

Tecnomatix 12.1.3

Installation

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Chapter 1: Tecnomatix Applications Installation

This chapter describes the installation and configuration of Tecnomatix applications. It contains the following sections:

- **Workflow**, which describes its basic configuration and architecture.
- Oracle Database Server Installation, which describes how to install the Oracle database server. For more information, refer to the *Tecnomatix Administration Guide*.
- **Installing Tecnomatix Applications**, which provides a detailed explanation of how to install the eMServer and client applications.
- **Setting the eMSAgent and eMServer to Automatic Login (Windows 2003, 2008, Windows 7)**, which describes how Client applications can access the eMServer without having logged in to the eMServer machine.

The sections that follow will guide you through the Tecnomatix installation process. If some parts of the system are already functional, refer only to the sections that describe the required installation procedures.

Notes:

- When performing installation, you require administration rights.
- If your operating system is Windows Vista, Windows 7, Windows Server 2008, or Windows Server 2008 R2 Standard edition, you must launch the installation file as an administrator, even if you have administration rights. Do this by right-clicking the installation file and selecting Run as administrator.
- For Windows Server 2008 R2, Windows 7 UAC (user access control) settings should be set to default.
- Perform installation directly from the installation file on the installation DVD by launching Setup.exe.
- Throughout the Tecnomatix installation, before proceeding to a subsequent section of the installation, you should verify that the component you just installed is working properly. For example, make sure that the database is functional before proceeding to eMServer installation.
- The default installation folder is <Program Files>\Tecnomatix_<VERSION>.
 - o In a 32bit setup, the setup program creates a folder called eMPower and nests it under the installation folder. The 32bit setup files are stored in eMPower. If you install a client application on the same machine, the setup program creates a folder named eMPower64 and also nests it under the installation folder. The 64bit setup files for the client application are stored in eMPower64.

- o In a 64bit setup, the setup program creates a folder named eMPower and nests it under the installation folder. The 64bit setup files are stored in eMPower. If you install a client application on the same machine, the setup program creates a folder named eMPower32 and also nests it under the installation folder. The 32bit setup files for the client application are stored in eMPower32.
- o If you select an installation path that does not end with a Tecnomatix folder, the setup program automatically creates a folder named Tecnomatix and nests it under the installation folder.
- o For example, when performing a StandAlone 64bit installation under C:\apps:
- o The installation folder is C:\apps\Tecnomatix_<VERSION>.
- o 64bit files are stored under C:\apps\Tecnomatix_<VERSION>\eMPower.
- o 32bit files are stored under C:\apps\Tecnomatix_<VERSION>\eMPower32.

Workflow

The three-tier architecture of the Tecnomatix solution can be installed using the three tier installation, the compact installation, or the full standalone installation (refer to the *Introduction* in the *Tecnomatix Administration Guide* chapter for an overview). The installation steps required for each of the configurations are described in the sections that follow.

Note: For each of these configurations the Oracle database must be set up as described in the *Oracle Installation and Configuration* chapter.

Three-Tier Installation

In the three-tier installation, the Oracle database is installed on its own hardware platform. The eMServer is also installed on its own hardware platform and consists of the Oracle client and the eMServer. The Client applications are then installed on the end-user machines.

After you have installed and configured the Oracle database (tier 1), as described in the *Oracle Server Installation* chapter in the *Tecnomatix Administration Guide*, the next step is to install the components of the eMServer hardware platform (tier 2) and the applications on the client tier (tier 3).

Follow the steps below to complete the installation of the eMServer tier (tier 2):

1. Install Oracle client (11.2.0.4).
2. Install the eMServer.
3. Configure the eMServer and perform various administrative tasks, as described in the Schema Administration section of the *Tecnomatix Administration Guide*.
4. Install the various client applications to complete the installation of the client tier (tier 3).

The eMServer processes are now up and running, and users can log in to the different client applications and begin working.

Setting up Tecnomatix Applications in Languages other than English

- From the Tecnomatix setup DVD, perform the standard (English) installation of Process Simulate, Process Simulate on Teamcenter, or Process Designer.
- From the setup DVD, open the Localization folder, and select either the 32bit or 64bit folder.
- Run the .msi file for the language in which you wish to operate the Tecnomatix application. If you installed more than one application, the language change applies to all of them.
- From Tecnomatix Doctor, set the language in the Change Language dialog described in the Administration Guide.

Compact Installation

In the compact installation, the Oracle database is installed on its own hardware platform. The eMServer is installed on a separate hardware platform, and includes the Oracle client. The client applications are also installed on this machine.

After you have installed and configured the Oracle database (tier 1), the next step is to install the components of the eMServer hardware platform (tier 2), as follows:

1. Install Oracle client 11.2.0.4.

Note: The client version must be identical to the server version, with the exception of the Oracle server 11 for which it is possible to run an Oracle client 11 R1 or 10g with an Oracle 11 R2 server.

2. Install the client and server, as described in [Installing Tecnomatix Applications](#).
3. Configure the eMServer and perform various administrative tasks, as described in the *Schema Administration* section of the *Tecnomatix Administration Guide*.

The eMServer processes are now up and running, and users can log in to the different client applications and begin working.

Full Standalone Installation

In the full standalone installation, all components are installed on the single hardware platform. This includes the Oracle database and the client/server applications.

Note: In this installation, you are not required to install the Oracle client, since the eMServer is installed on the Oracle database hardware platform (tier 1) which already contains the Oracle client installation, as described in the *Oracle Installation and Configuration* chapter of the *Tecnomatix Administration Guide*.

After you have installed and configured the Oracle database, the next step is to install the remaining components of the standalone configuration, as follows:

1. Install the Oracle patch.
2. Install the client and server, as described in [Installing Tecnomatix Applications](#).
3. Configure the eMServer and perform various administrative tasks, as described in the *Schema Administration* section of the *Tecnomatix Administration Guide*.

The eMServer processes are now up and running, and users can log in to the different client applications and begin working.

Installing Tecnomatix Applications

The installation wizard for Tecnomatix provides a single GUI for installing all client and server applications. Files for all applications are installed in a single directory and its subdirectories.

Select the appropriate installation option from those listed below to perform your Tecnomatix installation (the workflow is similar for both 32bit and 64bit platforms):

- [Performing a Client/Server Installation \(Standalone\)](#)
- [Performing a Tecnomatix Server Installation](#)
- [Performing a Tecnomatix Client Installation](#)
- [Performing a Tecnomatix Administration Tools Installation](#)
- [Performing a Tecnomatix Silent Installation \(using a batch file\)](#)

Supported Operating Systems

The follow operating systems are supported:

- Windows Vista
- Windows 2008 R2
- Windows 7
- Windows 2012 R2
- Windows 8.1

Third-party Applications

When performing an installation, the following third-party applications will be installed automatically, depending on which Tecnomatix applications are installed:

Third-party Application	Included in product
Apache Tomcat 7	WEB
ATL 7.1	All
MFC 7.1	All
Microsoft C Runtime Library 7.1	All
Microsoft C++ Runtime Library 7.1	All
Microsoft Common Dialog Control 6.0	WEB
Microsoft Component Category Manager Library	WEB
Microsoft Data Formatting Object Library 6.0	Web-Based BOP Manager
Microsoft Tabbed Dialog Control 6.0	Web-Based BOP Manager
Microsoft Visual Basic Virtual Machine-6.0	Web-Based BOP Manager
Visual C++ 8.0 ATL (x86) WinSXS MSM	Client
Visual C++ 8.0 ATL (x86_x64) WinSXS MSM	All
Visual C++ 8.0 ATL.Policy (x86) WinSXS MSM	Client
Visual C++ 8.0 ATL.Policy (x86_x64) WinSXS MSM	All
Visual C++ 8.0 CRT (x86) WinSXS MSM	Client
Visual C++ 8.0 CRT (x86_x64) WinSXS MSM	All
Visual C++ 8.0 CRT.Policy (x86) WinSXS MSM	Client
Visual C++ 8.0 CRT.Policy (x86_x64) WinSXS MSM	All
Visual C++ 8.0 MFC (x86) WinSXS MSM	Client
Visual C++ 8.0 MFC (x86_x64) WinSXS MSM	All
Visual C++ 8.0 MFC.Policy (x86) WinSXS MSM	Client
Visual C++ 8.0 MFC.Policy (x86_x64) WinSXS MSM	All
Visual C++ 9.0 ATL (x86) WinSXS MSM	Client
Visual C++ 9.0 ATL (x86_x64) WinSXS MSM	All
Visual C++ 9.0 ATL.Policy (x86) WinSXS MSM	Client
Visual C++ 9.0 ATL.Policy (x86_x64) WinSXS MSM	All
Visual C++ 9.0 CRT (x86) WinSXS MSM	Client
Visual C++ 9.0 CRT (x86_x64) WinSXS MSM	All
Visual C++ 9.0 CRT.Policy (x86) WinSXS MSM	Client
Visual C++ 9.0 CRT.Policy (x86_x64) WinSXS MSM	All
Visual C++ 9.0 MFC (x86) WinSXS MSM	Client
Visual C++ 9.0 MFC (x86_x64) WinSXS MSM	All
Visual C++ 9.0 MFC.Policy (x86) WinSXS MSM	Client
Visual C++ 9.0 MFC.Policy (x86_x64) WinSXS MSM	All
Visual C++ 10.0 ATL (x86)	All
Visual C++ 10.0 ATL (x64)	All
Visual C++ 10.0 CRT (x86)	All
Visual C++ 10.0 CRT (x64)	All
Visual C++ 10.0 MFC (x86)	All
Visual C++ 10.0 MFC (x64)	All
Visual C++ 12.0 OpenMP (x86)	All
Visual C++ 12.0 OpenMP (x64)	All
Visual C++ 12.0 MFC (x86)	All
Visual C++ 12.0 MFC (x64)	All
Visual C++ 12.0 MFCLOC (x86)	All
Visual C++ 12.0 MFCLOC (x64)	All
Visual C++ 12.0 CXXAMP (x86)	All
Visual C++ 12.0 CXXAMP (x64)	All
Visual C++ 12.0 CRT (x86)	All
Visual C++ 12.0 CRT (x64)	All

Setup Prerequisites

Setup prerequisite
Windows Installer 4.5 for Windows
Microsoft .NET Framework 4.5
MSXML 6.0 SP1 (x64)
Microsoft Visual C++ 2012 Update 4 Redistributable Package (x64)

The system creates the following log files during installation:

Tecnomatix_V12.1.3_Install_Summary.log – Notes when the installation began and ended and lists the applications and components installed as well as options selected during setup. For example, setup type, installation directory, eMServer name. This log file is created under the %TEMP% directory and copied to the <INSTALL DIR>\SetupLogs folder in the installation directory when setup is complete.

Tecnomatix_V12.1.3_Install_<date>-<time>.log – Lists custom actions executed during setup as well as possible errors, for example, dll registration errors, copying ens system root files failure, create COM+ Application failure. This file is created under the %TEMP% directory and copied to <INSTALL DIR>\SetupLogs when setup is completed.

Java 7 Installation

Siemens PLM Software no longer provides a Java Runtime Environment (JRE) with Tecnomatix and Teamcenter software. It is necessary to download and install JRE (version 1.7) before you install Tecnomatix and Teamcenter.

The following install directions are intended for those who are installing the Tecnomatix alignment that is certified with a Teamcenter release that supports JRE-7 - currently Teamcenter 8.3.3.2 and 9.1.0.2.

Follow Teamcenter-provided instructions for Teamcenter installations.

1. Install Tecnomatix and Teamcenter alignment - follow the Tecnomatix install directions.
2. Install JRE-7

<http://www.oracle.com/technetwork/java/javase/downloads/index.html> and install it as follows:

- In Explorer, right-click the downloaded file. In the menu that displays, select Run as administrator.
- In the Welcome to Java screen, click Install (leave Change destination folder unactivated).
- After JRE has completed installing, the You have successfully installed Java screen displays. Click Close.

Default location for Windows 32 bit - C:\Program Files\Java\jre7\

Default location for Windows 64 bit - C:\Program Files (x86)\Java\jre7\

Notes: This is the only JRE download and installation currently required for the 32 bit Resource Browser server on both Windows 32 and 64 bit. Installing new JREs does not remove old JRE installations. Some programs may require you to remove the old JRE installations.

3. Update JRE content

For Windows 32 bit

- Rename the jre folder under ..\eMPower to jre6
- Copy the newly installed 32 bit JRE folder from C:\Program Files\Java\jre7 to ..\eMPower and rename it to ..\eMPower\jre

For Windows 64 bit

- Rename the jre folder under ..\eMPower32 to jre6

- Copy the newly installed 32 bit JRE folder from C:\Program Files (x86)\Java\jre7 to ..\eMPower32 and rename it to ..\eMPower32\jre

For TC9.1.0 and above, copy the ..\eMPower\jre\bin\client subdirectory and rename the copied file to ..\eMPower\jre\bin\server

4. vc_redist2010 installation instructions:

- Download the "Microsoft Visual C++ 2010 Redistributable Package (x86)" from <http://www.microsoft.com/en-us/download/details.aspx?id=5555>
- Save vc_redist_x86.exe and remember its location which is required to perform the following steps.
- In Explorer, right-click the downloaded vc_redist_x86.exe file (or double-click it). In the menu that displays, select Run as administrator. The Welcome to Microsoft Visual C++ 2010 x86 Redistributable Setup screen appears.
- Confirm that you have "read and accept the license terms".
- In the Welcome screen, click the Install button located in the lower right corner.
- When the installation has completed, click Finish.

This is currently the only vc_redist2010 download and installation required for the 32bit Resource Browser server on both Windows 32bit and 64bit.

5. For Teamcenter10.0 and up, make sure that the Java parameters are correct:

For Windows 32 bit

- JRE_HOME= C:\Program Files\Java\jre7 (or where it was installed)

For Windows 64 bit

- JRE_HOME= C:\Program Files (x86)\Java\jre7 (or where it was installed)
- JRE64_HOME= C:\Program Files\Java\jre7 (or where it was installed)

Note: This is only required for Teamcenter10.0 clients and above, but not for Teamcenter 8.3 and 9.1 installations.

If you wish to switch back to JRE-6:

For Windows 32 bit

- Rename the eMPower\jre folder to eMpower\jre7
- Install the relevant Tecnomatix and Teamcenter alignment, or retain the one installed for Java-7.
- Rename eMpower\jre6 to eMpower\jre.

