



The Testing Professionals



## Installation & Configuration Guide

**Version 5.2**

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# 1. Introduction

## 1.1 About TAFPro Framework

TAFPro 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 TAFPro are:

- Execution of tests built with Test Automation Tools such as IBM Rational Functional Tester, Selenium or other Java based scripting languages;
- Easing data handling challenges for data elements used during testing;
- The linking of tests to form scenarios and suites of associated tests.

TAFPro 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 TAFPro 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 TAFPro software to integrate with the test management toolset, the databases and the email servers being used in their implementation.

## 1.3 Other TAFPro Documentation

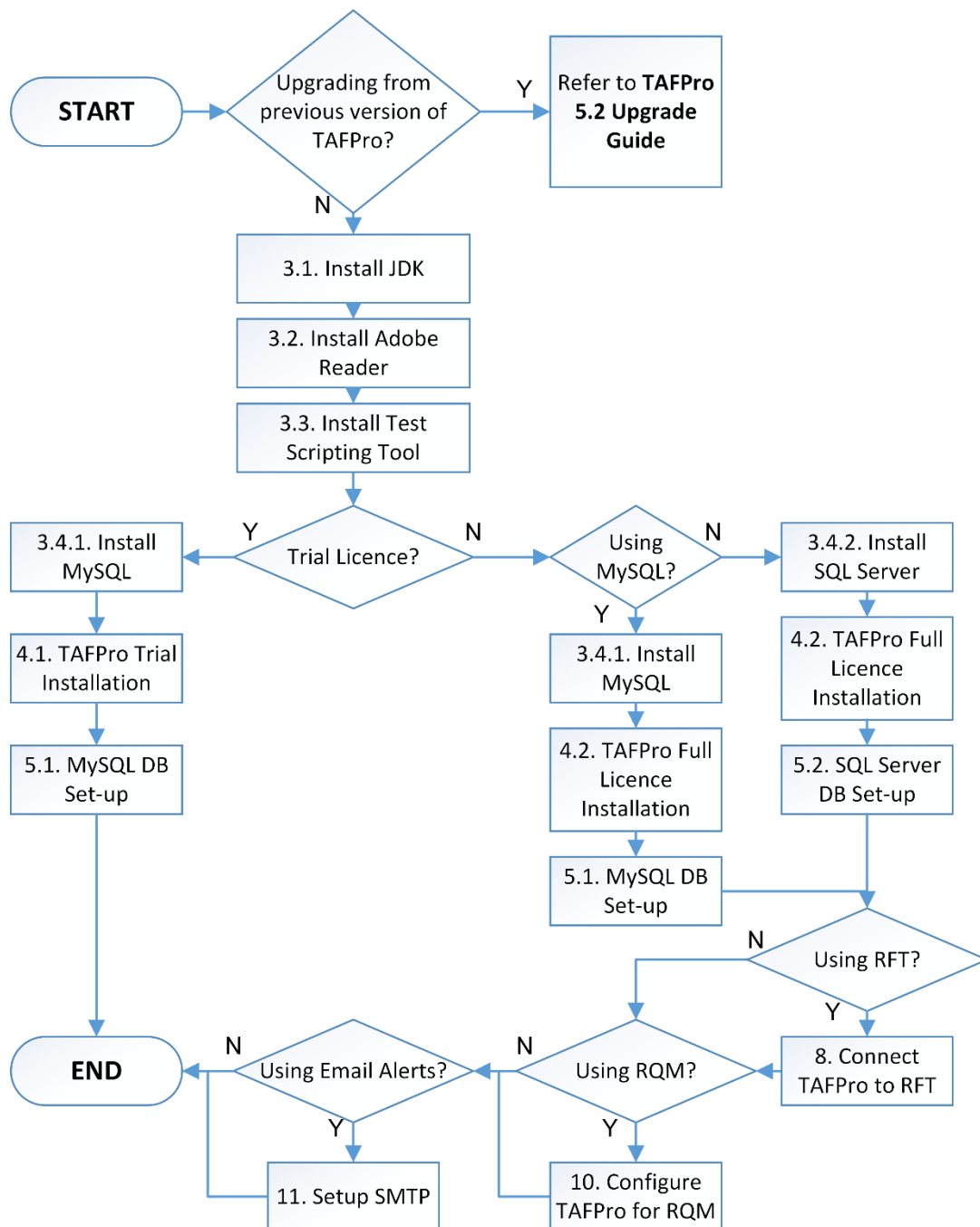
The **TAFPro User Guide** contains information for Test Analysts who will set up and use TAFPro to execute their testing.

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

All the TAFPro documentation is included in the TAFPro distribution package and the Help section of TAFPro once the product is installed.

## 1.4 How to use this Manual

This manual provides information and instructions for multiple configurations of the TAFPro framework, making use of a range of Databases, Test Tools and TAFPro Licence types. The flow chart below indicate which sections of this document are relevant to your particular implementation of TAFPro.



## 2 Installation Pre-requisites

### 2.1 System Requirements

#### Supported Operating Systems:

- Windows 7 – 32 and 64 bit
- Windows 8 – 64 bit
- Windows 10 – 64 bit
- Windows server 2003 – 32 and 64 bit
- Windows Server 2008 R2 – 64 bit

**RAM:** 4 GB minimum

**CPU:** 2.1GHz.

**Hard drive:** 20GB consisting of the following:

1. Latest version of Java Development Kit (JDK)
2. Adobe Reader - 38MB
3. Test Scripting Tool(s):
  - 3.1. IBM Rational Functional Tester (RFT) minimum Version 8.3 - 1.3GB OR
  - 3.2. Use Java IDEs including Eclipse, IntelliJIDEA, JDeveloper, and NetBeans to use Java based test scripting tools such as :
    - Selenium Web Driver for Java, OR
    - AutoIT
4. Database – one of:
  - 4.1. MySQL Server minimum Version 5.5.33 - 31.2 MB
    - MySQL Workbench 5.2.44 - 26.3 MB
  - 4.2. SQL Server minimum 2008 R2
5. TestPro Automation Framework Version - 25MB
6. 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 TAFPro. Suggested 20GB, but should be monitored as TAFPro is used and increased if necessary.

## 2.2 Software Requirements

The following applications must be available on the system where TAFPro is to be installed.

