

# **TM1 9.0 SP2 Windows Installation Help**

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## TM1 Installation Help

This document is a printed version of the online help available from the Applix Installation Wizard.

## **Welcome to the Applix Installation Wizard**

The Applix Installation Wizard installs Applix TM1 products on your computer.

This help system provides online assistance for the Applix TM1 Installation Wizard. While installing Applix TM1, you can click the **Help** button at the lower left corner of the Applix Installation Wizard for context-sensitive assistance.

Use the **Table of Contents**, **Index**, and **Search** tabs to navigate the help system and locate a particular topic.

## Before You Install

Before you install Applix TM1, you should complete the tasks described below.

### Upgrade Issues

- Prior to installing a new version of TM1 on a machine where TM1 has been previously installed, you must un-install the older version first.
- The <Applix\_Home>\Custom directory is not deleted when you un-install. This directory contains files and applications which you may have created or modified. If you are upgrading to a new version of TM1, copy the contents of this directory to a safe place on your hard disk, then delete this directory. After successfully installing the new version of TM1, you can restore the directory to its original location.
- If you are upgrading from TM1 Web 8.2.x to TM1 Web 9.0 and you want to retain your TM1 Web applications, you should first upgrade to 8.3 or 8.4 and run the Application Conversion utility before upgrading to 9.0.

The Application Conversion utility, and the upgrade process, is described in technical bulletin 001-TB-01-01-T-8.3, "Upgrading to TM1 8.3."

### Hardware and Software

- For a worksheet to determine required resources for your configuration, see the `configuration_planning_worksheet.xls` file on the installation CD. The configuration planning worksheet is also available on the Applix Web site.
- If you plan to run TM1 Web, install Microsoft's IIS web server.
- If you plan to run TM1 Web, install the Microsoft ASP.NET Framework 1.1 **AND** the .NET Framework 1.1 Service Pack 1.

You must explicitly register the 1.1 Framework after you install it by running the following from a command prompt:

```
C:\WINDOWS\Microsoft.NET\Framework\v1.1.4322>aspnet_regiis -i
```

(This command assumes that your drive is labelled "C" and that your Windows folder is named "WINDOWS". Substitute the appropriate drive and folder name if these assumptions are not correct for your environment.)

- If the .NET Framework is not installed *before* you install TM1 Web, the TM1 Excel Service will be disabled when you complete the TM1 Web installation. This service provides critical TM1 Web functionality, and you must complete the following steps to set the service Startup property to Automatic after you install the .NET Framework:
  1. Open the Windows Control Panel.
  2. Double-click **Administrative Tools**.
  3. Double-click **Services**.
  4. Double-click **TM1 Excel Service**.
  5. Change the Startup Type from Disabled to **Automatic**.
  6. Click **OK**.
- Additionally, if you plan to run TM1 Web you must install Microsoft © Excel 2003 or Excel 2003 on the same machine where the IIS web server is installed. If Excel 2002 or

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2003 is not present on the machine where the IIS web server is installed, the TM1 Web installation will fail.

- See *Upgrading Your Software* for information on steps to take when upgrading from a previous release of Applix software.

### **Documentation**

- Familiarize yourself with Applix terms and concepts.
- Read the TM1 documentation set, including the TM1 Clients Guide, TM1 Administrator's Guide, and the TM1 Web guide.
- Review this Installation help. This help contains all of the information you need to successfully install your Applix products.

### **License Codes**

Obtain your license codes from Applix.

### **Domain Account with Administrator Rights**

You must create a Windows domain account under which you will run the installation. This account must have administrator rights to the machine on which you are running the install.

**Applix TM1 Service Account**

Before you install TM1, Applix recommends that you create a single domain account for all your Windows-based Applix TM1 services. The account must have the following privileges on the local machine:

- Act as part of the operating system
- Bypass traverse checking
- Increase quotas
- Replace a process level token
- Log on as a service

The Applix installation program will enable and use these privileges during the installation process.

This account applies only to Windows-based services and agents. TM1 services installed on either a Solaris or HP/UX server always run as ROOT.

## Logging Installation Messages

The Applix Installation Wizard automatically logs all messages issued during installation. Logged messages provide you with a record of:

- installation options
- installation actions
- location of all files installed by Applix TM1
- error messages
- final installation status (successful/not successful)

The log file is named ApplixInstall.log. It is written to the directory identified by your **TEMP** user environment variable. To determine the location of this directory:

1. Open the Windows **Control Panel**.
2. Double-click **System**.
3. Click the **Advanced** tab.
4. Click **Environment Variables**
5. Find the **TEMP** variable in the list of user variables and note the location of the directory.



## Running the Applix Installation Wizard

### Choose a Language

Choose one of the following languages:

- English
- French
- German

When you choose a language during installation, you choose a language for the installation program *and* the language in which the installed Applix TM1 software runs.

After choosing a language, click **OK** to view the License Agreement.

## **Accept the License Agreement**

The Applix, Inc. Software License Agreement is a legal agreement that describes the obligations of Applix, Inc. (the licensor) and your rights (the licensee). Read this agreement in full before proceeding with the installation of Applix TM1 products.

Click **Yes** to accept the terms of the license agreement.

Click **No** to reject the terms of the agreement and exit the Applix Installation Wizard.

If you are installing TM1 on a 64-bit Windows system, click **Next** to choose components to install.

If you are installing anything other than 64-bit TM1, accept the terms of the license agreement and click **Next** to proceed to the Choose a Product screen.

## Choose a Product to Install

Choose one of the following products to install:

**TM1 Perspectives** - Use this add-in to Excel to create, analyze, and manage multi-dimensional business data stored on a local (personal) TM1 server. Perspectives lets you use the familiar and powerful features of Excel to perform complex analysis on data stored on the TM1 server.

**TM1** - Create, analyze, and manage multi-dimensional business data and objects stored on one or more TM1 servers. Manage security for all objects on TM1 servers and administer clients and groups that access the servers.

**TM1 Web** - Includes all components of TM1, and includes additional features that let you publish and access TM1 data through a standard web browser.

After choosing a product, click **Next** to continue with the TM1 installation.

## Installing TM1 Perspectives

### Setting the Installation Type and Installation Directory

The Installation Options screen of the Applix Installation Wizard lets you specify where you want to install TM1 and whether to perform a standard or custom installation.

#### Setting the Installation Directory

The default installation directory for Applix TM1 is C:\Program Files\Applix.

To install to a different directory, click **Change** and navigate to the directory.

#### Selecting an Installation Type

Select the type of installation you want to perform.

- |                 |   |
|-----------------|---|
| <b>Standard</b> | Choose this option to install your selected TM1 product on a single computer using default installation option values.                          |
| <b>Custom</b>   | Choose this option to install your selected TM1 product in a distributed environment or if you want to set your own installation option values. |

After selecting an installation directory and installation type, click **Next** to proceed to the next installation screen.

## Standard Installation

### Standard TM1 Perspectives Installation

A standard installation installs the following components. For a brief description of all components, see TM1 Perspectives Components.

#### Clients

TM1 Perspectives  
TM1 OLE DB Provider

#### Manuals

All current TM1 manuals in PDF format

#### Developer's Environment

TM1 API  
TM1 Java API

#### Servers

TM1 Admin Server  
TM1 Server (local)

A standard installation uses the following default values:

Item	Default Value
Admin Server port #	5495
TM1 server (local) port #	12345
Admin Server host name	Same as computer on which the installation is run
Sample data directory for TM1 Perspectives	C:\Program Files\Applix\Custom\TM1Data\Pdata
Excel's Edit Directly in Cell option	Disabled

After selecting to install **TM1 Perspectives** using the **Standard** installation type, click **Next** to proceed to the confirmation screen, where you begin the installation.

## **Custom Installation**

### **Custom TM1 Perspectives Installation**

A custom TM1 Perspectives installation allows you to select which TM1 components to install.

