the TAF Pro installation directory lib folder to the TAF Pro user library, click OK.
6. Reset the Java Path by right clicking on the RFT project folder name, if necessary
7. Do a Clean and build from the Project menu in RFT
8. Check that no new problems have been added to your project.

6.2.2. Install the TAF Pro ScriptSuperClass

1. To change the Script Helper SuperClass right click [project name] → **Properties**
2. Select **Functional Test Project** from left pane of the new window
3. Click on the Script Helper Super class **Browse** button
4. Find “ScriptSuperClass” by entering the keyword in the Select default helper superclass for new scripts prompt.
5. Select “ScriptSuperClass” to highlight the Superclass option that appears
6. Click **OK** on the screen
7. Click **Apply** on the Properties for {project} Window.
8. Perform a Clean and Build from the Project menu.
9. Check that no new problems have been added to your project

6.2.3. Update Pre-existing Scripts

Pre-existing scripts need to have their superclass altered manually. If this is not done during this process, it will show up as error(s) when the script or project is converted for use with TAF Pro.

1. To change the Script Helper SuperClass right click [script] → **Properties**
2. Select **Functional Test Script** from left pane of the new window
3. Click on the Script Helper Super class **Browse** button
4. Find “ScriptSuperClass” by entering the keyword in the Select default helper superclass for new scripts prompt.
5. Select “ScriptSuperClass” to highlight the Superclass option that appears
6. Click **OK** on the screen
7. Click **Apply** on the Properties for {script} window.
8. Perform a Clean and Build from the Project menu.

6.2.4. Best Practice

Create a separate folder directly under the Project for TAF enabled scripts. Place converted scripts back into this folder as part of the conversion process.

1. Create a folder for scripts converted to work with TAF under the project name.

7. Configure TAF Pro for Rational Quality Manager

Two files, **TAFRQMAadapterClient.zip** and **TAFRQMUpdateSite.zip** will be supplied with the installation media. There are 3 parts to setting up TAF Pro integration with Rational Quality Manager.

7.1. Set up Rational Quality Manager Connector User

- Go to Rational Quality Manager to set up the Rational Quality Manager Connector User.
- The Quality Manager Administrator should create a User ID for the Rational Quality Manager User and assign a Connector Client Access Licence to that ID.
- The user type is Jazz User.
- For instructions on how to create users in Rational Quality Manager please refer Rational Quality Manager User Documentation.
- Add this user as a member to the Project Area. E.g. TAF Pro INTEGRATION.

7.2. Deploy TAF Pro Client Plug in

1. **Copy** TAFRQMUpdateSite.zip to the Rational Quality Manager server.
2. **Unzip** TAFRQMUpdateSite.zip to a location in Rational Quality Manager server. This location has to be out of the Rational Quality Manager installation path. For instance, unzip it to C:\Users\Public\TestPro in a Windows 2008 server.
3. Folder C:\Users\Public\TestPro\Update\au.com.testpro.taf.adapter.site and file com.testpro.taf.adapter.web.profile.ini will be created after the unzip function is complete.
4. **Right click** on the com.testpro.taf.adapter.web.profile.ini and open with Word Pad.
5. **Update** the URL = line to reflect the location of your update site. E.g.
url=file:C:\\Users\\Public\\TestPro\\Update\\au.com.testpro.taf.adapter.site
6. **Save and close** the file com.testpro.taf.adapter.web.profile.ini
7. **Copy** com.testpro.taf.adapter.web.profile.ini from C:\Users\Public\Testpro to Jazz_Server_Install_Path\server\conf\qm\provision_profiles
8. **Refresh** the Eclipse plug-in configuration through Quality Manager Web UI.
<https://<server>:9443/qm/admin?internal#action=com.ibm.team.repository.admin.serverReset>
9. **Restart** Jazz Server to pick up the plug-in.

7.3. Set up TAF Pro Client

1. **Unzip** TAFRQMAadapterClient.zip. Use a location on your local PC. E.g. C:\...\All Users\TestPro. To keep the adapter installation files together you can add a directory here called TAFRQMAadapterClient. Unzip to this location. This path may change depending on the

operating system used. This may be C:\Users\Public\TestPro for Win7 or C:\Documents and Settings\All Users\TestPro for XP

2. Go to DOS prompt and navigate to the path where your TAF Pro RQM Adapter is unzipped to, e.g. C:\Users\Public\TestPro\TAFRQMadapterClient
3. Run the Start.bat located here.
 - 3.1. The User will be prompted for the following information:
 - 3.1.1. username as created in Section 7.1 Step 2 above
 - 3.1.2. password as created in Section 7.1 Step 2 above
 - 3.1.3. The Rational Quality Manager Repository URL. e.g. <https://vhost1234.dc1.sg.ap.compote.ahost.com:9443/gm> this information may need to be requested from your Rational Quality Manager Administrator.
 - 3.1.4. Project Area. E.g. "TAF Pro INTEGRATION (Quality Management)". This information may need to be requested from your Rational Quality Manager Administrator.
 - 3.2. If the connection details entered in step a above is correct, the adapter will connect to the RQM Server and config.ini will be created to hold these details. When running start.bat with the present config.ini, the adapter will be using the connection details in this file to connect to RQM server. User can modify the connection details either by editing the config.ini file or removing config.ini then run start.bat to enter the details from prompting.
 - 3.3. If the connection details are incorrect, the adapter cannot connect to the RQM server. An error will be prompted in the DOS prompt session. Config.ini will not be created.

