



Installing the Master for Windows

TES can be configured on a network in many different ways. The master is installed with default parameters that provide most users with optimum performance but individual circumstances may require reconfiguring the master parameters after installation. These parameters are managed in a *master.props* file residing on the master machine. Refer to [“Configuring the Master”](#) for information on modifying the main master properties.

Installation Prerequisites

The following requirements must be met for successful installation of the TES master:

- User with local Administrator privileges
- One of the Windows operating systems listed in [“Minimum System Requirements”](#).
- The master machine must be able to ping the database server’s host name and to establish a normal database client connection to the database service (and the backup master and fault monitor server host names, if in a fault tolerant configuration)
- Database software already installed single or multiple instance (See [“Supported Databases”](#) for further information.)
- Apply all patches supplied in the latest hotfix for TES 6.2.
- Set the system properties to provide the complete path to the bin directory.

For example:

```
E:\Oracle\product\11.2.0\client_1\bin;%SystemRoot%\system32;%SystemRoot%;%SystemRoot%\System32\Wbem;%systemroot%\System32\WindowsPowerShell\v1.0\;C:\Program Files\Java\jre7\bin
```

To set system properties to provide the complete Java path:

-
- Step 1** Right click My Computer, and choose **Properties**.
 - Step 2** Click the **Advanced system settings** link in the left pane.
The System Properties dialog box displays.
 - Step 3** Click **Environment Variables**, and select the path to edit in the Environment Variables dialog box.
 - Step 4** Click **Edit** and provide the complete Java path, down to the bin directory.
-

Installing the Windows Master

**Note**

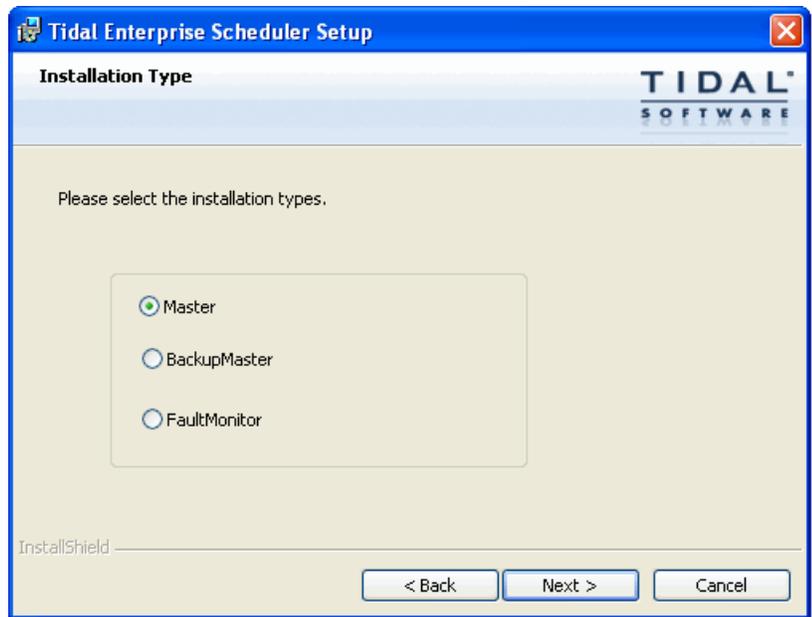
This installation procedure for installing the Windows master differs depending upon whether the database being used is Microsoft SQL Server or Oracle.

Using a Microsoft SQL Database

To install the master component using a Microsoft SQL database:

- Step 1** Run *setup.exe*.
- Step 2** On the Internet Explorer-Security Warning dialog box, click **Run**.
- Step 3** On the Welcome panel, click **Next**.
- Step 4** On the Installation Type panel, select **Master**, then click **Next**.