A custom installation also lets you enable or disable Excel's **Edit Directly in Cell** option.

After selecting to install **TM1 Perspectives** using the **Custom** installation type, click **Next** to proceed to the **Component Selection** screen, where you select the TM1 Perspectives components to install.

## Selecting Components to Install

The Component Selection screen of the Applix Installation Wizard lets you specify which components you want to include in your custom TM1 installation.

By default, all components are selected for installation. Components selected for installation display with a disk drive icon  next to the component name.

When you click the drop-down menu next to a component name, the following options are available.


**This feature will be installed on local hard drive.**

Select this option to include an individual component in the TM1 installation.

**This feature, and all its sub-features, will be installed on local hard drive.**

Select this option to include all components in a category for installation. For example, if you choose this option for the Clients category, all components listed under the category are included in the installation.

**This feature will not be available.**

Select this option to exclude a component from the TM1 installation. Components that are excluded from installation display with an  next to the component name.

The components available during installation vary by product.

After setting the installation directory and selecting components, click **Next** to proceed to the next installation screen.

## Configuring the TM1 Perspectives Client

When installing TM1 Perspectives you must specify values for the following client parameters. These parameters are written to the Tm1p.ini file.

<b>Disable Excel Edit in Cell Capability</b>	<p>Select the box to disable the Excel <b>Edit Directly in Cell</b> option. Applix recommends that you select this option, as it prevents accidental overwriting of formulas in slice worksheets.</p> <p>Clear the box to enable the Excel <b>Edit Directly in Cell</b> option.</p>
<b>Set TM1 to Autoload in Excel</b>	<p>Select this box to automatically load the TM1 add-in (Tm1p.xla) when Excel starts.</p> <p>Clear this box to require manual loading of the add-in when a user wants to use TM1 Perspectives.</p>
<b>Application Server Host</b>	<p>The name of the computer on which a TM1 Integra Application Server is available. This is required to use the <b>Publish to Web</b> feature of TM1.</p>
<b>Use TM1 HTTP Proxy Connector</b>	<p>Fill this check box if you want your TM1 client to connect to the TM1 server through the TM1 HTTP Proxy Connector.</p> <p>The TM1 HTTP Proxy Connector allows TM1 clients to connect to TM1 servers over the Web using HTTP.</p> <p>The TM1 HTTP Proxy Connector <i>does not</i> require the use of a VPN. When using the TM1 HTTP Proxy Connector to connect to TM1 servers, client behavior remains identical to that experienced when using TCP/IP to connect to TM1 servers.</p>
<b>HTTP Proxy Connector URL</b>	<p>The URL to the directory containing the TM1 HTTP Proxy Connector plug-in that manages TM1 client/server connections over the Web.</p> <p>For example, <a href="https://yourcompany.com/tm1HttpProxy/">https://yourcompany.com/tm1HttpProxy/</a></p>
<b>Use Proxy Server for HTTP Connector</b>	<p>Select this option if you must use a proxy server to access the Internet.</p>
<b>Proxy Server Host</b>	<p>If you use a proxy server to access the Internet, enter the proxy server host in this box.</p>



**Proxy Server Port**

If you use a proxy server to access the Internet, enter the port on which the proxy server is running in this box.

After configuring the Perspectives client, click **Next** to proceed to the confirmation screen, where you begin the installation.

### **Configuring Third Party Applications**

Some third party applications are necessary to extend the functionality of TM1. You can select which third part applications to install and configure these applications on the Third Party Applications screen.

**Print to PDF**

Select this option if you want to generate PDF versions of TM1 reports. GNU GhostScript will be installed in the <Applix\_Install\_Dir>\GhostScript directory.

If you select this option you must also select a currently installed printer to be used to generate PDF reports.

## Installing TM1

### Setting the Installation Type and Installation Directory

The Installation Options screen of the Applix Installation Wizard lets you specify where you want to install TM1 and whether to perform a standard or custom installation.

### Setting the Installation Directory

The default installation directory for Applix TM1 is C:\Program Files\Applix.

To install to a different directory, click **Change** and navigate to the directory.

### Selecting an Installation Type

Select the type of installation you want to perform.

<b>Standard</b>	Choose this option to install your selected TM1 product on a single computer using default installation option values.
<b>Custom</b>	Choose this option to install your selected TM1 product in a distributed environment or if you want to set your own installation option values.

Click a link below for details on standard or custom installation types for each TM1 product.

[Standard TM1 Installation](#)

[Custom TM1 Installation](#)

[Standard TM1 Web Installation](#)

[Custom TM1 Web installation](#)

[Standard TM1 Perspectives Installation](#)

[Custom TM1 Perspectives Installation](#)

After selecting an installation directory and installation type, click **Next** to proceed to the next installation screen.

## Standard Installation

### Standard TM1 Installation

A standard installation installs the following components. For a brief description of all components, see TM1 Components.

#### Clients

TM1 Client  
TM1 Perspectives  
TM1 OLE DB Provider

#### Manuals

All current TM1 manuals in PDF format

#### Developer's Environment

TM1 Architect  
TM1 API  
TM1 Java API

#### Servers

ODBC Gateway  
TM1 Admin Server  
TM1 Server

A standard installation uses the following default values:

Item	Default Value
axnet port #	5492
Admin Server port #	5495
TM1 server port #	12345
TM1 server name	SData
Admin Server host name	Same as computer on which the installation is run
Sample data directory for TM1 server	C:\Program Files\Applix\Custom\TM1Data\PlanSamp
Sample data directory for TM1 Perspectives/Architect	C:\Program Files\Applix\Custom\TM1Data\Pdata
Security mode	<p>A standard installation uses TM1 Authentication, where users must respond to a prompt for user name/password when accessing TM1 components.</p> <p>A custom installation gives you the option of using Integrated Login, which allows TM1 users to automatic log in to TM1 components using their Windows login us name and password, or LDAP Authentication.</p>

Excel's **Edit Directly in Cell** option      Disabled

After selecting to install **TM1** using the **Standard** installation type, click **Next** to set the username and password for Applix services.

### Setting Username and Password for Applix Services

On Windows, all Applix TM1 services must run under a single domain account. The Applix installation program will configure the services to run under the domain account you specify.

- Username** Specify a domain account using the syntax **domain\username**. For example:  
applix\nolan  
**Warning:** Running Applix services under the 'local system account' is not recommended. Windows places restrictions on this account that may cause the Applix software to operate incorrectly.
- Password** Enter the password for the domain account that logs in and starts services.
- Re-enter password** Re-enter your password to confirm correct entry.

If you are installing Applix TM1 in a distributed environment, where some components reside on one machine and some components on another, you must enter the same user name and password each time you run the installation.

After setting the username and password, click **Next** to proceed to the next installation screen.

## Custom Installation

### Custom TM1 Installation

A custom TM1 installation allows you to select which TM1 components to install.

A custom installation also lets you specify whether or not to use Integrated Login, and allows you to set parameters such as server names and port numbers.

After selecting to install **TM1** using the **Custom** installation type, click **Next** to proceed to the Component Selection screen, where you select the TM1 components to install.

## Selecting Components to Install

The Component Selection screen of the Applix Installation Wizard lets you specify which components you want to include in your custom TM1 installation.

By default, all components are selected for installation. Components selected for installation display with a disk drive icon  next to the component name.

When you click the drop-down menu next to a component name, the following options are available.


**This feature will be installed on local hard drive.**

Select this option to include an individual component in the TM1 installation.

**This feature, and all its sub-features, will be installed on local hard drive.**

Select this option to include all components in a category for installation. For example, if you choose this option for the Clients category, all components listed under the category are included in the installation.

**This feature will not be available.**

Select this option to exclude a component from the TM1 installation. Components that are excluded from installation display with an  next to the component name.

The components available during installation vary by product.