For Windows 64 bit

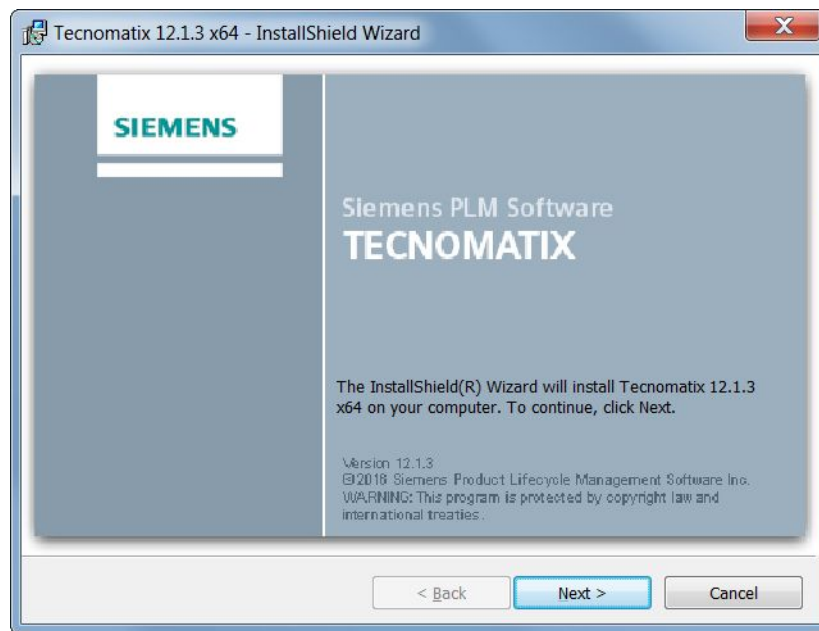
- Rename the eMPower32\jre folder to eMpower32\jre7

- Install the relevant Tecnomatix and Teamcenter alignment, or retain the one installed for Java-7.
- Rename eMPower32\jre6 to eMPower32\jre.

Launching the Installation Wizard

1. From the setup path, launch **Setup.exe**.

A welcome dialog is displayed.



2. Proceed with the desired installation, as described in the following sections.

- Performing a Client/Server Installation (Standalone)
- Performing a Tecnomatix Server Installation
- Performing a Tecnomatix Client Installation
- Performing a Tecnomatix Administration Tools Installation
- Performing a Tecnomatix Silent Installation (using a batch file)

Performing a Client/Server Installation (Standalone)

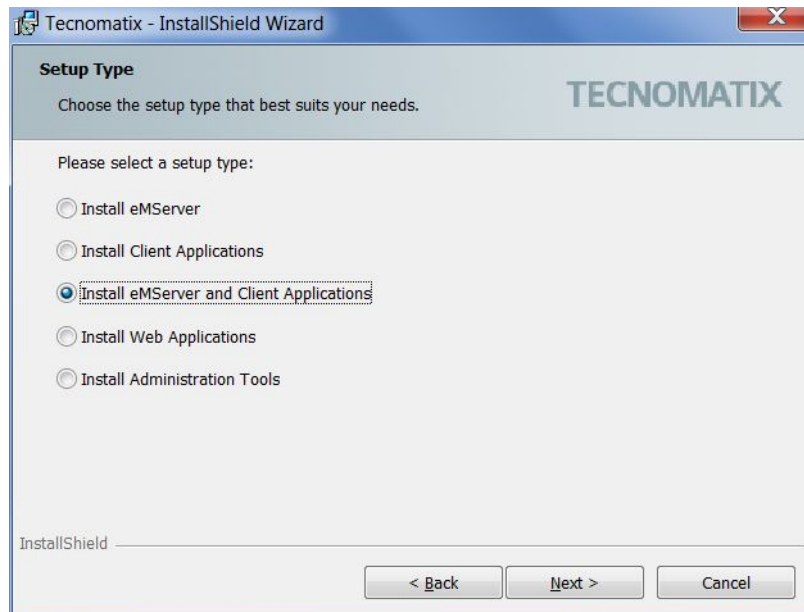
Notes:

- Click this link for information about Configuring the eMServer for a Client/Server Installation.
- When performing a Standalone installation, administration tools (available in **Start > Programs > Tecnomatix > Administration Tools**) are installed automatically.

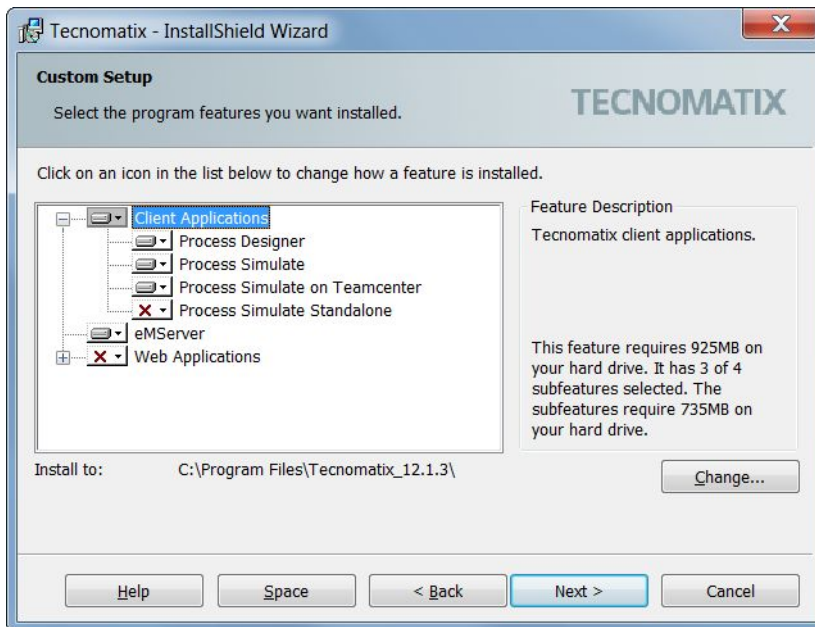
The configuration provided by the Client/Server installation supplies a complete Tecnomatix environment, containing both Application server and Client components in a single hardware framework. With this setup, no separate, additional machine is required for client operations. Before beginning to install Tecnomatix 12.1.3, make sure that Oracle client 12.1.0.2 or 11.2.0.4 is installed. The client version must be identical to the server version. When setting Oracle Home immediately before the Tecnomatix installation, it is recommended to restart your machine before installing Tecnomatix 12.1.3 to ensure that the path variable is updated.

Performing a Client/Server Standalone Installation

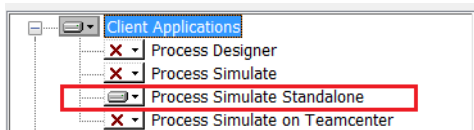
1. From the *Welcome* screen, click **Next**. The *Setup Type* dialog is displayed:



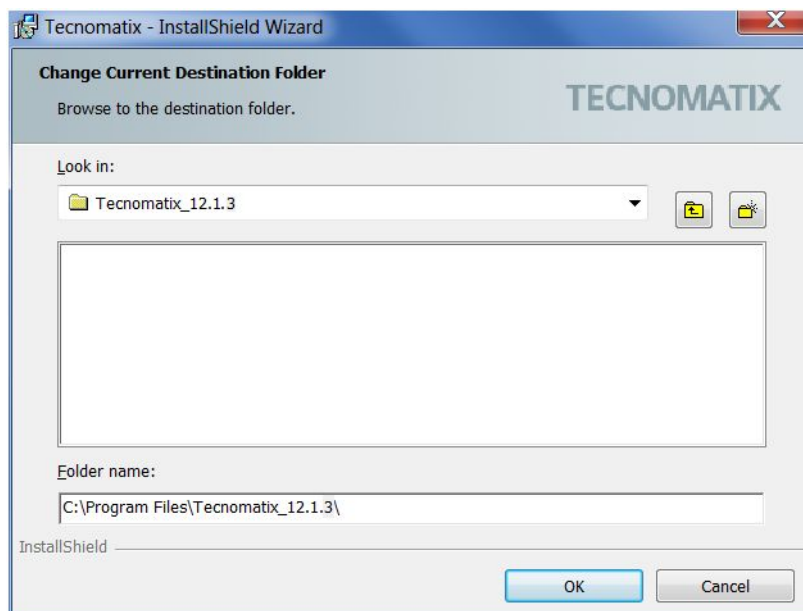
2. Select **Install eMServer and Client Applications** and click **Next**. The *Custom Setup* dialog is displayed:



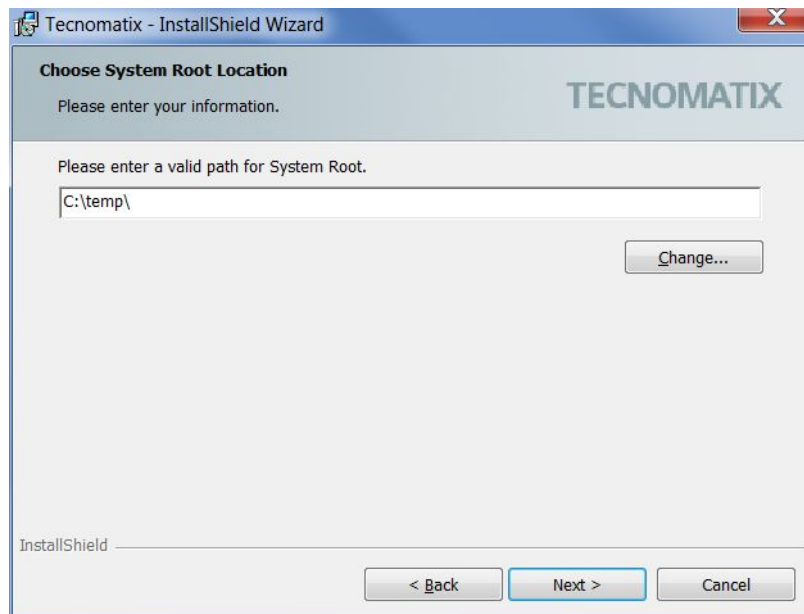
Note: The Process Simulate Standalone installation is an option for users who only need to work in disconnected mode. Choosing this setup installs just Process Simulate Standalone (Disconnected) without Process Simulate eMServer. All Process Simulate Disconnected capabilities are fully supported.



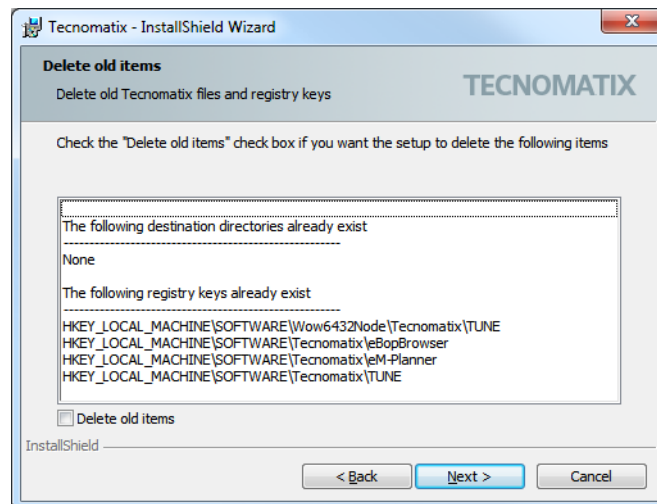
3. (Optional) The default location is C:\Program Files\Tecnomatix. If required, click **Change**. The *Change Current Destination Folder* window is displayed:



4. Choose the folder in which you want Tecnomatix to be installed and click **OK**. The *Custom Setup* dialog reappears.
5. Select the Client and Server applications. Selecting the parent Client Applications node automatically selects all of its associated applications.
6. Click **Next**. The *Choose System Root Location* dialog for the eMServer system root is displayed:

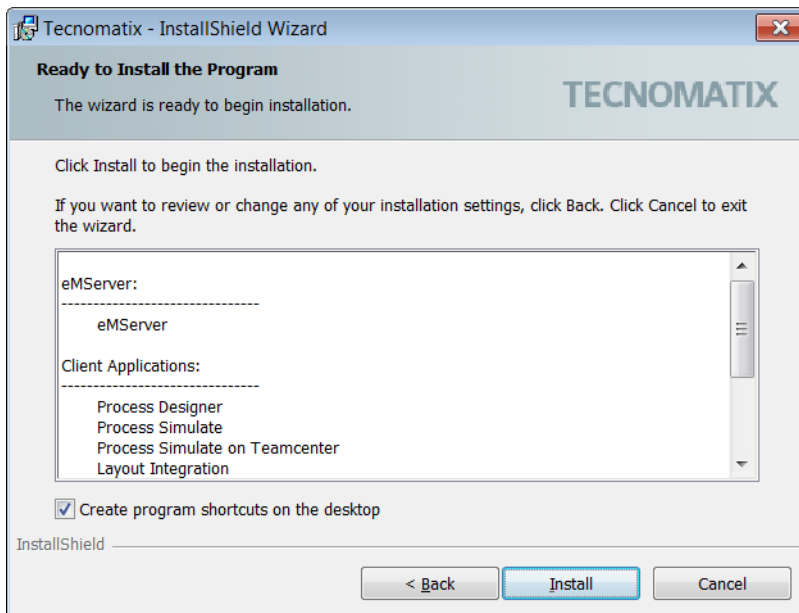


7. Click **Change** to specify the destination of the eMServer system root (UNC paths are also accepted, but make sure that the SystemRoot is a separate folder under the shared one), and click **Next**. The *Delete Old Items* dialog is displayed.

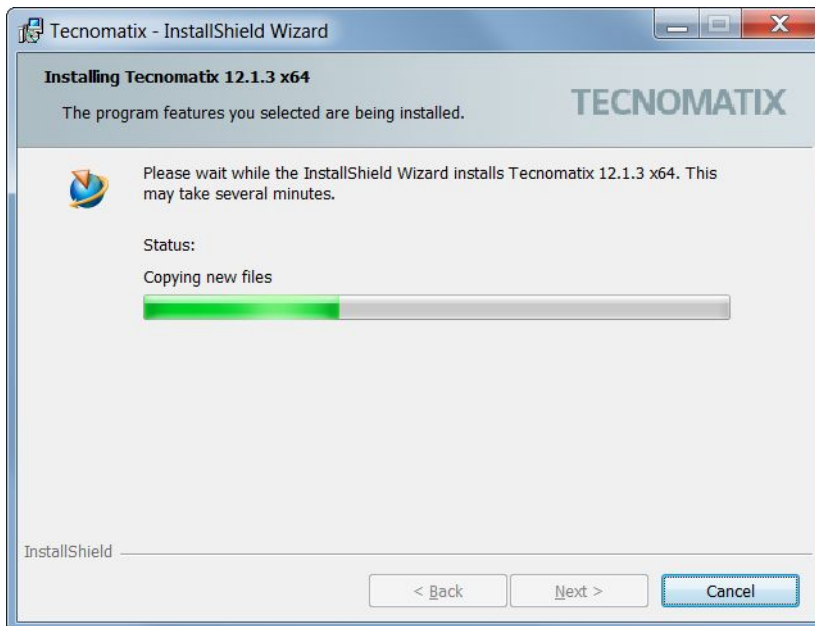


Check **Delete old items** if you wish to delete the items that the setup program has detected remaining from previous Tecnomatix installations. If you do not wish to delete these items, leave the checkbox clear.