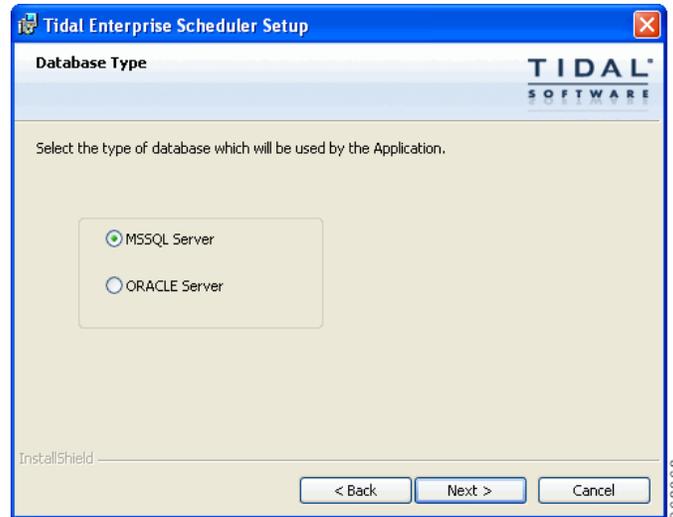
Figure 2-1 Installation Type Panel



- Step 5** On the TES Super User panel, enter the following, then click **Next**.
 - Enter the domain name for your master into the Domain field.
 - Enter the name of the Super user for this master.
 - If you have a demo code, enter the code into the If you have a demo code enter it here: field.

- Step 6** On the Destination Folder panel, select the directory where the Scheduler files will reside, then click **Next**.
- Click **Browse**, locate a directory, select the appropriate file and click **Save**.
 - or-
 - Accept the default location at *C:\Program Files\TIDAL*.
- Step 7** On the Database Type panel, select **MSSQL Server**, then click **Next**.

Figure 2-2 Database Type Panel



- Step 8** On the Database Server panel, identify the Microsoft SQL database and logon you are using, then click **Next**.
- **Database HostName**—Enter the hostname of the database server.



Note

The master should not be installed on hosts with underscores in their names or the JMS connections will fail between components.

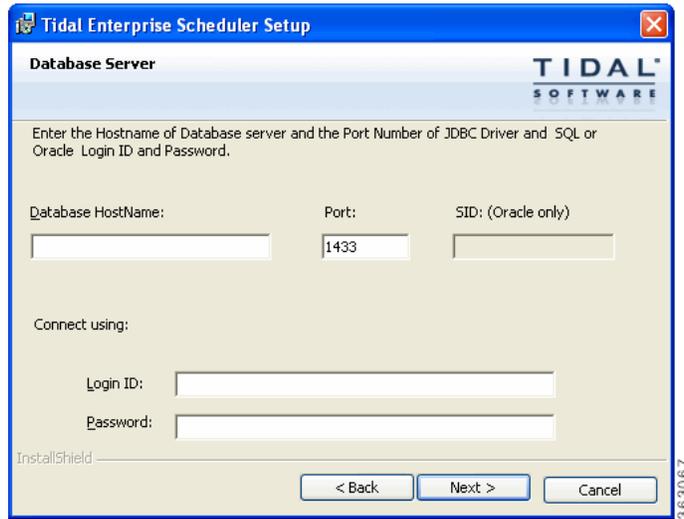
- **Port**—Enter the port number of the JDBC driver. The default port is 1433.
- **SID**—Enter the Oracle System ID (Oracle only).



Note

The Oracle SID and Service Name should be the same on the database. However, if they are different, provide the Oracle Service Name as the SID in this field.

- **Login ID**—Enter the login credentials for the database administrator.
- **Password**—Enter the password for the database administrator.

Figure 2-3 Database Server Panel

Step 9 On the Admiral Database and Transaction Log File Path panel, click **Next** to accept the default paths.

Step 10 On the Database Size panel, enter database and log file sizes, then click **Next**.

- Enter new values (in megabytes).
- or-
- Accept the default values.

The Active Directory/LDAP Authentication panel displays.

Step 11 Select an option, then click **Next**.

If configuring the Client Manager to use the Active Directory option, the Active Directory Authentication panel displays.

If configuring the Client Manager to use the LDAP option, the LDAP Authentication panel displays.

Step 12 For Active Directory, enter the following information:

- **Host**— Enter the hostname or IP address for the Active Directory server.
- **User Search Prefix**—Enter the location you want Active Directory to search for users.
- **Group Search Prefix**— Enter the location you want Active Directory to search for groups.
- **Port**—Enter the port number for the AD server.

-or-

For LDAP, enter the following information:

- **Hostname**— Enter the hostname or IP address for the LDAP server.
- **Port**— Enter the port number for the LDAP server.
- **BindDN**— Enter the user account to query the LDAP server.
- **UserObjectClass**— Specify a valid object class for the BindDB user. Only users who possess one or more of these objectClasses will be permitted to authenticate.
- **UserBindDN**— Enter the user account to query the LDAP server.
- **User-role based access for Oracle/Sun Directory Server**— Select this option if your TES 6.2 Web Client user authentication is defined to use Oracle/Sun Directory Server with role-based access.