After setting the installation directory and selecting components, click **Next** to proceed to the next installation screen.



### Configuring TCP/IP Ports for TM1

Specify the TCP/IP port number for the following programs:

<b>Axnet launch program TCP/IP port number</b>	<p>Axnet is the server process that launches ODBC gateways as requested by TM1. By default, Applix assigns port number 5492 to this process.</p> <p>If this port is used by another process on this machine, assign a different number. If you are doing multi-machine installations, make sure that you enter the same axnet port number for each installation.</p>
<b>TM1 Admin Host port number</b>	<p>A read-only field. The TM1 Admin Host port number, 5495, is the port number on which the Admin Server on this machine listens for TM1 client requests.</p>

After configuring the TCP/IP ports, click **Next** to set the username and password for TM1 services.

### Setting Username and Password for Applix Services

On Windows, all Applix TM1 services must run under a single domain account. The Applix installation program will configure the services to run under the domain account you specify.

- Username** Specify a domain account using the syntax **domain\username**. For example:  
applix\nolan  
**Warning:** Running Applix services under the 'local system account' is not recommended. Windows places restrictions on this account that may cause the Applix software to operate incorrectly.
- Password** Enter the password for the domain account that logs in and starts services.
- Re-enter password** Re-enter your password to confirm correct entry.

If you are installing Applix TM1 in a distributed environment, where some components reside on one machine and some components on another, you must enter the same user name and password each time you run the installation.

After setting the username and password, click **Next** to proceed to the next installation screen.

## Setting a Login Authentication Mode

You can select one of three authentication modes for TM1. Select the check box next to the mode you want to use.

<b>Integrated Login</b>	<p>Integrated Login allows TM1 users to automatically log in to TM1 components using their Windows login user name and password.</p> <p>If you choose to use Integrated Login, it runs in "mixed" mode by default. <a href="#">Click here for a description of "mixed" mode and other Integrated Login modes.</a></p>
<b>TM1 Authentication</b>	<p>TM1 Authentication requires users to reply to a TM1 prompt for a username and password when logging in to a TM1 component.</p> <p>When this authentication mode is used, usernames and passwords are stored on a TM1 server.</p>
<b>LDAP Authentication</b>	<p>LDAP Authentication allows you to centralize all your security information on a single LDAP server. When a TM1 user attempts to log in to TM1, his user name and password are validated against the information stored on your LDAP server.</p> <p>If you choose to use LDAP Authentication, you must also supply values for the following parameters.</p>
<b>LDAP Host</b>	<p>The domain name or dotted string representation of the IP address of the LDAP server host.</p> <p>If you do not enter an LDAP server host, 'localhost' is used by default.</p>
<b>LDAP Port</b>	<p>The port on which the LDAP server is running.</p> <p>If a port is not specified, 389 (the standard LDAP default) is used.</p>

**LDAP Username** An LDAP distinguished name. For example, **uid=neill,ou=people,o=applix.com**.

The user specified by the LDAP Username is used by the TM1 server to log into LDAP and validate login parameters passed by TM1 users.

By default, LDAP Username and LDAP Password are blank. If your LDAP server is configured to support anonymous login AND an anonymous user can query against the LDAP directory, you can leave these values blank. If either of these requirements are not met, edit these fields to provide the username and password of an LDAP user who can query against the LDAP directory.

**LDAP Password** A valid password for the distinguished name identified by the LDAP Username.

**LDAP Search Base** The node in the LDAP tree at which the search for the TM1 user being validated begins.

For example, if the LDAP distinguished name for an individual TM1 user is in the form **uid=nolan,ou=people,o=applix.com**, then the LDAP search base would be **ou=people,o=applix.com**.

Generally, the search base is one level above the node containing distinguished names for TM1 users in the LDAP directory hierarchy.

**LDAP Search Field** The name of the LDAP attribute that is expected to contain the name of the TM1 user being validated.

If you do not specify an attribute, **cn** (common name) is the default.

**NOTE:** You cannot change your TM1 authentication mode by modifying your TM1 installation. You must either

- completely uninstall and then reinstall TM1 to change the authentication mode setting
- make the appropriate changes to security parameters in the **Tm1s.cfg** (server configuration) and **Tm1p.ini** (client initialization) files.

For further details on login authentication modes, including details on server and client configuration parameters, see the *TM1 Security* guide available at <http://www.applix.com/support/>. Click the link titled **Download - Docs** to access links to Applix documentation.

After setting the Login Authentication mode, click **Next** to proceed to the next installation screen.

## Configuring the TM1 Server

When installing a TM1 server you must specify values for the following server parameters. These parameters are written to the Tm1s.cfg file, which resides in the TM1 data directory.

If you install multiple TM1 servers, you must assign a unique name and port number to each server. You can install up to three TM1 servers

<b>Choose Database</b>	<p>Select the database you want to install with the TM1 server. There are three options:</p> <p><b>Planning Sample Data</b> - Installs the PlanSamp data directory, which contains Planning Manager sample data and templates. This is the default data directory used during installation.</p> <p><b>Sample Data</b> - Installs the SData data directory, as well as the TI_Data and Rules_guide_data data directories. The TM1 documentation makes extensive reference to these data directories. Though all three data directories are installed when you choose the <b>Sample Data</b> option, the TM1 server is configured to use the SData directory.</p> <p><b>Custom</b> - Installs an empty data directory where you can create your own custom TM1 data.</p> <p>Click <b>Apply</b> after you select a database to set the server name and data directory path for the selected database.</p>
<b>Server Name</b>	The name you want to use to identify the TM1 server.
<b>Admin Server Host Machine Name</b>	The name of a computer on which a TM1 Admin Server is installed. When the TM1 server is running, it registers itself on this Admin Server. TM1 clients connect to the Admin Server to collect information about TM1 servers available on a network.
<b>Port Number</b>	The port on which the TM1 server runs. This parameter is used to distinguish multiple TM1 servers running on the same computer. Valid port values fall between 5000 and 49151. The default is 12345.
<b>Change Data Directory</b>	Click to change the data directory for the server you are installing. The default data directory is set based upon your <b>Choose Database</b> option selection.
<b>Configure Another TM1 Server</b>	Fill this check box if you want to configure another TM1. If this box is checked, you will have an opportunity to complete a new TM1 Server Configuration screen after you click <b>Next</b> .

After configuring the TM1 Server, click **Next** to proceed to the next installation screen.

## Configuring TM1 Clients

When installing one or more TM1 clients you must specify values for the following client parameters. These parameters are written to the Tm1p.ini file.

<b>Admin Server Host Machine Name</b>	The name of a computer on which a TM1 Admin Server is installed. When the TM1 server is running, it registers itself on this Admin Server. TM1 clients connect to the Admin Server to collect information about TM1 servers available on a network.
<b>Disable Excel Edit in Cell Capability</b>	Select the box to disable the Excel <b>Edit Directly in Cell</b> option. Applix recommends that you select this option, as it prevents accidental overwriting of formulas in slice worksheets.  Clear the box to enable the Excel <b>Edit Directly in Cell</b> option.
<b>Set TM1 to Autoload in Excel</b>	Select this box to automatically load the TM1 add-in (Tm1p.xla) when Excel starts.  Clear this box to require manual loading of the add-in when a user wants to use TM1 Perspectives.
<b>Use Integrated Login</b>	Select the box to enable Integrated Login for the client.  Integrated Login allows you to log in to TM1 components using your Windows user name and password, without the need to complete a login dialog box.  Clear the box to disable Integrated Login.  <b>NOTE:</b> Consult with your TM1 administrator to determine how Integrated Login is implemented on your system. TM1 servers/components can be configured to refuse connections from clients that do not use Integrated Login. If servers/components on your system are configured this way, you <i>must</i> use Integrated Login to access the components.
<b>Application Server host machine name</b>	The name of the computer on which a TM1 Integra Application Server is available. This is required to use the <b>Publish to Web</b> feature of TM1.
<b>Use TM1 HTTP Proxy Connector</b>	Fill this check box if you want your TM1 client to connect to the TM1 server through the TM1 HTTP Proxy Connector.  The TM1 HTTP Proxy Connector allows TM1 clients to connect to TM1 servers over the Web using HTTP.

