

*Telelogic Directory Server*  
*Installation Guide*  
*Release 4.3*

Before using this information, be sure to read the general information under Appendix, [“Notices” on page 49](#).

This edition applies to **VERSION 4.3, Telelogic Directory Server** and to all subsequent releases and modifications until otherwise indicated in new editions.

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# 1

## About this manual

This manual guides you through the Telelogic® Directory Server™ (TDS) installation and uninstallation.

It contains the following sections:

- [Introduction](#)
- [TDS documentation](#)
- [Types of TDS installations](#)
- [Modes of installations](#)
- [Preparing installation information](#)
- [Server Installation](#)
- [Server Removal](#)
- [Client Installation](#)
- [Client Removal](#)

### TDS documentation

This section provides the information on the related documents available for TDS. The following TDS documents are available on the Product Support Web site, <https://support.telelogic.com>

Document Name	Description
Telelogic Directory Server Installation Guide	Provides information on how to install the TDS.
Telelogic Directory Server Product Manual	Provides detailed information on TDS features supported in this release.
Telelogic Directory Server Administration Manual	Provides information on TDS administration.

## Contacting IBM Rational Software Support

Support and information for Telelogic products is currently being transitioned from the Telelogic Support site to the IBM Rational Software Support site. During this transition phase, your product support location depends on your customer history.

### **Product support**

- If you are a heritage customer, meaning you were a Telelogic customer prior to November 1, 2008, please visit the <http://support.telelogic.com>

Telelogic customers will be redirected automatically to the IBM Rational Software Support site after the product information has been migrated.

- If you are a new Rational customer, meaning you did not have Telelogic-licensed products prior to November 1, 2008, please visit the [IBM Rational Software Support site](#).

Before you contact Support, gather the background information that you will need to describe your problem. When describing a problem to an IBM software support specialist, be as specific as possible and include all relevant background information so that the specialist can help you solve the problem efficiently. To save time, know the answers to these questions:

- What software versions were you running when the problem occurred?
- Do you have logs, traces, or messages that are related to the problem?
- Can you reproduce the problem? If so, what steps do you take to reproduce it?
- Is there a workaround for the problem? If so, be prepared to describe the workaround.

### **Other information**

For Rational software product news, events, and other information, visit the [IBM Rational Software Web site](#).

## Conventions used in this guide

Typeface	Description
<i>Italic</i>	Used for book titles and terminology.
<b>Bold</b>	Used for items that you can select and menu paths, also used for emphasis.
Courier	Used for commands, file names, and directory paths. Represents command syntax to be entered verbatim. Signifies computer output that displays on-screen.
Courier Italic	Represents values in a command string that you supply. For example, (drive:\username\commands) .





# 2

## ***Introduction***

The TDS is a single enterprise directory solution designed for user authentication and administration for Telelogic® Lifecycle Solution™ (TLS) tools. The TDS allows the TLS users to login using the same credentials across TLS tools for which they have authorized access.

TDS 4.3 is designed to support a wide range of platforms. For more information on the platform support see [Operating system requirements \(page 9\)](#).

### **Obtaining the TDS software**

You can download the TDS from the support site or from the zip distribution. After downloading the TDS, make sure you verify the MD5 checksum available under the support site, <https://support.telelogic.com> matches the downloaded installer. This will ensure that the downloaded installer is not corrupted.

### **Installation sequence**

It is recommended that you install TDS before installing other products, as it will ensure that the TDS has access to the required network port prior to the other product installations.

## Types of TDS installations

The TDS provides two types of installations:

Installation type	Description
Server Installation	Installs TDS on a local machine. The TDS provides user authentication and administration across TLS tools using the same credentials.
Client Installation	Installs the client (TDA) on a local machine. The client can access the server on the local machine or on a network.

## Modes of installations

The TDS supports following modes of installations:

Installation mode	Description
Stand Alone	Enables you to administer and perform searches for the users and groups that exist locally.
Corporate LDAP Backbone Support	Enables you to configure the TDS to integrate with the external corporate LDAP repositories. You can use this option to enable your corporate backbone to serve as the user/group read-only repository for TLS tools.
OS Authentication	Enables you to configure the TDS to be part of a specific domain so as to enable the users to access the TLS tools using their domain login and password. The users are authenticated against the OS hosting the TDS.

## Preparing installation information

Preparing installation information in advance can help you to complete the installation process quickly. Before starting the installation, consider creating a worksheet to hold the basic installation information, as described for a typical installation in the following table..

Description	Example
Host Name	ExampleServer
Directory Server port number	1389 (default LDAP port)
Secure port number	1636 (default LDAP SSL port)
Directory Administrator password	Password must contain the following: <ul style="list-style-type: none"> <li>• Password must be of minimum 8 characters in length</li> <li>• Password must contain 1 upper case character, and 3 special characters</li> </ul>
Directory Administrator ID	tdsadmin (set by default)
Installation Directory	C:\Program Files\Telelogic\TDS_4.3



# 3

## Server Installation

This chapter contains the installation instructions for installing TDS on a Windows platform.

This chapter contains the following sections:

- [System requirements](#)
- [Before installing TDS](#)
- [More information on TDS installation](#)
- [Installing the TDS](#)

### System requirements

The following section includes the system requirements for the TDS.

#### **Industry standards**

The TDS is developed based on the following industry standards.

- LDAP v3 operations
- LDAP search filters
- LDAP v3 intelligent referral

#### **Operating system requirements**

The TDS is supported on the following platforms:

- Microsoft Windows Server 2003 Standard, Enterprise Edition (SP1 and R2)

The TDA is supported on the following platforms:

- Microsoft Windows 2003 Standard, Enterprise Edition
- Microsoft Windows XP SP2
- Microsoft Windows Vista

## Disk space and memory requirements

### Minimum system requirements for TDS

Ensure that sufficient disk space is available before installing the TDS. The following table shows the sample disk space requirement for TDS.

# of Entries	Minimum disk space required	Minimum memory required
10,000 - 250,000	2 GB	1-2 GB
250,000 - 1,000,000	4 GB	4 GB
Over 1,000,000	8 GB	4 GB

### Requirements for TDA

Ensure that sufficient disk space is available before installing the TDA. The following table shows the minimum disk space requirement for TDA.

Minimum disk space required	Minimum memory required
300 MB	512 MB RAM (/ and a 350MHz Pentium processor for Windows.

## Before installing TDS

Before you install the TDS, ensure that the system is equipped with the set of configurations recommended in this manual to avoid any installation errors.

You must have at least **2 GB** of free disk space and at least **1 GB** free space in %TEMP% folder.

This section describes the following settings that must be in place.

- [OS configuration settings](#)
- [Installation user](#)
- [What is not supported](#)

## **OS configuration settings**

The TDS should be installed only on systems which have the operating system installed on the **C:\ drive**. The installer will fail if this is not the case. However, the TDS itself can be installed on **C:\** or any other drive.