1. MS Excel – to build datasheets for TAFPro.
2. Java Development Kit.
  - 2.1. Required for the underlying technology on which TAFPro is built and will run Command Line Interface capabilities.
3. Test Scripting Tool: required for the underlying Scripting tool on which TAFPro tests are built.
  - IBM Rational functional Tester (refer IBM installation guide), OR
  - Java IDEs including Eclipse, IntelliJIDEA, JDeveloper, and NetBeans (refer installation guide of each corresponding IDE), to use test scripting tools such as Selenium and AutoIT.
4. Database.
  - 4.1. Required for the underlying database containing TAFPro data and Configuration settings.
    - MySQL-essentials and MySQL tools from <http://dev.MySQL.com/downloads/>  
**Note:** TAFPro Trial and Full license can connect to mySQL .
    - SQL Server from <http://www.microsoft.com>  
**Note:** Only TAFPro Full license can be connected to SQL Server database.
5. Adobe Reader from <http://get.adobe.com/reader/otherversions/> - required to view all printed matter for TAFPro, the User Manual, End User Licence Agreement, Installation Guide and Release Notes.
6. TAFPro Solution – application for managing test execution and data.

## 3 Install Required Software

### 3.1 Install Java Development Kit

Java Development Kit is required when installing TAFPro and when executing tests in TAFPro.

**Note:** 32 bit machines need 32 bit java installed. 64 bit machines need 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](http://www.oracle.com/java). The recommended version is **JDK 8 or higher**;
3. Click on the downloaded **jdk-xuux-windows-i586** (32 bit Java) and **jdk-xuux-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.

After Java installation is complete, navigate to Path System variable under (**Control Panel → System → Advanced System Settings → Environment Variables → System variables → Path**), and ensure your Java bin directory is added to “Path” system variable.

### 3.2 Install Adobe Reader

Adobe Reader is used to display the following documents:

- Various licenses of the Open Source components used within TAFPro
- TAFPro User Guide
- TAFPro Installation Guide
- RFT Scripting Guide
- Java Scripting Guide
- End User License Agreement

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

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

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 TAFPro 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.

### 3.3 Install Test Scripting Tool

TAFPro 5.2 supports execution of test scripts written with IBM Rational Functional Tester or other Java based test scripts written with either Selenium Web Driver or AutoIT. Users can also use several different Java IDEs including Eclipse, IntelliJIDEA, JDeveloper and NetBeans to develop Java based scripts for execution with TAFPro.

Depending on the selected test scripting tool, please refer to their affiliated installation documentation provided with the download. E.g refer to the IBM Installation Guide provided with IBM software in order to install Rational Functional Tester.

**Note:** To configure an IBM Rational Functional Tester project with TAFPro, please refer to **TAFPro RFT Scripting Guide**.

To configure a Java IDE project with TAFPro, please refer to **TAFPro Java Scripting Guide**. Both of these documents are provided in the download package.

### 3.4 Install TAFPro Database

TAFPro currently executes with SQL Server and MySQL databases. The Trial TAFPro software will only install and configure a MySQL database. Depending on the database to be used, go to the relevant sections 5 and 6 for database server installation and database creation. Your organisation's internal company procedures should be adhered to when creating the TAFPro Database.

This section only applies to database installations. For upgrade of existing databases refer to the **TAFPro Upgrade Guide** and bypass this section.

#### 3.4.1 Install MySQL

The TAFPro 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 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, **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 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.msi** program 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.
11. Note the username and password for MySQL Workbench. This information will be required later while creating the TAFPro MySQL database.

After MySQL and Workbench installation is complete, navigate to Path System variable under (**Control Panel → System → Advanced System Settings → Environment Variables → System variables → Path**), and ensure your MySQL server bin directory is added to “Path” system variable.

### 3.4.2 Install SQL Server

Please refer to the ***SQL Server Installation Guide*** to install SQL Server.

You can find the details of TAFPro SQL server database creation in section 5.2 of this document.

## 4 Install TAFPro Framework

### 4.1 TAFPro Trial Installation Package

1. Extract the zip file downloaded.
2. Open Windows Explorer.
3. The following files will be displayed:
  - setup.exe – the installation executable
  - TAFPro Installation Guide (this document)
  - TAFPro RFT Project Setup Guide
  - TAFPro Java Scripter Guide
  - TAFPro User Guide
  - TAFPro Upgrade Guide v5.2.0
  - Release Notes
  - Readme file

Where an earlier version of TAFPro is installed on a PC, refer to the ***TAFPro Upgrade Guide*** for TAFPro v5.2.0 to update the existing database and application.

#### 4.1.1 Install from setup file

1. Double-click the **setup.exe** program file in your TAFPro Installation package to start the TAFPro Setup.
2. The TAFPro splash screen will display, followed by the Installation Welcome screen.
3. Follow the setup wizard by clicking **Next** prompt to display Licence Agreement.
4. Read Licence Terms and click **I Agree** to accept the terms of the licence agreement.
5. On Install Location screen, select a **Destination folder** in which to install TAFPro.
  - 5.1. The default path is C:\Program Files directory, but can be changed to another location.
6. Click the **Next** button.
7. Choose Additional Locations screen will display showing the default paths for the TAFPro project (DataStore) and log directories.
  - 7.1. The default is C:\Users\Public\TestPro\TestPro Automation Framework, however this can be changed depending on which TAFPro environment type is being installed. Please review table below for further details.
  - 7.2. DataStore Path holds all the TAFPro enabled files which enable RFT or other Java IDE projects to work with TAFPro. The following table shows the DataStore path for RFT and different Java IDEs. The installation can proceed with the default paths initially and this can be changed later, when the user is logging in to TAFPro for the first time.

	TAFPro Environment Data Store path
RFT	<\Project>
Eclipse	<\Project>\bin
IntelliJ IDEA	<\Project>\out\production
JDeveloper	<\Project>\classes
NetBeans	<\Project>\build\classes

**Table 1 - TAFPro DataStore Path Setup**

- 7.3. Log Path holds all the TAF logs when running TAFPro.
8. Once the paths are set, click the **Next** button.
9. Click **Install** on the Start Menu Folder window. Wait while TAFPro completes installation.
10. TAFPro Trial Setup Wizard will create the “tafdb” database as part of the installation. In order to complete the creation of the “tafdb” database, when prompted with the following screen, enter the MySQL password that was created in Step 11 of Section 3.4.1 of this document to setup MySQL Server Workbench.

Note: TAFPro Trial will only connect to a MySQL database.