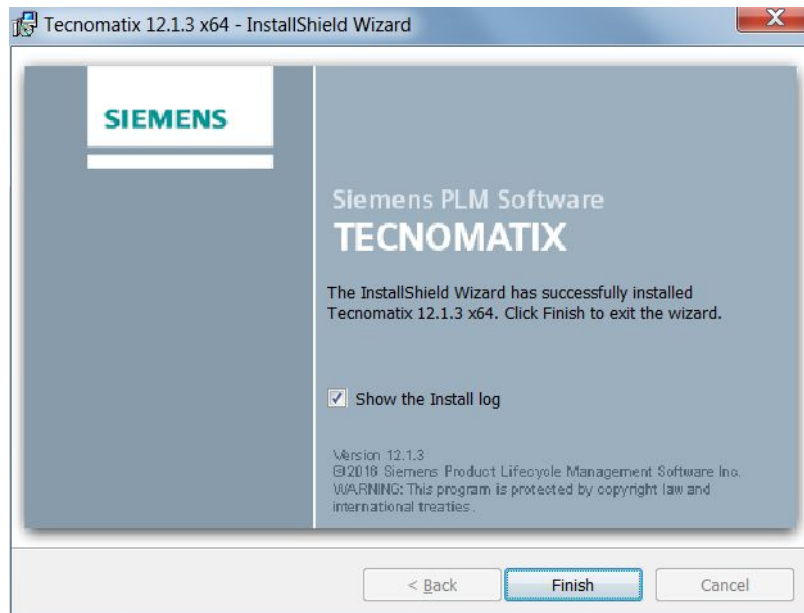
8. Click **Next**. The *Ready to Install* dialog is displayed:



9. Click **Install**. The *Installing Tecnomatix* dialog displays with a progress bar, enabling you to track the progress of the installation.



When the installation process is complete, the following message is displayed:



10. Click **Finish**.

Configuring the eMServer for a Client/Server Installation

After you have completed the installation, you must configure the connection between the Oracle database and the eMServer in order to be able to log in. See the Associating eMServer with a Schema and Configuring Optional eMServer Settings sections in the Tecnomatix Administration Guide for more details.

Performing a Tecnomatix Server Installation

Notes:

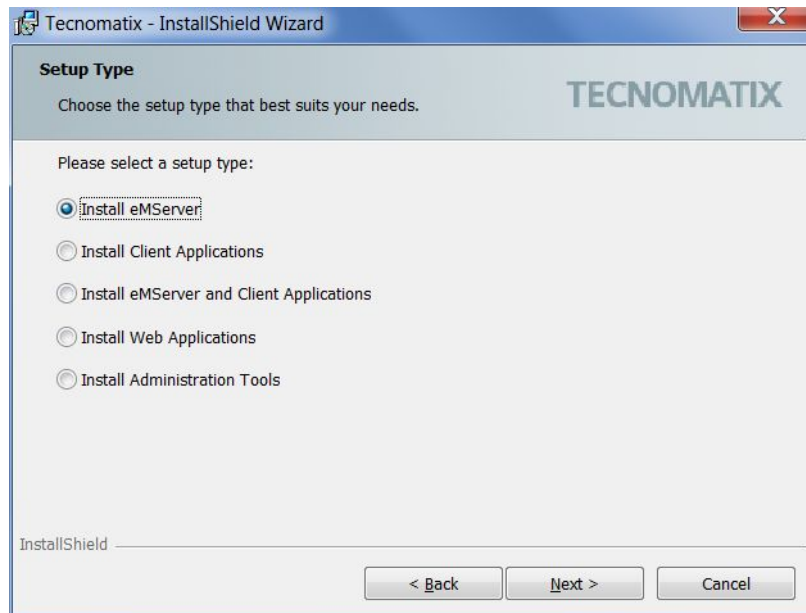
- Click this link for information about [Preparing the Windows 2008 Server Machine](#).
- When performing a Server installation, administration tools (available in Start > Programs > Tecnomatix > Administration Tools) are installed automatically.

Server installations support multi-user environments. Make sure that Oracle 12.1.0.2 or 11.2.0.4 is installed. Also, make sure that Oracle Home is set accordingly. When setting Oracle Home immediately before the Tecnomatix installation, it is recommended to restart your machine before installing Tecnomatix to ensure that the path variable is updated.

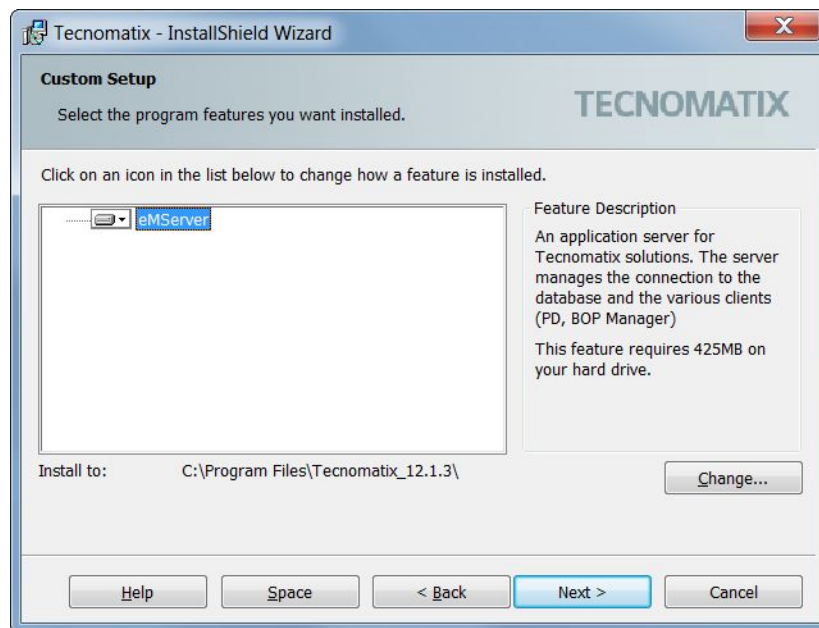
Note: The client version must be identical to the server version.

Performing a Server Installation

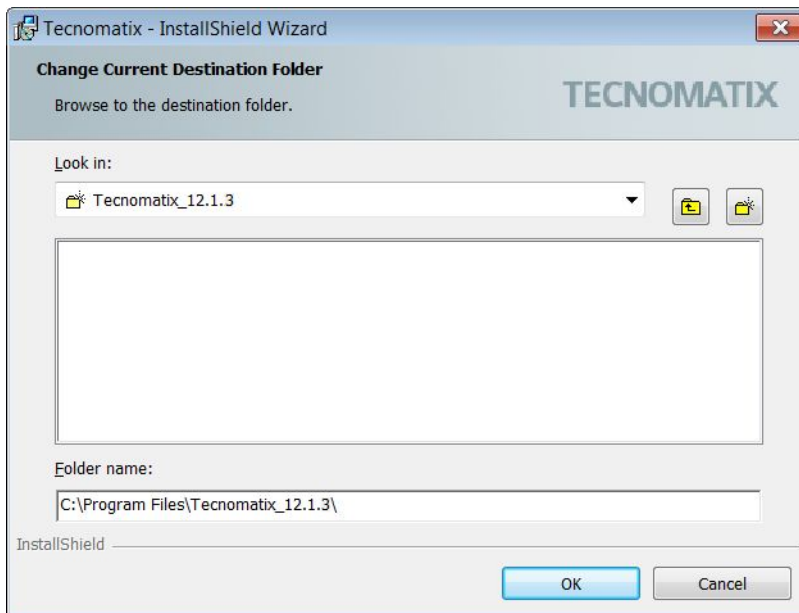
1. From the *Welcome* screen, click **Next**. The *Setup Type* dialog is displayed:



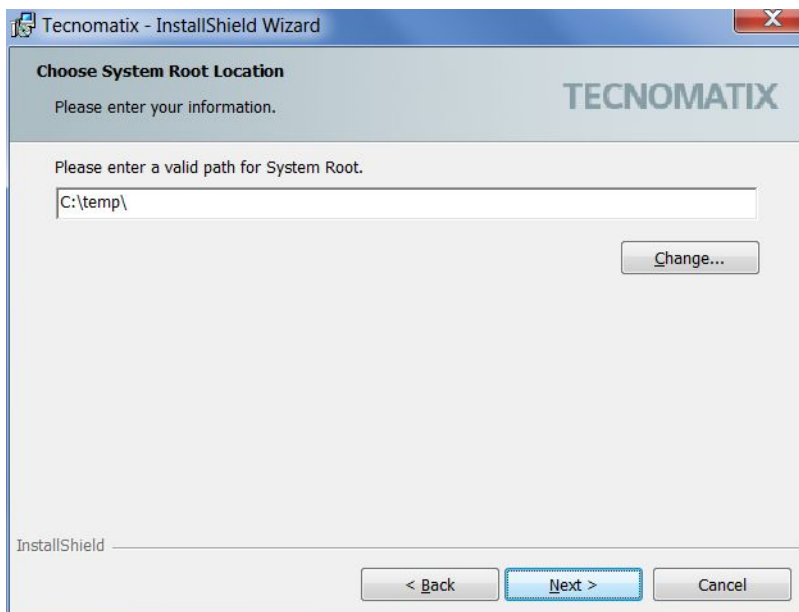
2. Select **Install eMServer** and click **Next**. The *Custom Setup* dialog is displayed.



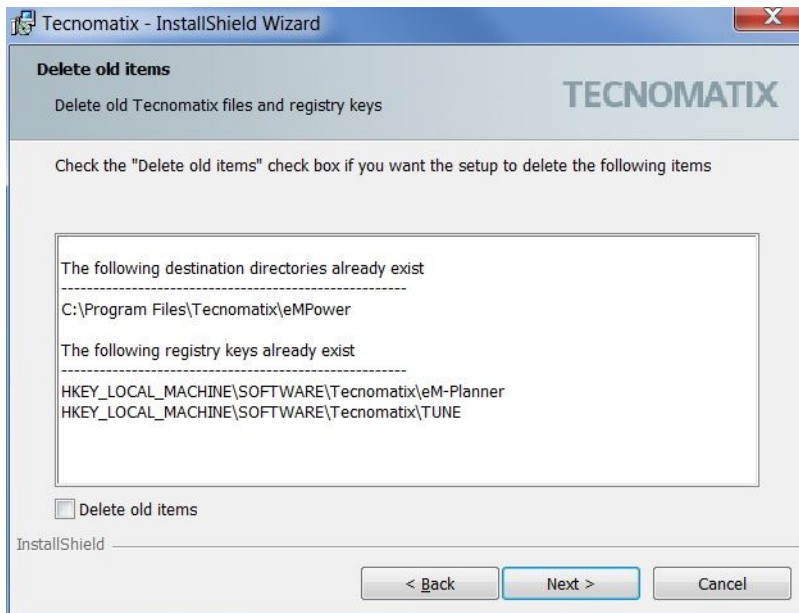
3. (Optional) The default location is C:\Program Files\Tecnomatix\emPower. If a different location is required, click **Change**. The following window is displayed:



Choose the folder in which you want Tecnomatix to be installed and click **OK**. The *Custom Setup* dialog reappears. Click **Next**. The *Choose System Root Location* dialog for the eMServer system root is displayed:

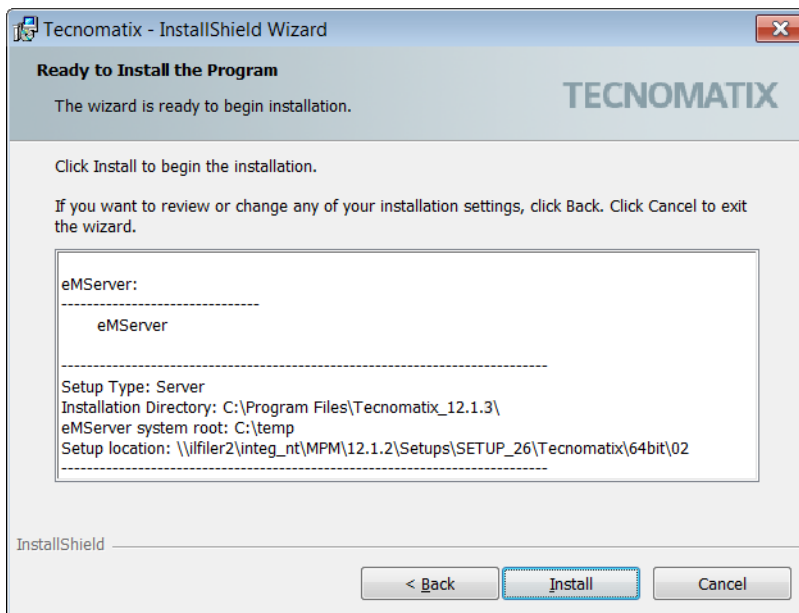


4. Click **Change** to specify the destination of the eMServer system root (UNC paths are also accepted, but make sure that the SystemRoot is a separate folder under the shared one), and click **Next**. The *Delete Old Items* dialog is displayed.

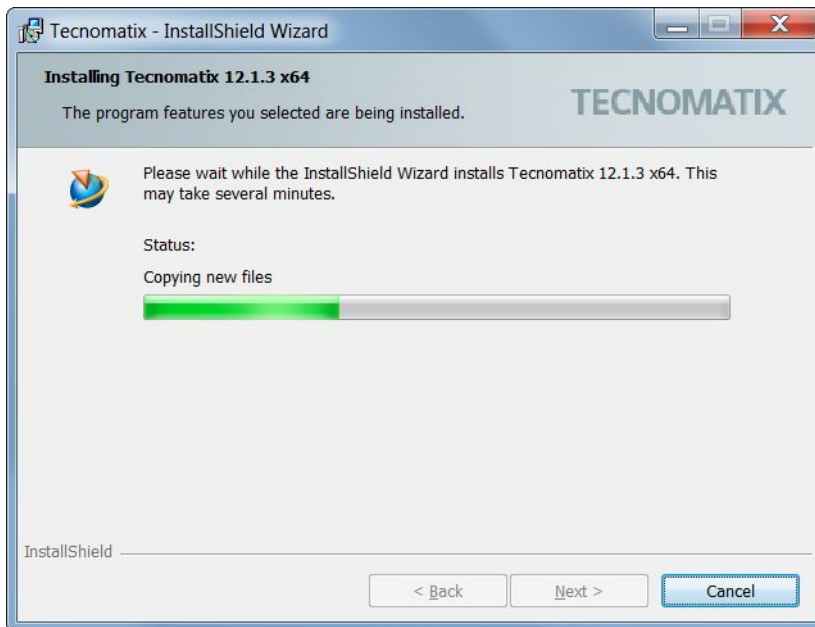


Check **Delete old items** if you wish to delete the items that the setup program has detected remaining from previous Tecnomatix installations. If you do not wish to delete these items, leave the checkbox clear.

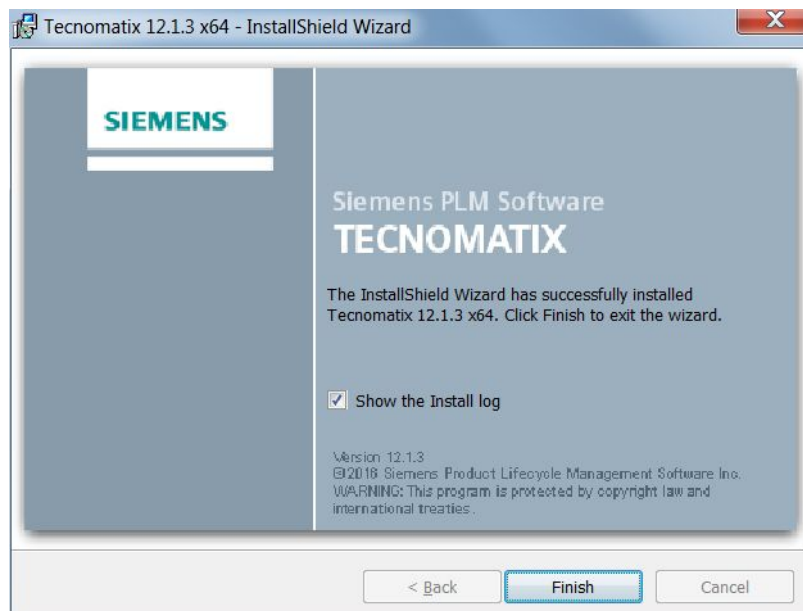
5. Click **Next**. The *Ready to Install* dialog is displayed:



6. Click **Install**. The *Installing Tecnomatix* dialog displays with a progress bar, enabling you to track the progress of the installation.