## **Installation user**

The TDS installation should be done by the *Administrator* or user belonging to the *Administrators group*.

## **What is not supported**

This section describes the modes or systems that are not supported by TDS. You must not use the modes or systems referred in this section to avoid any installation errors.

This section contains the following components:

- [Console mode installation](#)
- [Using removable disk](#)

## **Console mode installation**

The TDS does not support non-graphical or console mode installation. Hence, the options such as `-console` must not be used at the time of installation.

## **Using removable disk**

The TDS should NOT be installed using the read/write disk that is removed post install (for example, pen drive). This is because the installer creates a folder in the drive where the installation is done. However, you can install the TDS using a CD or a DVD.

## More information on TDS installation

This section describes certain in built settings and behavior post TDS installations.

This section contains the following components:

- [Installation path](#)
- [Local user/group creation](#)
- [Tivoli installation](#)
- [Folders created by the installer](#)

### **Installation path**

The IBM® Tivoli Directory Server® is installed under the path given by the user at the time of the installation. By default the installer uses the path `C:\Program Files\Telelogic\TDS4_3\` for installation.

### **Local user/group creation**

The TDS installer by default, creates the local user `tdsinst` and group `DB2USERS` and `DB2ADMNS` on the Operating System (OS).

### **Tivoli installation**

TDS Installer internally installs the following:

- IBM Tivoli Directory Server 6.1
- IBM DB2 9.1

### **Folders created by the installer**

The installer creates the following set of folders outside the root installation drive.

- `ibm` (gskit installation)
- `idsslapd-tdsinst`
- `TDSINST`
- `idsinstinfo`



## Installing the TDS

To start the installation, first unzip the TDS installer in a folder using the WinZip utility. Then, follow the TDS installation procedures given below.

You can go backward or forward at any time during the installation to change options. To abort the installation, click **Cancel**.

To Install TDS on Windows do the following:

1. Ensure that **TDS.exe** is the same Drive as the target installation Drive.
2. Open the <TDS Image>\Install folder and double-click the **TDS.exe**. The **Introduction** dialog box appears.

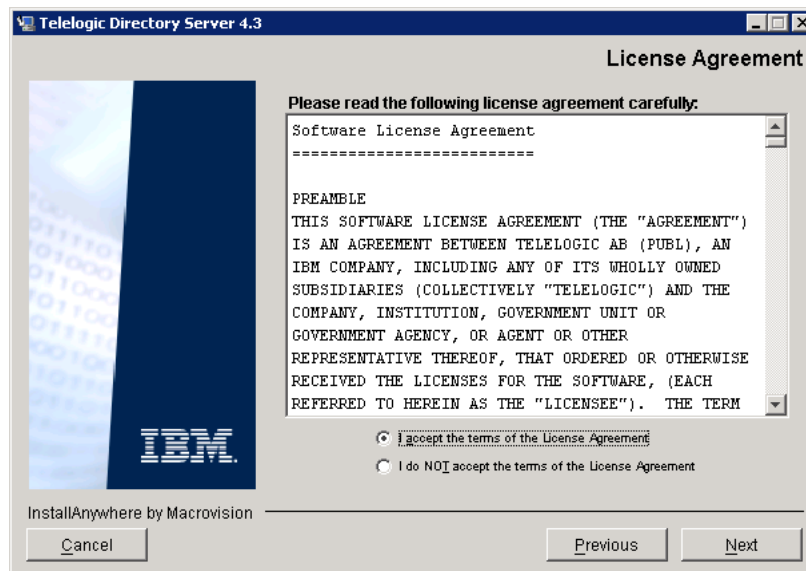


3. Click **Next**. The **License Agreement** dialog box appears.
4. You can save the licence details in a document.

To copy the license information:

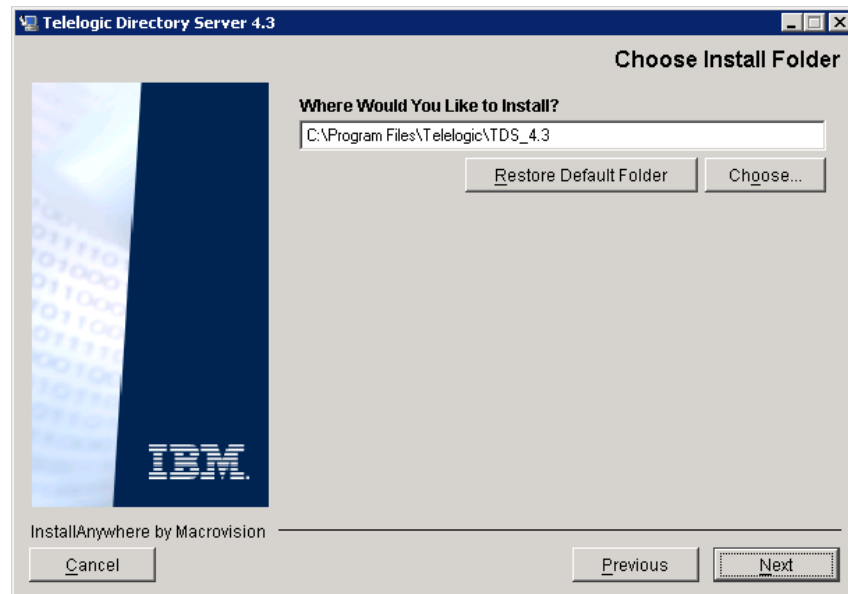
- Right click on the licence window and click **Select All**, and then click **Copy**.
- Open any file, paste the license information and save the file.

5. Review and click **I accept the terms of the license agreement**.

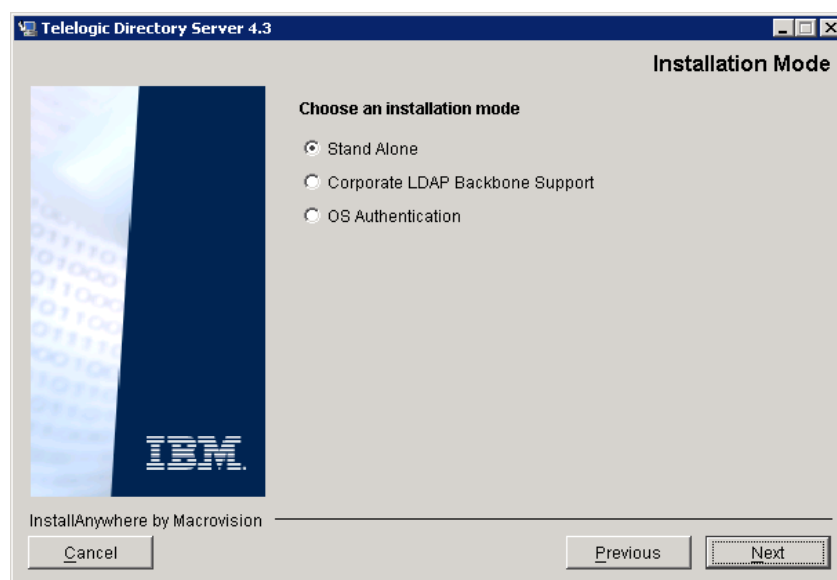


6. Click **Next**. The **Choose Install Folder** dialog box appears.

You can use the default location provided by the installer or click **Choose** to specify a different location. You can also edit the path manually by clicking anywhere in the text box. To use the default location, click **Restore Default Folder**. This restores the default location provided by the installer.



