

Telelogic Team Webtop

Installation Guide

Release 1.0

Before using this information, be sure to read the general information under Appendix A, “Notices” on page 23.

This edition applies to **VERSION 1.0, Telelogic Team Webtop** and to all subsequent releases and modifications until otherwise indicated in new editions.

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1

Introduction

This manual provides the information on installing and setting up the Telelogic® Team Webtop™.

This chapter contains the following sections:

- [About Telelogic Team Webtop](#)
- [The Webtop components](#)
- [Conventions used in this Guide](#)

About Telelogic Team Webtop

Telelogic Team Webtop is an exemplary implementation of a browser based composite application built on Telelogic Change, Tau and DOORS. Webtop provides a single point of entry and User Interface (UI) for users to access relevant application lifecycle data, regardless of where that data is held.

Webtop is staged as a state of the art reviewing tool that helps users to effectively carry out their review activities for the different stages of the application lifecycle data, residing under disparate repositories (For example, requirement data (DOORS), Design data (Tau) from within Webtop.

Webtop aims to replace the current solution, where, users in order to access application lifecycle data spanning multiple disciplines, are required to use multiple tools, with different user interfaces, integrated through a set of point to point integrations.

The Webtop components

Installing Webtop involves the installation of a number of discrete components. The components you need to install are:

- [The Telelogic Directory Server](#)
- [DOORS Database](#)
- [Change Database Server](#)
- [Tau](#)
- [The Webtop Server](#)

The Telelogic Directory Server

Webtop is configured to a Telelogic® Directory Server™ (TDS) instance, which acts like a central repository. The Telelogic Lifecycle Solution (TLS) applications that are registered with TDS are fetched and listed in the Webtop. You need TDS version 4.3 to be installed.

DOORS Database

The Telelogic DOORS® Database Server holds requirements data that is accessed from Webtop. You need DOORS version 9.1 to be installed.

Change Database Server

The Telelogic Change™ Database holds the work items that are accessed from Webtop. You need Change version 5.1 to be installed.

Tau

The Telelogic Tau® holds design data that is accessed from Webtop. You need Tau version 4.2 to be installed.

The Webtop Server

The Telelogic Team Webtop Server is an adaptation of Apache Tomcat. Tomcat is a servlet container that executes Java® servlets and renders web pages that include Java Server Page code.

Conventions used in this Guide

Typeface	Description
<i>Italic</i>	Used for book titles and terminology.
Bold	Used for items that you can select and menu paths, also used for emphasis.
<code>Courier</code>	Used for commands, file names, and directory paths. Represents command syntax to be entered verbatim. Signifies computer output that displays on-screen.

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Installing Webtop

This chapter guides you through the installation of Webtop and other depended components on Windows and Solaris platforms.

This chapter contains the following sections:

- [System requirements](#)
- [Installing the components](#)
- [Registering the Tau application](#)
- [Configuring Tau to listen to a particular port](#)
- [Installing Telelogic Team Webtop](#)
- [Starting the Webtop Server](#)
- [Accessing the Webtop Server](#)
- [Modifying the components if TDS is changed](#)

System requirements

This section contains the system requirements for Webtop.

The Webtop Server

The Webtop server is supported on following operating systems.

- Windows 2003 Server Standard Edition R2
- Windows XP
- Windows 2003 Server Enterprise Edition SP1 (32 Bit)
- Solaris 10 (64 bit)

Supported browsers

Webtop is supported on the following browsers and Windows operating systems.

- Internet Explorer 6 and above on Windows XP and Windows 2003
- Internet Explorer 7 on Windows Vista Enterprise
- Firefox 3 and above on Windows XP and Windows 2003 and Red Hat Linux 5

Java Runtime environment

You must have JRE 1.5 or later installed on your machine to run the Webtop installer.

Webtop server and disk space requirements

The installation machine hosts the Webtop server. The following table shows the minimum machine and disk space requirements.

Hardware requirements	Memory and disk space and requirements
<ul style="list-style-type: none">• Two Intel Xeon 3.066 GHz CPUs with hyperthreading• 73+146 GB Hardware RAID-1 HDD	<ul style="list-style-type: none">• 4 GB RAM• At least 500 MB free disk space

Installing the components

This section provides instructions to install and configure the components you need to run Webtop. You can install the components on different machines than where Webtop is installed.

For more information on the components, see [The Webtop components \(page 1\)](#).