The TM1 HTTP Proxy Connector *does not* require the use of a VPN. When using the TM1 HTTP Proxy Connector to connect to TM1 servers, client behavior remains identical to that experienced when using TCP/IP to connect to TM1 servers.

**NOTE:** If you are not sure if you want to use the HTTP Proxy Connector, or if you are not sure of the correct HTTP Proxy Connector URL, do not fill this check box. You can enable the HTTP Proxy Connector and set the URL after installation in the TM1 Options dialog box.

**HTTP Proxy Connector URL**

The URL to the directory containing the TM1 HTTP Proxy Connector plug-in that manages TM1 client/server connections over the Web.

For example,  
<https://yourcompany.com/tm1HttpProxy/>.

Consult with your TM1 system administrator for the correct URL.

**Use Proxy Server for HTTP Connector**

Select this option if you must use a proxy server to access the Internet.

**Proxy Server Host**

If you use a proxy server to access the Internet, enter the proxy server host in this box.

**Proxy Server Port**

If you use a proxy server to access the Internet, enter the port on which the proxy server is running in this box.

After configuring the clients, click **Next** to proceed to the next installation screen.

## Configuring the TM1 HTTP Proxy Connector

The TM1 HTTP Proxy Connector allows TM1 clients to connect to TM1 servers over the web using HTTP. The HTTP Proxy Connector does not require a VPN, and client behavior when accessing servers via HTTP is identical to the behavior when accessing TM1 servers via TCP/IP. Further details on the HTTP Proxy Connector are available in the *TM1 Clients Guide* and the *TM1 Administrator's Guide*.

The TM1 HTTP Proxy Connector can run on Microsoft IIS, Apache Tomcat, and J2EE-compliant Web servers.

Tomcat and other J2EE servers use a servlet to deliver HTTP connectivity, while IIS uses a .dll.

You must choose to install the HTTP Proxy Connector that is appropriate for the web server you use.

To install the TM1 HTTP Proxy Connector servlet for Apache Tomcat or another J2EE-compliant Web server:

1. Select the **JSP** option.

The default installation directory is C:\Tomcat\webapps.

**IMPORTANT:** For Apache Tomcat, the TM1P HTTP Proxy Connector must be installed in the \webapps directory of your web server. The servlet is initially installed as a web archive (tm1HttpProxy.war). The first time the web server starts after the archive is installed, the archive is automatically extracted to the web server's \webapps\tm1HttpProxy\ directory.

For BEA WebLogic, the TM1P HTTP Proxy Connector must be installed in the \config\<domain\_name>\applications\ directory of your web server. The servlet is initially installed as a web archive (tm1HttpProxy.war), which you must deploy. After deployment, the archive is extracted to the web server's \config\<domain\_name>\applications\tm1HttpProxy\tm1HttpProxy\ directory.

2. Click **Change** and navigate to the appropriate directory of your web server.

To install the TM1 HTTP Proxy Connector .dll for IIS:

1. Select the **ASP** option.

The default installation directory is C:\inetpub\wwwroot\tm1httpproxy\.

During installation, TM1 creates a virtual directory on the web server (named TM1HttpProxy by default) that points to the directory where you install tm1HttpProxy.dll. The default page of the virtual directory must point to tm1HttpProxy.dll. The virtual directory needs to have permission to execute scripts and executables.

2. To install to a different directory, click **Change** and navigate to the new directory.

After specifying which HTTP Proxy Connector to install, click **Next** to proceed to the next installation screen.



## **Configuring Third Party Applications**

Some third party applications are necessary to extend the functionality of TM1. You can select which third part applications to install and configure these applications on the Third Party Applications screen.

### **Print to PDF**

Select this option if you want to generate PDF versions of TM1 reports. GNU GhostScript will be installed in the <Applix\_Install\_Dir>\GhostScript directory.

If you select this option you must also select a currently installed printer to be used to generate PDF reports.

## Installing TM1 Web

### Setting the Installation Type and Installation Directory

The Installation Options screen of the Applix Installation Wizard lets you specify where you want to install TM1 and whether to perform a standard or custom installation.

### Setting the Installation Directory

The default installation directory for Applix TM1 is C:\Program Files\Applix.

To install to a different directory, click **Change** and navigate to the directory.

### Selecting an Installation Type

Select the type of installation you want to perform.

<b>Standard</b>	Choose this option to install your selected TM1 product on a single computer using default installation option values.
<b>Custom</b>	Choose this option to install your selected TM1 product in a distributed environment or if you want to set your own installation option values.

After selecting an installation directory and installation type, click **Next** to proceed to the next installation screen.

## Standard Installation

### Standard TM1 Web Installation

When performing a standard TM1 Web installation, the pages and scripts used to deliver data through TM1 Web are installed in the directory you specify when configuring web components during the installation process.

**NOTE:** Microsoft Excel must already be licensed and activated on the server on which you are installing TM1 Web. If Excel is not licensed and activated, the TM1 Web installation will fail.

During installation, TM1 checks to see if the Microsoft .NET Framework 1.1 is installed on your computer. The .NET framework is required for Applix TM1 Web. If the framework is not present, TM1 automatically installs it.

A standard installation installs the following components. For a brief description of all components, see TM1 Web Components.

#### Clients

- TM1 Client
- TM1 Perspectives
- TM1 OLE DB Provider

#### Manuals

All current TM1 manuals in PDF format

#### Developer's Environment

- TM1 Architect
- TM1 API
- TM1 Java API

#### Servers

- TM1 Admin Server
- TM1 Server
- TM1 Web Components (ASP script files and TM1ExcelService.exe)

#### Other Items

ASPNET

A standard installation uses the following default values:

Item	Default Value
axnet port #	5492
Admin Server port #	5495
TM1 server port #	12345
TM1 server name	Sdata
Admin Server host name	Same as computer on which the installation is run

Sample data directory for TM1 server	C:\Program Files\Applix\Custom\TM1Data\PlanSamp
Sample data directory for TM1 Perspectives/Architect	C:\Program Files\Applix\Custom\TM1Data\pdata
Security mode	<p>A standard installation uses TM1 Authentication, where users must respond to a prompt for user name/password when accessing TM1 components.</p> <p>A custom installation gives you the option of using Integrated Login, which allows TM1 users to automatically log in to TM1 components using their Windows login user name and password.</p>
Excel's <b>Edit Directly in Cell</b> option	Disabled

Choose **TM1 Web** using the **Standard** installation type. Then, click **Next** to set the username and password for Applix services.

## Setting Username and Password for Applix Services

On Windows, all Applix TM1 services must run under a single domain account. The Applix installation program will configure the services to run under the domain account you specify.

- Username** Specify a domain account using the syntax **domain\username**. For example:  
applix\nolan  
**Warning:** Running Applix services under the 'local system account' is not recommended. Windows places restrictions on this account that may cause the Applix software to operate incorrectly.
- Password** Enter the password for the domain account that logs in and starts services.
- Re-enter password** Re-enter your password to confirm correct entry.

If you are installing Applix TM1 in a distributed environment, where some components reside on one machine and some components on another, you must enter the same user name and password each time you run the installation.

After setting the username and password, click **Next** to proceed to the next installation screen.

## Configuring Web Components

Applix TM1 Web is delivered through Active Server Pages (ASP) and is supported only on Microsoft IIS.

The default installation directory for the TM1Web ASP files is C:\inetpub\wwwroot\TM1Web\. To install to a different directory, click **Change** and navigate to the new directory.