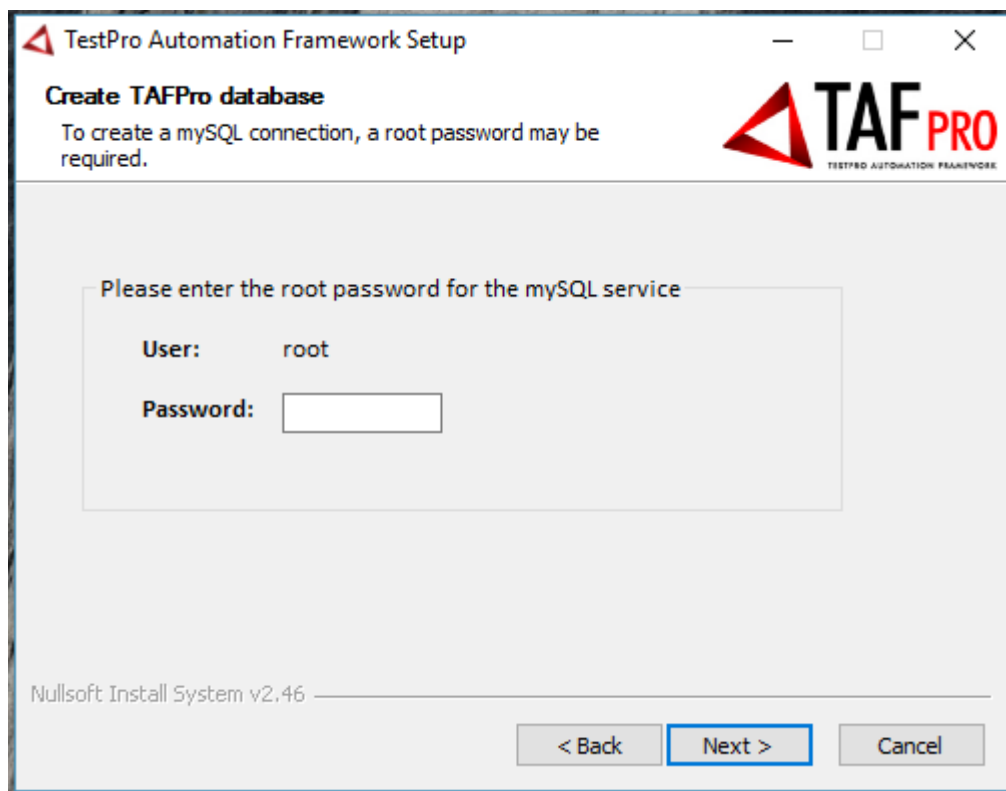


Figure 1 - TAFPro Trial DB connection setup

11. Click on **Next** button once password has been entered.
12. Upon successful database connection, the following window will be displayed.

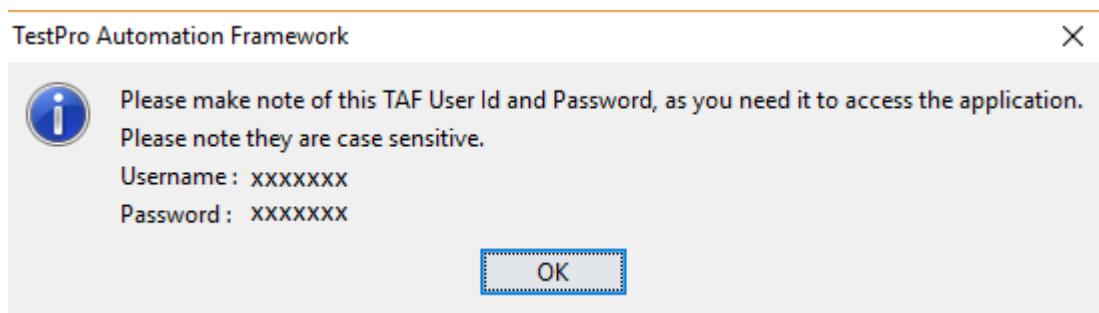


Figure 2 - TAFPro Trial user details

13. Make a note of the Username and Password. These credentials are needed to access TAFPro application.
14. Click on **OK** button. Then, click on **OK** button in the following pop-up.

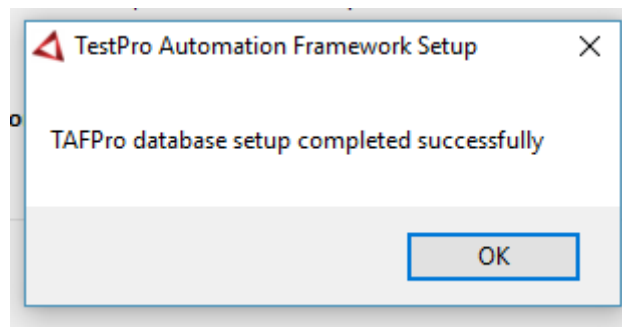


Figure 3 - Database setup completed successfully

15. On the *TAFPRO Installation Complete* screen, , tick the check box if you have an existing RFT project ready to use with TAFPro, then click on **Next** button.  
If you have an existing Java project that you wish to configure for use with TAFPro, click on **Next** button without ticking the check box to complete the installation. Once installation has been completed, review the **Java Scripting Guide** for detailed steps on configuring your existing Java project.
16. If existing RFT project check box is selected, then you will be prompted to connect to your RFT project. Once prompted with the following screen, navigate to your RFT project root node, then click on **OK**.