To install and configure the Webtop components:

1. Check that you meet the system requirements for installing and running Webtop.
2. Shut down all other applications.
3. Install **TDS 4.3 server**. For information on installing a TDS server, refer to platform specific *TDS Installation Guide*.

Take note of the following details for use later in the procedure:

- TDS Server Host
 - Port
 - Admin username
 - Admin user password
4. Install the **Telelogic DOORS ERS 9.1 Database Server**.
 - a. Choose the machine where you want to install the DOORS server.

- b. Run the DOORS installer. For information on installing a DOORS server, refer to *DOORS Installation Guide*.
 - c. Install the DOORS server. By default, the DOORS server runs on port 36677.
- 5. Install the **Telelogic DOORS 9.1 client**, by running **TelelogicDOORS9_1ClientInstaller.msi** file.
 - a. Choose the machine where you want to install the DOORS client.
 - b. Run the DOORS client installer. For information on installing a DOORS client, refer to *DOORS Installation Guide*.
 - c. Open the DOORS ERS Client with the *Administrator* user credentials and change the DOORS authentication settings to point to the TDS 4.3 installed.
- 6. Install **Telelogic Change 5.1**.
 - a. Run the Telelogic Change installer. For information on installing the Change and Synergy applications, refer to the respective installation guides.
 - b. Open the **pt.cfg** file that is located under:

```
$ <CHANGE _HOME>\cs_app\webapps\synergy\WEB-INF\wsconfig)
```
 - c. Change the [CCM_SYSTEM] [GENERATED_LINKS] settings to **relative**.
- 7. Install **Telelogic Tau 4.2**.
 - a. Choose the machine where you want to install Tau.
 - b. Run Tau 4.2 installer. For information on installing Tau, refer to *Tau Installation Guide*.

8. Setup for Tau interoperation and addin.

On Windows:

- a. Install the Tau addin by running **Tau Webtop Integration 1.0.msi** file.
- b. Add the following to the System PATH variable:
`<TAU_HOME>\bin`
`<TAU_HOME>\addins\TauServer\Bin`
`<TAU_HOME>\addins\TauServer\TDS_Windows_Lib\4.3\lib`
- c. Open Tau and then open any Tau project
- d. Go to **Tools > Customize > Add-ins** menu and select **TauServer**.

On Solaris:

- a. Copy the **tauwebtopinstall.tar** (Tau interoperation addin) file to your machine.
 - b. Unpack the tar file to an existing directory.
E.g `$ tar xvf tauwebtopinstall.tar ~/mytauwebtopdist`
 - c. Go to the directory where the install script is stored:
`$ cd ~/mytauwebtopdist`
- Note** You must set the directory where the install script is stored as the current working directory.
- d. Run the installation script:
`$./installtauwebtop.sh`
It will ask you for the path to the Tau 4.2 installation.
 - e. Type the directory path for Telelogic Tau installation.
E.g `/disk/1/boss/tau42`
 - f. Verify that the **TauServer** addin is located in the addins folder of your installation.

- g. Append the system variable LD_LIBRARY_PATH to point to the directory containing this library.

For example:

```
LD_LIBRARY_PATH=$LD_LIBRARY_PATH:$TAU_HOME/  
bin:$TAU_HOME/addins/TauServer/TDS_SunOS_Lib/4.3/  
lib:$TAU_HOME/addins/TauServer/Bin
```

- h. export LD_LIBRARY_PATH
- i. Add the following paths to the System PATH variable:
 - <TAU_HOME>/bin
 - <TAU_HOME>/addins/TauServer/Bin
- j. export PATH
- k. Open Tau and then open any Tau project
- l. Go to **Tools >Customize >Add-ins** menu and select **TauServer**.

Note You need to keep the Tau project open in Tau InterOp for Webtop to be able to access it.

Registering the Tau application

To register the Tau application:

1. Create a file with the same name as the Tau project (no extension) and copy it into the following directory:

`<TAU_HOME>\addins\TauServer\Bin`

2. Add the following entries to that file in the order given below:

- TDS Host/IP
- TDS port
- Tau repository Host/IP:Port

For example:

`192.168.20.31`

`1389`

`192.168.153.97:57000`

where *192.168.20.31* is the IP address of the machine where TDS is running. It can also be a hostname e.g. *TDSserver*.