- **GroupBindDN**— Enter the group account to query the LDAP server.

Step 13 On the Ready to Install the Program panel, click **Install** to start the installation process. The Installing Tidal TES - Master panel displays.

The progress of your master installation is displayed in the form of a progress bar.



Warning

Do not click Cancel once the installation process begins copying files in the Setup Status panel. Cancelling the installation at this point corrupts the installation program.

You will not be able to install the component without the help of Support. If you decide you do not want to install the component, you must complete the installation and then uninstall.

Step 14 On the Setup Completed panel, click **Finish**.

Using an Oracle Database



Note

The procedure for installing a master running an Oracle database is very similar to the procedure used when running a Microsoft SQL database. The differences are described in the following procedure.

To install the master component using an Oracle database:

Step 1 Run *setup.exe*.

Step 2 On the File Download-Security Warning panel, click **Run**.

Step 3 On the Internet Explorer-Security Warning panel, click **Run**.

Step 4 On the Welcome panel, click **Next**.

Step 5 On the Installation Type panel, select **Master**, then click **Next**.

Step 6 On the TES Super User panel, enter the following, then click **Next**.

- Enter the domain name for your master into the Domain field.
- Enter the name of the Super user for this master.
- If you have a demo code, enter the code into the If you have a demo code enter it here: field.

Step 7 On the Destination Folder panel, select the directory where the Scheduler files will reside, then click **Next**.

- Click **Browse**, locate a directory, select the appropriate file and click **Save**.

-or-

- Accept the default location at *C:\Program Files\TIDAL*.

Step 8 On the Database Type panel, select **Oracle Server**, then click **Next**.

Step 9 On the Database Server panel, identify the Oracle database and logon you are using, then click **Next**.

- Database HostName – Enter the hostname of the database server.
- Port – Enter the port number of the JDBC driver. The default port is 1521.
- SID – Enter the Oracle System ID.

- Login ID – Enter the login credentials for the database administrator.
- Password – Enter the password for the database administrator.



Note This information is available from the Oracle Database Administrator.

Step 10 On the Oracle Tablespace Datafiles panel, specify the name and location of the Data, Index and Temp tablespaces so Scheduler can access the files, then click **Next**. By default, Scheduler calls the datafiles, ADMIRAL_DATA, ADMIRAL_INDEX and ADMIRAL_TEMP. You can retain the default name or replace the default values with different names but you must type the directory path to each datafile location.

Step 11 On the Ready to Install the Program panel, click **Install** to start the installation process.

The Installing Tidal TES - Master panel displays.

The progress of your master installation is displayed in the form of a progress bar.



Warning

Do not click Cancel once the installation process begins copying files in the Setup Status screen. Cancelling the installation at this point corrupts the installation program.

You will not be able to install the component without the help of Support. If you decide you do not want to install the component, you must complete the installation and then uninstall.

Step 12 On the Setup Completed panel, click **Finish**.

Verifying Master Connection

Use the Service Control Manager to verify that the master is running.

To verify connection:

Step 1 From the Windows Start menu on the master machine, select **Programs > TIDAL Software > Scheduler > Master > Service Control Manager** to display the Tidal Service Manager.

Step 2 From the Service list, select **Scheduler Master**. The master status displays at the bottom of the dialog box.

Step 3 Click **Start** to start the master if it is not running.

Configuring the Master

Most of the master parameter configurations are completed from the *master.props* file in the *config* directory. Parameter values are added or modified from this file. If you used the default locations during installation the *master.props* file is located at:

C:/Program Files/TIDAL/Scheduler/Master/Config/master.props

Configuring the Master for SNMP

If you want to use Simple Network Management Protocol (SNMP) to send traps in TES, you must tell the master how to connect to the SNMP server. You can configure the master to use SNMP from the *master.props* file.