When the installation process is complete, the following message is displayed:



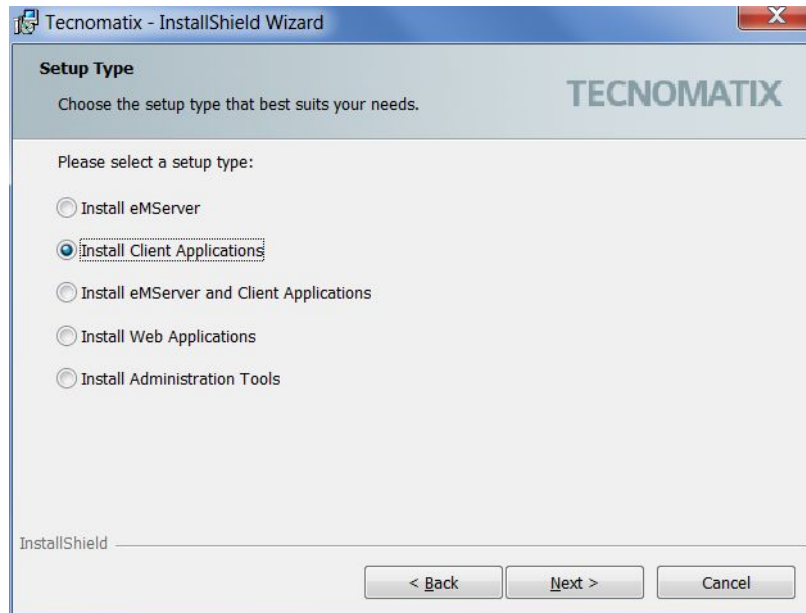
Performing a Tecnomatix Client Installation

Notes:

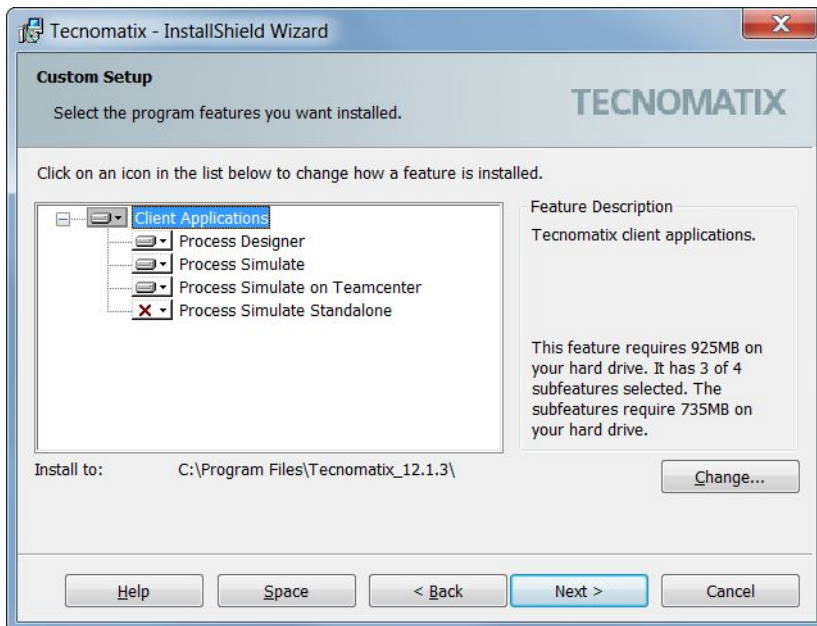
- When performing a Client installation, administration tools (available in Start > Programs > Tecnomatix > Administration Tools) are installed automatically.
- The AdminConsole runs facing the remote eMServer that you define in the installation.
- When performing a Client installation, the fully qualified name of the server should be available on the client (either via the DNS or by specifying it explicitly in the hosts file).

Performing a Client Installation

1. From the **Welcome** screen, click **Next**. The *Setup Type* dialog is displayed:

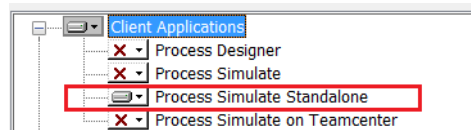


2. Select **Install Client Applications** and click **Next**. The *Custom Setup* dialog is displayed:

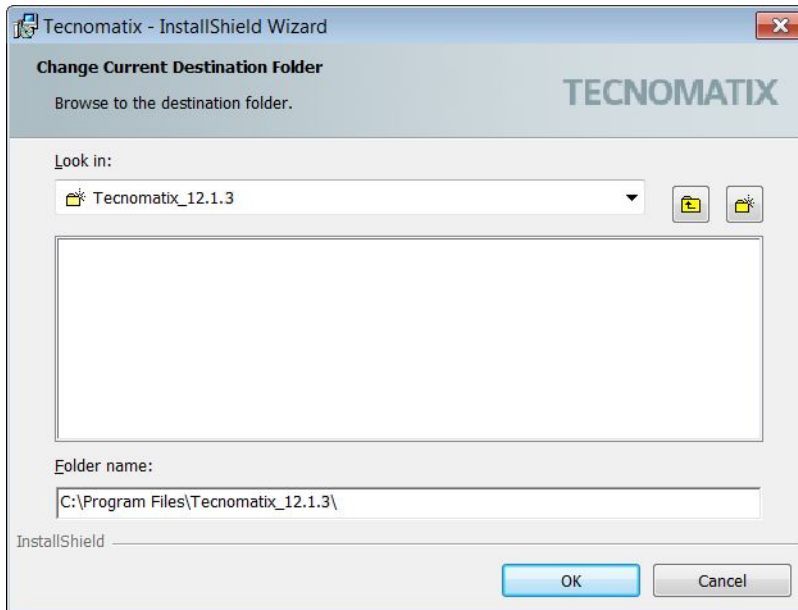


Note

The **Process Simulate Standalone** installation is an option for users who only need to work in disconnected mode. Choosing this setup installs just Process Simulate Standalone (Disconnected) without Process Simulate eMServer. All Process Simulate Disconnected capabilities are fully supported.

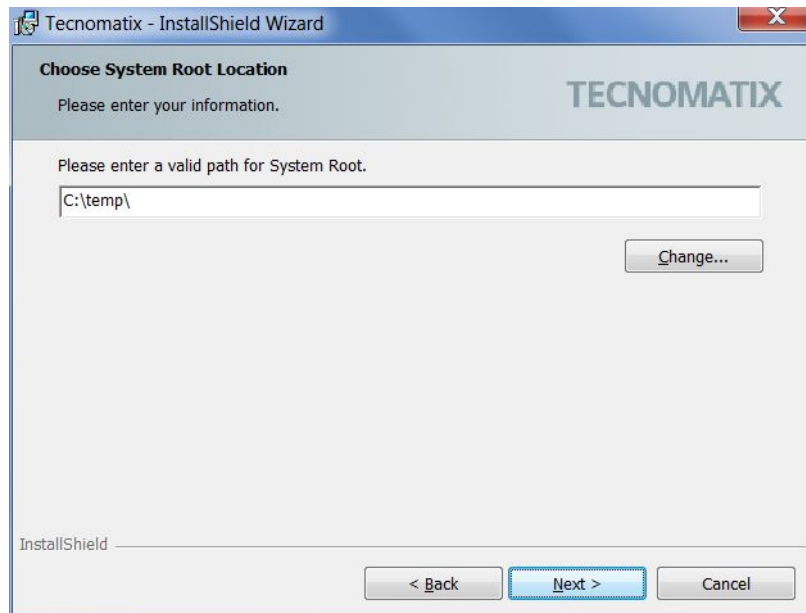


3. (Optional) The default location is **C:\Program Files\Tecnomatix\leMPower**. If a different location is required, click **Change**. The following window is displayed:

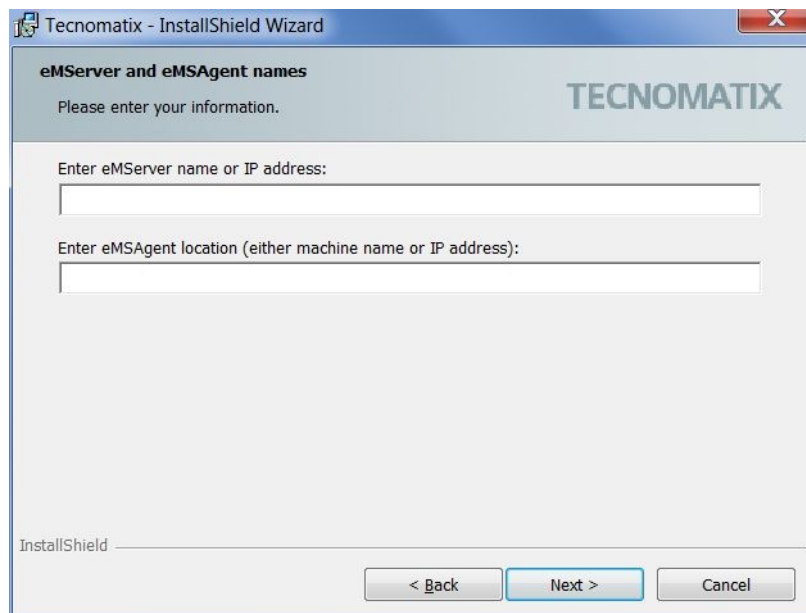


Choose the folder in which you want Tecnomatix to be installed and click **OK**. The *Custom Setup* dialog reappears.

4. Select the **Client Applications** (selecting the parent **Client Applications** node automatically selects all of its associated applications).
5. Click **Next**. The *Choose System Root Location* dialog is displayed:

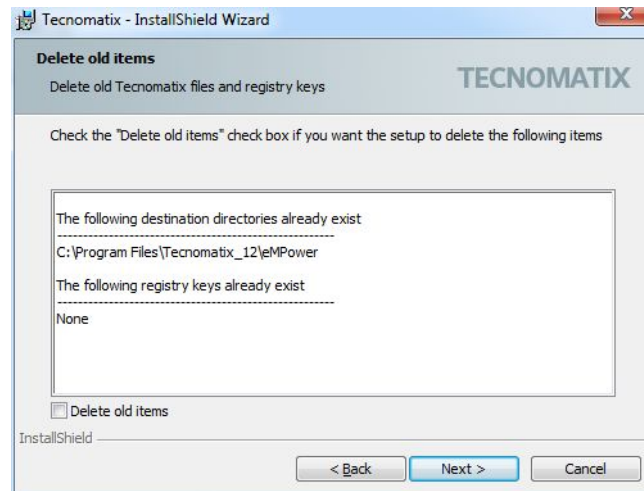


6. Click **Change** and navigate to the system root of the eMServer. Click **OK** and **Next**. The *eMServer and eMSAgent Names* dialog is displayed:



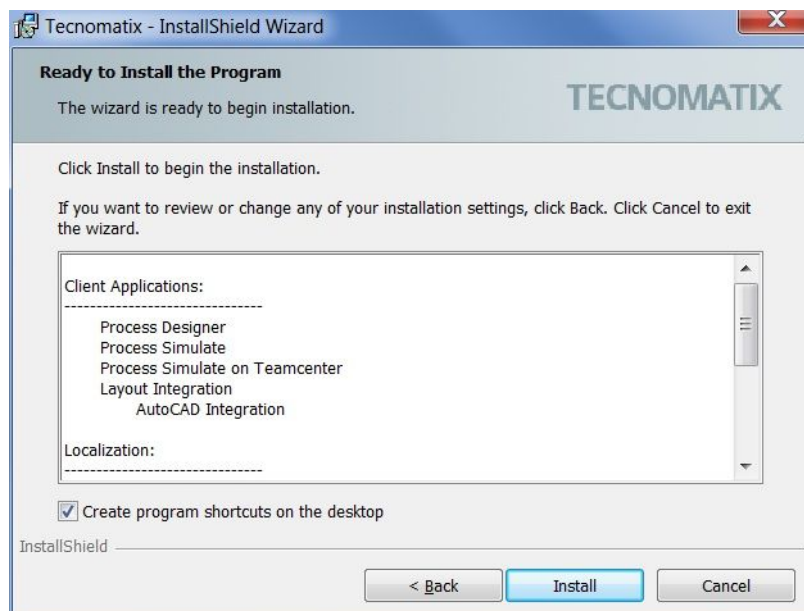
This dialog enables you to select an eMServer and the Notification Agent to which your client application will connect. The system pings the server and the notification agent in order to check that there is a working connection. Note however, that the installation continues even if the ping fails.

7. In the text box, enter the eMServer and the Notification Agent server name. Ensure that your entry contains an active server installation.
8. Click **Next**. The *Delete Old Items* dialog is displayed:

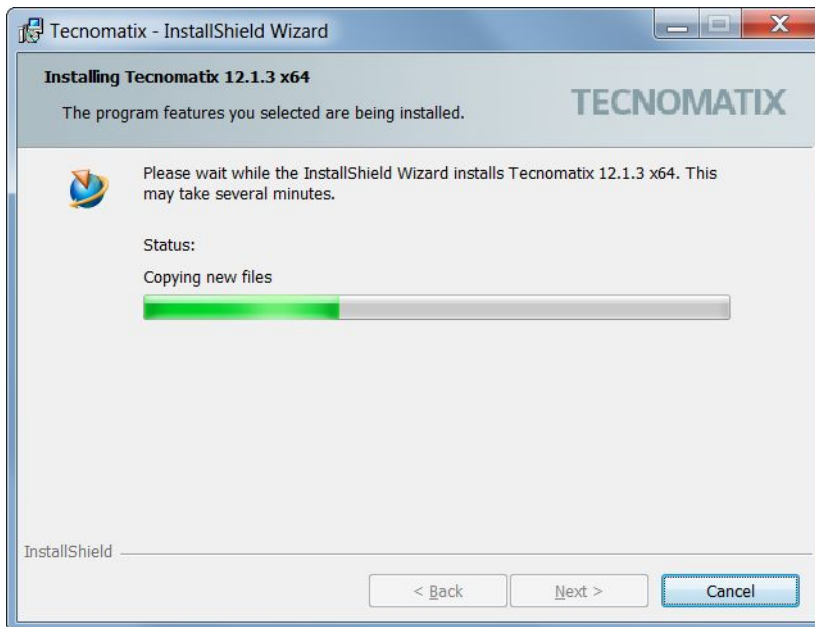


Check **Delete old items** if you wish to delete the items that the setup program has detected remaining from previous Tecnomatix installations. If you do not wish to delete these items, leave the checkbox clear.