1389 is the TDS port number

192.168.153.97 is the IP address of the machine where Tau repository is running, *57000* is the default port number to access Tau repository.

3. Go to **Tau Server** menu and then click **Register with TDS** option.

The Project will be registered with TDS and its URL is published to TDS.

4. Check the Tau messages that appear to ensure you get a success message.

Note After making the above setup, if you still get the following error: “Failed to load library for implementation of agent Register: ../Bin/TauServer”, do the following:

- Copy the contents of `<TAU_HOME>\TAU_4.2\addins\TauServer\TDS_Windows_Lib\4.3\lib` to `<TAU_HOME>\TAU_4.2\addins\TauServer\Bin` and then try registering Tau with TDS.

Configuring Tau to listen to a particular port

By default, Tau listens to port 57000. If during the Tau Application Registration process, the Tau repository is registered using a port other than the default port i.e. 57000, then Tau needs to be started with a specific option to listen to the user defined port.

To start the Tau server on a specific port:

On Windows:

1. Right click the Tau icon on desktop.
2. Select **Properties**.
3. In the target textfield, append `-port 57001`

Where 57001 is the desired port.

For example:

```
"C:\Program Files\Telelogic\TAU_4.2\bin\VCS.EXE" -port 57001
```

On Solaris:

Start Tau from bash shell using **tau.sh** file and append the user defined port number to it.

For example:

```
$ tau -port 57001
```

where 57001 is the desired port.

Installing Telelogic Team Webtop

Once you have setup all the components for Webtop, you can start with the Webtop installation.

Note The DOORS server, DOORS interoperation, Tau interoperation and Change database can be deployed to run on a different machine than the Webtop server.

To install Webtop on **Windows**:

1. Download the Webtop installer from the support website.
2. Run the Webtop installer.
3. Setup **Tau 4.2**:

The current Webtop server depends on certain Tau libraries, for which, a local installation of Tau is necessary.

Note Only installation is necessary and one does not need to run Tau 4.2 in the same machine as Webtop server. The Webtop server can read Tau Interoperation and its associated design data installed on different machines.

- a. Install Tau 4.2. For more information on tau installation, refer to *Tau Installation Guide*.
 - b. Add the following path <TAU_HOME>\bin to the System PATH variable.
4. Run the **dwaBroker.start.bat** script located under <Webtop_Home> to activate the ActiveMQ broker.

The DWA broker is the DOORS Web Access broker. The DWA broker is installed along with Webtop.

5. Stop the DOORS Database Server running as a Windows service using the Control Panel.
6. Start the DOORS Server in a DCN enabled mode as:

```
<DOORS_HOME>/bin/doorsd.exe -start -dcnEnable -dcnBrokerUri  
"tcp://<brokerHost>:61616" -dcnChannelName "dcn".
```

Where the **brokerHost** value points to the host where the ActiveMQ broker has been started. The default port is 61616).

Note Hostname or IP address should be used wherever applicable and not localhost or 127.0.0.1

7. Start the DOORS client in an interoperation mode using the following commands:

- If the DOORS server, DOORS interoperation and broker are running on a different machine, the command to start the DOORS client is:

```
<DOORS_HOME>/bin/doors.exe -interop -data port@host  
-brokerHost <BrokerHost> -brokerPort <BrokerPort>
```

Where host is the hostname where DOORS server is running, BrokerHost is the hostname of the machine where broker is running and BrokerPort is the port where broker is running.

For Example:

```
doors.exe -interop -data 36677@exampleserver -brokerHost  
mybroker -brokerPort 12345
```

- If the DOORS interoperation is run on the same machine as broker, the command to start the DOORS client is as follows:


```
<DOORS_HOME>/bin/doors.exe -interop -data port@host
```

For example:

```
doors.exe -interop -data 36677@exampleserver
```

- If the DOORS interoperation is run on the same machine as broker and DOORS server, the command to start the DOORS client is as follows:

```
<DOORS_HOME>/bin/doors.exe -interop
```

For example:

```
doors.exe -interop
```

8. Open the **festival.xml** file from:

```
<Webtop_HOME>/webtopServer/festival/config directory.
```

9. Edit the following values with the location of your TDS server and the TDS admin login credentials.

```
<f:property name="tds.server.host" value="TDS hostname"/>
<f:property name="tds.credentials.uid" value="TDSadmin"/>
<f:property name="tds.credentials.password" value="TDS admin
Password"/>
```

10. Modify the following values:

```
<f:property name="dwa.server.host" value="Webtop server"/>.
```

The value should be replaced with the appropriate hostname of the Webtop Server.