**Note:** The Windows permissions on the directory into which you install the Web components must be set to **Everyone**. If the Windows permissions on this directory are restricted, the TM1 Web client may not be accessible to all users.

When you install TM1 Web, Applix installs Dundas Charts © technology. Dundas Charts © provides the charting functionality of TM1 Web. Dundas Charts © technology is delivered through two DLLs that are installed on your IIS web server:

- C:\inetpub\wwwroot\TM1Web\bin\DundasWebChart.dll
- C:\inetpub\wwwroot\TM1Web\DundasWinChart\DundasWinChart.dll

After specifying the TM1 Web directory, click **Next** to proceed to the next installation screen. If prompted to shut down IIS, click **OK**.

## Configuring the TM1 HTTP Proxy Connector

The TM1 HTTP Proxy Connector allows TM1 clients to connect to TM1 servers over the web using HTTP. The HTTP Proxy Connector does not require a VPN, and client behavior when accessing servers via HTTP is identical to the behavior when accessing TM1 servers via TCP/IP. Further details on the HTTP Proxy Connector are available in the *TM1 Clients Guide* and the *TM1 Administrator's Guide*.

The TM1 HTTP Proxy Connector can run on Microsoft IIS, Apache Tomcat, and J2EE-compliant Web servers.

Tomcat and other J2EE servers use a servlet to deliver HTTP connectivity, while IIS uses a .dll.

You must choose to install the HTTP Proxy Connector that is appropriate for the web server you use.

To install the TM1 HTTP Proxy Connector servlet for Apache Tomcat or another J2EE-compliant Web server:

1. Select the **JSP** option.

The default installation directory is C:\Tomcat\webapps.

**IMPORTANT:** For Apache Tomcat, the TM1P HTTP Proxy Connector must be installed in the \webapps directory of your web server. The servlet is initially installed as a web archive (tm1HttpProxy.war). The first time the web server starts after the archive is installed, the archive is automatically extracted to the web server's \webapps\tm1HttpProxy\ directory.

For BEA WebLogic, the TM1P HTTP Proxy Connector must be installed in the \config\

2. Click **Change** and navigate to the appropriate directory of your web server.

To install the TM1 HTTP Proxy Connector .dll for IIS:

1. Select the **ASP** option.

The default installation directory is C:\inetpub\wwwroot\tm1httpproxy\.

During installation, TM1 creates a virtual directory on the web server (named TM1HttpProxy by default) that points to the directory where you install tm1HttpProxy.dll. The default page of the virtual directory must point to tm1HttpProxy.dll. The virtual directory needs to have permission to execute scripts and executables.

2. To install to a different directory, click **Change** and navigate to the new directory.

After specifying which HTTP Proxy Connector to install, click **Next** to proceed to the next installation screen.

## Custom Installation

### Custom TM1 Web Installation

A custom TM1 Web installation allows you to select which TM1 Web components to install.

A custom installation also lets you specify whether or not to use Integrated Login, and allows you to set parameters such as server names and port numbers.

**NOTE:** Microsoft Excel 2003 must already be installed on the server on which you are installing TM1 Web. If Excel is not installed, the TM1 Web installation will fail.


**NOTE:** To ensure that users can generate PDF reports from TM1 Web you must install one of the TM1 clients (Architect, Perspectives, or Client) along with the TM1 Web components when you perform a custom TM1 Web installation. The Export to PDF functionality in TM1 Web is provided through the TM1 client.

After selecting to install **TM1 Web** using the **Custom** installation type, click **Next** to proceed to the Component Selection screen, where you select the TM1 Web components to install.



## Selecting Components to Install

The Component Selection screen of the Applix Installation Wizard lets you specify which components you want to include in your custom TM1 installation.

By default, all components are selected for installation. Components selected for installation display with a disk drive icon  next to the component name.

When you click the drop-down menu next to a component name, the following options are available.


**This feature will be installed on local hard drive.**

Select this option to include an individual component in the TM1 installation.

**This feature, and all its sub-features, will be installed on local hard drive.**

Select this option to include all components in a category for installation. For example, if you choose this option for the Clients category, all components listed under the category are included in the installation.

**This feature will not be available.**

Select this option to exclude a component from the TM1 installation. Components that are excluded from installation display with an  next to the component name.

The components available during installation vary by product. For details on the components available for each product, click the links below.

[TM1 components](#)

[TM1 Web components](#)

[TM1 Perspectives components](#)

After setting the installation directory and selecting components, click **Next** to proceed to the next installation screen.

### **Configuring TCP/IP Ports for TM1 Web**

Specify the TCP/IP port number for the following programs when installing TM1 Web:

<b>Axnet</b>	The server process that launches ODBC gateways as requested by TM1. By default, Applix assigns port number 5492. If this number is used by another process on this machine, assign a different number. If you are doing multi-machine installations, make sure that you enter the same axnet port number for each installation.
<b>TM1 Admin Host</b>	A read-only field. The TM1 Admin Host port number, 5495, is the port number on which the Admin Server on this machine listens for TM1 client requests.

After configuring the TCP/IP ports, click **Next** to set the username and password for Applix services.

### Setting Username and Password for Applix Services

On Windows, all Applix TM1 services must run under a single domain account. The Applix installation program will configure the services to run under the domain account you specify.

- Username** Specify a domain account using the syntax **domain\username**. For example:  
applix\nolan  
**Warning:** Running Applix services under the 'local system account' is not recommended. Windows places restrictions on this account that may cause the Applix software to operate incorrectly.
- Password** Enter the password for the domain account that logs in and starts services.
- Re-enter password** Re-enter your password to confirm correct entry.

If you are installing Applix TM1 in a distributed environment, where some components reside on one machine and some components on another, you must enter the same user name and password each time you run the installation.

After setting the username and password, click **Next** to proceed to the next installation screen.

## Setting a Login Authentication Mode

You can select one of three authentication modes for TM1. Select the check box next to the mode you want to use.

<b>Integrated Login</b>	<p>Integrated Login allows TM1 users to automatically log in to TM1 components using their Windows login user name and password.</p> <p>If you choose to use Integrated Login, it runs in "mixed" mode by default. <a href="#">Click here for a description of "mixed" mode and other Integrated Login modes.</a></p>
<b>TM1 Authentication</b>	<p>TM1 Authentication requires users to reply to a TM1 prompt for a username and password when logging in to a TM1 component.</p> <p>When this authentication mode is used, usernames and passwords are stored on a TM1 server.</p>
<b>LDAP Authentication</b>	<p>LDAP Authentication allows you to centralize all your security information on a single LDAP server. When a TM1 user attempts to log in to TM1, his user name and password are validated against the information stored on your LDAP server.</p> <p>If you choose to use LDAP Authentication, you must also supply values for the following parameters.</p>
<b>LDAP Host</b>	<p>The domain name or dotted string representation of the IP address of the LDAP server host.</p> <p>If you do not enter an LDAP server host, 'localhost' is used by default.</p>
<b>LDAP Port</b>	<p>The port on which the LDAP server is running.</p> <p>If a port is not specified, 389 (the standard LDAP default) is used.</p>

**LDAP Username** An LDAP distinguished name. For example, `uid=neill,ou=people,o=applix.com`.

The user specified by the LDAP Username is used by the TM1 server to log into LDAP and validate login parameters passed by TM1 users.

By default, LDAP Username and LDAP Password are blank. If your LDAP server is configured to support anonymous login AND an anonymous user can query against the LDAP directory, you can leave these values blank. If either of these requirements are not met, edit these fields to provide the username and password of an LDAP user who can query against the LDAP directory.

**LDAP Password** A valid password for the distinguished name identified by the LDAP Username.

**LDAP Search Base** The node in the LDAP tree at which the search for the TM1 user being validated begins.

For example, if the LDAP distinguished name for an individual TM1 user is in the form `uid=nolan,ou=people,o=applix.com`, then the LDAP search base would be `ou=people,o=applix.com`.