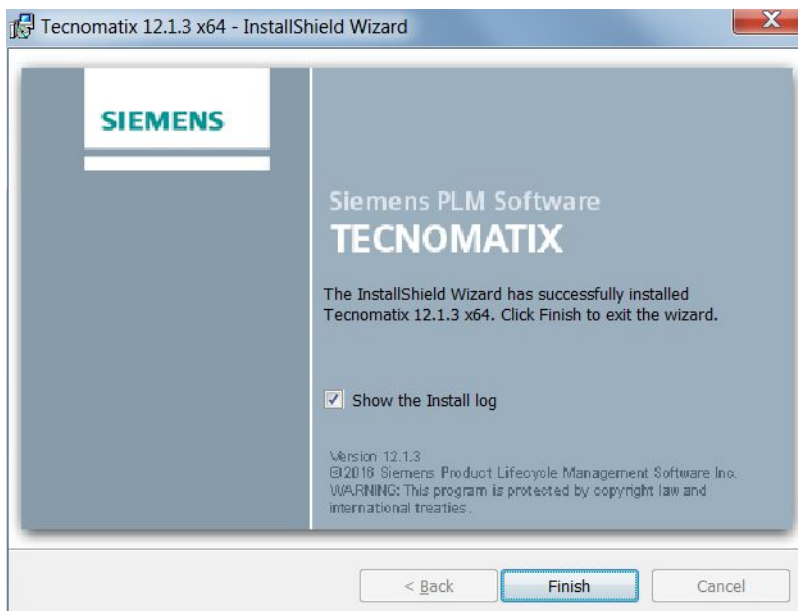
9. Click **Next**. The *Ready to Install* dialog is displayed:



10. Click **Install**. The *Installing Tecnomatix* dialog displays with a progress bar, enabling you to track the progress of the installation.



When the installation process is complete, the following message is displayed:



11. Click **Finish**.

Side-by-Side Installation

When installing the Tecnomatix suite of applications, you can install new client setup types while retaining your current ones. This is known as Side-by-Side Installation and is useful if you want to work with different Tecnomatix versions for multiple customers or to debug your data by running it under different software versions. One version is always active and this version is launched by default until you change the active version.

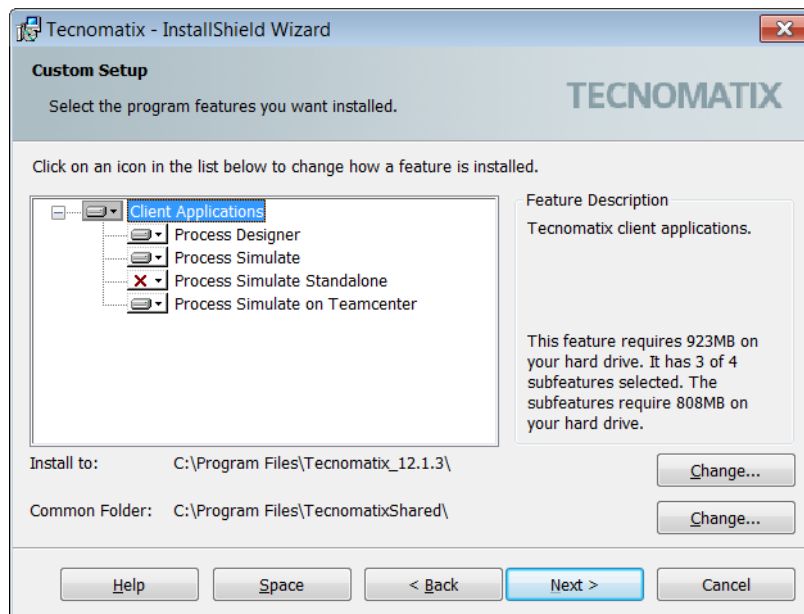
From version 12.1.3, you can install multiple eMServer—based or multiple Process Simulate on Teamcenter versions. For example, you can install an earlier eMServer-based version (e.g., 11.1, 12.1) and then eMServer-based version 12.1.3 on the same machine. Similarly, you can install Process Simulate on Teamcenter version 12.1.1 and then version 12.1.3 on the same machine.

To perform side-by-side installation:

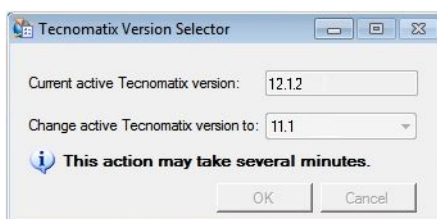
Note

- This procedure assumes that you have a currently installed version of Tecnomatix applications (including add ons).
- From version 12.1.3, multiple eMServer installations of different versions are supported. You can now install an earlier eMServer-based version (e.g., 11.1, 12.1) and then eMServer-based version 12.1.3 on the same machine.
- When installing two or more Tecnomatix versions as Side By Side, make sure to install them in ascending order of versions. For example, first install version 11.1 and then version 12.1.3. In case a higher version is already installed, you must remove it, then install the lower version and then reinstall the higher one.

1. Install the new Tecnomatix version.



2. To access the selector, right-click the **Tecnomatix Version Selector** icon and select **Run as administrator**.



The **Current active Tecnomatix version** is a read-only field and notifies you which version is currently active.

Note

You can also view the current active version by running the **mpmversion** command from the command prompt.

3. If you wish to change to another version, right-click the **Tecnomatix Version Selector** icon and select **Run as administrator**. The **Tecnomatix Version Selector** appears.
4. Set **Change active Tecnomatix version to** to the desired version and click **OK**. The system switches to the version you selected. This may take a few minutes. When the action is complete, the system displays a success message and offers you the option to view the installation log file.

Note

- You can only uninstall the *active* version. Uninstalling a version that is not currently-active may result in an unstable system. Therefore, before running the uninstall procedure, use the **Tecnomatix Version Selector** to activate the version you wish to uninstall.
- If you remove the older version of two Side by Side installations (older than 12.1.1), the remaining (newer) version does not automatically become the active version. Use the **Tecnomatix Version Selector** to switch to it.

Running Process Simulate Disconnected/eMS Applications from the Command Line

You can start Process Simulate Disconnected and Process Simulate eMS applications from the command line, loading specified data, as follows:

- **Process Simulate Disconnected**

use the following syntax:

```
tune.exe /c NewAssembler /l offline /file {file}
```

where {file} is the full .psz file name to load, for example:

```
tune.exe /c NewAssembler /l offline /file D:\ps.psz
```

Results:

- o Start Process Simulate in Disconnected mode.
- o Load the *ps.psz* file.

- **Process Simulate eMS**

use the following syntax:

```
tune.exe /c NewAssembler /l ems /user {user} /pass {pass} /project {project} /study {studyId}
```

where

{user} is the user name (e.g., *administrator*)

{pass} is the password

{project} is the name of the project. If the project name contains captions, specify those with quotation marks (e.g., "*15" ProjectA "34"*")

{studyId} is the id of the study

For example, running:

```
tune.exe /c NewAssembler /l ems /user administrator /pass 1234 /project 'ProjectA' /study 420668
```

Results:

- o Start Process Simulate eMS.
- o Login as *administrator* using the password *1234* .
- o Open *ProjectA*.
- o Load study id *420668*.

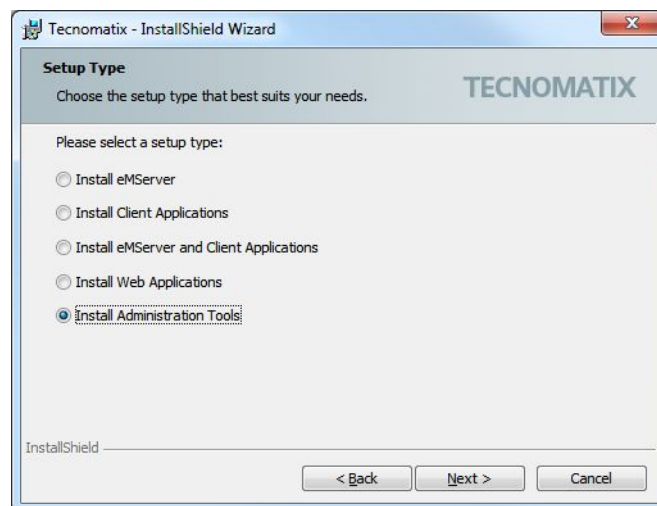
•

Performing a Tecnomatix Administration Tools Installation

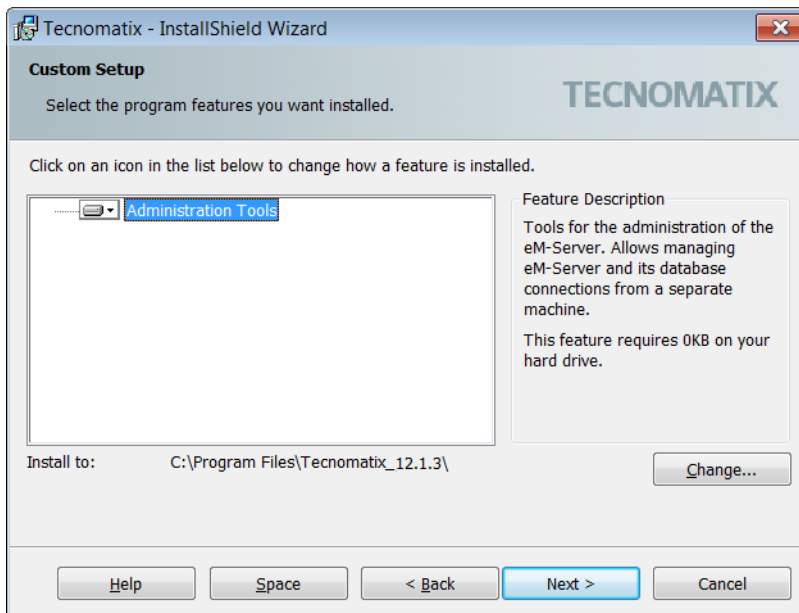
Notes:

- For 64bit installations only.
- The AdminConsole runs facing the remote eMServer that you define in the installation.
- When performing an Administration Tools installation, the fully qualified name of the server should be available on the client machine (either via the DNS or by specifying it explicitly in the hosts file).

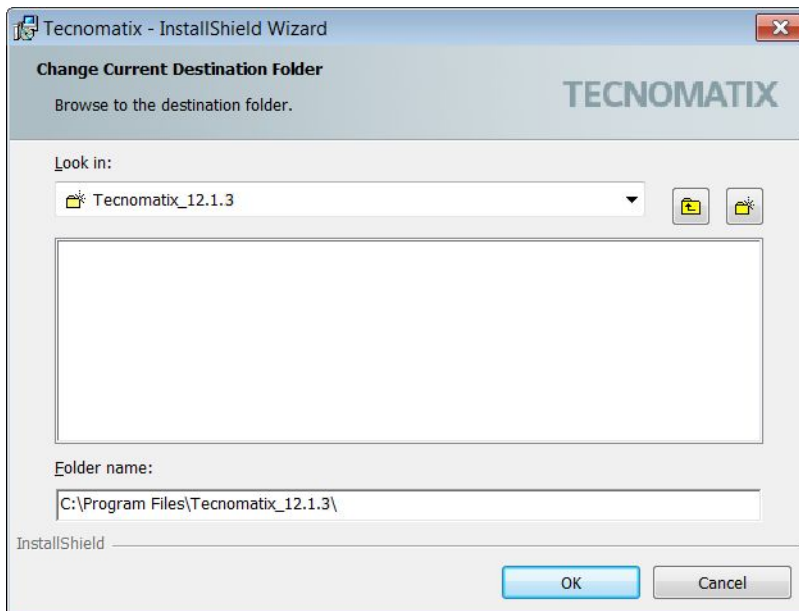
1. From the Welcome screen, click **Next**. The Setup Type dialog is displayed:



2. Select **Install Administration Tools** and click Next. The *Custom Setup* dialog is displayed:

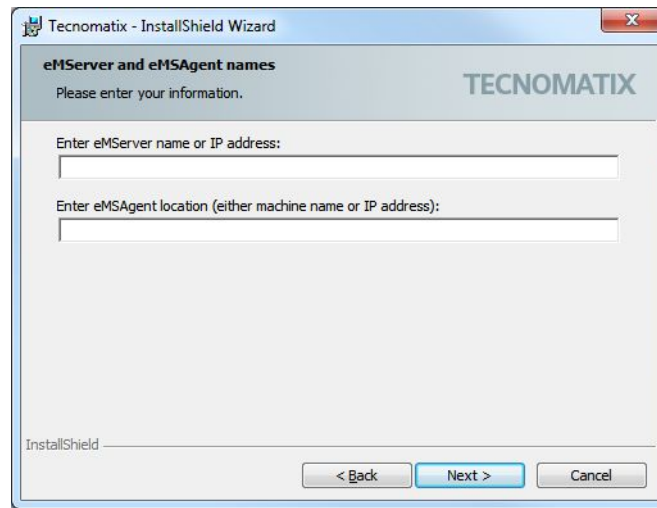


3. (Optional) The default location is C:\Program Files\Tecnomatix\emPower. If a different location is required, click **Change**. The following window is displayed:



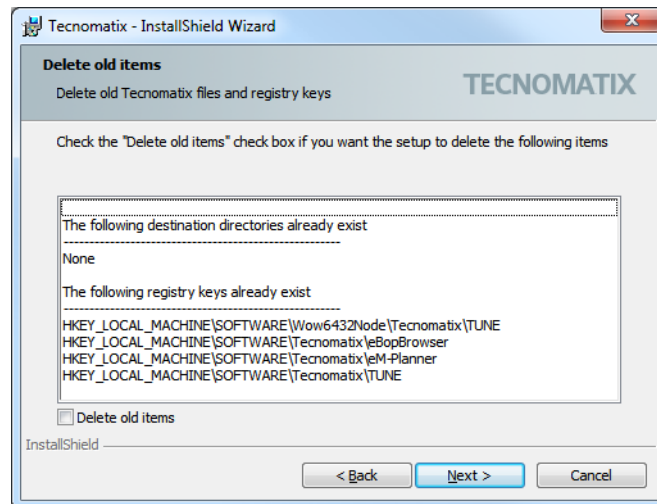
Choose the folder in which you want Tecnomatix to be installed and click **OK**. The *Custom Setup* dialog reappears.

4. Click **Next**. The *eMServer and eMSAgent Names* dialog is displayed:



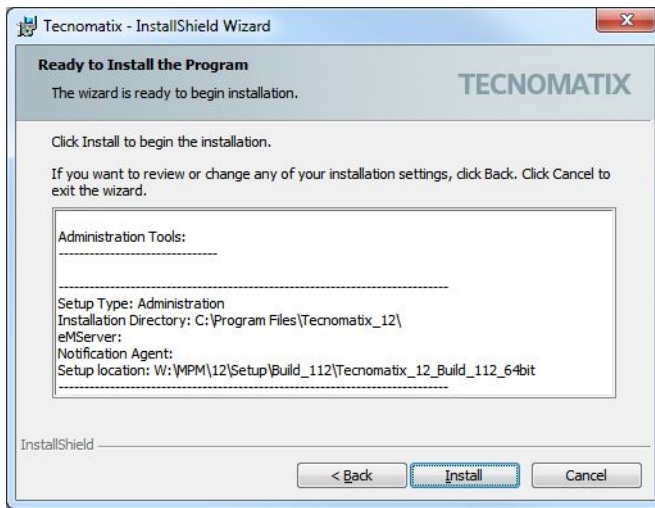
This dialog enables you to select an eMServer and the Notification Agent to which your client application will connect. The system pings the server and the notification agent in order to check that there is a working connection. Note however, that the installation continues even if the ping fails.