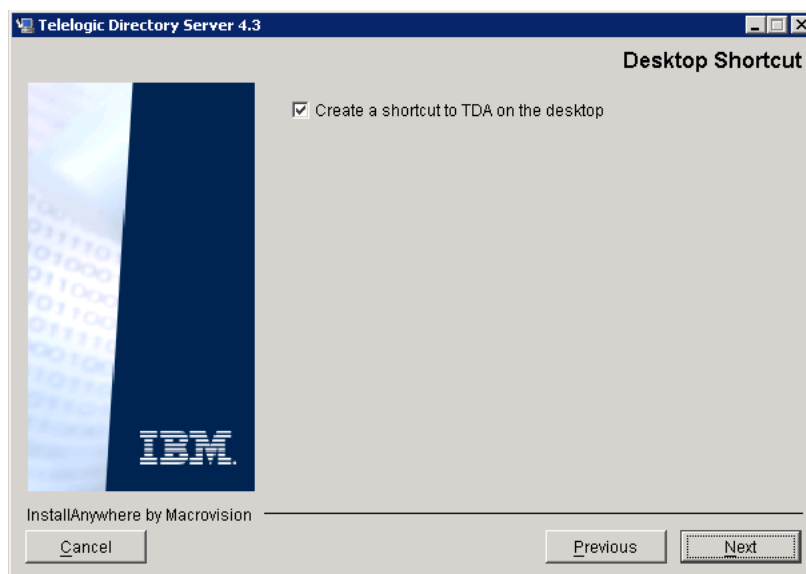
7. Click **Next**. The **Installation Mode** dialog box appears.



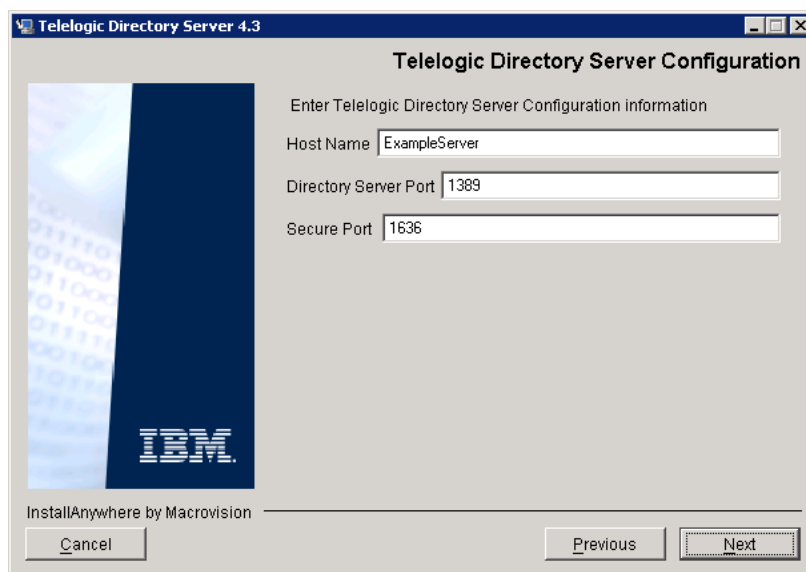
8. TDS provides following modes of installations:
  - Stand-Alone
  - Corporate LDAP Backbone Support
  - OS Authentication
9. Select the install mode. By default, the **Stand-Alone** mode is selected by the installer. For more information on what each of these modes mean refer to [Modes of installations \(page 6\)](#).

10. Click **Next**. The **Desktop Shortcut** dialog box appears.

This creates a TDA shortcut on the desktop. The **Create a shortcut to TDA on the desktop** option is selected by default. You can click to clear the checkbox if you do not want the shortcut to be created on the desktop.



11. Click **Next**. The **Telelogic Directory Server Configuration** dialog box appears. This defines the configuration settings for the TDS.
12. Type the directory server configuration properties.



The field description and the value to be entered in each field is explained in the following table.

Field Name	Description	Values
Host Name	The host name of the computer.	By default, the installer uses the valid computer name. Use the default value provided by the installer or enter a valid computer name in this field.
Directory Server Port	The port number of the directory server.	By default, the installer uses the LDAP server port number "1389". Use the default value provided by the installer or enter the valid port number for the computer in this field.

Field Name	Description	Values
Secure Port	The LDAP Secure Socket Layer (SSL) port number. The SSL is enabled by default by the installer using the secure port number provided during the installation.	By default, the installer uses the secure LDAP port number “1636” to enable the SSL. Use the default value provided by the installer or enter the valid secure port number in this field.

13. Click **Next**. Type the **Directory Administrator User** password.

The field description and the value to be entered in each field is explained in the following table:

Field Name	Description	Values
Telelogic Directory Server Administrator	The admin user for the TDS.	The TDS administrator ID is set by default. The administrator ID cannot be modified.

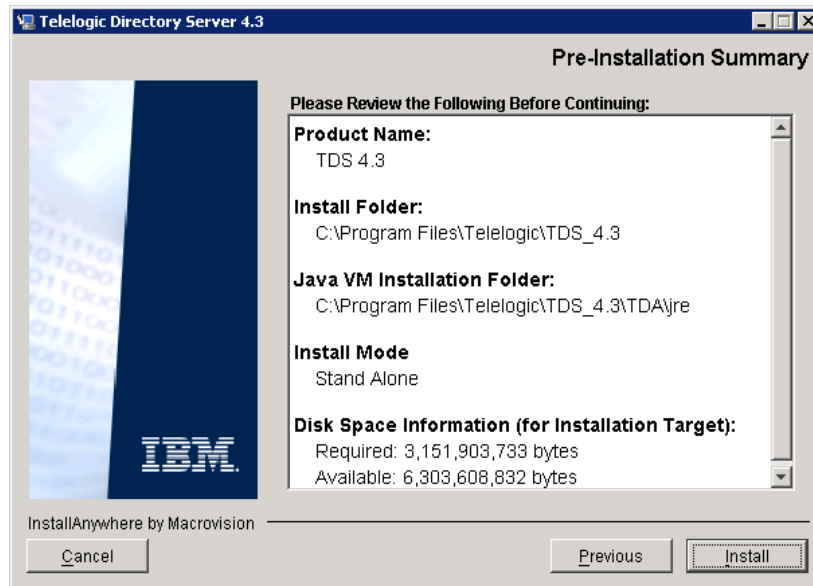
Field Name	Description	Values
Administrator Password	The password for TDS admin user.	Type the administrator password. Password must contain the following: <ul style="list-style-type: none"><li>• Password must be of minimum 8 characters in length.</li><li>• Password must contain 1 upper case character, and 3 special characters.</li></ul>
Confirm Password	This describes the password authentication for the TDS admin user.	Re-enter the password in this field. Both passwords should match for the installation to continue.