Generally, the search base is one level above the node containing distinguished names for TM1 users in the LDAP directory hierarchy.

**LDAP Search Field** The name of the LDAP attribute that is expected to contain the name of the TM1 user being validated.

If you do not specify an attribute, `cn` (common name) is the default.

**NOTE:** You cannot change your TM1 authentication mode by modifying your TM1 installation. You must either

- completely uninstall and then reinstall TM1 to change the authentication mode setting
- make the appropriate changes to security parameters in the `Tm1s.cfg` (server configuration) and `Tm1p.ini` (client initialization) files.

For further details on login authentication modes, including details on server and client configuration parameters, see the *TM1 Security* guide available at <http://www.applix.com/support/>. Click the link titled **Download - Docs** to access links to Applix documentation.

After setting the Login Authentication mode, click **Next** to proceed to the next installation screen.

### **Configuring the Application Server for TM1Web**

The Application Server Configuration screen lets you specify the TM1 Server and Admin Server used by TM1Web to manage security.

<b>Admin Server Host machine name</b>	The name of the computer on which the above TM1 server registers with an Admin Server.
<b>TM1 Server Name</b>	The name of the TM1 server that contains security settings for your TM1Web installation.

## Configuring the TM1 Server

When installing a TM1 server you must specify values for the following server parameters. These parameters are written to the Tm1s.cfg file, which resides in the TM1 data directory.

If you install multiple TM1 servers, you must assign a unique name and port number to each server. You can install up to three TM1 servers

<b>Choose Database</b>	<p>Select the database you want to install with the TM1 server. There are three options:</p> <p><b>Planning Sample Data</b> - Installs the PlanSamp data directory, which contains Planning Manager sample data and templates. This is the default data directory used during installation.</p> <p><b>Sample Data</b> - Installs the SData data directory, as well as the TI_Data and Rules_guide_data data directories. The TM1 documentation makes extensive reference to these data directories. Though all three data directories are installed when you choose the <b>Sample Data</b> option, the TM1 server is configured to use the SData directory.</p> <p><b>Custom</b> - Installs an empty data directory where you can create your own custom TM1 data.</p> <p>Click <b>Apply</b> after you select a database to set the server name and data directory path for the selected database.</p>
<b>Server Name</b>	<p>The name you want to use to identify the TM1 server.</p>
<b>Admin Server Host Machine Name</b>	<p>The name of a computer on which a TM1 Admin Server is installed. When the TM1 server is running, it registers itself on this Admin Server. TM1 clients connect to the Admin Server to collect information about TM1 servers available on a network.</p>
<b>Port Number</b>	<p>The port on which the TM1 server runs. This parameter is used to distinguish multiple TM1 servers running on the same computer. Valid port values fall between 5000 and 49151. The default is 12345.</p>

**Change Data  
Directory**

Click to change the data directory for the server you are installing. The default data directory is set based upon your **Choose Database** option selection.

**Configure Another  
TM1 Server**

Fill this check box if you want to configure another TM1. If this box is checked, you will have an opportunity to complete a new TM1 Server Configuration screen after you click **Next**.

After configuring the TM1 Server, click **Next** to proceed to the next installation screen.



## Configuring TM1 Clients

When installing one or more TM1 clients you must specify values for the following client parameters. These parameters are written to the Tm1p.ini file.

<b>Admin Server Host Machine Name</b>	The name of a computer on which a TM1 Admin Server is installed. When the TM1 server is running, it registers itself on this Admin Server. TM1 clients connect to the Admin Server to collect information about TM1 servers available on a network.
<b>Disable Excel Edit in Cell Capability</b>	<p>Select the box to disable the Excel <b>Edit Directly in Cell</b> option. Applix recommends that you select this option, as it prevents accidental overwriting of formulas in slice worksheets.</p> <p>Clear the box to enable the Excel <b>Edit Directly in Cell</b> option.</p>
<b>Set TM1 to Autoload in Excel</b>	<p>Select this box to automatically load the TM1 add-in (Tm1p.xla) when Excel starts.</p> <p>Clear this box to require manual loading of the add-in when a user wants to use TM1 Perspectives.</p>
<b>Use Integrated Login</b>	<p>Select the box to enable Integrated Login for the client.</p> <p>Integrated Login allows you to log in to TM1 components using your Windows user name and password, without the need to complete a login dialog box.</p> <p>Clear the box to disable Integrated Login.</p> <p><b>NOTE:</b> Consult with your TM1 administrator to determine how Integrated Login is implemented on your system. TM1 servers/components can be configured to refuse connections from clients that do not use Integrated Login. If servers/components on your system are configured this way, you <i>must</i> use Integrated Login to access the components.</p>
<b>Application Server host machine name</b>	The name of the computer on which a TM1 Integra Application Server is available. This is required to use the <b>Publish to Web</b> feature of TM1.
<b>Use TM1 HTTP Proxy Connector</b>	<p>Fill this check box if you want your TM1 client to connect to the TM1 server through the TM1 HTTP Proxy Connector.</p> <p>The TM1 HTTP Proxy Connector allows TM1 clients to connect to TM1 servers over the Web using HTTP.</p>

The TM1 HTTP Proxy Connector *does not* require the use of a VPN. When using the TM1 HTTP Proxy Connector to connect to TM1 servers, client behavior remains identical to that experienced when using TCP/IP to connect to TM1 servers.

**NOTE:** If you are not sure if you want to use the HTTP Proxy Connector, or if you are not sure of the correct HTTP Proxy Connector URL, do not fill this check box. You can enable the HTTP Proxy Connector and set the URL after installation in the TM1 Options dialog box.

**HTTP Proxy Connector URL**

The URL to the directory containing the TM1 HTTP Proxy Connector plug-in that manages TM1 client/server connections over the Web.

For example,  
<https://yourcompany.com/tm1HttpProxy/>.

Consult with your TM1 system administrator for the correct URL.

**Use Proxy Server for HTTP Connector**

Select this option if you must use a proxy server to access the Internet.

**Proxy Server Host**

If you use a proxy server to access the Internet, enter the proxy server host in this box.

**Proxy Server Port**

If you use a proxy server to access the Internet, enter the port on which the proxy server is running in this box.

After configuring the clients, click **Next** to proceed to the next installation screen.

## Configuring Web Components

Applix TM1 Web is delivered through Active Server Pages (ASP) and is supported only on Microsoft IIS.

The default installation directory for the TM1Web ASP files is C:\inetpub\wwwroot\TM1Web\. To install to a different directory, click **Change** and navigate to the new directory.

**Note:** The Windows permissions on the directory into which you install the Web components must be set to **Everyone**. If the Windows permissions on this directory are restricted, the TM1 Web client may not be accessible to all users.

When you install TM1 Web, Applix installs Dundas Charts © technology. Dundas Charts © provides the charting functionality of TM1 Web. Dundas Charts © technology is delivered through two DLLs that are installed on your IIS web server:

- C:\inetpub\wwwroot\TM1Web\bin\DundasWebChart.dll
- C:\inetpub\wwwroot\TM1Web\DundasWinChart\DundasWinChart.dll

After specifying the TM1 Web directory, click **Next** to proceed to the next installation screen. If prompted to shut down IIS, click **OK**.

## Configuring the TM1 HTTP Proxy Connector

The TM1 HTTP Proxy Connector allows TM1 clients to connect to TM1 servers over the web using HTTP. The HTTP Proxy Connector does not require a VPN, and client behavior when accessing servers via HTTP is identical to the behavior when accessing TM1 servers via TCP/IP. Further details on the HTTP Proxy Connector are available in the *TM1 Clients Guide* and the *TM1 Administrator's Guide*.

The TM1 HTTP Proxy Connector can run on Microsoft IIS, Apache Tomcat, and J2EE-compliant Web servers.