5. In the text box, enter the eMServer and the Notification Agent server name. Ensure that your entry contains an active server installation.
6. Click **Next**. The *Delete Old Items* dialog is displayed:

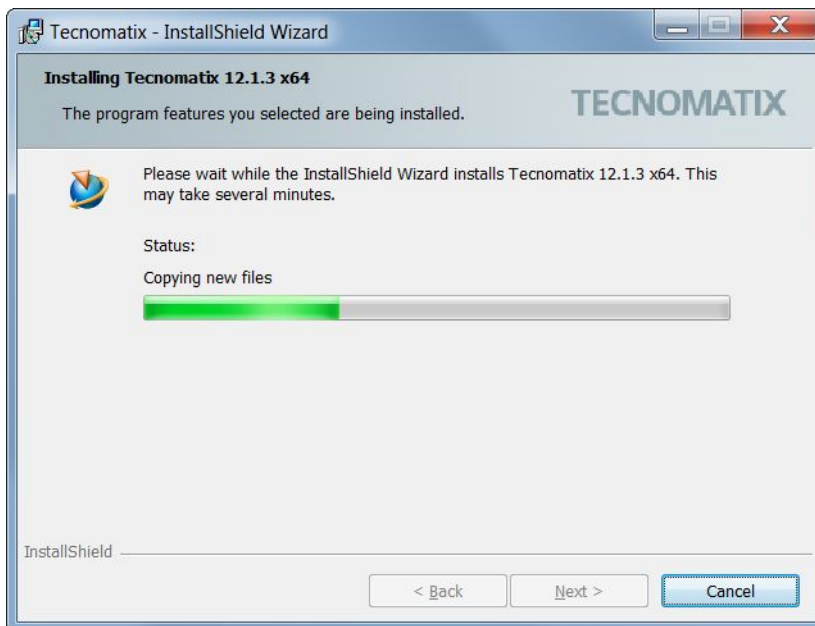


Check **Delete old items** if you wish to delete the items that the Setup program has detected remaining from previous Tecnomatix installations. If you do not wish to delete these items, leave the checkbox clear.

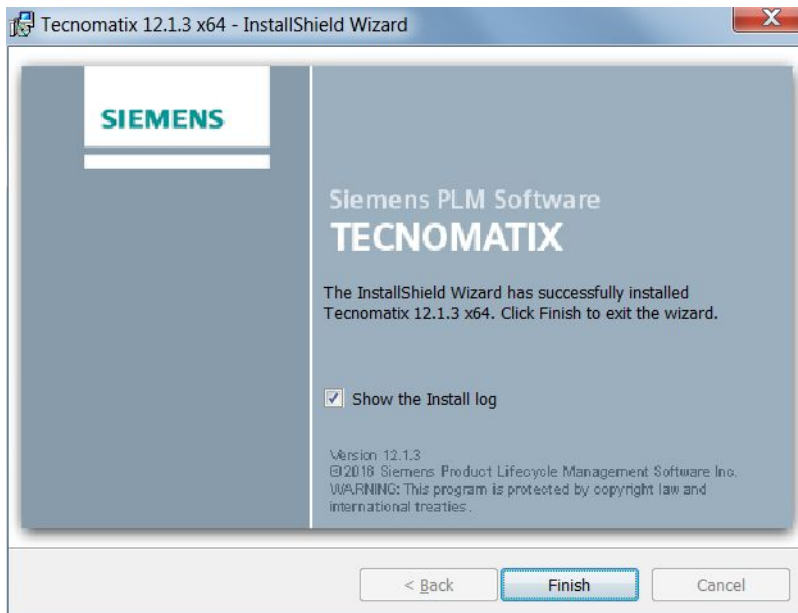
7. Click **Next**. The *Ready to Install* dialog is displayed:



8. Click **Install**. The *Installing Tecnomatix* dialog displays with a progress bar, enabling you to track the progress of the installation.



When the installation process is complete, the following message is displayed:



9. Click **Finish**.

Performing a Tecnomatix Silent Installation

Tecnomatix provides an option for silent installation using the standard MSI silent installation procedures and parameters. Tecnomatix applications can be installed via the command line, while specifying the desired products and installation location.

All parameters submitted using the Installation Wizard are given as command line parameters according to the rules specified in the table below:

Parameter Name	Purpose	Example value
INSTALLDIR	The fully qualified path to a target folder on the hard drive. By default, the INSTALLDIR path is set to resolved based on the [ProgramFilesFolder]Tecnomatix_ <VERSION>	"C:\Program Files\Tecnomatix_12.1"
EMSSYSTEMROOT	The location of the eMServer file system root. That location can be either a fully qualified directory name or a UNC path; it must not include a trailing backslash.	"\\machine\share\sys_root"
EMSSERVERNAME	The machine name or the IP number of the eMServer.	"il-hr-ems"
EMSAGENTNAME	The machine name or the IP number where the eMSagent is installed on.	"il-hr-ems"
SILENTMODE	Enable silent installation, must be one of two: TRUE FALSE	"TRUE"
SETUPTYPE	The setup configuration, must be one of the following values: Client Server Standalone WEBAPPS Administration	"Client"
ADDLOCAL	List of setup features to be installed (see ADDLOCAL value table for details)	
REBOOT	Surpresses certain prompts for a reboot of the system. Must have one of the following values (see REBOOT table for details): Force Surpress ReallySurpress	Surpress
CREATEDESKTOPICONS	Create program shortcuts on the desktop, must be one of two: TRUE FALSE	"TRUE"
SYMLINK_VAR	The fully qualified path to the Tecnomatix common folder on the hard drive. Note: This property is needed only when installing Tecnomatix as Side by Side.	"C:\Program Files\TecnomatixShared"

Notes :

- All of the parameter's values must be enclosed in double quotes (").
- The parameter's names and the SETUPTYPE, SILENTMODE values are case sensitive.

The Reboot parameter contains the following options:

REBOOT value	Description
Force	Always prompt for a restart at the end of the installation. The UI always prompts the user with an option to restart at the end. If there is no user interface, and this is not a multiple-package installation, the system automatically restarts at the end of the installation. If this is a multiple-package installation, there is no automatic restart of the system and the installer returns <code>ERROR_SUCCESS_REBOOT_REQUIRED</code> .
Suppress	Suppress prompts for a restart at the end of the installation. The installer still prompts the user with an option to restart during the installation whenever it encounters the ForceReboot action. If there is no user interface, the system automatically restarts at each ForceReboot. Restarts at the end of the installation (for example, caused by an attempt to install a file in use) are suppressed.
ReallySuppress	Suppress all restarts and restart prompts initiated by ForceReboot during the installation. Suppress all restarts and restart prompts at the end of the installation. Both the restart prompt and the restart itself are suppressed. For example, restarts at the end of the installation, caused by an attempt to install a file in use, are suppressed.

Tecnomatix Silent Install

The content of the ADDLOCAL variable should be derived from the following table:

Configuration	Feature name	MSI Parameters
All	Shared to all configurations \ features	N_BASE_64
Client	Shared to all client features	N_CLIENT_64
	Process Designer	N_PD_64
	Process Simulate	N_PS_64
	Process Simulate Standalone	N_PS_DIS_64
	Process Simulate on Teamcenter	N_PS_ON_TC_64
	Localization	Localization_64
Server		English_64 *
		N_SERVER_64
		EMPLANNER_Server_64
Administration Tools		N_AdminTools_64
		N_SERVER_64
		EMPLANNER_Server_64
Web		N_AdminTools_64
		AdministrationTools_64
	Shared to all WEB features	N_WEB
	Process Reports Server	EMREPORTS
	Web-Based BOP Manager	eBopServer
		eBopServer_64
		eBopServer_64_Only**

* English_64 installed by default even if it's omitted

** eBopServer_64_Only needed only when installing WEB only or installing StandAlone without any Client

Note : All features should be comma-separated without spaces.

Example of silent installation code for full client 32bit:

```
@echo off
```

```
set DVD_LOC=[DVD_LOC]
```

```

set INSTALLDIR_VAR=C:\ProgramFiles
set SETUPTYPE_VAR=Client
set EMSSYSTEMROOT_VAR=c:\temp\System_root
set EMSSERVERNAME_VAR=[EMSSERVERNAME]
set EMSAGENTNAME_VAR=[EMSAGENTNAME]
set CREATEDESKTOPICONS_VAR=TRUE
set
ADDLOCAL_VAR=N_BASE_64,N_CLIENT_64,N_PD_64,N_PS_64,N_PS_ON_TC_64,Localization_64,English_6
set MSI_LOGFILE_VAR=%TEMP%\Tecno12.1.3_64bit_MSI_Install.log

```

```

echo =====
echo =====Confirmation=====
echo == Installation location:
echo %DVD_LOC%
echo == Setup type: %SETUPTYPE_VAR%
echo == EMS system root: %EMSSYSTEMROOT_VAR%
echo == eMServer name: %EMSSERVERNAME_VAR%
echo == Notification agent name: %EMSAGENTNAME_VAR%
echo =====
echo.

```

pause Press any key to begin installation

echo Installing Tecnomatix 12.1.3 x64 Client only...

```

"%DVD_LOC%\Setup\64bit\Setup.exe" /s /v"/qn INSTALLDIR=\"%INSTALLDIR_VAR%\"
SILENTMODE=\"TRUE\" SETUPTYPE=\"%SETUPTYPE_VAR%\"
EMSSYSTEMROOT=\"%EMSSYSTEMROOT_VAR%\"
EMSSERVERNAME=\"%EMSSERVERNAME_VAR%\"
EMSAGENTNAME=\"%EMSAGENTNAME_VAR%\"
CREATEDESKTOPICONS=\"%CREATEDESKTOPICONS_VAR%\"
ADDLOCAL=\"%ADDLOCAL_VAR%\" /! * %MSI_LOGFILE_VAR%

```

```
IF %ERRORLEVEL% NEQ 0 (
```

```
echo Failed installing Tecnomatix 12.1.3 x64 Client only, check the log files from more details.
```

```
) ELSE (
```

```
echo Finished installing Tecnomatix 12.1.3 x64 Client only.
```

)

pause

Example installation batch files can be found in the **SilentInstall** folder.

Installation Information for Administrators

Overview

The Tecnomatix installation program uses native *msi* (Basic MSI project) compiled with InstallShield 2008 to achieve a robust installation program and maximum transparency to the installation process.

During the installation, the setup executes several custom actions according to the setup type and hardware/software configuration of the target machines (for example, platform 32 or 64bit, operating system, etc.). These custom actions are listed in the tables below with brief descriptions of their purpose and values in the installation.

You can assign additional **Administrative Parameters** to the installation to block some of the setup default behavior.

During the setup, the installer invokes the following additional applications (installed with the Tecnomatix application files):

- **PackageAdmin.exe** - creates the eMServer COM+ application
- **RegSvr32.exe** - registers some of the setup COM objects
- **RegAsm.exe** - registers .NET assemblies
- **ping.exe** - checks the eMServer and eMSAgent machines (used only with full UI installations)
- **eMSAgent.exe** - installs the DCOM eMSAgent application
- **regtlib.exe** - registers some type libraries
- **regedit.exe** - adds some information to the registry
- **rundll32.exe** - installs some *.inf files during the setup runtime
- **net.exe** - stops or starts network services during setup runtime (for example, eMSAgent service)
- **tecnoreg.exe** - launches RegSvr32.exe, RegAsm.exe, and regtlib.exe to register files
- **wul.exe** - creates a report of Microsoft Windows updates (used by Tecnomatix Doctor)
- **installtools.dll** - this is an internal c# dll and enables running several install actions, for example delete folder
- **pkzip.exe** - extracts zip files

Custom Actions in Tecnomatix Setup

BackupFilesRegistry	Backup files and registry before installing the setup
Block32MSIOn64Machine_If64Installed	Block 32bit MSI on 64bit machine if 64bit Server configuration was not installed
Block64MSIOn64Machine_If32Installed	Block 64bit MSI on 64bit machine if 32bit was installed
BlockModify	Block Modify of Server \ Administration Tools only installation
BlockUpgrade_IfHybridInstalled	Not in use (Block upgrade if hybrid configuration is installed)
Change_ConfigFile	Update the eMS_Config.cfg file
Change_export_xml	Update the server.xml for the Web Applications
CheckCadtranslators_installed	Not in use
CheckCleanMachine	Check for old Tecnomatix folders and registry keys already exists on the machine
CheckCondition	Check if setup installed on supported OS and if previous versions of Tecnomatix already installed
CheckCPU	Check machine CPU properties using CHKCPU.EXE
CheckCrossPlatform	Check special hybrid configuration and OS
CheckEMSSystemRoot	Check if the selected eMServer System Root exists
CheckInstalledProducts	Check the Installed features when running on maintenance mode
CheckInstalledSetupType	Check the Installed SetupType when running on maintenance mode
CheckInstallProducts	Check for products that will be installed according to the CustomSetup dialog
CheckLocalization	Check if German localization was selected
CheckMajorVersion	Not in use
CheckProgramRunning	Check if Tecnomatix applications currently running before installing setup as side by side
CheckServerCondition	Show message about the network COM+ access when installing on Server 2003
CheckTreeRequirements	Check for setup requirements according to the features selected by the user
CheckUpgradeParameters	Not in use (On major upgrade check for installed SETUPTYPE, EMSSERVERNAME, EMSAGENTNAME, EMSSYSTEMROOT and INSTALLDIR properties and if German localization is installed)
CheckVersionUpgrade	Not in use
Clear_RunAs_MSI	VB script action that solve %USER_PROFILE% issue
CopyLocalizationFiles	Update [INSTALLDIR] folder with German localization files if German is the default language
CopyLogFile	Copy the install and Install_Summary logs from %TEMP% directory to eMPower\SetupLogs folder
CreateDirectoriesAdminConsole	Creates empty directories
CreateDirectoriesClient	Creates empty directories
CreateLogFile	Create the Install \ UnInstall log file
CreateLogFileMaintenance	Create the Maintenance log file
CreateLogFileRemove	Not in use
CS_DeleteOldItems	Delete existing folders
DeleteRegistry	Delete existing registry keys
DisplayReadyToInstall	Set the text displayed in the ReadyToInstall dialog and the TecnomatixInstallationlog
eMPOwerCopySystemRoot	Copy eMServer System Root files to the directory chosen in the setup wizard
ExecuteClientRegistration	Execute Client Registration
ExecuteClientRegistration_SBS	Execute Client Registration for Side by Side
ExitSetup	Update the setup log in case the user choose to exit the setup
ExtractHelpFiles	Extract help files that installed as zip format
FeatureTreeAdminTools	Set features that will be installed \ not installed when choosing the AdminTools setup type
FeatureTreeClient	Set features that will be installed \ not installed when choosing the Client setup type
FeatureTreeClient_Maint	Set features that will be installed \ not installed when choosing the Client setup type on Modify
FeatureTreeClient_Silent	Set features that will be installed \ not installed when choosing the Client setup type on silent install
FeatureTreeSA	Set features that will be installed \ not installed when choosing the Client Server setup type
FeatureTreeSA_Silent	Set features that will be installed \ not installed when choosing the Client Server setup type on silent install
FeatureTreeST	Not in use
FeatureTreeServer	Set features that will be installed \ not installed when choosing the Server setup type
FeatureTreeWEB	Set features that will be installed \ not installed when choosing the Web setup type
FeatureTreeWEB_Maint	Set features that will be installed \ not installed when choosing the Web setup type on Modify
FinishUninstall	Remove folders and registry keys remains after Uninstall
FirstUIAfter	Enable Tomcat installation in case the Standalone was selected and it include the WEB
Install_Tomcat	Update Tomcat files when installing Web Applications
MTSPackage_Create	Create the eM-Server COM+ Application using the PackageAdmin.exe
MTSPackage_Remove	Remove the eM-Server COM+ Application using the PackageAdmin.exe
OpenControllersFolder	Not in use
RegEmsAgent	Register the eMSAgent.exe files
RegisterFiles	Register the files with the TecnoReg.exe tool