To install Webtop on **Solaris**:

1. Download the Webtop installer from the support website.
2. Run the Webtop installer.
3. Run the **configure-webtop.sh** script.
4. Setup **Tau 4.2**:

The current Webtop server depends on certain Tau libraries, for which, a local installation of Tau is necessary.

Note Only installation is necessary and one does not need to run Tau 4.2 in the same machine as Webtop server. The Webtop server can read Tau Interoperation and its associated design data installed on different machines.

- a. Add the path <TAU_HOME>\bin to the System PATH variable

- b. export PATH
- c. Append the Solaris system variable LD_LIBRARY_PATH to point to the directory containing the dependent library and export the path.

Example:

```
LD_LIBRARY_PATH=$LD_LIBRARY_PATH:$TAU_HOME/bin
export LD_LIBRARY_PATH
```

5. Run the **dwaBroker.start.sh** script located under **<Webtop_Home>** to activate the ActiveMQ broker.

The DWA broker is the DOORS Web Access broker. The DWA broker gets installed along with Webtop.
6. Follow [step 6](#) through [step 10](#) of **To install Webtop on Windows** section to complete the installation.

Note The **festival.xml** file is located under the following path on Solaris:

```
<webtop_Home>/solaris/webtopServer/festival/config
```

Starting the Webtop Server

To start the Webtop server on Windows:

Run the `WebtopServer.start.bat` script located under **<Webtop_Home>**.

To start the Webtop server on Solaris:

Run the `WebtopServer.start.sh` script located under **<Webtop_Home>/solaris**.

Accessing the Webtop Server

Make sure that you have installed all the required components and started the Webtop server.

To access the Webtop, type the following URL:

```
http://<WebtopHost>:8080/webtop
```

Modifying the components if TDS is changed

If you have installed newer version of TDS, you need to make changes to Webtop and other components. This section provides the details on the changes that need to be done.

Changes required for Webtop

1. Shut down the Webtop server using the **webtopServer.Shutdown.bat** script from the root folder.

For example:

```
C:\ProgramFiles\Telelogic\Team Webtop
1.0\webtopServer.Shutdown.bat
```

2. Delete **tds.xml** from:

```
<WEBTOP-Home>\WebtopServer\webapps\webtop\
WEB-INF\classes\
```

3. Start the Webtop server using the **WebtopServer.start.bat** script located under **<Webtop_Home>**.

4. Open Webtop by providing the appropriate URL.

For example:

```
http://examplehost:8080/webtop
```

5. In the **Welcome** screen, type the TDS details. The following table describes the field details:

Field name	Description	Example value
Username	Administrator user. The user must be a valid TLS user.	admin
Password	Password for the administrator user	pass123
TDS Location	Host name or IP address of the server where TDS is running	TDSServer1

Field name	Description	Example value
TDS Port	TDS port number	1389
Is TDS Port SSL Enabled	To enable SSL authentication	Check this option if you want to authenticate securely using SSL

Note If **Is TDS Port SSL Enabled** check box is checked and a non-SSL port number is provided in the **TDS Port** field, or if a SSL port number is given in the **TDS Port** field and the check box is not checked, the login will fail.

Changes required for Tau

1. Shut down Tau.
2. Edit the file that is used to for Application Registration of the project.
For more information on registering with TDS see, [Registering the Tau application \(page 10\)](#).
3. Delete the last line, which contains the *Application UID* assigned to the Tau instance. You will find the entry similar to the one given below:
97ab85cb-4736-4d66-b543-7e1d0d1848aa
4. Start the Tau application and open the Workspace.
5. Go to Tau **Server** menu and then click **Register with TDS** option.

Changes required for Change

1. Stop the **Change Server**.
2. Delete **tds_application_registry.xml** from the following path:
<CHANGE-HOME>/cs_app/webapps/synergy/WEB-INF/wsconfig/
3. Delete **tds_config.xml** from the following path:
<CHANGE-HOME>/cs_app/webapps/synergy/WEB-INF/wsconfig/
4. Start the **Change Server**.
5. Go to <MACHINE-NAME>:<PORT>/admin, where, the details of machine name and port are those where Change server is running.
6. Re-enter TDS details.