Tomcat and other J2EE servers use a servlet to deliver HTTP connectivity, while IIS uses a .dll.

You must choose to install the HTTP Proxy Connector that is appropriate for the web server you use.

To install the TM1 HTTP Proxy Connector servlet for Apache Tomcat or another J2EE-compliant Web server:

1. Select the **JSP** option.

The default installation directory is C:\Tomcat\webapps.

**IMPORTANT:** For Apache Tomcat, the TM1P HTTP Proxy Connector must be installed in the \webapps directory of your web server. The servlet is initially installed as a web archive (tm1HttpProxy.war). The first time the web server starts after the archive is installed, the archive is automatically extracted to the web server's \webapps\tm1HttpProxy\ directory.

For BEA WebLogic, the TM1P HTTP Proxy Connector must be installed in the \config\

2. Click **Change** and navigate to the appropriate directory of your web server.

To install the TM1 HTTP Proxy Connector .dll for IIS:

1. Select the **ASP** option.

The default installation directory is C:\inetpub\wwwroot\tm1httpproxy\.

During installation, TM1 creates a virtual directory on the web server (named TM1HttpProxy by default) that points to the directory where you install tm1HttpProxy.dll. The default page of the virtual directory must point to tm1HttpProxy.dll. The virtual directory needs to have permission to execute scripts and executables.

2. To install to a different directory, click **Change** and navigate to the new directory.

After specifying which HTTP Proxy Connector to install, click **Next** to proceed to the next installation screen.

## **Configuring Third Party Applications**

Some third party applications are necessary to extend the functionality of TM1. You can select which third part applications to install and configure these applications on the Third Party Applications screen.

### **Print to PDF**

Select this option if you want to generate PDF versions of TM1 reports. GNU GhostScript will be installed in the <Applix\_Install\_Dir>\GhostScript directory.

If you select this option you must also select a currently installed printer to be used to generate PDF reports.

## Installing TM1 for 64-bit Windows



### 64-Bit TM1 Components

To change the directory where TM1 is installed, click **Browse** and migrate to a directory on your hard disk.

When you install TM1 on a 64-bit Windows machine, you can choose to install any or all of the following components:

- OLEDB Provider - Provides access to ODBC data sources from TurboIntegrator.
- Manuals - All of the TM1 manuals are installed in the <Applix\_Home>\manuals directory.
- Servers - You can install only two servers on a 64-bit Windows machine. Those servers are described in the following table.

<b>TM1 Admin Server</b>	Keeps track of TM1 servers available on the network.
<b>TM1 Server</b>	Services requests from TM1 clients by loading shared cubes into memory, managing security, sending data to spreadsheets, updating cubes on request, and maintaining a log of changes to the database.

By default, all components are listed with the  icon, indicating that they will be installed. If you click a component and choose the  icon, that component will not be installed.

Once you have chosen the components to install, click **Next** to configure TCP/IP ports.

## Configuring TCP/IP Ports for 64-bit TM1

Specify the TCP/IP port number for the following programs:

<b>axnet</b>	<p>The server process that launches ODBC gateways as requested by TM1. By default, Applix assigns port number 5492.</p> <p>Axnet must be running on another machine in your network in order for TurboIntegrator to access relational data. If the axnet running in your network is assigned a different number port number on that machine, specify that port number here.</p>
<b>TM1 Admin Host port number</b>	<p>A read-only field. The TM1 Admin Host port number, 5495, is the port number on which the Admin Server on this machine listens for TM1 client requests.</p>

After configuring the TCP/IP ports, click **Next** to set the user name and password for the TM1 Servers .

## Setting Username and Password for TM1 Services

On Windows, all TM1 services must run under a single domain account. The Applix installation program will configure the services to run under the selected account.

Specify a domain account using the syntax **domain\username**. For example:

applix\rlafant

**Warning:** Running Applix services under the 'local system account' is not recommended. Windows places restrictions on this account that may cause the Applix software to operate incorrectly.

## Enter Your Password

Enter the password for the domain account that logs in and starts services.

Click **Next** to set up the Integrated Login feature.



## Setting Up Integrated Login

Integrated Login allows TM1 users to automatically log in to TM1 components using their Windows login user name and password.

To enable Integrated Login, fill the checkbox next to the **Use Integrated Login** option.

To use standard security, where users are always prompted for a user name and password when logging in to a TM1 component, clear the checkbox next to the **Use Integrated Login** option.

**NOTE:** You cannot change your Integrated Login setting by modifying your TM1 installation. You must completely uninstall and then reinstall TM1 to change the Integrated Login setting.

When Integrated Login is enabled, it runs in Mixed Mode by default. Integrated Login can also be configured to run in Integrated Login Only mode by modifying appropriate parameters in the Tm1s.cfg, Entsvr.conf, and Toolsvr.conf configuration files. The two Integrated Login modes are described below.

### Mixed Mode

If client programs are set up to use Integrated Login, TM1 tries to log users into the TM1 components using their Windows user name and password.

If client programs are not set up to use Integrated Login, users are prompted by TM1 for their user name and password when they attempt to access a TM1 component.

### Integrated Login Only

Only client programs that are set up to use Integrated Login will be allowed to log in to TM1 components. If the client is not set up for Integrated Login, the server that controls access to the TM1 component will throw an error and the user will not be allowed access the component.

For further details on Integrated Login, including details on server and client configuration parameters, see the *TM1 Security* guide available at <http://www.applix.com/support/>. Click the link titled **Download - Docs** to access links to Applix documentation.

After setting the Integrated Login option, click **Next** to configure the TM1 Server.

## Configuring the 64-bit TM1 Server

When installing a TM1 server you must specify values for the following server parameters. These parameters are written to the Tm1s.cfg file, which resides in the TM1 data directory. The default path of the TM1 data directory is C:\Program Files\Applix\Custom\TM1Data\SData.

<b>Server Name</b>	The name you want to use to identify the TM1 server.
<b>Port Number</b>	The port on which the TM1 server runs. This parameter is used to distinguish multiple TM1 servers running on the same computer. Valid port values fall between 5000 and 49151. The default is 12345.
<b>Admin Server Host Machine Name</b>	The name of a computer on which a TM1 Admin Server is installed. When the TM1 server is running, it registers itself on this Admin Server. TM1 clients connect to the Admin Server to collect information about TM1 servers available on a network.
<b>Data Directory</b>	The directory that contains the objects and data for the TM1 Server.
<b>Install Sample Data</b>	Determines whether sample TM1 data is installed.  Fill the check box to install sample data to the specified data directory. The TM1 manuals make extensive use of the sample data.
<b>Configure TurboIntegrator to Use the ODBC Gateway</b>	Click this check box if you want to run TurboIntegrator processes against a relational database.

If you choose to Configure TurboIntegrator to use the ODBC gateway, click **Next** to specify ODBC Gateway parameters.

If you choose not to Configure TM1 to Use the ODBC Gateway, click **Next**, then click **Finish** start installing TM1.

## Configuring the ODBC Gateway

The ODBC gateway is used to access ODBC sources from TurboIntegrator when running the 64-bit Windows TM1 server. There are no TM1 64-bit ODBC drivers, so TM1 uses axnet to communicate with ODBC sources.

axnet is a server process that launches ODBC gateways as requested by the TM1 server. axnet starts during the operating system's start-up routine, on TCP/IP socket port #5492 by default. Complete details on axnet are available in the TM1 Security guide.

To enable access to ODBC data sources through axnet, you must specify values for the following parameters:

<b>Gateway Host</b>	This parameter specifies the name of the computer on which axnet is running. This computer must be visible to the TM1 server. The parameter value you specify is written to the Tm1s.cfg file as the ELFODBCHost parameter value.
<b>Username</b>	This parameter sets the username used to access the axnet service. The parameter value you specify is written to the Tm1s.cfg file as the ELFODBCUsername parameter value.
<b>Password</b>	This parameter sets the password used to access the axnet service. The parameter value you specify is written to the Tm1s.cfg file as the ELFODBCPassword parameter value.