RemovePrograms	Not in use
ResourceBrowserSettingsHandling	Updates the resource_browser.conf with setup parameters
RunUninstall	Execute files un-registration done by install script
Set_Install_SYMLINK_PATH	Set the SYMLINK property by checking if it ends with TecnomatixShared
SetCnfgFolder	Set the CnfgFolder value on the registry
SetComponentsState	Set special components \ features state
SetCreateDesktopIcons	Check If setup should create desktop shortcuts
SeteMSClientParameters	Check connection and set the eMServer and eMS Notification Agent parameters
SetEnvironment	Not in use
SetHybridConfiguration	Not in use
SetInstallDir	Set the INSTALLDIR property by checking if it ends with Tecnomatix [TECNOMATIX_VERSION]
SetINSTALLDIR32bit	Set the INSTALLDIR property to [ProgramFilesFolder]Tecnomatix\emPower when running the 32bit MSI
SetINSTALLDIR64bit	Set the INSTALLDIR property to [ProgramFiles64Folder]Tecnomatix\emPower when running the 64bit MSI
SetINSTALLDIRShort	Set the INSTALLDIR property as short path
SetIS_MAJOR_UPGRADE_32	Not in use (On major upgrade reset the IS_MAJOR_UPGRADE_32 property when installing the 64bit setup)
SetIS_MAJOR_UPGRADE_64	Not in use (On major upgrade reset the IS_MAJOR_UPGRADE_64 property when installing the 32bit setup)
SetJavaHome	Check if JAVA is installed and set JavaHome
SetMSIPLATFORM64bit	Set the MSIPLATFORM property to 64 when running the 64bit MSI
SetShowDialogs	Set MSI properties according to Setup Type
SetSideBySide	Set Tecnomatix registry structure in case of Side by Side
SetSpaceBall	Check if setup should install the SpaceBall integration
SetSYMLINK	Setup value of SYMLINK property used for Side by Side
SetSYMLINKVal	Setup value of SYMLINK property used for Side by Side on silent install
SetTecnomatixRoot	Set the TECNOMATIXROOT_ID folder property to the parent of INSTALLDIR
SetTECNOMATIX_SHARED_ID32bit	Set Tecnomatix shared folder default path for 32 bit
SetTECNOMATIX_SHARED_ID64bit	Set Tecnomatix shared folder default path for 64 bit
SetTecnomatixSymlinkFolder	Used for Side by Side
SetTecnomatixSymlinkFolderUninstall	Used for Side by Side
SetVar_RUN_EMSEVER	Currently not in use
SetVar_RUN_TECNOREG	Currently not in use
SetVar_SIDEBYSIDE_MODE	Currently not in use
SetVar_SKIP_EMSEVER_MODE	Currently not in use
ShowErrorPlatform	Block unsupported configurations
ShowLog	Open the install \ Uninstall log when setup finished
ShowMessageFor64	Not in use
ShowMessageForUninstall	Not in use (Display message for manual steps need to complete the uninstall after uninstall has finished)
TxVersionSelectorSwitchShortcuts	Used for Side by Side
UnRegEmsAgent	Not in use
UnRegisterFiles	Unregister the files with the TecnoReg.exe tool
UpdateRegistryForLocalization	Not in use
VerifyVersionB4Maintenance	Check the version being maintained is installed and active

Note: Some of the custom actions are currently disabled - they are planned for use in future patches/service packs.

Administrative Parameters

Administrators can set the following parameters (or pass them to the installation via the command line) to enable/disable some of the setup behavior and streamline the installation process. The parameters listed below can be modified according to the values in the table:

Parameter Name	Purpose	Example Value
ENABLECOPYSYSTEMROOT	Enable/Disable the copy of the files to the eMServer system root, must be one of two: TRUE FALSE (the default value is TRUE)	"FALSE"
SILENTMODE	Enable silent installation, must be one of two: TRUE FALSE	"TRUE"
TECNOREG_LOG_LEVEL	Log level of files registration errors, must be one of two: Error Info (the default value is Error, choosing Info may slow the installation process)	"Info"

Note: For silent installations, you must add the SILENTMODE parameter with the value of TRUE; it is not sufficient to specify /q to the mesiexec.

Folders and Registry Keys Affected by Tecnomatix Installations

The following table lists the folders and registry keys affected by Tecnomatix installations.

Folders *	Example
[CommonAppDataFolder]\eM-Plant	
[CommonAppDataFolder]\Tecnomatix\<APPLICATION>\<VERSION>	C:\ProgramData\Tecnomatix\Process Designer\12.1.2
[CommonFilesFolder]\Apache-Tomcat	
[CommonFilesFolder]\Tecnomatix	C:\Program Files\Common Files\Tecnomatix
[FontsFolder]	C:\WINDOWS\Fonts
[SystemFolder]	C:\Windows\System32
[INSTALLDIR]\Tecnomatix_<VERSION>	C:\Program Files\Tecnomatix_12.1.2
[SYMLINK]\TecnomatixShared **	C:\Program Files\TecnomatixShared
Registry *	
HKEY_CLASSES_ROOT	
HKEY_CLASSES_ROOT\AppID	
HKEY_CLASSES_ROOT\CLSID	
HKEY_CLASSES_ROOT\Interface	
HKEY_CLASSES_ROOT\Record	
HKEY_CLASSES_ROOT\TypeLib	
HKEY_LOCAL_MACHINE\SOFTWARE\Apache Software Foundation	
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft	
HKEY_LOCAL_MACHINE\SOFTWARE\Tecnomatix	
HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Tecnomatix	
HKEY_LOCAL_MACHINE\SOFTWARE\TecnomatixRoot **	
HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\TecnomatixRoot **	
* All these items may change depending on the installation type, OS and OS platform	
** Relevant when installing Tecnomatix as Side by Side.	

Setting the eMSAgent and eMServer to Automatic Login (Windows 2008, Windows 2012, Windows 7)

After you have completed the eMServer installation and configured the eMServer connections using the *eMServer Administration Tool*, the eMServer services are running. The users can then log in to their client applications and begin working.

An administrator generally logs in to the eMServer in order to perform specific administrative tasks using the eMServer Administration functionality described in the *Administrative and Management Tools* chapter (such as changing schemas and converting customizations). Since it is not necessary for users to access eMServer administration functionality, there are various situations where the administrator may want to have the eMServer available for users, but without logging in as an administrator, such as:

- To get the eMServer up and running quickly (for example, after an electrical power failure).

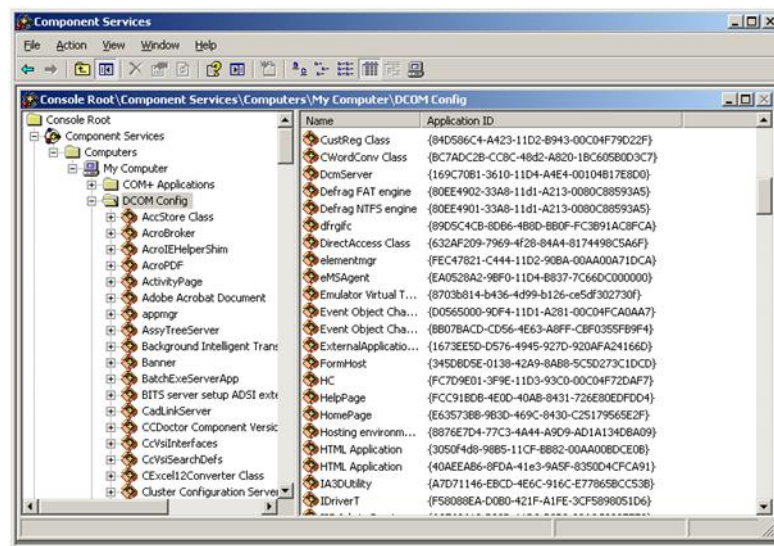
- To secure his or her workstation from access by others.

The following section describes how to connect to the application server without logging in. This consists of:

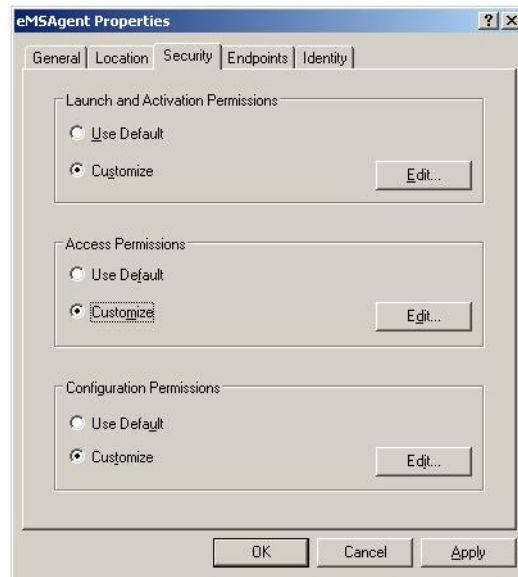
- Defining access and launch permissions from the *eMSAgent Properties* window.
- Defining the users who are permitted to log on to the eMServer from the *eMServer Properties* window.

To access the eMServer without logging in:

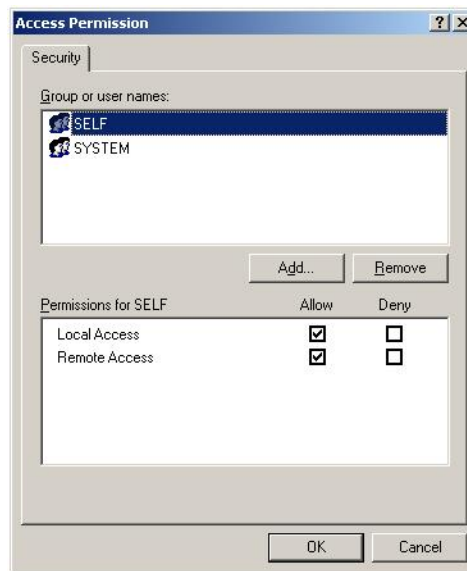
- From your Windows **Start** menu, select **Run -> dcomcnfg**. The *Component Services* window is displayed.



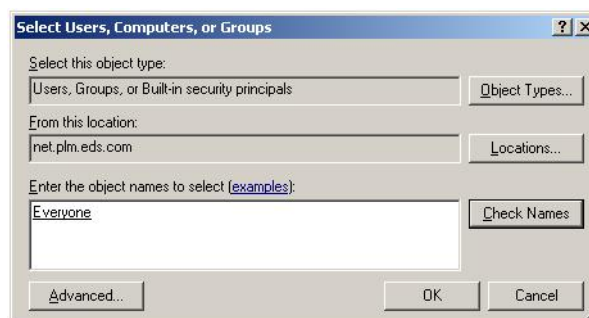
- Expand the Component Services\Computers\My Computer\DCOM Config.
- From the Applications list, select **eMSAgent** and click **Properties**. The *eMSAgent Properties* window is displayed (as shown below).
- Select the **Security** tab, as follows:



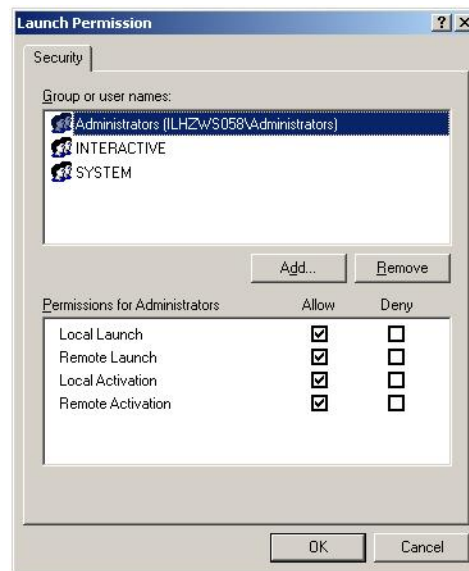
5. Select the **Customize** option for Access Permissions and click **Edit**. The *Access Permission* window is displayed:



6. Click **Add**. The *Select Users, Computers, or Groups* window is displayed:

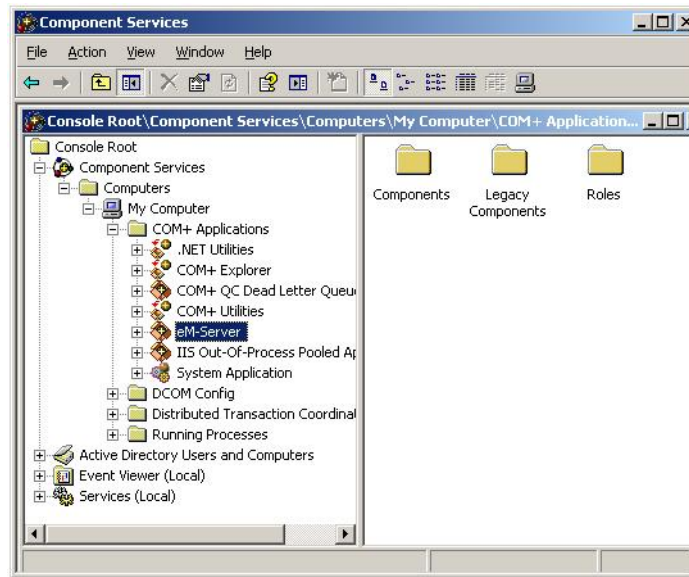


7. In the **Names** area enter the object name to select. Click **Check Names** to verify that the name you typed is valid. Click **OK** to close the window.
8. In the *Access Permissions* window select **Everyone** or select a predefined group of users and click the **Allow** checkbox for the selected item to allow access.
9. Click **OK** to close the *Access Permission* window.
10. In the *eMSAgent Properties* window, select the **Customize** option for Launch and Activation Permissions and click **Edit**. The *Launch Permission* window is displayed:

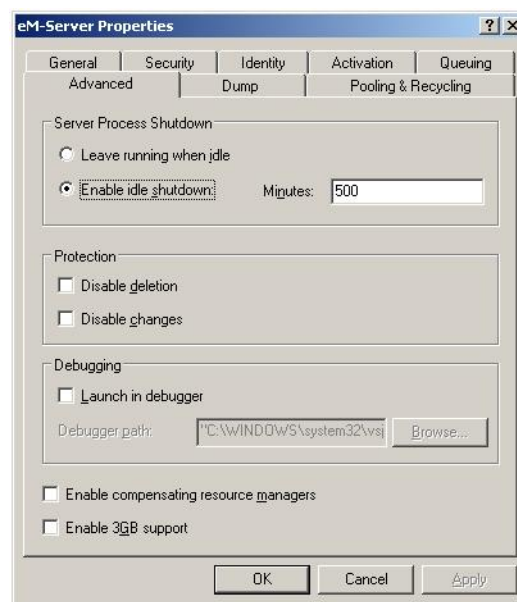


11. Click **Add**. The *Select Users, Computers, or Groups* window is displayed.
12. In the **Names** area enter the object name to select. Click **Check Names** to verify the name typed is valid. Click **OK** to close the window.
13. Select the user or group whose access you wish to update and click the **Allow** checkbox to allow launch for your selection.
14. Click **OK** to close the *Launch Permission* window.
15. Click **Apply** followed by **OK** to close the *eMS Agent Properties* window.
- 16.