Changes required for DOORS

1. Remove `tdsregistration.txt`, `tds_valid_id.txt` from `<DOORS-ERS-HOME>/data`
2. Start the DOORS server from **Services** menu.
3. Open the DOORS client and change the TDS path to point to the new TDS.
4. Delete `tds.xml` from the following path:
`<WEBTOP-Home>\WebtopServer\webapps\webtop\WEB-INF\classes\`
5. In the `festival.xml`, change the TDS entries to point to the new location.
6. Stop the DOORS server from the **Services** menu.

Make sure the service by name **DOORS DB Server 9.1** is stopped and its startup type is Manual using the `services.msc` command or by selecting **Control panel -> Administrative tools -> Services** option.

7. Start the DWA broker by double-clicking the **dwaBroker.start.bat** file.
8. Start the DOORS server in a dcn enabled mode as:

```
<DOORS_Home>/bin/doorsd.exe -start -dcnEnable  
-dcnBrokerUri "tcp://<brokerHost>:61616"  
-dcnChannelName "dcn".
```

For example:

```
C:/Program Files/Telelogic/DOORS 9.1/bin/doorsd.exe -  
debug -dcnEnable -dcnBrokerUri "tcp://127.0.0.1:61616"  
-dcnChannelName "dcn"
```

9. Start DOORS Interop as:

```
<DOORS_Home>/doors.exe" -interop -data  
<port>@<IP address of the machine>
```

For example:

```
"C:/Program Files/Telelogic/DOORS 9.1/bin/doors.exe" -  
interop -data 36677@192.168.123.1
```

10. Start the Webtop server by running the **WebtopServer.start.bat** script located under **<Webtop_Home>**.

3

Troubleshooting

This chapter describes the possible problems and solutions for Telelogic Team Webtop.

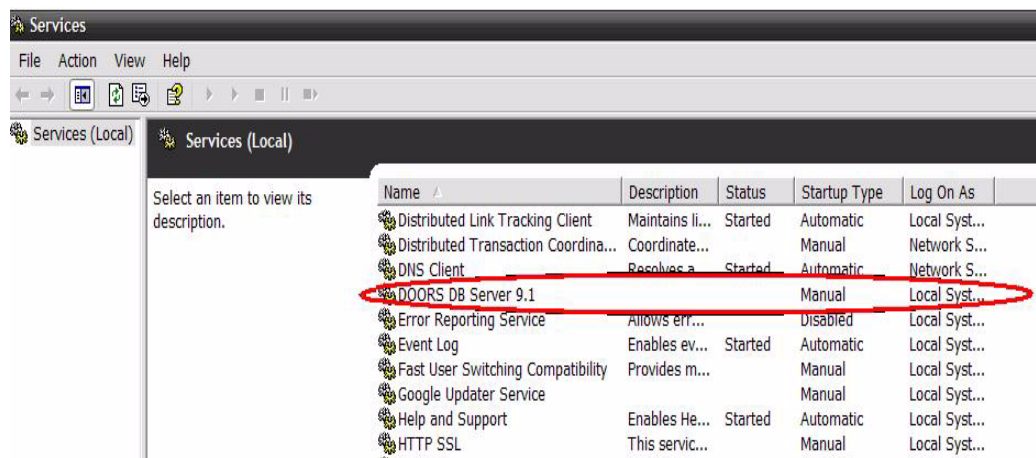
Problems and Solutions

1. *The following error is displayed while configuring DOORS: "ERROR: Serious Error Encountered! Please Check Configuration data and make sure that DOORS is up and Running".*

Follow the steps given below to resolve the issue:

- a. Stop the DOORS server, broker and Interop.
- b. Make sure the service by name **DOORS DB Server 9.1** is stopped and its startup type is Manual using the `services.msc` command or by selecting **Control panel -> Administrative tools -> Services** option.

See the following sample screen shot for details.