14. Click **Next**. The **Pre-Installation Summary** dialog box appears. This dialog box shows the installation summary.

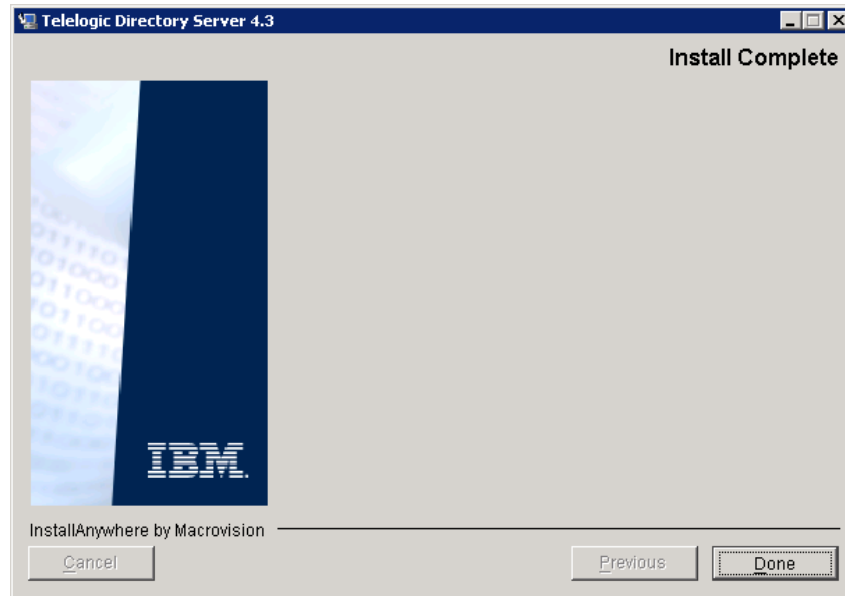


15. Review the information, and then click **Install**.

The **Install Complete** dialog box appears if the installation is successful.



16. Click **Done** to exit the installer.



## Post installation instructions

This section details the basic checks that you can perform to ensure that the installation has went through fine.

This section contains the following components:

- [Server startup](#)
- [Starting the Web server](#)
- [Review log files](#)

### Server startup

Ensure that the server is started after the installation. In case the server is not started automatically, start the server manually using the following command.

```
<TDS_Install_Dir>/IBM/ldap/V6.1/sbin/Start_TDS_Server.bat
```

For example:

```
C:\Program Files\Telelogic\TDS_4.3\IBM\ldap\V6.1\sbin\  
Start_TDS_Server.bat
```

You can also double-click the `Start_TDS_Server.bat` located under the same path to start the server.

**Note** The TDS is configured as a Windows service. However, this should be changed to an automatic service if it is set to manual. This will ensure that the server starts up automatically after a machine reboot.

### Starting the Web server

After installing the TDS, start the Web server using the following command:

```
<TDS_Install_Dir\WebAccessServer\Start_TDAWebServer.bat>
```

For example:

```
C:\Program Files\Telelogic\TDS_4.3\WebAccessServer\  
Start_TDAWebServer.bat
```

## Review log files

1. If the installation is corrupted and the server is not started, review the following log files carefully for any errors.
  - C:\Program Files\Telelogic\TDS\_4.3\TDS\_4.3\_InstallLog.log
  - C:\Program Files \Telelogic\TDS\_4.3\logs\DB2Setup.log
  - C:\Program Files\TDS\_4.3\logs\tivoli\_install.log
  - C:\idsslapd-tdsinst\logs\ibmslapd.log
  - C:\Program Files\TDS\_4.3\IBM\Instance\ldap\V6.1\var
  - C:\Program Files\Telelogic\TDS\_4.3\IBM\tdsdb2V9.1\TDSINST\db2diag.log
2. If the log files specify the installation has failed with Tivoli or DB2 errors, look for the server startup errors in `ibmslapd.log`.

**Note** The above listed log files must be sent along with other relevant information to the support specialist while reporting the errors. For more information on reporting the errors, see [Contacting IBM Rational Software Support \(page 2\)](#).

# 4

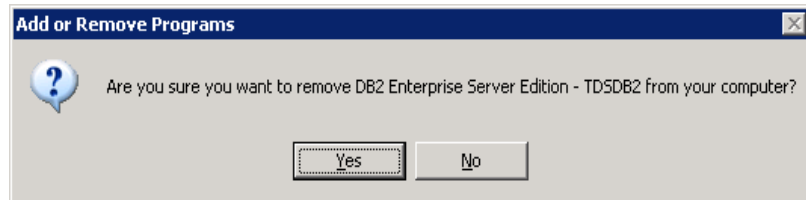
## Server Removal

### Removing the TDS

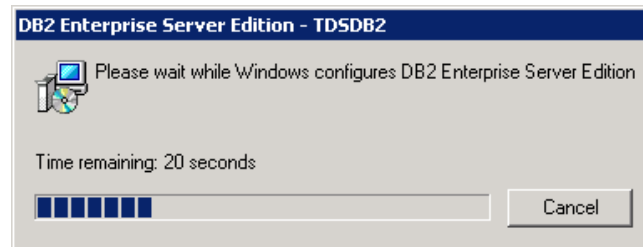
This chapter describes the steps to remove TDS. Remove the server with the same user account that was used for installation.