To configure the master for SNMP:

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- Step 1** Stop the master using the Tidal Service Manager.
- From the Start menu on the master machine, choose **Programs > TIDAL Software > TIDAL Service Manager** to display the Tidal Service Manager.
 - From the Service list, select **Scheduler Master**. The master status displays at the bottom of the dialog box.
 - Click **Stop** to stop the master. (The bottom of the dialog box displays “Scheduler Master: Stopped”.)
- Step 2** Open the *master.props* file in a text editor such as Notepad.
- The *master.props* file is located in the *config* directory. If you used the default locations during installation, the *master.props* file is located at:
C:/Program Files/TIDAL/Scheduler/master/config/master.props
- Step 3** On separate lines, enter the following SNMP information:
- snmphost=<hostname of the SNMP server>**
snmpport=<port number used by the SNMP server>
- Step 4** Replace the text enclosed in brackets with the hostname and port number for the SNMP server.
- Step 5** Save and close the *master.props* file.
- Step 6** Restart the master from the Tidal Service Manager.
-

Configuring the Nice Value for the Master Service

Usually the Scheduler master service would have the highest priority for CPU resources on the machine where it resides but there may be occasions where you want other services to have a greater priority to CPU resources. You can reconfigure the Scheduler master service to a lower priority by assigning it a Unix nice value as used in the **ps** command for the Solaris, HP-UX and AIX operating systems.

Scheduler uses a different nice value scale than that used in Unix systems but the following formula can be used to convert the Scheduler nice value to a Unix nice value:

$$20 - (\text{Scheduler nice value} - 1) = \text{Unix nice value}$$

For example, a Scheduler nice value of 40 for the master service would convert to a -19 Unix nice value, $20 - (40 - 1) = -19$.

Changing the Master Database Password

To change the Master database password:

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- Step 1** Log on the master machine.
 - Step 2** Navigate to the master installation directory inside cmd.exe.
 - Step 3** Run the following command:

```
java -classpath lib\scheduler.jar -DTIDAL_HOME=.com.tidalsoft.scheduler.SetPwd tidal97
tidal98
```



Note In the command above, tidal97 is an example of the current password and tidal98 is an example the new password. When you execute the command, provide your own current and new passwords.

The master.props will have a line added to it similar to the following:

```
dbpwd=511 \\rx((YYYSS
```

Installing an Oracle Database

See [“Using an Oracle Database”](#) for Oracle database installation requirements.

Adding an Oracle Service as a Master Dependency

If you are installing the TES master on the same Windows machine that will be your Oracle database server, manually add the Oracle service as a dependency to the TES master service before it can start automatically when the system is rebooted.

To add the Oracle service as a TES master dependency:

-
- Step 1** Log in as an **Administrator**.
 - Step 2** From the Windows Start menu, choose **Programs > TIDAL Software > Scheduler > Master>Service Manager > Scheduler Master**.
 - Step 3** Stop the master by clicking **Stop**.
 - Step 4** Click **Configure**, then click **Dependencies**.
 - Step 5** Select the service **OracleService <service name>** from the **Available Services** list and drag it to the **Depends On** tab.
 - Step 6** Click **OK**, then click **OK** again.
 - Step 7** Click **Start**.

The next time you reboot, the TES master service will start automatically after the Oracle server service has started.

Installing an Oracle Database Manually

Although it is recommended that the installation process create the Admiral database for Oracle, users can create the database manually. If the Create database manually after installation option is selected while installing the master, your DBA must perform the procedures below after the TES installation completes.

The Oracle SQL scripts needed to create the database can be found in the Oracle directory within the master directory where you installed the Scheduler program files. If you did not select the default location, the files are in the directory location you specified.

Inside the *oracle* directory is a *connectdb.sql* script. Certain parameters in this script must be edited before manual installation of the database.



Note

If you wish to install the datafiles in a specific directory, the Oracle DBA can change the CREATE TABLESPACE statements to specify a different directory location for the datafiles. The datafile growth options may also be modified if desired. Do not lower the default SIZE values.

The CREATE USER, GRANT and ALTER USER statements contain critical security information values in the brackets < >. Contact Support for assistance with the appropriate values.

Once you have entered the information you received from Support in the appropriate places in the *connectdb.sql* script, save and close the script.

To install manually:

-
- Step 1** Open the Oracle SQL*Plus program.
 - Step 2** Login as the SYSTEM user (or equivalent) and connect to the ADMIRAL TNS Name.
 - Step 3** Run the following installation script:

```
@C:\progra~1\TIDAL\Scheduler\master\oracle\instnew.sql
```



Note

For debugging purposes, you may wish to run a spool file as you run the installation script.