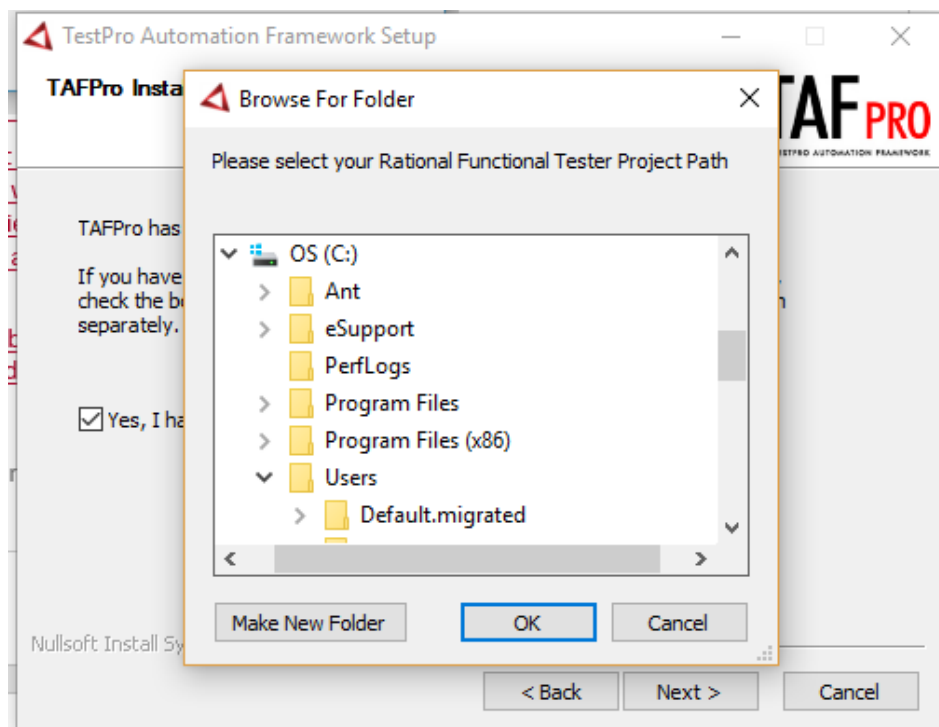


Figure 4 - RFT Project Setup

17. Click on **OK** on the following window to finish TAFPro RFT project setup.

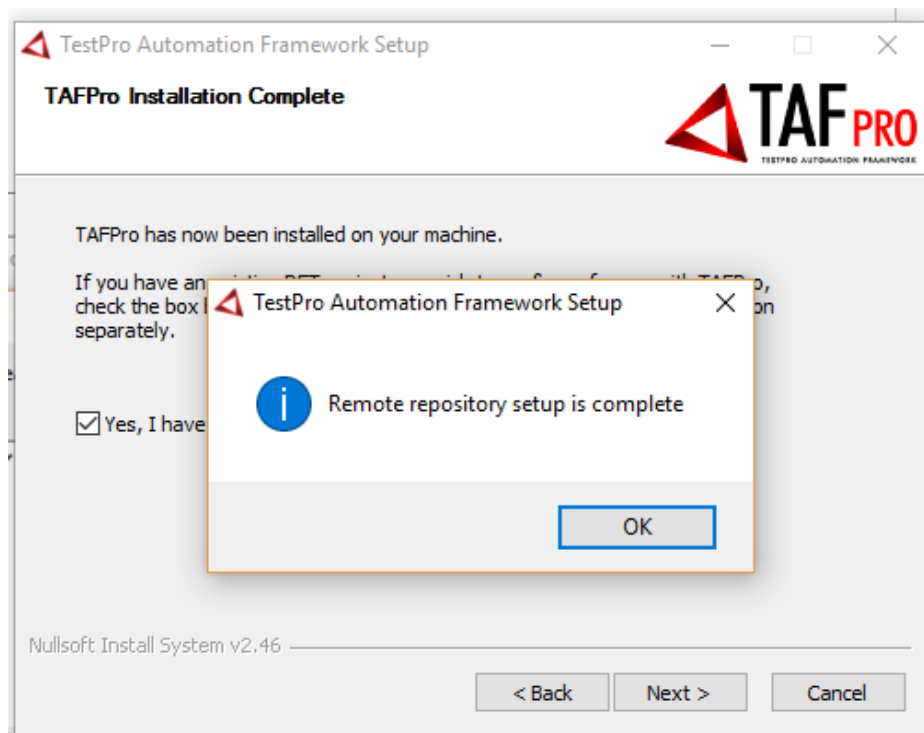


Figure 5 - RFT Remote Project completed

18. If RFT project check box is NOT selected, then you will navigate to Generate License screen.
19. On Generate License screen, click on **Generate** button to generate your machine ID.

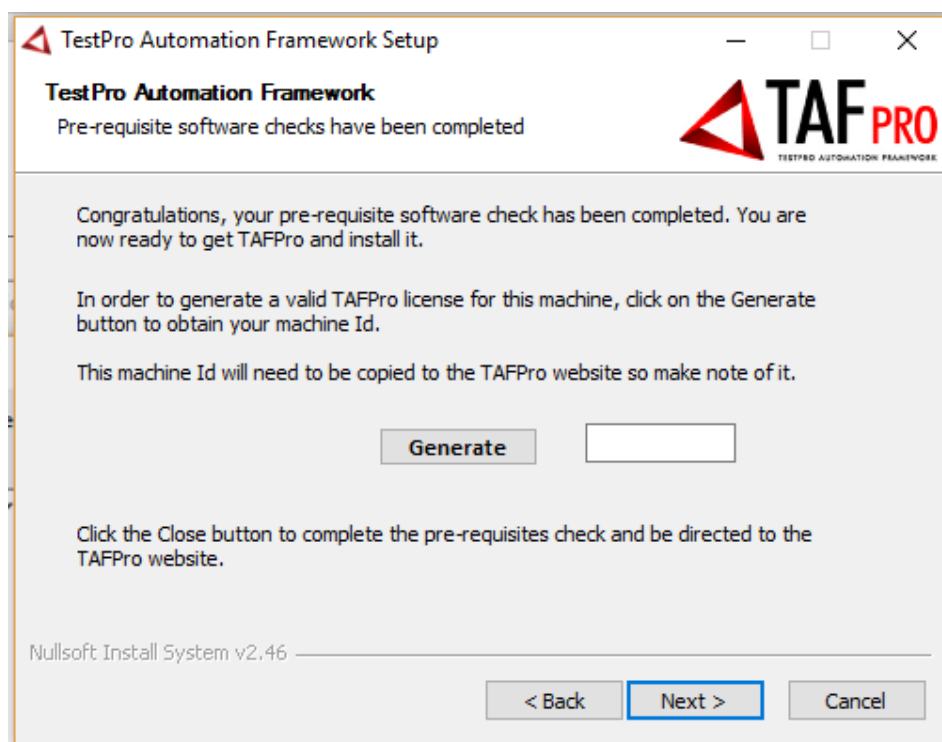


Figure 6 - Generate Machine ID

20. Copy the machine ID and click on **Finish** button to navigate to TAFPro website to generate your 30 days Trial License using the machine ID.
21. Click **Finish** at the Completing TestPro Automation Framework Setup Wizard window.
22. TAFPro Trial installation is now complete. Upon successful TAFPro installation, TestPro Automation Framework will appear in your Start Menu and a shortcut will be created on your desktop.

## 4.2 TAFPro Full License Installation Package

1. Extract the zip file downloaded.
2. Open Windows Explorer.
3. The following files will be displayed:
  - setup.exe – the installation executable
  - Create\_MySql\_tafdb52.zip
  - Create\_SqlServer\_tafdb52.zip
  - TAFPro Installation Guide (this document)
  - TAFPro RFT Project Setup Guide
  - TAFPro Java Scripiter Guide
  - TAFPro User Guide
  - TAFPro Upgrade Guide v5.2.0
  - Release Notes
  - Readme file

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

### 4.2.1 Install from setup file

1. TAFPro Full license installation is similar to TAFPro Trial installation. To install TAFPro Full license follow steps 1-9 in section 5.1.1 of this document.
2. TAFPro Full license can be connected to a MySQL database or a SQLServer database. Once MySQL server or SQL server is installed, follow the steps in section 5.1 and 5.2 to create TAFPro databases for TAFPro full license.
3. Once the TAFPro database is created, you need to enter the TAFPro database connection parameters in the following window:

**TestPro Automation Framework Setup**

**Database Type Parameters**  
Select the database type, then enter the connection values.

Type:  
☒ MySQL  
☐ SQL Server

User:  
 Login:   
 Password:

Connection Parameters:  
 Server:  Instance:  Port:   
 Schema:  Database:

Nullsoft Install System v2.46

< Back **Next >** Cancel

**Figure 7 - TAFPro Full Version DB Connection Setup**

4. Click on **Next**.
5. If the Schema field is left blank, an information dialogue will appear informing you that the Schema will be set to the database name.
6. Click **OK**.
7. A screen with Driver and Dialect dropdowns will be displayed.
8. 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

**Table 2 - TAFPro DB Driver Options**

9. Click **Continue**.
10. A Popup will be displayed to create **super\_admin** user.

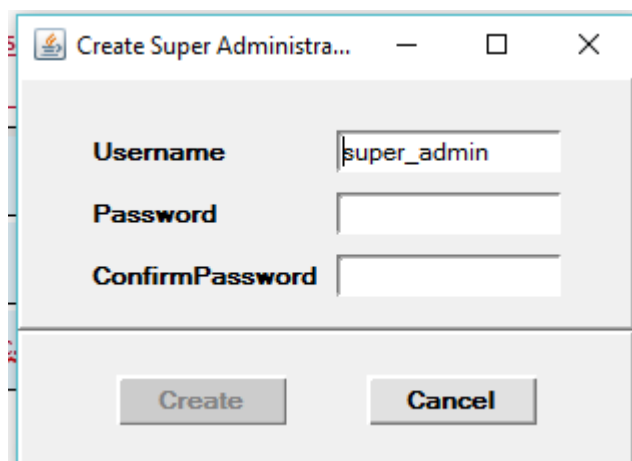


Figure 8 - super\_admin user setup

11. Create the Administration User in TAFPro to enable the initial login and creation of other users and environments in TAFPro.
  - Enter a user name (the default is **super\_admin**).
  - Enter a password for the super\_admin user (The password must be at least 6 characters long).
  - Confirm entered password.
  - Click **Create** to create the super\_admin user.
12. Click **OK** to confirm creation.

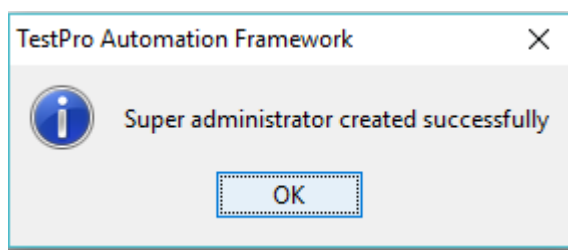


Figure 9 - super\_admin created successfully

13. Click **Next** to continue.
14. Similar to TAFPro Trial installation, if you have an existing RFT project; tick the check box to configure your RFT project with TAFPro. If you have an existing Java Project or your RFT project is not ready, click on **Next** to continue with TAFPro installation.
15. On Generate License screen, click on **Generate** button to generate your machine ID.
16. Copy the machine ID and click on **Finish** button to navigate to TAFPro website to generate your 1 year TAFPro full License.
17. By generating the machine ID, the TAFPro Full License installation is completed. Upon successful TAFPro installation, TestPro Automation Framework will appear in your Start Menu and a TAFPro shortcut will be created on your desktop.

18. Click **Finish** to complete the installation.

## 5 Create Database for TAFPro Full Licensed Version

### 5.1 MySQL Database Setup for TAFPro Full License

TAFPro MySQL DDL is located in the TAFPro installation zip file.

To create TAFPro database, please follow the instructions below carefully:

1. Start MySQL 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 TAFPro 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\_52\_create\_MySql** SQL file in TAFPro installation Zip folder.  
*Could this be written as – Navigate to the TAFPro installation Zip folder and click on the **tafdb\_52\_create\_MySql** file.?*
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 TAFPro:

- Database name.
- Schema Name (will be same as database name for MySQL).
- Port.
- Instance (Not Required for MySQL).
- TAFPro Database user name and password - the username should have **Select, Insert, Update** and **Delete** access to the TAFPro Database.

## 5.2 Create SQL Server Database for TAFPro Full License

Note: SQL Server Database is only available for TAFPro Full License.

TAFPro 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 Zip folder. These SQL scripts need to be applied in the following order:

1. **tafdbdb.sql** – to define the TAFPro database.
2. **tafdb\_tables\_52.sql** – to define the database username, tables, indexes and foreign keys.
3. **tafdb\_authorities\_52.sql** – to grant authorities on the tables to the database username.
4. **tafdb\_inserts\_52.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 TAFPro:
  - Database name.
  - Schema Name.
  - Port.
  - Instance.
  - TAFPro Database user name and password - the username should have **Select, Insert, Update** and **Delete** access to the TAFPro Database.

## 6 Configure TAFPro Database Connection

This section only applies to users installing the Full licensed version of TAFPro. The Trial version sets up a MySQL database by default as part of the installation.

Where possible, the user should allow the TAFPro 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 or the database was changed, please follow the steps below carefully to configure the database.

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

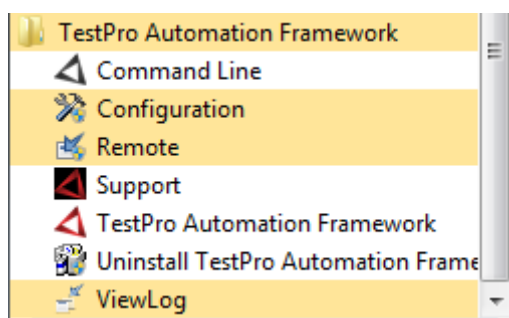


Figure 10 - Start → All Program → Testpro Automation Framework menu

3. Click **Configuration**. A process similar to the installation will commence.
4. Select the Installer Language then click **OK**.
5. The TAFPro 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 TAFPro Database. The following entries should be made:
  - **Type:** Select the database type from the drop-down selection list.
  - **User:** Enter the Database Login and Password that will be used to connect to the Database.
  - **Connection Parameters:** Enter the details to establish a connection to the TAFPro Database.
  - **Server:** the name of the server on which the database resides; defaults to "localhost" for installations on the local PC.
  - **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.
  - **Port:** the port number of the database (default ports are: MySQL 3306, SQL Server 1433). Please enter the port number advised by your DBA.

- **Schema:** For MySQL the schema name should be left blank as it defaults to the database name. For SQL Server, the TAFPro database user name is the default. Any other value will be provided by the DBA.
  - **Database:** Defaults to **tafdb** for all database types. Any other value will be provided by the DBA.
- Click **Next**. If the Schema field is left blank, an information dialogue will appear informing you that the Schema will be set to the database name.
  - Click **OK**.
  - A screen with Driver and Dialect dropdowns will be displayed.
  - 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

Table 3 - TAFPro DB Driver Options

- Click **Continue**.
- A Popup will be displayed to create **super\_admin** user.
- Create the Administration User in TAFPro to enable the initial login and creation of other users and environments in TAFPro.
- Accept the user name as **super\_admin**.
- Enter a password for the **super\_admin** user (the password must be at least 6 characters long).
- Re-confirm entered password.
- Click **Create** to create the super\_admin user.
- Click **OK** to confirm creation.
- Click **Next** to continue.
- Click **Finish** to complete the installation.