To remove TDS, do the following:

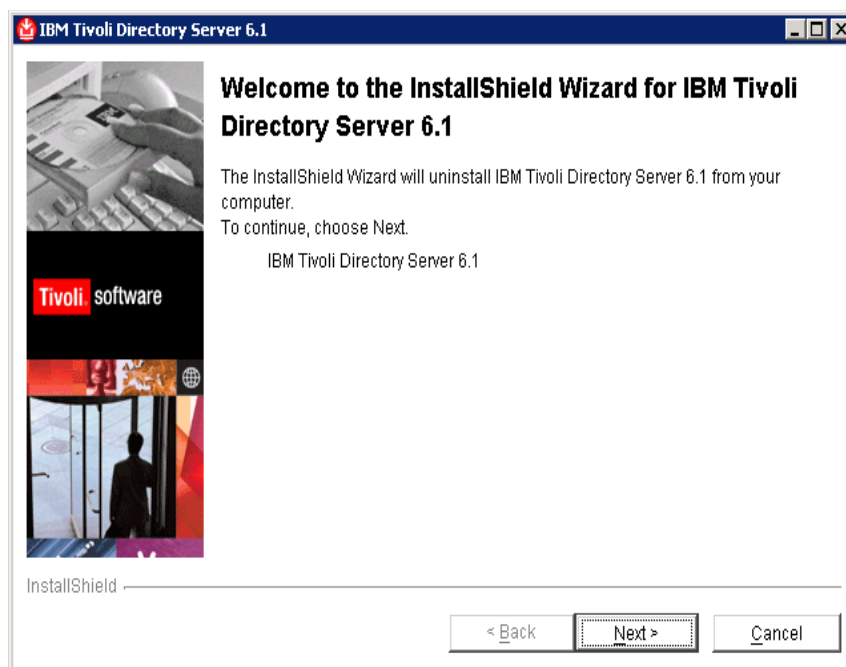
1. Stop the **IBM Tivoli** server by pressing the **CTRL+C** key on the startup console if the server is manually started.
2. Stop the **TDS Web Access Server** by pressing the **CTRL+C** key on the Web Access Server startup console.
3. Use the **Add/Remove Programs** from the Control Panel to remove the following:
  - Remove the **DB2 Enterprise Server Edition - TDSDB2**.
    - On the message box, click **Yes** to remove.



- The DB2 server uninstallation is started.

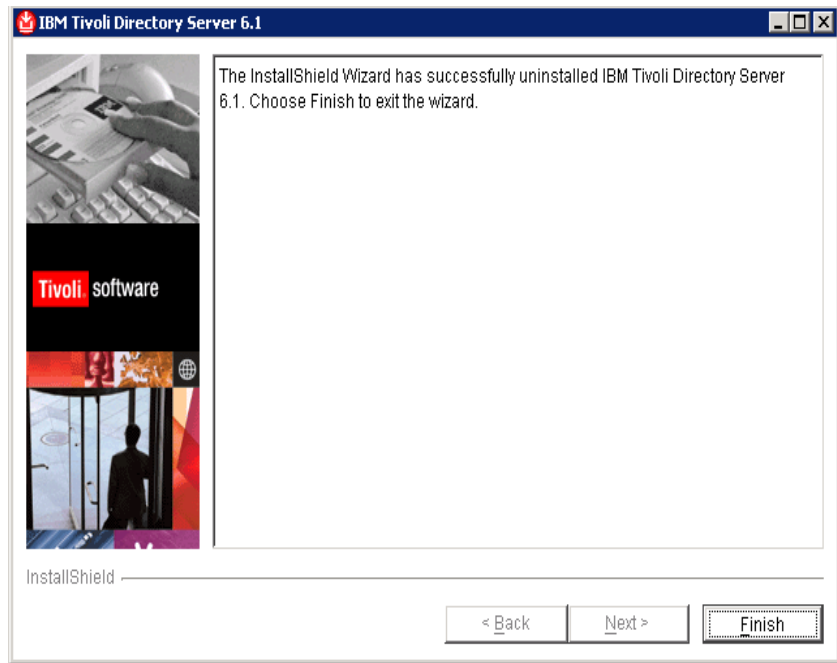


- Remove the IBM Tivoli Directory Server 6.1.
  - On the Wizard, click **Next** to continue uninstallation.



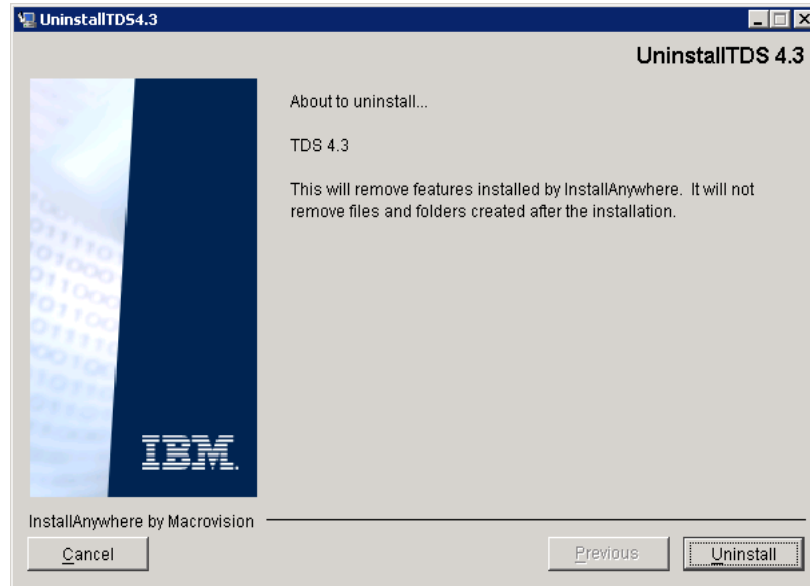
- By default, all the components are selected.
- Click **Next**. The selected components for uninstallation is listed.
- Click **Next**. The wizard would ask if you wish to the restart.
- Click **No, I will restart my computer at a later time**. The uninstallation is started.
- The **Uninstaller** removes the components one by one.

- Click **Finish** to exit the installer after successful uninstallation.



- Remove the Telelogic Directory Server.  
Restart the system before starting the uninstallation.  
You can also remove TDS by  
Double-clicking the **Uninstall TDS 4.3.exe** from the path  
<TDS\_Install\_Dir>/Uninstall TDS 4.3. The **Uninstall  
TDS 4.3** dialog box appears.

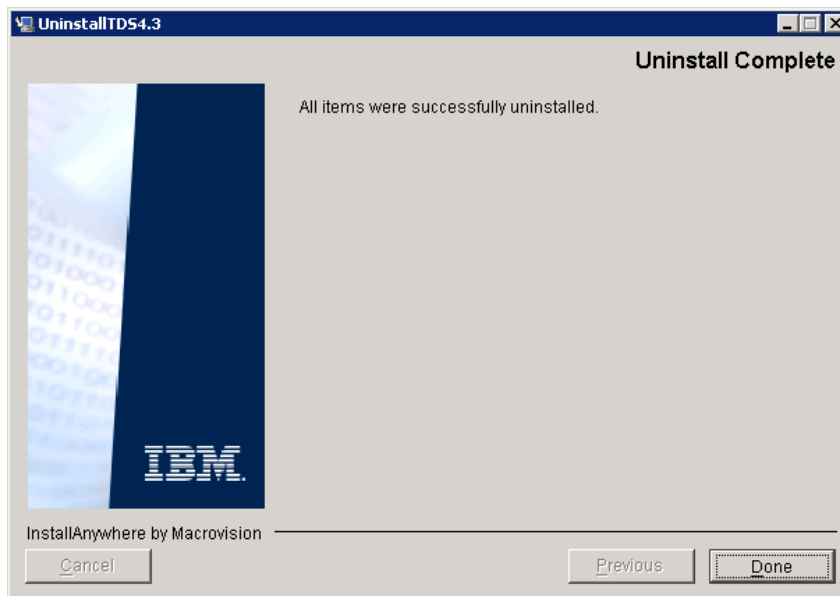
- Click **Uninstall** to remove the TDS.