- Step 4** Edit *orapopulate.sql* so it will create a valid initial super user account.
- Find the following statement and change **DOMAINNAME** and **SUPERUSERNAME** to be the domain and user name of the initial super user account:

```
insert into usrmst (usrmst_id, usrmst_domain, usrmst_name, usrmst_fullname, usrmst_desc,
usrmst_phoneno, usrmst_pagerno, usrmst_email, usrmst_emailtype, secmst_id, lngmst_id,
usrmst_password, usrmst_suser) values (1, DOMAINNAME, 'SUPERUSERNAME',
'SUPERUSERNAME', null, null, null, null, null, 6, 1, null, 'Y');
```



Note

DOMAINNAME can be null. If it is not null, be sure to add single quotes around the domain name in the sql statement. Your Oracle TES database should now be installed.

Uninstalling the Windows Master

A *temp* directory must be present on the root of your hard drive in order for uninstallation to work properly.

Uninstallation Prerequisites

Before uninstalling the master:

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- Step 1** Stop all TES components.
 - Step 2** Exit all Tidal Web clients by choosing **File > Exit** from the menu for each Tidal Web client that is running.
 - Step 3** Stop the master:
 - a. From the Windows Start menu, choose **Programs > TIDAL Software > TIDAL Service Manager**.
 - b. From the Service list, choose **Scheduler Master**.
 - c. Click **Stop**; the light turns green when the master has stopped.

Once TES components have been stopped, you can begin the uninstallation process.

Uninstallation Procedure

The TES master is uninstalled from the Windows Control Panel.

To uninstall:

-
- Step 1** From the Windows Start menu, choose **Control Panel**, then double-click **Add** or **Remove Programs**.
 - Step 2** Scroll down the list of programs installed on the machine to the Tidal Scheduler program.
 - Step 3** Click the Tidal Scheduler program to highlight it.
 - Step 4** Click **Remove** to start the uninstallation process. A confirmation message displays.



Note SNMP services are momentarily stopped when uninstalling the SNMP extension agent. They are restarted when uninstallation is complete.

- Step 5** Click **OK** to uninstall. The Preparing Setup panel displays showing a progress bar. When the progress bar reaches 100%, a Scheduler confirmation dialog box displays.



Note On occasion, the master service may not be fully stopped even though the Service Manager says the master has stopped. Uninstalling the master before the master service completely stops displays an error message “Unable to stop service completely.” This message displays when the machine is unable to stop the master service quickly due to the volume of processes. Click **OK** to close the error message dialog box and wait while the machine catches up to complete the uninstallation process. When the uninstallation process finally completes, verify that all files were deleted from the location where the master files resided.

**Warning**

Do not cancel the uninstallation process once it begins or the uninstallation program will not be able to find its files the next time you attempt to uninstall. If you do cancel the uninstall, you will need to contact Technical Services.

**Note**

During uninstallation, a dialog box may display indicating that some files are locked because they are shared by other applications. Ignore the locked files and continue with the uninstallation.

Step 6 Click **OK** to finish.

Step 7 Repeat to remove other components.

**Note**

If a Client Manager resides on the same machine as the master, the Client Manager must be uninstalled if the master is uninstalled.

Step 8 Once you complete uninstalling components, reboot the machine to clear the registry.

**Note**

If you do not reboot after uninstallation(s), any subsequent installation may fail.

Some files or folders under the TES folder that were created after the installation might not be removed. You may want to manually delete these files and folders. The log file and the database created during installation remain and must be removed in separate procedures

Configuring the JVM Manually

To configure the JVM manually:

Step 1 Stop the master using the Tidal Service Manager.

- a. From the Windows Start menu on the master machine, choose **Programs > TIDAL Software > TIDAL Service Manager** to display the **Tidal Service Manager**.
- b. From the Service list, select **Scheduler Master**. The master status displays at the bottom of the dialog box.
- c. Click **Stop** to stop the master. (The bottom of the dialog box displays “Scheduler Master: Stopped”.)

Step 2 Open the Windows Registry Editor.

Step 3 Locate the **HKEY_LOCAL_MACHINE Software > TIDAL Software > Scheduler** key in the Registry.

Step 4 Locate the JvmVersion value. The value should be 1.7. If there is no value, double-click the value to display its String Editor dialog box.



Note Run “path/to/java -version” to check the right version.

Step 5 Enter **1.7**, then click **OK** to close the dialog box and Registry.

- Step 6** From the Tidal Service Manager, restart the master.
- a. From the Windows Start menu on the master machine, choose **Programs > TIDAL Software > Scheduler > Master > Service Control Manager** to display the **Tidal Service Manager**.
 - b. From the Service scroll-down menu, choose **Scheduler Master**. The master status displays at the bottom of the dialog box.
 - c. Click **Start**.
-