## 7 Setup TAFPro for first-time login

After successful TAFPro installation, please follow the steps below for initial TAFPro login.

1. From the desktop, right click on TestPro Automation Framework, and select 'Run as administrator'.
2. When prompted by Select TAFPro License File window, navigate to directory where you have saved the TAFPro license and click on **Open**. The TAFPro license was generated as part of the Installation process from the TAFPro website <https://www.testingautomationframework.com/> and would have been emailed to your registered email address.

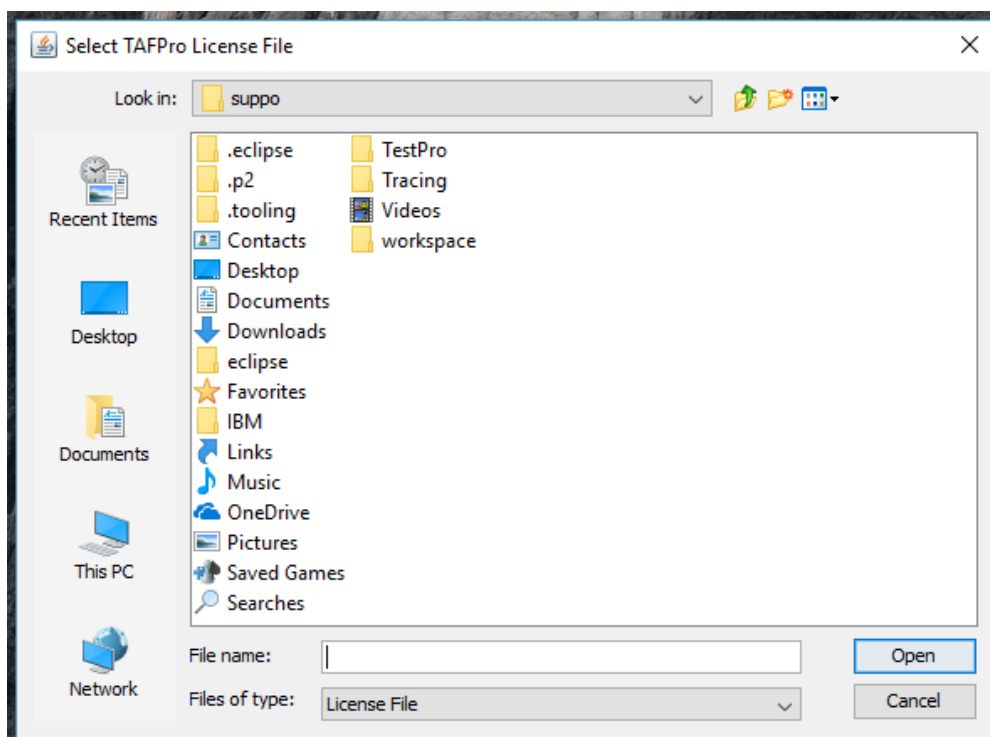


Figure 11 - TAFPro license lookup

3. Enter the super\_admin username and password created previously.
  - 3.1. For TAFPro Trial: Enter the user credentials that were displayed after successful database creation (step 13 of section 4.1.1 above).
  - 3.2. For TAFPro Full: Enter super\_admin username and your preferred password that was setup after successful database creation.
4. Select the Environment (the super\_admin user only uses the Default Environment).
  - 4.1. TAFPro can be configured to execute an RFT project or Java projects created in other popular Java IDEs. To manage the different project types, TAFPro environments are divided into RFT Environment and Java Environment.
  - 4.2. TAFPro Trial has only two environments: Local\_RFT for RFT projects and Local\_JAVA for Java

projects.

- 4.3. TAFPro Full version allows users to create any number of RFT or Java environments. Select Default environment when signing-in for the first time as super\_admin user.
5. Click on **Details** button to set the **Paths** for TAFPro.
  - 5.1. **DATASTORE:** This is where TAFPro finds the TAFPro Project. Depending on the scripting tool, this path should be directed to the specific project directory where the scripts are located. For TAFPro 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]\TAFPro Enabled Projects\projectname.
  - 5.2. **OUTPUTPATH:** This is the default location that will be accessed to find or create files when the export or import options for data groups is used in TAFPro.. 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]\TAFPro Enabled Projects\projectname\Output Files\[Username].
  - 5.3. **LOG PATH:** All TAFPro 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 TAFPro User E.g. C:\Users\Public\TestPro\TestPro Automation Framework\Logs or \\[shared drive]\TAFPro Enabled Projects\projectname\Logs\[Username].
  - 5.4. **TEST PROGRAM:**
    - RFT Usage: This is where Rational Functional Tester is installed and where eclipse.exe is located. E.g. C:\Program Files\IBM\SDP\eclipse.exe.
    - Java Usage: This is not used for Java projects, therefore it can be left blank or set to C:\.
6. After successful login, TAFPro Main Window will display as follows:

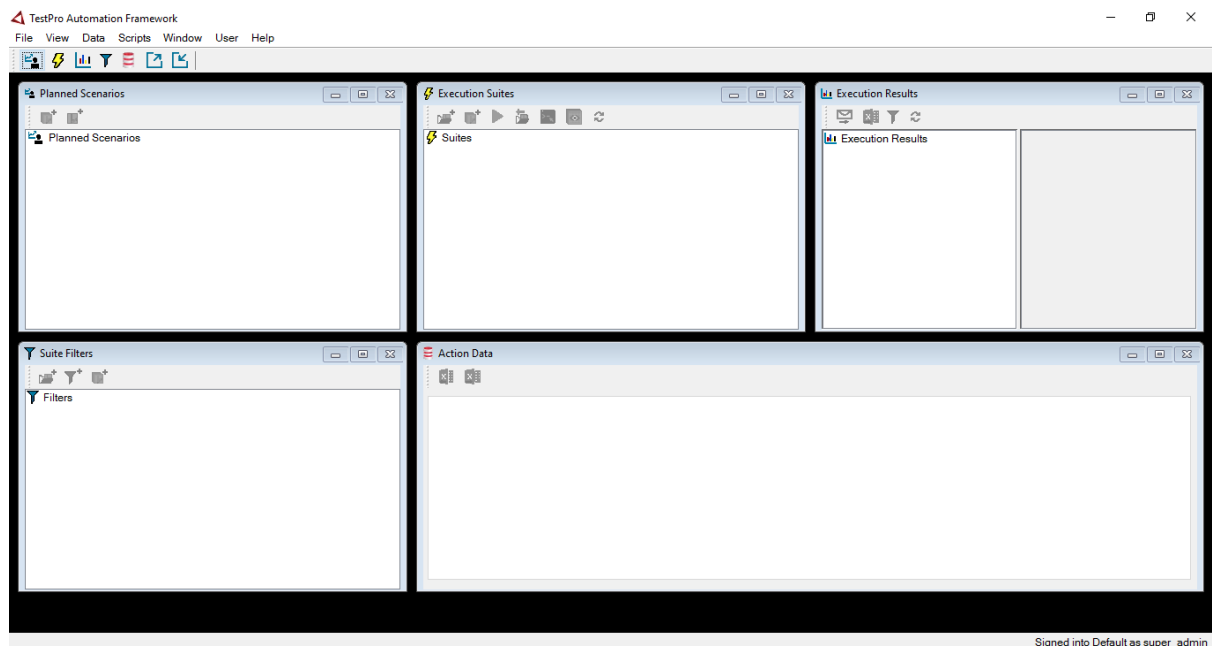


Figure 12 - TAFPro Main Window

## 7. Set the **Java Path**.

7.1. Go to **User → Preferences**.

7.2. Select **Java** from the Menu Tree.

7.3. Set **Java Program**.

7.3.1. If using Rational Functional Tester, the **Java Program** will need to be set to the JRE in the Rational Functional Tester Installation Path. E.g. C:\Program Files\IBM\SDP\jdk\jre\BIN\JAVA.exe

7.3.2. If using Selenium or other third-party Java libraries, the **Java Program** will need to be set to the version of JRE or JDK installed on the machine.

## 8. Set the **Build Path**.

8.1. This section only needs to be setup if third-party libraries such as Selenium libraries are used.

8.2. Go to **User → Preferences**.

8.3. Select **Build Path** from the Menu Tree

8.4. Right click on **User Libraries** pane and select **New**.

8.5. Navigate to where the third-party libraries such as Selenium libraries are located and add them here.

## 8 Connect TAFPro to a Rational Functional Tester Project

When using Rational Functional Tester (RFT) for the first time, the user will need to setup and configure TAFPro to see the RFT project and access the scripts within it. If the user has an existing RFT project during TAFPro installation, then select “yes, I have an existing RFT project” option and 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 TAFPro because TAFPro 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 TAFPro to existing RFT project repository.

Copy the RFT project to the TAFPro Project directory. Your TAFPro Project directory should be similar to this:

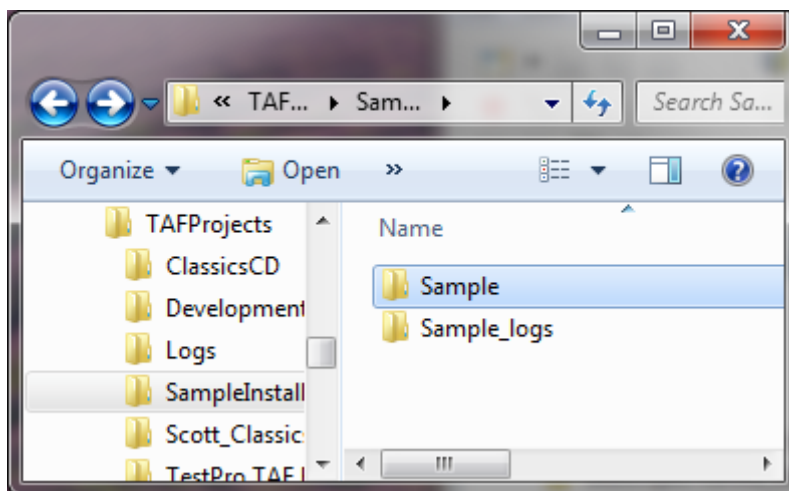


Figure 13 - e.g. of TAFPro project directory

Within the TAFPro Project the RFT project directory should be similar to this:

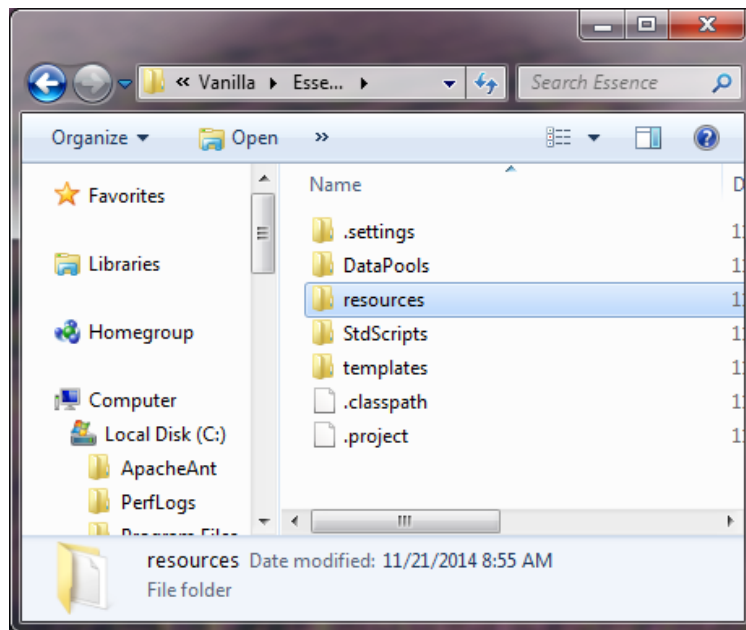


Figure 14 - TAFPro RFT project directory

## 8.1 Configure the TAFPro connection to Remote Repository

Follow the steps below if you have not completed RFT Remote configuration as part of TAFPro installation setup wizard.

1. Start the Remote Repository Process, Start → All Program → TestPro Automation Framework → RFT Project Setup
2. Choose the Installer Language and Click **OK**
3. The TAFPro 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 its 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.