- c. Search for the `tds_valid_id.txt` in the hard disk:
 - If TLS 2008 suite is installed say in `D:/Telelogic/.....` try looking for the `tds_valid_id.txt` in `D:/Databases/DOORSdbs`

- If DOORS is installed say in C:/Program Files/Telelogic/ try looking for the tds_valid_id.txt in C:/Program Files/Telelogic/DOORS 9.1/data
- d. Delete or rename tds_valid_id.txt.
- e. If DOORS needs to point to a different TDS, the tds_registered.txt file can be deleted or renamed.
- f. Start the DWA broker by double-clicking the **dwaBroker.start.bat** file.
- g. Start the DOORS server in a dcn enabled mode as:

```
<DOORS_Home>/bin/doorsd.exe -start -dcnEnable  
-dcnBrokerUri "tcp:// <brokerHost>:61616"  
-dcnChannelName "dcn".
```

For example:

```
C:/Program Files/Telelogic/DOORS 9.1/bin/doorsd.exe  
-debug -dcnEnable -dcnBrokerUri "tcp://  
127.0.0.1:61616" -dcnChannelName "dcn"
```
- h. Start DOORS Interop as:

```
<DOORS_Home>/doors.exe" -interop -data  
<port>@< IP address of the machine>
```

For example:

```
"C:/Program Files/Telelogic/DOORS 9.1/bin/  
doors.exe" -interop -data 36677@192.168.123.1
```
- i. Start the Webtop server by running the **WebtopServer.start.bat** script located under **<Webtop_Home>**
- j. Try creating a Webtop project with a DOORS project in it.
- k. If after re-registration, in the DOORS repository drop down list (of Webtop project creation dialog box), two or more entries are found by same name.

For example:

 - 36677@john
 - 36677@john

Check if new files are created by name tds_registered.txt and tds_valid_id.txt. Choose the last one in the drop down.

1. Make sure that when the DOORS broker is started, it comes up and prints the message (circled in the screen shot below) which implies that only one DOORS broker is running.

```

C:\WINDOWS\system32\cmd.exe
ACTIVEMQ_HOME: C:\work\delete\dwaBroker\bin\..
ACTIVEMQ_BASE: C:\work\delete\dwaBroker\bin\..
Loading message broker from: xbean:activemq.xml
INFO PrimaryRouteBuilder - Configuring Festival Router 1.0
INFO PrimaryRouteBuilder - Finished configuring Festival Router
INFO AdminRouteBuilder - Configuring Festival Router 1.0
INFO AdminRouteBuilder - Finished configuring Festival Router
INFO TiredRouteBuilder - Configuring Festival Router 1.0
INFO TiredRouteBuilder - Finished configuring Festival Router
INFO BrokerService - Using Persistence Adapter: AMQPersistenceAdapter(C:\work\delete\dwaBroker\bin\..\data)
INFO BrokerService - ActiveMQ 5.2-SNAPSHOT JMS Message Broker (localhost) is starting
INFO BrokerService - For help or more information please see: http://activemq.apache.org/
INFO AMQPersistenceAdapter - AMQStore starting using directory: C:\work\delete\dwaBroker\bin\..\data
INFO KahaStore - Kaha Store using data directory C:\work\delete\dwaBroker\bin\..\data\kr-store\state
INFO AMQPersistenceAdapter - Active data files: []
INFO KahaStore - Kaha Store using data directory C:\work\delete\dwaBroker\bin\..\data\kr-store\data
INFO TransportServerThreadSupport - Listening for connections at: tcp://John:61616
INFO TransportConnector - Connector openwire Started
INFO BrokerService - ActiveMQ JMS Message Broker (localhost, ID:Rajuel-1928-1233819366275-1:0) started
INFO TransportConnector - Connector um://localhost Started
  
```

- m. Make sure that the entries (circled in the sample screen shot) in `festival.xml` are correct, the TDS username and password should be the Directory Admin credentials. Try to log on to TDS with the credentials which are given in this file.

```

25 <!-- Configurable system properties -->
26 <f:properties>
27   <f:property name="use.tds.for.application.registration" value="true"/>
28   <f:property name="tds.server.host" value="server64"/>
29   <f:property name="tds.credentials.uid" value="tdsadmin"/>
30   <f:property name="tds.credentials.password" value="pass1234"/>
31   <f:property name="dwa.server.host" value="localhost"/>
32   <f:property name="dwa.server.port" value="8080"/>
33 </f:properties>
  
```

2. After setting up the Tau PATHs in the environment variable, when we click on Register option in Tau, Tau still fails to register with TDS with the following error: "Failed to load library for implementation of agent Register: ../Bin/TauServer"

Copy the contents of `<TAU_HOME>\TAU_4.2\addins\TauServer\TDS_Windows_Lib\4.3\lib` to `<TAU_HOME>\TAU_4.2\addins\TauServer\Bin` and then try registering Tau with TDS.

Appendix: Notices

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