- The **Uninstaller** removes the components one by one.
- After removing all the components successfully, the **Uninstall Complete** dialog box appears.



- 
- Click **Done** to exit the installer.





# 5

## Client Installation

Telelogic® Directory Administration™ (TDA) is a GUI based client application used to perform day-to-day administration tasks such as creating users, groups, roles, performing searches, migrating data, etc.

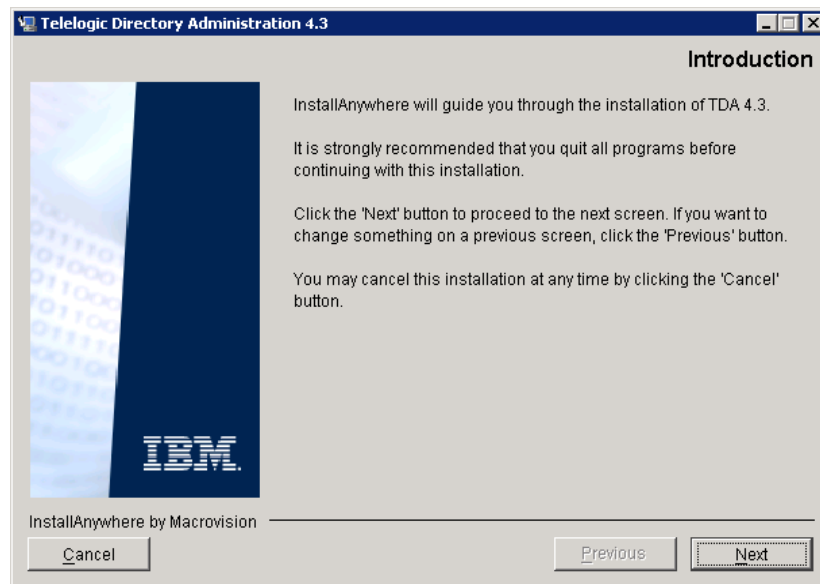
The TDA is available as desktop TDA and Web TDA. The Web TDA enables you to access the TDS using a browser.

### Installing the TDA

This chapter describes the steps required to install TDA. To start the installation, first unzip the TDA installer in a folder using the WinZip utility. Then, follow the installation procedure below.

To install TDA do the following:

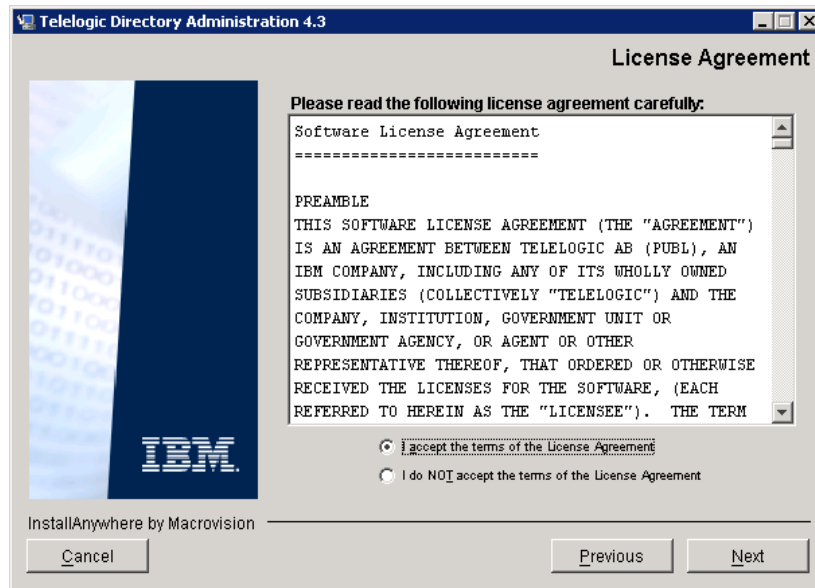
1. Open the <TDA Image>\Install folder and double-click the **TDA.exe**. The **Introduction** dialog box appears.



2. Click **Next**. The **License Agreement** dialog box appears.
3. You can also save the licence details in a document.

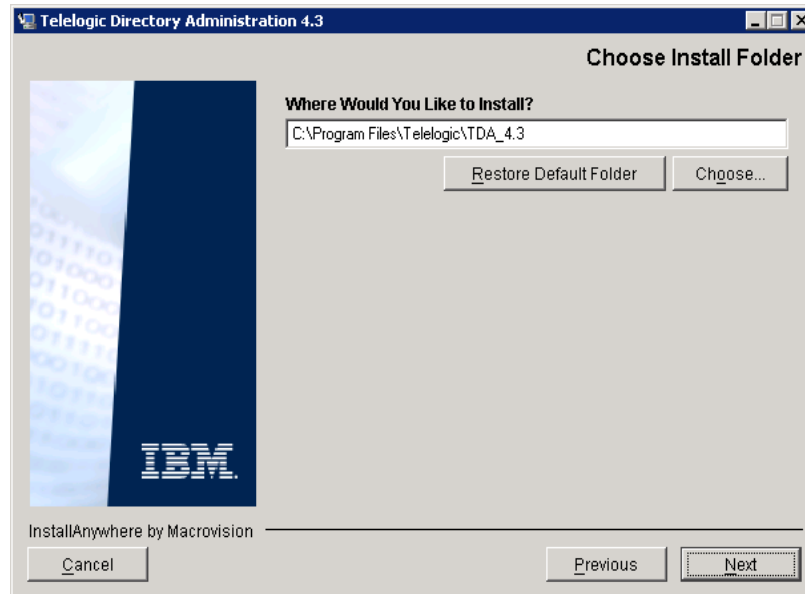
To copy the license information do the following:

- Right click on the license window and click **Select All**, and then click **Copy**.
  - Open any file, paste the license information and save the file.
4. Review and click **I accept the terms of the license agreement**.