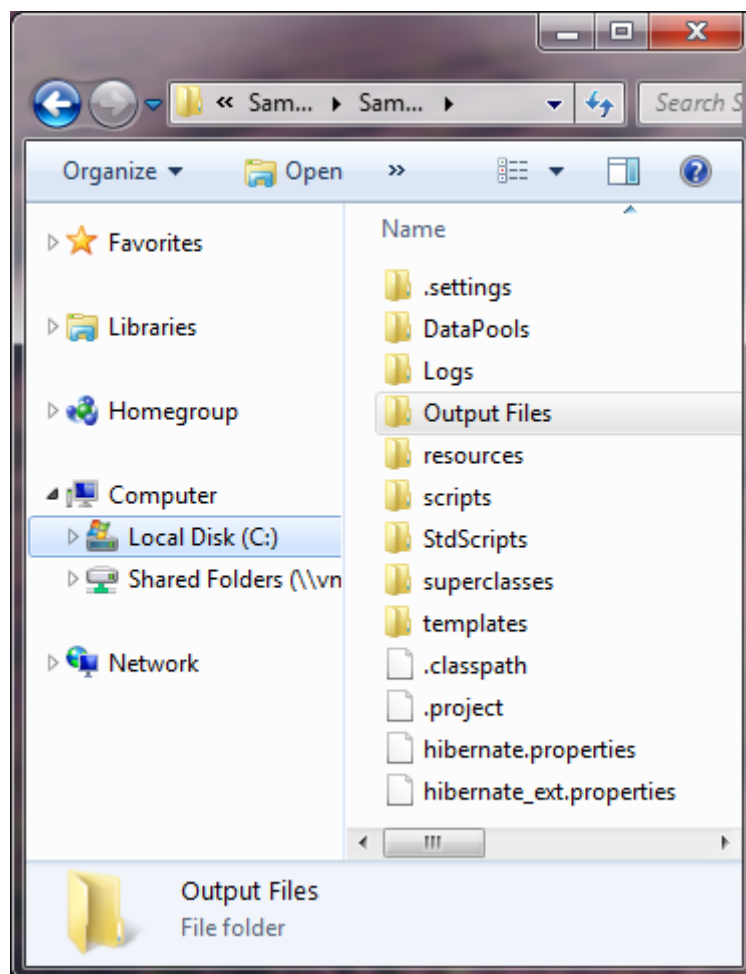


Figure 15 - RFT project directory after RFT remote

13. Upgrade the RFT project to include the TAFPro setup Start RFT
14. Click **File → Connect to a Functional Test Project**
15. Navigate to the copy of Functional Tester project in the TAFPro projects folder. Click **Finish** to load the RFT project into the workspace.

## 8.2 Add TAFPro 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 **Java Build Path** → Select **Libraries** tab
2. Click **Add Library** to create a user library for TAFPro jars
3. Select **User Library** then **Next**.

4. In the Add Library window click **User Libraries**
5. Select **New**, enter the User Library name as **TAFPro** and click **OK**
6. Add external jars from the TAFPro installation directory lib folder to the TAFPro user library, click **OK**, then **Finish**, then **OK** to close the properties window.  
(%installation\_Directory%\TestPro\TestPro Automation Framework\lib)
7. Reset the Java Path by right clicking on the RFT project folder name and selecting **Reset Java Build Path** if necessary
8. Do a Clean and build from the Project menu in RFT
9. Check that no new problems have been added to your project.

### 8.3 Install the TAFPro 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

### 8.4 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 TAFPro.

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.

## 8.5 Best Practice

1. Create a separate folder directly under the Project for TAFPro enabled scripts. Place converted scripts back into this folder as part of the conversion process
2. Create a folder for scripts converted to work with TAFPro under the project name.

## 9 Connect TAFPro to a Java Project

Please refer to ***TAFPro Java Scripting Guide*** for detailed instructions on how to configure TAFPro with popular Java IDEs including Eclipse, IntelliJ IDEA, NetBeans, and JDeveloper. The ***TAFPro Java Scripting Guide*** is included in the documents folder of the TAFPro installation files.

## 10 Configure TAFPro for Rational Quality Manager

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

### 10.1 Setup 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. TAFPro INTEGRATION.

### 10.2 Deploy TAFPro 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.

### 10.3 Setup TAFPro Client

1. **Unzip** TAFRQMAdapterClient.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 TAFPro RQM Adapter is unzipped to, e.g. C:\Users\Public\TestPro\TAFRQMAadapterClient
3. Run the Start.bat located here.

3.1. The User will be prompted for the following information:

- username and password as created in Section **Error! Reference source not found.** above
- The Rational Quality Manager Repository URL. e.g. <https://vhost1234.dc1.sg.ap.compote.ahost.com:9443/qm>. This information may need to be requested from your Rational Quality Manager Administrator.
- Project Area. E.g. "TAFPro 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 3.1 above are 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 when prompted.

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.

## 11 Setup SMTP Service

TAFPro provides the user an ability to email test results for any given test execution to a specific user or group of users. This functionality is only available in the full licensed version of TAFPro.

To enable the SMTP service, a generic TAFPro test email address should be set up on your mail server. This account is only used to validate the SMTP service and send results from TAFPro. Individual email addresses for receiving TAFPro emails can later be added to tailor messages without the need to save email passwords. This service needs to be setup only once for a TAF database instance.

1. Launch TAFPro by double clicking on TAFPro on the desktop
2. Login as **super-admin** account in Default environment
3. Select **User → Administration → SMTP Service setup**
4. Provide relevant information for the following fields:  
**Server:** this is the SMTP Server for outgoing email (ask your network administrator for this information as well as the Port number below)  
**Port:** SMTP port number  
**Address:** enter the generic email address to be used to email results from TAFPro  
**Password:** the password for above email address
5. **Apply** to save the change
6. Click **Defaults** to clear the settings.

### 11.1 Email Setup at Environment Level

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.

## 12 Reset TAFPro License from Trial to Full

In the event that you want to replace a TAFPro Trial licence with a TAFPro Full licence; click **User** → **Administration** → **Reset TAFPro Licenses**.

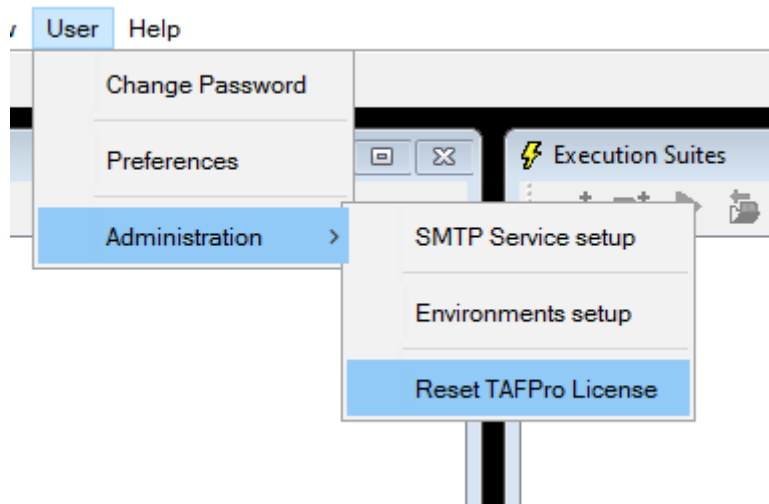


Figure 16 - Reset TAFPro License

Once the Reset TAFPro License option has been selected, TAFPro must be relaunched and run as administrator. Then, navigate to the directory location where the full license file is located and select it.

## 13 Uninstall TAFPro 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 TAFPro directory.

To remove the TAFPro 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 when the uninstall is complete.
- Select **Close** and restart the machine to complete the uninstall

On Windows 10 machines, TAFPro can be removed through the **Control Panel** → **Add or Remove Programs** option.

## 14 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 TAFPro's five windows.

SOLUTION:

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