8. User Administration

User Administration is performed in the Environments Window by the Administrator. This functionality is only available in the Full licensed version of TAF Pro.

8.1. The Super Administrator

The Super Administrator (default super_admin) performs administrative functions including setting up email, users and environments.

Select User → Administration, when logging in as an Administrator to access the TAF Pro administration functions.

8.2. Add User to TAF Pro

1. Right Click on the Local environment and select NewUser
2. The Create Framework UserId dialog is displayed.
3. Select the Users Group from the drop down box. New Users are usually added to the Tester group.
4. Enter the username (6- 15 chars)
5. Enter and confirm the password (6- 15 chars)
6. Click Create
7. The User is added to the Local Environment

8.3. Disable User in all environments

1. Expand the Local Environment and select a User
2. Right Click and select Disable User
3. Confirm that you wish to disable the user
4. The user will not be able to login to TAF Pro

8.4. Enable User in TAF Pro

1. Expand the Local Environment and select a User
2. Right Click and select Enable User
3. The user will be able to login to TAF Pro

8.5. Reset Password for all Environments

All Users are listed in the **Local** environment and this change applies to all environments, however this process will work in any environment where the user is listed.

1. Expand any Environment and select a User
2. Right Click and select Reset User Password

3. Enter and confirm the new password
4. Click OK to save.

8.6. Add User to Environment

1. Right Click on the environment name
2. Select Add user
3. Select user(s) from the list of users.
4. Users are added to the environment.

8.7. Remove User from environment

1. Right Click on the user name in the environment
2. Select Remove User from this environment
3. A **Confirm Remove** popup advising that all the users test artifacts will be removed appears.
4. Click Yes to remove the user.

8.8. Disable User in the environment

1. Right Click on the user name in the environment
2. Select Disable User in this environment
3. The users name will be italicized
4. The user will no longer be able to login to the environment

8.9. Enable User in the environment

1. Right Click on the user name in the environment
2. Select Enable User in this environment
3. The user will be able to login to the environment and have access to all previous artefacts.

9. Setup SMTP Service

This setup configures an email service so that users of TAF can send email using a specified email address. It needs to be setup only once for a TAF database instance.

Select **User** → **Administration** → **SMTP Service setup**

1. Provide relevant information for the following fields:
Server: this is the SMTP Server (ask your network administrator for this information)
Port: SMTP port number
Address: any authentic email account which is setup in the SMTP Server
Password: the password for above email address
2. **Apply** to save the change
3. Click **Defaults** to clear the settings.

10. Environment Management

Environment Management is performed in the Environments Window by the Administrator.

Select User → Administration → Environments Setup to open the Environments window.

10.1. Create a new environment

1. Right Click on the Environments node
2. Select **New environment**.
3. Enter a **Name** for the new environment, e.g. UAT.
4. Enter a **Description** for the new environment and then click on the **OK** button.
5. Repeat steps 1-4 for all new environments
6. When all new environments have been added click **Cancel** to exit Add Mode.

10.2. Update Environment

To update the environment Name or Description right click on the Environment Name in the Environments window and select Update Environment. Click OK when the change is complete.

10.3. Email Setup

1. Right Click on the Environment Name
2. Select Email Setup
3. Enter default email addresses and the default Sender Full Name for this environment.

These values are used throughout the environment unless overwritten in a user environment or when the user is executing a task requiring an email address.

11. Uninstall TAF Pro Suite

When the uninstall option is chosen, the process will remove the TestPro Automation Framework application. It will not remove the complete directory structures if Functional Tester scripts reside under this TAF Pro directory.

To remove the TAF Pro application:

- From the desktop, Click **Start** → **TestPro Automation Framework** → **Uninstall TestPro Automation Framework**
- Select the Installer Language then click **OK**
- Click the **Next** button
- Select **Uninstall** at the TestPro Automation Framework Uninstall window.
- A new window will display with uninstall complete.
- Select **Close** and restart the machine to complete the uninstall

12. Appendix A – Solutions to Common Problems

Troubleshooting

ERROR: Server Configuration Wizard issues Error 1045 during MySQL Apply security settings step.

SOLUTION:

Start the MySQL command line client. Simply press ENTER when asked for a password.

Change the password by running the following line.

```
SET PASSWORD FOR 'root'@'localhost' = PASSWORD ('root');
```

ERROR: I do not see TAF Pros five windows.

SOLUTION:

At TestPro Automation Framework choose **Window>Show all**