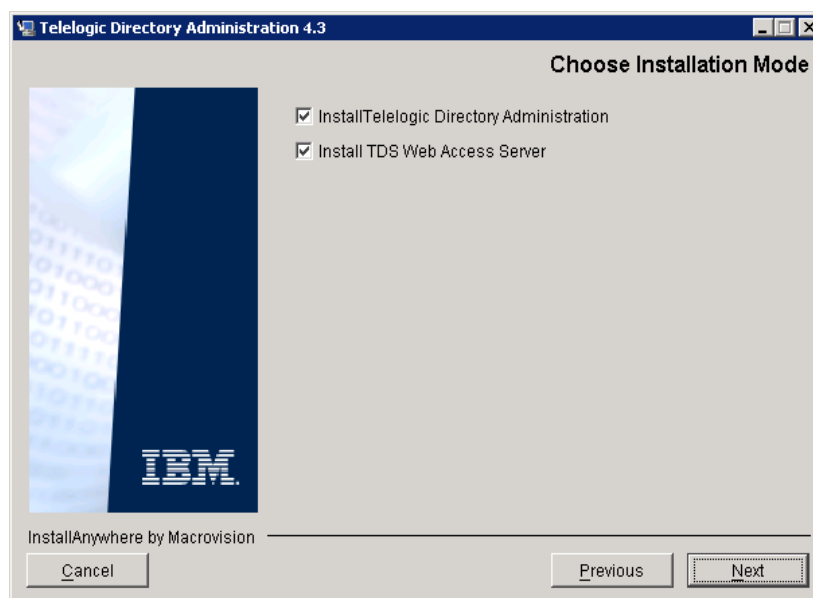
- 
5. Click **Next**. The **Choose Install Folder** dialog box appears.

You can use the default location provided by the installer or click **Choose** to specify a different location. You can also edit the path manually by clicking anywhere in the text box. To use the default location, click **Restore Default Folder**. This restores the default location provided by the installer.

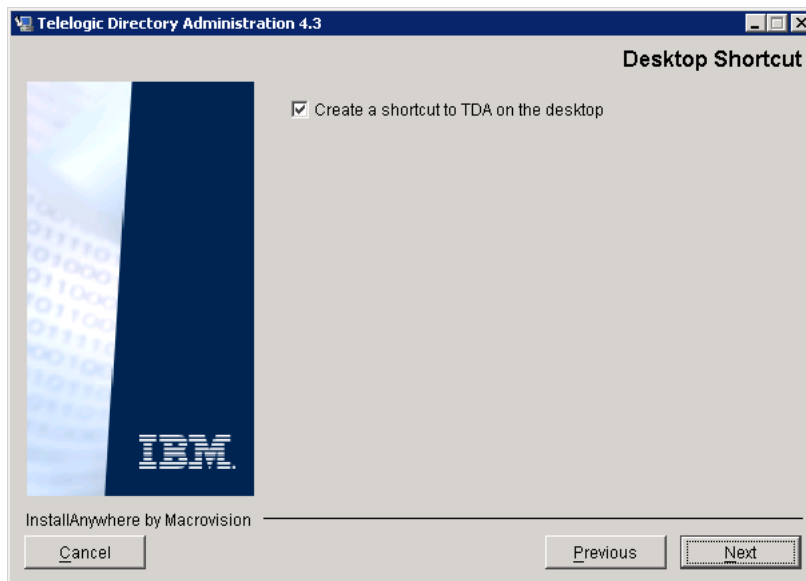


6. Click **Next**. The **Choose Installation Mode** dialog box appears. The following modes of installation are supported by TDS.
  - Install Telelogic Directory Administration
  - Install TDS Web Access Server

By default, both the modes are selected by the installer. You can deselect the mode if you want by clicking the check box provided against the mode.



- 
7. Click **Next**. The **Desktop Shortcut** dialog box appears. By default, the **Create a shortcut to TDA on the desktop** option is checked. Click to clear the check box if you do not want the shortcut to be created.



8. Click **Next**. The **Pre-Installation Summary** dialog box appears. This dialog box displays the installation summary.
9. Review the information and click **Install**.

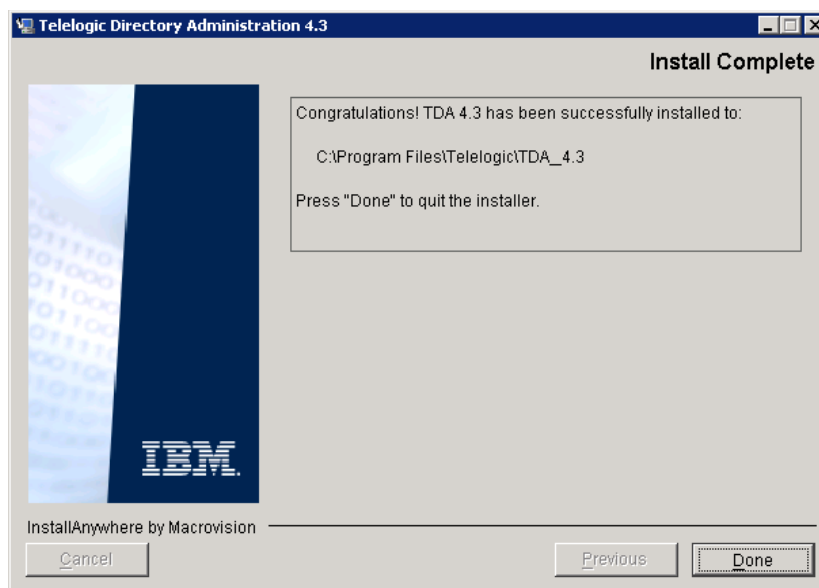
The **Install Complete** dialog box appears if the installation is successful.





---

10. Click **Done** to exit the installer.



**Note** After installing the TDA, **start** the Web server using the following command:  
`<TDS_Install_Dir\WebAccessServer\Start_TDAWebServer.bat>`



# 6

## Client Removal

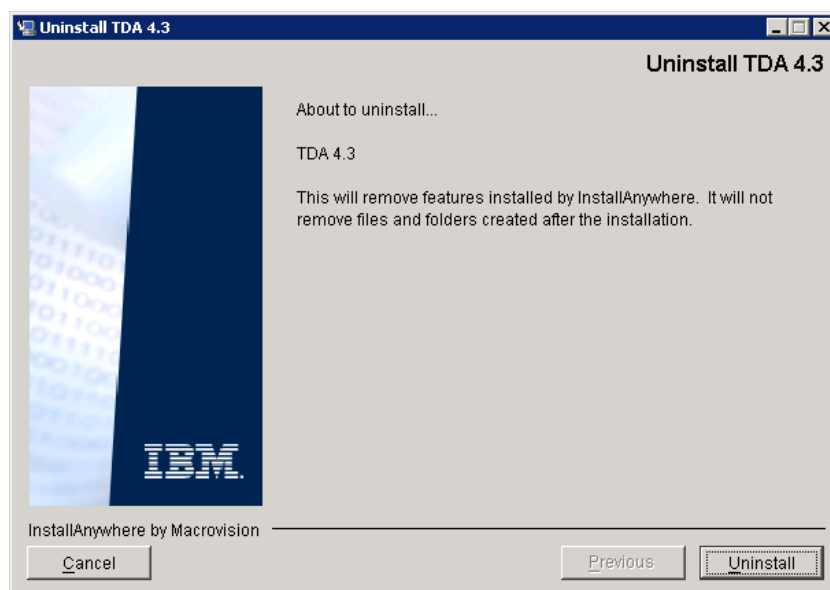
### Removing the TDA

This chapter describes the steps required to remove TDA.