Once you have specified the ODBC gateway parameters, click **Next**, then click **Finish** to start installing TM1.

## Licensing Applix TM1 Products

### Licensing TM1

After you have run the Applix Installation Wizard and installed TM1 products, you will be prompted to run the TM1 License manager, which allows you to generate licenses for your newly-installed TM1 products. You can also run the TM1 License Manager after you have installed TM1 by clicking the Windows **Start** menu and choosing **Programs → Applix → TM1 → License Manager**.

Follow these steps to generate licenses for your TM1 products:

1. After you install TM1, click **Launch License Manager**.

The TM1 License Manager appears:

2. Choose a component from the **Select Component to License** field.

The full path to the license file for the component you choose appears in the **Path to License File** field. This path is based on the installation directory you specified when you installed TM1.

3. Open the email sent to you by Applix. (If you have not received licensing information from Applix, call the number indicated on the dialog box.) The email includes license information.
4. Copy and paste this information into the panel marked **Paste New License Here**:
5. Click **Validate and Save**.


If validation of your licensing information is successful, TM1 issues a dialog box indicating which component and options were validated.

6. Click **OK** on the dialog box.
7. Click **OK** when TM1 confirms that the license was generated.
8. Repeat steps 2 through 7 for each TM1 product you installed.

## Program Maintenance

### Maintaining TM1 Components

To add or remove a TM1 component from your current installation:

1. Insert the Applix TM1 installation CD in your CD drive.  
If autorun is enabled on your CD drive, the Applix Installation Wizard appears.  
If autorun is not enabled on your CD drive, run **setup.exe** in the installation CD root directory to start the Applix Installation Wizard.
2. Click **Next**.
3. Select **Modify** on the Program Maintenance screen and click **Next**.
4. Select the TM1 product you want to alter.
5. Select the **Custom** installation type and click **Next**.  
The Component Selection screen appears, showing the current state of your TM1 installation. Items currently installed display with a disk drive icon  next to the component name. Items not currently installed display with an **X** icon next to the name.
6. To add a component to your current installation, click the icon next to the component name and select **This feature will be installed on local hard drive**.
7. To remove a component from your current installation, click the icon next to the component name and select **This feature will not be available**.
8. Click **Next** and answer all subsequent screens/prompts to complete the program maintenance.

**NOTE:** Program maintenance does not include changing the location of the TM1 installation directory. To change the location of the installation directory, remove all TM1 files and reinstall TM1 in another location.

## Repairing Your TM1 Installation

To repair your TM1 installation:

1. Insert the Applix TM1 installation CD in your CD drive.  
If autorun is enabled on your CD drive, the Applix Installation Wizard appears.  
If autorun is not enabled on your CD drive, run **setup.exe** in the installation CD root directory to start the Applix Installation Wizard.
2. Click **Next**.
3. Select **Repair** on the Program Maintenance screen.
4. Click **Next** and answer all subsequent screens/prompts to complete the repair process.

The installation program reinstalls your current configuration, fixing missing or corrupt files, program groups and shortcuts, and registry entries.

## Uninstalling TM1

To uninstall all components of Applix TM1, follow these steps:

1. Copy the contents of the <Applix\_Home>\Custom\ directory to a safe place on your hard disk. This directory contains Applix configuration files that will be re-generated by the TM1 installation.
2. Delete the <Applix\_Home>\custom\ directory.
3. From the Control Panel on your computer, choose **Add/Remove Programs**.
4. In the list of currently installed programs, select **Applix**.
5. Click **Remove**.
6. Click **Yes** when prompted for confirmation.

You can also uninstall TM1 using the Applix Installation Wizard. Following these steps:

1. Copy the contents of the <Applix\_Home>\Custom\config directory to a safe place on your hard disk.
2. Delete the <Applix\_Home>\custom\ directory.
3. Insert the TM1 installation CD into your CD drive.  
If Autorun is not enabled for your CD drive, run **Setup.exe** in the CD's root directory.  
The Applix Installation Wizard appears.
4. Click **Next** on the initial Wizard window.
5. Select **Remove** on the Program Maintenance screen and click **Next**.
6. Click **Remove** on the Remove the Program screen.
7. Click **Finish** to complete the process of uninstalling TM1 from your computer.

**IMPORTANT:** The <Applix\_Home>\Custom directory contains files and applications that you may have created or modified, and which are required to run your TM1 applications. For example, the <Applix\_Home>\Custom\TM1data directory contains your TM1 cubes and dimensions. Be sure to back up this directory before you run the uninstall.

## **Upgrading TM1 Web**

You must complete the following three procedures to upgrade your currently installed version of TM1 Web to a newer version.

Uninstalling an Existing Version of TM1 Web

Installing a New version of TM1 Web

Restoring Your TM1 Web Applications



## Uninstalling an Existing Version of TM1 Web

To uninstall TM1Web:

1. Shutdown the following Windows services:
  - TM1 Admin Server
  - TM1 Excel Service
  - TM1 Server
2. Copy the <Applix\_install\_dir>\Custom\ directory to a secure location.

If you accepted the default directory during installation, the path to this directory is C:\Program Files\Applix\Custom. After installing an upgraded version of TM1Web, you will return this directory to its original location to restore your TM1Web data and applications.
3. Open the Windows Control Panel.
4. Click **Add/Remove Programs**.
5. Select **Applix**.
6. Click **Remove**.
7. Answer all prompts required to remove Applix TM1Web.
8. After the uninstall program runs, click **No** when prompted to reboot your system.
9. After uninstalling TM1Web, the <Applix\_install\_dir> directory remains on your system. You must delete this directory.

If you accepted the default directory during installation, the path to this directory is C:\Program Files\Applix. If you specified an alternate directory during installation, you must delete that alternate directory.
10. Reboot your system.

### **Installing a New Version of TM1 Web**

To install an upgraded version of TM1 Web, run the Applix Installation Wizard (setup.exe) on your installation CD. Consult the online help that is available from the wizard if you need assistance installing the new version.

## Restoring Your TM1 Web Applications

After successfully installing a new version of TM1 Web, complete the following steps to restore access to your TM1 Web applications.

1. Copy the Custom directory from its secure location and paste to <Applix\_install\_dir>\. (You should have backed up this directory as instructed in Uninstalling an Existing Version of TM1 Web.)
2. If necessary, reconcile any customizations you may have made to your previous TM1 Web server pages with the newly-installed server pages.

During installation, TM1 checks to see if a previous version of TM1 Web is installed. This is done by checking for the existence of a directory with the identical name of the TM1 Web directory that you specify during installation.

For example, if you accept the default installation directory, TM1 Web files are installed to C:\inetpub\wwwroot\TM1Web. When you perform an upgrade, TM1 checks for the existence of the TM1Web directory. If the directory is detected, it is renamed to TM1Web.1, and the upgraded files are installed to C:\inetpub\wwwroot\TM1Web.

C:\inetpub\wwwroot\ now contains two directories:

TM1Web - Contains the new TM1 Web pages.

TM1Web.1 - Contains your old TM1 Web pages, including any customizations you may have created.

If you are upgrading from a 9.x version of TM1 to another 9.x version, you can copy any customized pages from TM1Web.1 to TM1Web. After copying the pages, the customizations will be available in your upgraded version of TM1 Web.

If you are upgrading from an 8.x version of TM1 to a 9.x version, **DO NOT** copy any customized pages from TM1Web.1 to TM1Web. TM1 Web 8.x pages are not compatible with TM1 Web 9.x. You must manually recreate your customizations in the new TM1 9.x pages.

3. Reboot your system to automatically restart the Windows services required to run TM1 Web.