From your Windows Start menu, select **Control Panel -> Administrative Tools -> Component Services** (or from the **Start** menu, select **Run -> dcomcnfg**). The *Component Services* window is displayed:



17. Right-click the eMServer package. From the popup menu, select **Properties**. The *eMServer Properties* window is displayed, showing the **General** tab.
18. Uncheck the **Disable changes** checkbox in the **Advanced** tab, as displayed below:



19. Select the Identity tab, as follows:



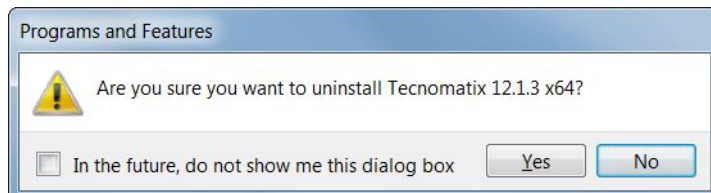
20. In the **Account** area, select **This user**.
21. In the relevant user and password fields, enter the details of the user to be permitted to log on to the eMServer.
22. Click **OK**.

Removing the Tecnomatix Installation

Tecnomatix installations can be removed by performing one of the procedures described below.

To remove the Tecnomatix installation using the Control Panel:

1. Access the Control Panel and select **Change or Remove (Uninstall) Programs**.
2. Select **Tecnomatix** from the list of currently installed programs.
3. Click **Change** or **Remove**. If you click **Remove**, the following message is displayed:
4. Click **Yes** to complete the removal.



To remove the Tecnomatix installation using the Start Menu:

1. Open the **Start** menu.
2. Select **All Programs -> Tecnomatix -> Uninstall -> Uninstall Tecnomatix <version>**.
3. To complete the removal of the Tecnomatix installation:

a. Remove the following folders and their content:

To complete the removal of the Tecnomatix installation:	
a. Remove the following folders and their content	
Tecnomatix install dir	[INSTALLDIR]\Tecnomatix_<VERSION>\eMPower [INSTALLDIR]\Tecnomatix_<VERSION>\eMPower32 (If client was installed)
[CommonAppDataFolder]	C:\ProgramData\Tecnomatix\em-Engineer C:\ProgramData\Tecnomatix\em-Human C:\ProgramData\Tecnomatix\em-Weld C:\ProgramData\Tecnomatix\Process Designer C:\ProgramData\Tecnomatix\Process Simulate C:\ProgramData\Tecnomatix\Process Simulate Commissioning
[AppDataFolder]	C:\Users\[USERNAME]\Local Settings\AppData\Local\Tecnomatix\em-Engineer C:\Users\[USERNAME]\Local Settings\AppData\Local\Tecnomatix\em-Human C:\Users\[USERNAME]\Local Settings\AppData\Local\Tecnomatix\em-Weld C:\Users\[USERNAME]\Local Settings\AppData\Local\Tecnomatix\Process Designer C:\Users\[USERNAME]\Local Settings\AppData\Local\Tecnomatix\Process Simulate C:\Users\[USERNAME]\Local Settings\AppData\Local\Tecnomatix\Process Simulate Commissioning
b. Remove the following registry entries:	
HKEY_LOCAL_MACHINE	[HKEY_LOCAL_MACHINE\SOFTWARE\Tecnomatix\em-Planner] [HKEY_LOCAL_MACHINE\SOFTWARE\Tecnomatix\emPower] * [HKEY_LOCAL_MACHINE\SOFTWARE\Tecnomatix\TUNE] [HKEY_LOCAL_MACHINE\SOFTWARE\Tecnomatix\BopBrowser] [HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Tecnomatix]
HKEY_CURRENT_USER	[HKEY_CURRENT_USER\SOFTWARE\Tecnomatix\em-Planner] [HKEY_CURRENT_USER\SOFTWARE\Tecnomatix\TUNE]
* Assuming there is no other Tecnomatix application that uses this key	

To complete the removal of the Tecnomatix installations that were installed as Side By Side you should also remove the following and their content (note that this procedure is needed only in case all Tecnomatix versions were uninstalled):

Tecnomatix Shared Folder	[TECNOMATIX_SHARED_FOLDER] (e.g. C:\Program Files\TecnomatixShared)
--------------------------	--

b. Remove the following registry entries:

HKEY_LOCAL_MACHINE	[HKEY_LOCAL_MACHINE\SOFTWARE\TecnomatixRoot] [HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\TecnomatixRoot]
c. Make sure the following was removed from the PATH environment variable	
PATH	[TECNOMATIX_SHARED_FOLDER]\TecnomatixCurrent\emPower\SIMBAPro;[TECNOMATIX_SHARED_FOLDER]\TecnomatixCurrent\emPower (e.g. C:\Program Files\TecnomatixShared\TecnomatixCurrent\emPower\SIMBAPro;C:\Program Files\TecnomatixShared\TecnomatixCurrent\emPower)

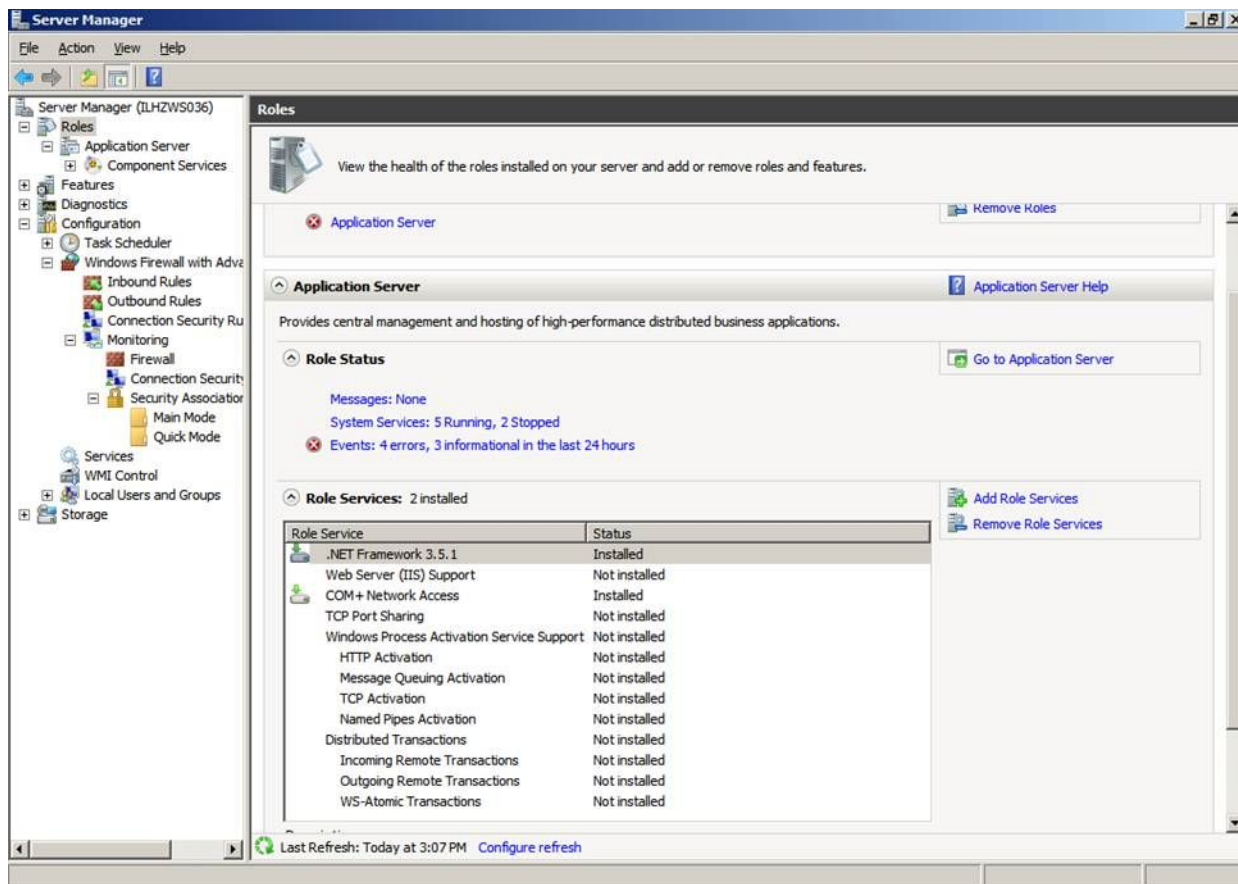
Configuring the Client and Server Environment

In order to ensure that the client and server environments are compatible, check that the User Locale settings (from the Regional settings) on the client machine are the same as the System Locale settings (from the Regional settings) on the server (eMSAgent) machine.

Preparing the Windows 2008 Server Machine

Windows 2008 server requires proactive activity to enable clients to connect to COM+ service. Therefore, in order to have an eMServer up and running (eMServer that serves clients from other machines), you need to use the following steps to enable network COM+ access:

1. Start **Server Manager**.
2. Select "Roles" in the tree on the left side.
3. Select the "Application Server" role and click "Add Role Services" on the right side.
4. Select "COM+ Network access" and follow the installation instructions.



Setting the Tecnomatix Environment on Windows 7

It is important to correctly adjust the settings of the *Region and Language* dialog of the Windows Control Panel.

You should determine the desired language to use for non-Unicode programs. Use the following steps to ensure that your environment is properly set:

1. Verify that the desired language is set in the section **Current language for non-Unicode programs** of the **Administrative** tab of the *Region and Language* dialog. If this is not the case, use the **Change system locale** button of the **Administrative** tab to set the desired language.
2. Verify that the entry in the **Format** section of the **Formats** tab of the *Region and Language* dialog is the same as the desired language. If not, set the desired language in the **Format** section.

3. In the **Administrative** tab of the *Region and Language* dialog click **Copy settings** to open the *Welcome screen and new user accounts settings* dialog. In the *Region and Language* dialog check the **Welcome screen and system account** and **New user accounts** options.
4. Click **OK** button to implement **Welcome screen and new user accounts** settings.
5. Reboot your machine (this is necessary after applying **Copy settings**).

Setting the Tecnomatix Database

Refer to the *eMServer Schema Administration Tool* and *eMServer Administration Tool* sections in the *Tecnomatix Administration Guide* for instructions about creating a new schema and associating the server with it.

Preparing the Domain Group Policy to Allow MMC Snap-ins

Domain Group Policy should allow running MMC snap-ins. If this policy denies access to these snap-ins, users may receive the following error when running the Tecnomatix AdminConsole: 'The snap-in below, referenced in this document, has been restricted by policy. Contact your administrator for details.' You can add the following settings to your Active Directory to grant MMC snap-in access:

- Allow access to AdminConsole.msc in Active Directory.
- Create a custom ADM template in Active Directory containing AdminConsole extension snap-ins, that explicitly allows them to run, overriding any restrictive group policy.

Tecnomatix_Console_Unlock.adm

```

CLASS User
    CATEGORY "Windows Components"
    CATEGORY "Microsoft Management Console"
    CATEGORY "Custom Settings"
    POLICY "Microsoft Folder Snap-in"
        KEYNAME "Software\Policies\Microsoft\MMC\{C96401CC-0E17-11D3-885B-00C04F72C717}"
        EXPLAIN "Permits or prohibits use of this snap-in"
        VALUENAME "Restrict_Run"
        VALUEON NUMERIC 0
        VALUEOFF NUMERIC 1
    END POLICY
    POLICY "Tecnomatix AdminConsole - Main"
        KEYNAME "Software\Policies\Microsoft\MMC\{F58FE333-371F-11DA-92C7-0020E0797C4D}"
        EXPLAIN "Permits or prohibits use of this snap-in"
        VALUENAME "Restrict_Run"
        VALUEON NUMERIC 0
        VALUEOFF NUMERIC 1
    ENDPOLICY
    POLICY "Tecnomatix AdminConsole - Archive Project"

```

```

KEYNAME "Software\Policies\Microsoft\MMC\{F58FE331-371F-11DA-92C7-0020E0797C4D}"
EXPLAIN "Permits or prohibits use of this snap-in"
VALUENAME "Restrict_Run"
VALUEON NUMERIC 0
VALUEOFF NUMERIC 1
END POLICY
POLICY "Tecnomatix AdminConsole - Business Modeler"
KEYNAME "Software\Policies\Microsoft\MMC\{F58FE323-371F-11DA-92C7-0020E0797C4D}"
EXPLAIN "Permits or prohibits use of this snap-in"
VALUENAME "Restrict_Run"
VALUEON NUMERIC 0
VALUEOFF NUMERIC 1
END POLICY
POLICY "Tecnomatix AdminConsole - Common Actions"
KEYNAME "Software\Policies\Microsoft\MMC\{F58FE32B-371F-11DA-92C7-0020E0797C4D}"
EXPLAIN "Permits or prohibits use of this snap-in"
VALUENAME "Restrict_Run"
VALUEON NUMERIC 0
VALUEOFF NUMERIC 1
END POLICY
POLICY "Tecnomatix AdminConsole - Data Analysis"
KEYNAME "Software\Policies\Microsoft\MMC\{F58FE32F-371F-11DA-92C7-0020E0797C4D}"
EXPLAIN "Permits or prohibits use of this snap-in"
VALUENAME "Restrict_Run"
VALUEON NUMERIC 0
VALUEOFF NUMERIC 1
END POLICY
POLICY "Tecnomatix AdminConsole - eMServer Manager"
KEYNAME "Software\Policies\Microsoft\MMC\{F58FE327-371F-11DA-92C7-0020E0797C4D}"
EXPLAIN "Permits or prohibits use of this snap-in"
VALUENAME "Restrict_Run"
VALUEON NUMERIC 0
VALUE OFFNUMERIC 1
END POLICY
POLICY "Tecnomatix AdminConsole - Project Actions"
KEYNAME "Software\Policies\Microsoft\MMC\{F58FE32D-371F-11DA-92C7-0020E0797C4D}"
EXPLAIN "Permits or prohibits use of this snap-in"
VALUENAME "Restrict_Run"
VALUEON NUMERIC 0
VALUEOFF NUMERIC 1
END POLICY
POLICY "Tecnomatix AdminConsole - Schema Manager"
KEYNAME "Software\Policies\Microsoft\MMC\{F58FE329-371F-11DA-92C7-0020E0797C4D}"

```

```

        EXPLAIN "Permits or prohibits use of this snap-in"
        VALUENAME "Restrict_Run"
        VALUEON NUMERIC 0
        VALUEOFF NUMERIC 1
    END POLICY
POLICY "Tecnomatix AdminConsole - User Administration"
    KEYNAME "Software\Policies\Microsoft\MMC\{F58FE325-371F-11DA-92C7-0020E0797C4D}"
    EXPLAIN "Permits or prohibits use of this snap-in"
    VALUENAME "Restrict_Run"
    VALUEON NUMERIC 0
    VALUEOFF NUMERIC 1
END POLICY
END CATEGORY
END CATEGORY
END CATEGORY

```


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