To uninstall TDA, do the following:

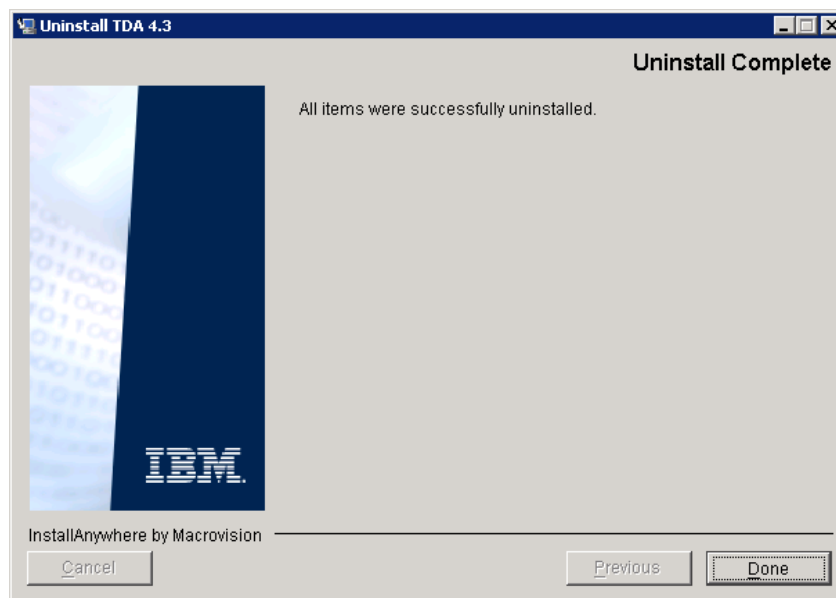
1. Stop the **TDS Web Access Server** by pressing the **CTRL+C** key on the Web Access Server startup console.
2. Remove TDA using one of the options:
  - Use the **Add/Remove Programs** from the Control Panel to remove the TDS.
  - Double-click **Uninstall TDA 4.3.exe** from the path `<TDA_Install_Dir>/Uninstall TDA 4.3`. The **Uninstall TDA 4.3** dialog box appears.

3. Click **Uninstall** to remove TDA.



4. The **Uninstaller** removes the components one by one. The **Uninstall Complete** dialog box appears if the uninstallation is successful.

- 
5. Click **Done** to exit the installer





# 7

## Launching TDA

This chapter describes how to launch the TDA application.

You can launch the desktop TDA that is installed on a client machine or the Web TDA from any machine by providing the appropriate URL. The Web TDA is supported on Internet Explorer and Mozilla browsers.

**Note** The TDA web server starts automatically during installation.

To start the desktop TDA, do one of the following:

1. Choose Start > All Programs > Telelogic > Telelogic Directory Administration 4.3 or double-click the desktop shortcut. The **TDS Login** dialog box appears.
2. On the **Login** dialog box, type the following details.

Field Name	Description
<b>URL</b>	The LDAP URL should include a valid server name and a port number that was given at the time of TDS installation. For example: <code>ldap://dirserv:1636</code> . To open the TDS in secure mode, you can include the letter "s" to the ldap URL (where the "s" refers to the secure port), followed by a valid server name and a port number. For example: <code>ldaps://dirserv:1636</code> .
<b>TDS Admin</b>	The admin user name for TDS. The admin user <i>tdsadmin</i> is set by the TDS installer.
<b>Password</b>	The admin password set at the time of TDS installation.

3. Click **Login**.

To start the TDA on a Web browser, do the following:

1. If the TDA web server is not started automatically, run the following command to **start** the web server.

```
<TDS_Install_Dir>\WebAccessServer\Start_TDAWebServer.bat
```

For example:

```
C:\Program Files\Telelogic\WebAccessServer\  
Start_TDAWebServer.bat
```

2. Open the browser and type the following URL  
`http://<hostname>:8080/webtda/tda.`

For example:

```
http://tdsserver:8080/webtda/tda
```

**Note** The <hostname> refers to the name of the server where the TDS is installed.

3. The **TDS Login** dialog box appears.
4. On the **Login** dialog box, type the details as mentioned in [step 2](#).
5. Click **Login**.



# 8

## Troubleshooting TDS

This chapter describes the possible problem and solutions for TDS users.

Problem	Solution
Installation fails with the message "Not enough room for a complete install."	Change the environment variable %TEMP% to point to the path where you have minimum of 1 GB space.
Client cannot locate the server.	Use the host name, such as <i>tdsserver</i> . Make sure the server is listed in the name service you are using such as DNS, and try the fully qualified domain name (for example, <i>tdsserver.example.com</i> ). Use the IP address for the host (for example, <i>192.168.2.60</i> ).
Installation fails with the message "server startup fails."	This can happen if the %TEMP% folder is not located on the installation drive. Do the following: <ol style="list-style-type: none"> <li>1. Start the directory server manually using the following command. <pre>C:\Program Files\Telelogic\TDS_4.3\IBM\ldap\V6.1\sbin\Start_TDS_Server.bat</pre></li> <li>2. Change the Tivoli Directory Services to be automatic.</li> </ol>
Reason for the server installation failure is not known. Cannot find the error log.	The IBM Tivoli Directory Server log files can be found in the following location: <pre>C:\Program Files\idsslapd-tdsinst\logs\ibmslapd.log</pre> The TDS log file <i>TDS_4.3_InstallLog.log</i> can be found at the root level of the installation folder: <pre>C:\Program Files\Telelogic\TDS_4.3\TDS_4.3_InstallLog.log</pre> Refer to additional log files under installation folder: <pre>C:\Program Files\Telelogic\TDS_4.3\logs</pre>
No entry found: MakeExecutableAction_zg_i a_sf.jar Status:ERROR in the TDS_4.3_InstallLog.log	Ignore this message.



## ***Terms and Concepts***

<b>Term</b>	<b>Definition</b>
LDAP	Lightweight Directory Access Protocol. Directory service protocol designed to run over TCP/IP and across multiple platforms.
OS authentication	Operating system authentication is the process of proving the identity of the client user to the Directory Server based on the operating system logon name.
SSL	Secure Sockets Layer. SSL is a software library establishing a secure connection between client and server.
TDS Client	A TDS client is a interface that requests services or information from a server.



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